

# TRAIL RIDGE LANDFILL

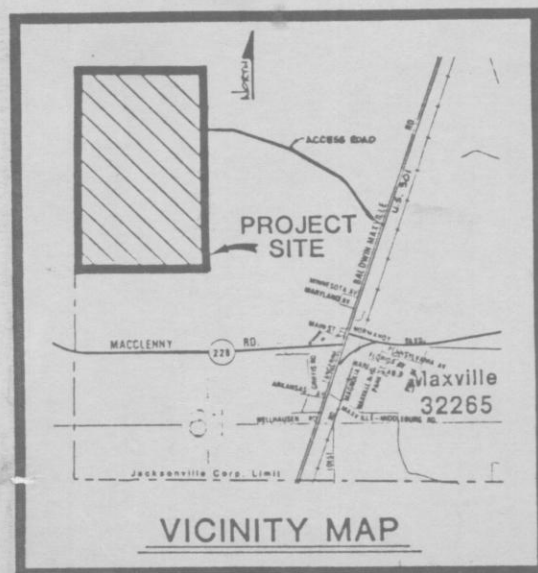
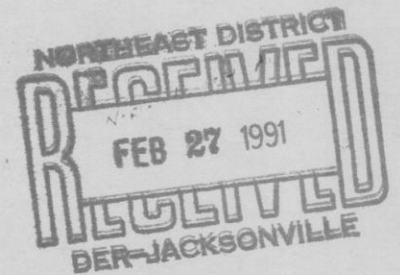
## FOR

# TRAIL RIDGE LANDFILL, INC.

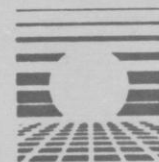
### PLAN "A"

10155-95

33628  
7/27/90 - 2/27/91  
Plan A



SCALE 1" = 4000'



## England-Thimms & Miller, Inc.




Consulting & Design Engineers

JACKSONVILLE, FLORIDA

PROJECT NO.: E89-113-9

DATE: JULY 27, 1990

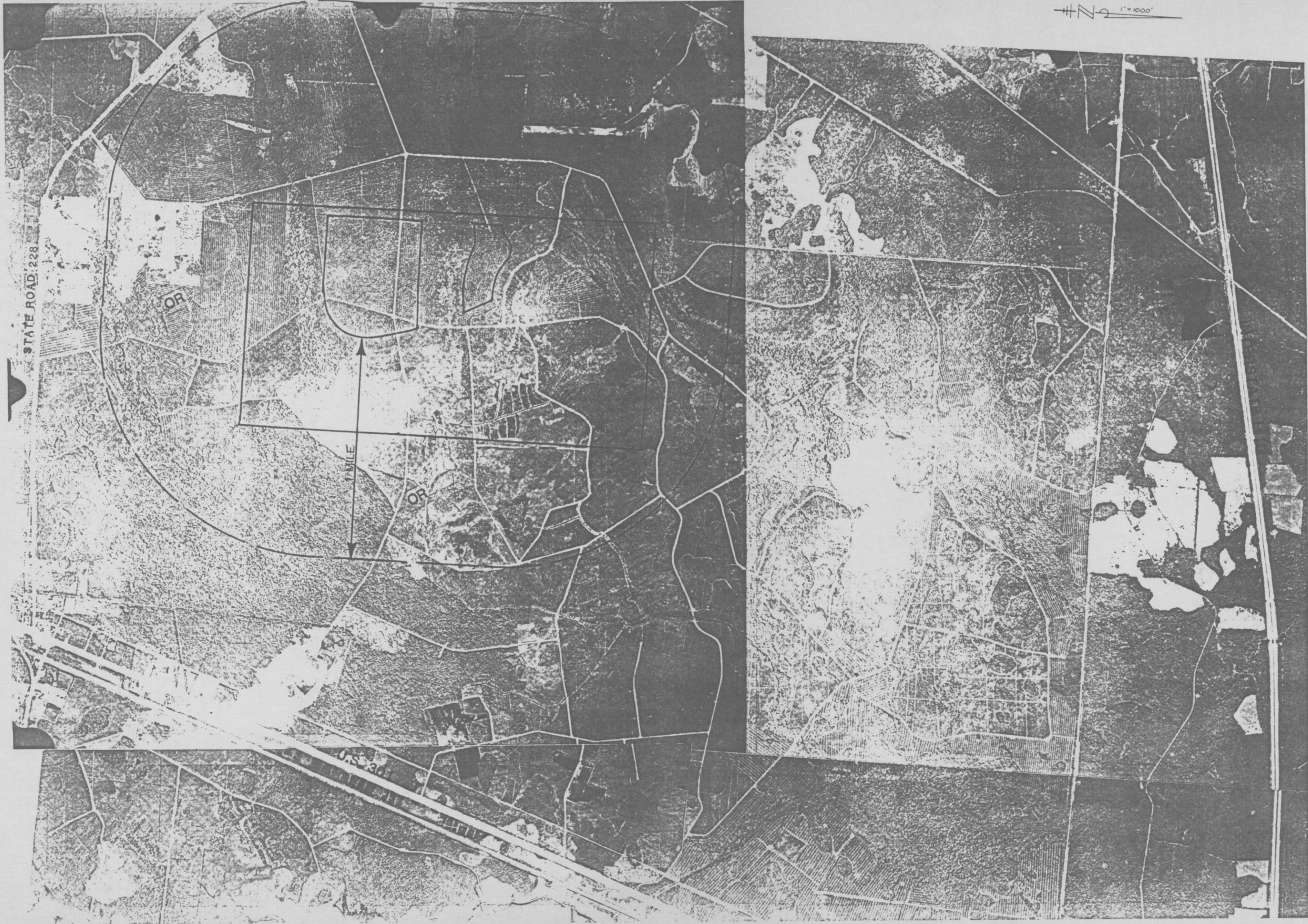
#### SECTION OR DETAIL SYMBOL

-  SECTION OR DETAIL NUMBER
-  SHEET ON WHICH SECTION OR DETAIL IS DRAWN
-  SHEET ON WHICH SECTION OR DETAIL IS TAKEN

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ENG. PROJ. NO. E 89-113-9	REVISIONS
DRAWN BY EAH	
CHECKED BY JAT	
DATE JUNE 16, 1970	

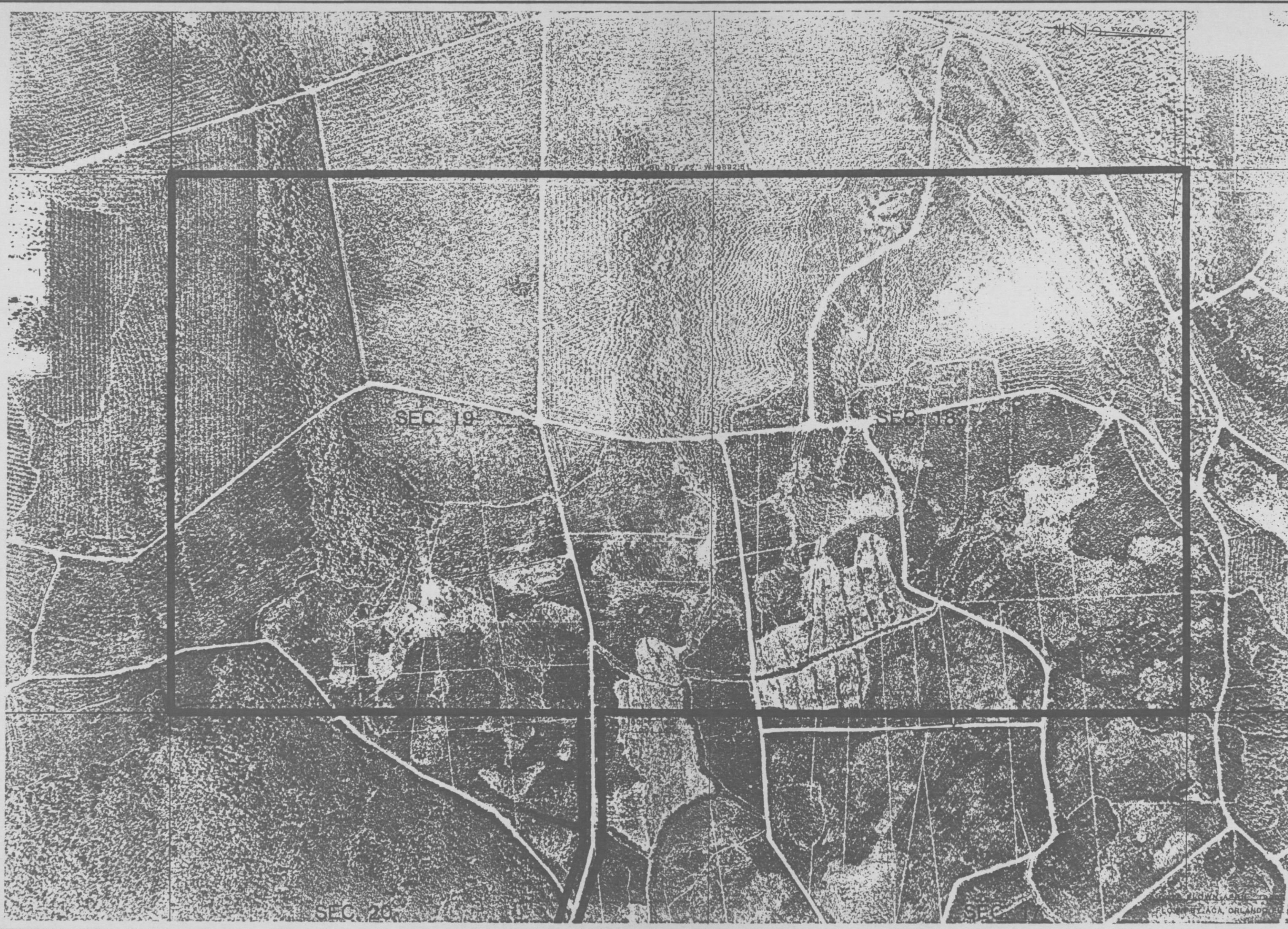
AERIAL PHOTOGRAPH  
 TRAIL RIDGE LANDFILL  
 (PLAN A)

**England-Thimy & Miller, Inc.**  
 Consulting & Design Engineers  
 JACKSONVILLE, FLORIDA



DRAWING NO.  
 2





 <b>England-Thims &amp; Miller, Inc.</b> Consulting & Design Engineers JACKSONVILLE, FLORIDA	<b>AERIAL PHOTOGRAPH</b>		ENG. NO. 81-1139 DRAWN BY: <i>PLW</i> CHECKED BY: <i>JAT</i> DATE: JUNE 18, 1970
	<b>TRAIL RIDGE LANDFILL</b> (PLAN A)		



# MAP SHOWING BOUNDARY SURVEY OF :

A PORTION OF SECTIONS 18, 20 AND 21,  
TOGETHER WITH SECTION 19, ALL LYING  
IN TOWNSHIP 3 SOUTH, RANGE 23 EAST,  
JACKSONVILLE, DUVAL COUNTY, FLORIDA

BEING MORE PARTICULARLY DESCRIBED BELOW:

**PARCEL A**

SECTION 18, EXCEPT THE NORTH 600 FEET THEREOF, TOGETHER WITH SECTION 19, ALL LYING IN TOWNSHIP 3 SOUTH, RANGE 23 EAST, JACKSONVILLE, DUVAL COUNTY, FLORIDA, CONTAINING 1190.908 ACRES, MORE OR LESS.

**PARCEL B**

A PORTION OF SECTION 20, TOWNSHIP 3 SOUTH, RANGE 23 EAST, JACKSONVILLE, DUVAL COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHWEST CORNER OF SAID SECTION 20, AND RUN THENCE SOUTH 00°17'46" WEST, ALONG THE WEST LINE OF SAID SECTION 20, 1091.84 FEET TO THE POINT OF BEGINNING.

FROM THE ABOVE DESCRIBED POINT OF BEGINNING, RUN THENCE NORTH 88°03'11" EAST, DEPARTING SAID WEST LINE OF SECTION 20, A DISTANCE OF 1396.84 FEET; RUN THENCE SOUTH 74°29'55" EAST, A DISTANCE OF 824.12 FEET; RUN THENCE SOUTH 70°18'48" EAST, A DISTANCE OF 1892.00 FEET; RUN THENCE SOUTH 50°25'01" EAST, A DISTANCE OF 1913.07 FEET TO A POINT LYING ON THE EAST LINE OF SAID SECTION 20; RUN THENCE SOUTH 00°18'33" WEST, ALONG SAID EAST LINE, A DISTANCE OF 127.49 FEET; RUN THENCE NORTH 49°19'49" WEST, DEPARTING SAID EAST LINE OF SAID SECTION 20, A DISTANCE OF 57.82 FEET; RUN THENCE NORTH 58°25'01" WEST, A DISTANCE OF 1910.90 FEET; RUN THENCE NORTH 70°15'45" WEST, A DISTANCE OF 1878.81 FEET; RUN THENCE NORTH 74°29'55" WEST, A DISTANCE OF 805.97 FEET; RUN THENCE SOUTH 88°03'11" WEST, A DISTANCE OF 1384.55 FEET TO A POINT LYING ON THE WEST LINE OF SAID SECTION 20; RUN THENCE NORTH 00°17'46" EAST, A DISTANCE OF 100.02 FEET TO THE POINT OF BEGINNING.

THE ABOVE DESCRIBED PARCEL OF LAND CONTAINING 12.927 ACRES, MORE OR LESS.

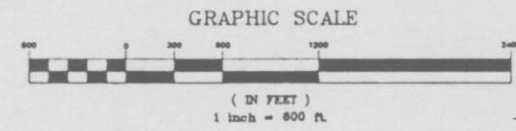
**PARCEL C**

A PORTION OF SECTION 21, TOWNSHIP 3 SOUTH, RANGE 23 EAST, JACKSONVILLE, DUVAL COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF SAID SECTION 21, AND RUN THENCE NORTH 00°18'33" EAST, ALONG THE WEST LINE OF SAID SECTION 21, A DISTANCE OF 2230.00 FEET TO THE POINT OF BEGINNING.

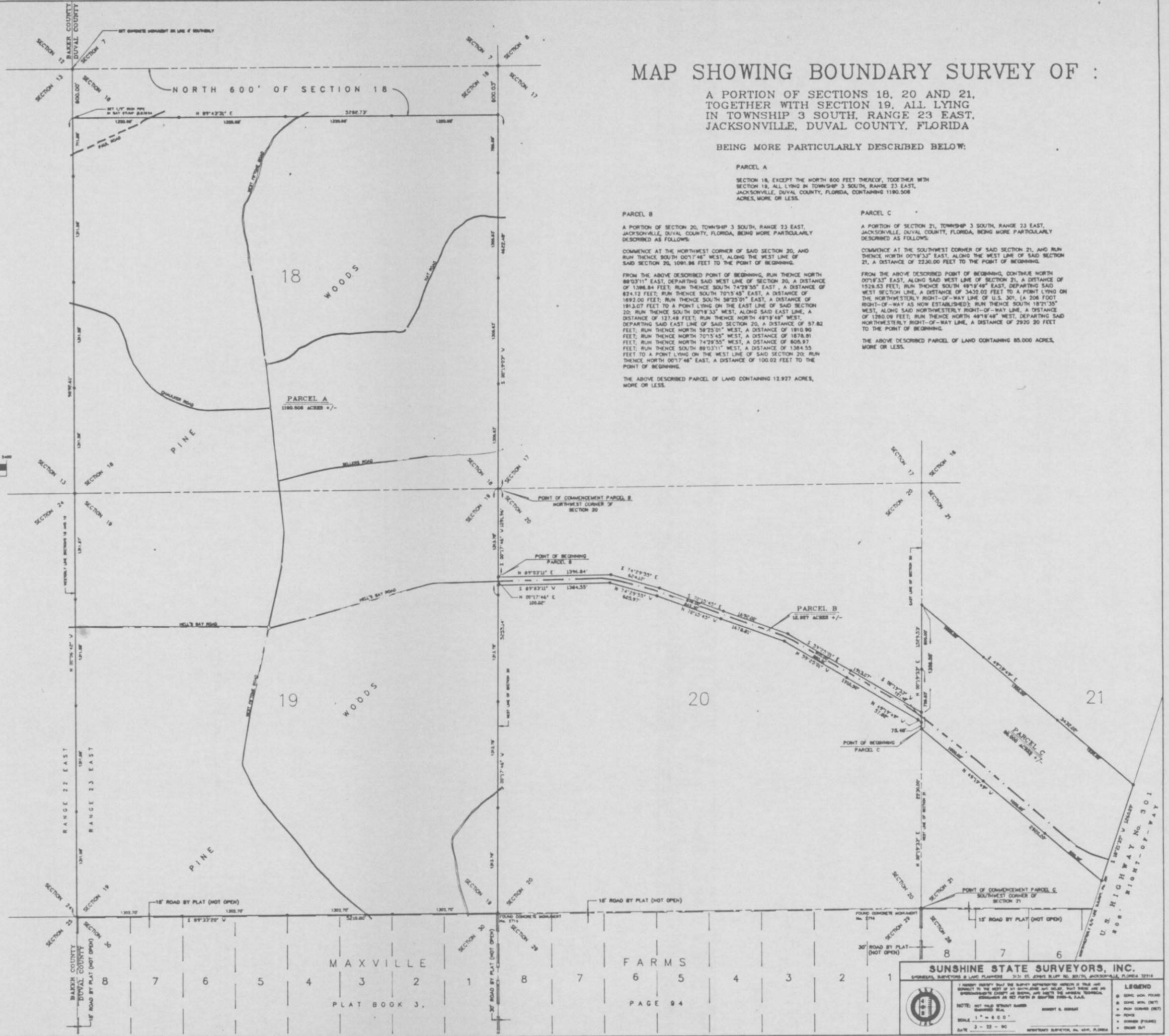
FROM THE ABOVE DESCRIBED POINT OF BEGINNING, CONTINUE NORTH 00°18'33" EAST, ALONG SAID WEST LINE OF SECTION 21, A DISTANCE OF 1538.83 FEET; RUN THENCE SOUTH 49°19'49" EAST, DEPARTING SAID WEST SECTION LINE, A DISTANCE OF 3432.02 FEET TO A POINT LYING ON THE NORTHWESTERLY RIGHT-OF-WAY LINE OF U.S. 301, (A 200 FOOT RIGHT-OF-WAY AS NOW ESTABLISHED); RUN THENCE SOUTH 18°21'35" WEST, ALONG SAID NORTHWESTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1280.09 FEET; RUN THENCE NORTH 49°19'49" WEST, DEPARTING SAID NORTHWESTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 2920.20 FEET TO THE POINT OF BEGINNING.

THE ABOVE DESCRIBED PARCEL OF LAND CONTAINING 85.000 ACRES, MORE OR LESS.



SCALE: 1" = 600'

- NOTES:**
- 1) BEARINGS BASED ON THE WESTERLY LINES OF SECTIONS 18 AND 19, T-3-S-2, R-23-E AS BEING N 00°00'48" W
  - 2) TRAIL ROADS SHOWN HEREON == ARE GRAPHIC REPRESENTATIONS ONLY AND DO NOT REPRESENT A FIELD LOCATION
  - 3) ● DENOTES FOUND CONCRETE MONUMENT
  - 4) ⊙ DENOTES SET CONCRETE MONUMENT I.B. No. 3824
  - 5) THIS SURVEY PERFORMED WITHOUT BENEFIT OF TITLE ABSTRACT.
  - 6) NO ATTEMPT WAS MADE TO LOCATE ANY INTERIOR FENCES OR STRUCTURES, IF ANY.



MAXVILLE  
PLAT BOOK 3,

FARMS  
PAGE 94

**SUNSHINE STATE SURVEYORS, INC.**  
SURVEYORS & LAND PLANNERS 3131 ST. JAMES BLVD. JACKSONVILLE, FLORIDA 32218

1. I HEREBY CERTIFY THAT THE SURVEY REPRESENTED HEREON IS THAT SET FORTH IN THE DEED BY WHICH SAID LAND WAS ACQUIRED AND THAT I AM A LICENSED SURVEYOR IN THE STATE OF FLORIDA AND THAT I AM NOT EMPLOYED BY ANY OTHER PARTY IN CONNECTION WITH THIS SURVEY.

NOTE: NOT VALID WITHOUT ASSURED LIABILITY INSURANCE

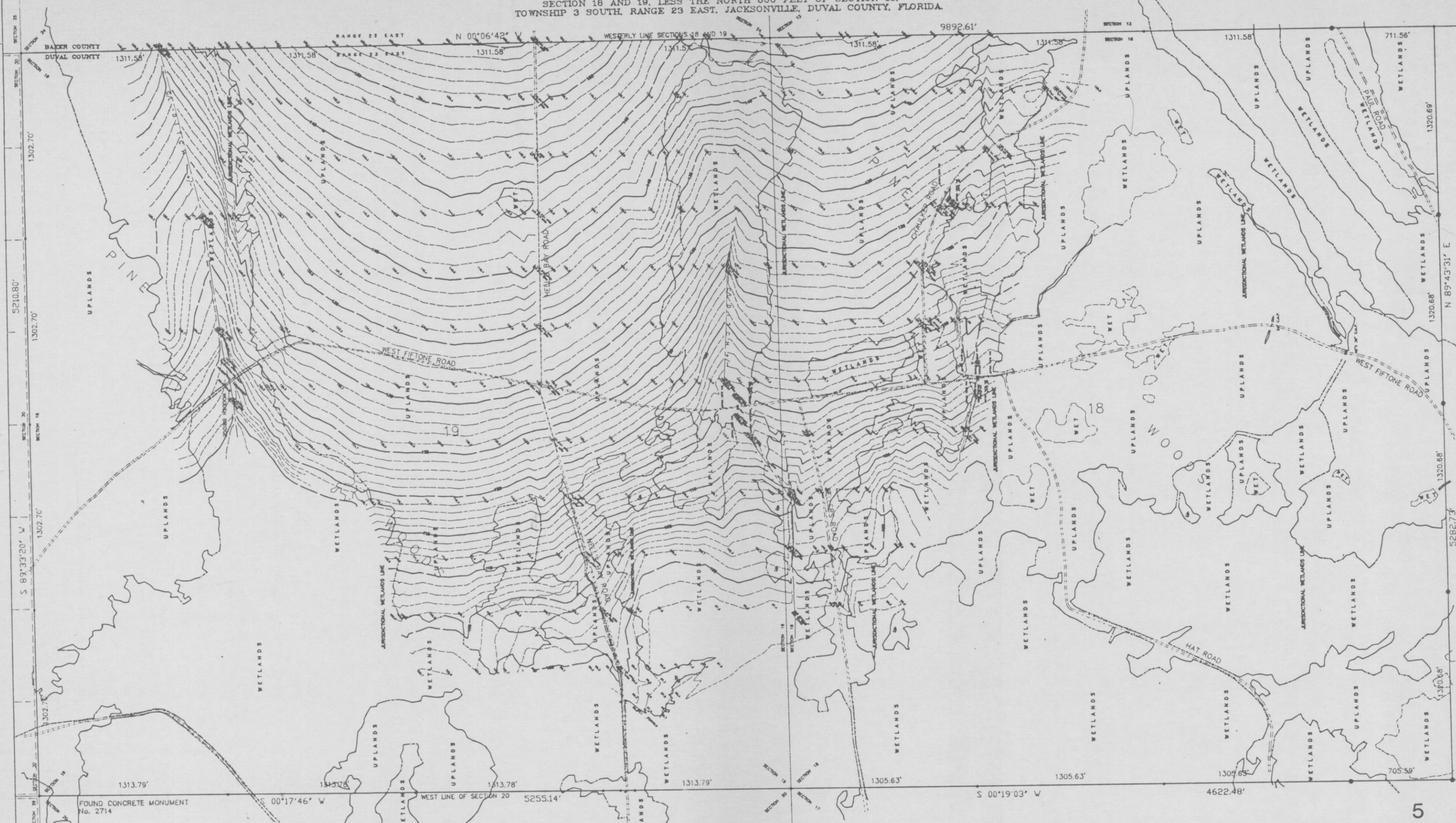
SCALE: 1" = 600'  
DATE: 3-22-80  
DRAWN BY: J.L.A.  
CHECKED BY: E.A.C.

LEGEND:  
● CONG. MON. FOUND  
⊙ CONG. MON. SET  
== TRAIL ROAD (NOT FENCED)  
- - - FENCE  
+ CROSSING (FOUND)  
+ CROSSING (SET)

FIELD BOOK NO. 281, PGS. 25-74 246, PG. 81-70  
ORDER NO. 389-1031  
FILE NO. 890-2771



MAP SHOWING SPECIFIC PURPOSE JURISDICTIONAL WETLANDS AND LIMITED TOPOGRAPHIC SURVEY LYING WITHIN:  
SECTION 18 AND 19, LESS THE NORTH 800 FEET OF SECTION 18,  
TOWNSHIP 3 SOUTH, RANGE 23 EAST, JACKSONVILLE, DUVAL COUNTY, FLORIDA.



- NOTES:
- 1.) BEARINGS BASED ON THE WESTERLY LINES OF SECTIONS 18 AND 19, T-3-S, R-23-E AS BEING N 00°06'42" W.
  - 2.) ELEVATIONS BASED ON U.S.C. & G. BENCHMARK AJ-59, LOCATED NEAR INTERSECTION OF U.S. HWY. No. 301 AND STATE RD. No. 226; BENCHMARK ELEVATION: 88.412'
  - 3.) TRAIL ROADS SHOWN HEREON ARE A GRAPHIC REPRESENTATION AND WERE NOT A CONSIDERATION IN RELATION TO THE CONTOUR LINES.
  - 4.) ● DENOTES SPOT ELEVATION.
  - 5.) ● DENOTES FOUND CONCRETE MONUMENT.
  - 6.) ● DENOTES SET CONCRETE MONUMENT; I.R. No. 3624.
  - 7.) --- DENOTES CONTOUR LINE (ONE FOOT INTERVALS).
  - 8.) --- DENOTES CONTOUR LINE (FIVE FOOT INTERVALS).
  - 9.) --- DENOTES APPROXIMATE LOCATION OF TRAIL ROAD.
  - 10.) C.M.P. DENOTES CORRUGATED METAL PIPE.
  - 11.) --- DENOTES ARMY CORPS OF ENGINEERS, ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, AND DEPT. OF ENVIRONMENTAL REGULATION JURISDICTIONAL WETLANDS LINE.
  - 12.) --- DENOTES ARMY CORPS OF ENGINEERS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT JURISDICTIONAL WETLANDS LINE.
  - 13.) THIS IS NOT A BOUNDARY SURVEY.

**SUNSHINE STATE SURVEYORS, INC.**  
ENGINEERS, SURVEYORS & LAND PLANNERS 3131 ST. JOHNS BLUFF RD. SOUTH, JACKSONVILLE, FLORIDA 32216

I HEREBY CERTIFY THAT THE SURVEY REPRESENTED HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THERE ARE NO ENCROACHMENTS EXCEPT AS SHOWN, AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH IN CHAPTER 2194-6, F.A.C.

NOTE: NOT VALID WITHOUT RAISED EMBOSSED SEAL

SCALE 1" = 300'

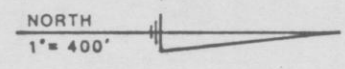
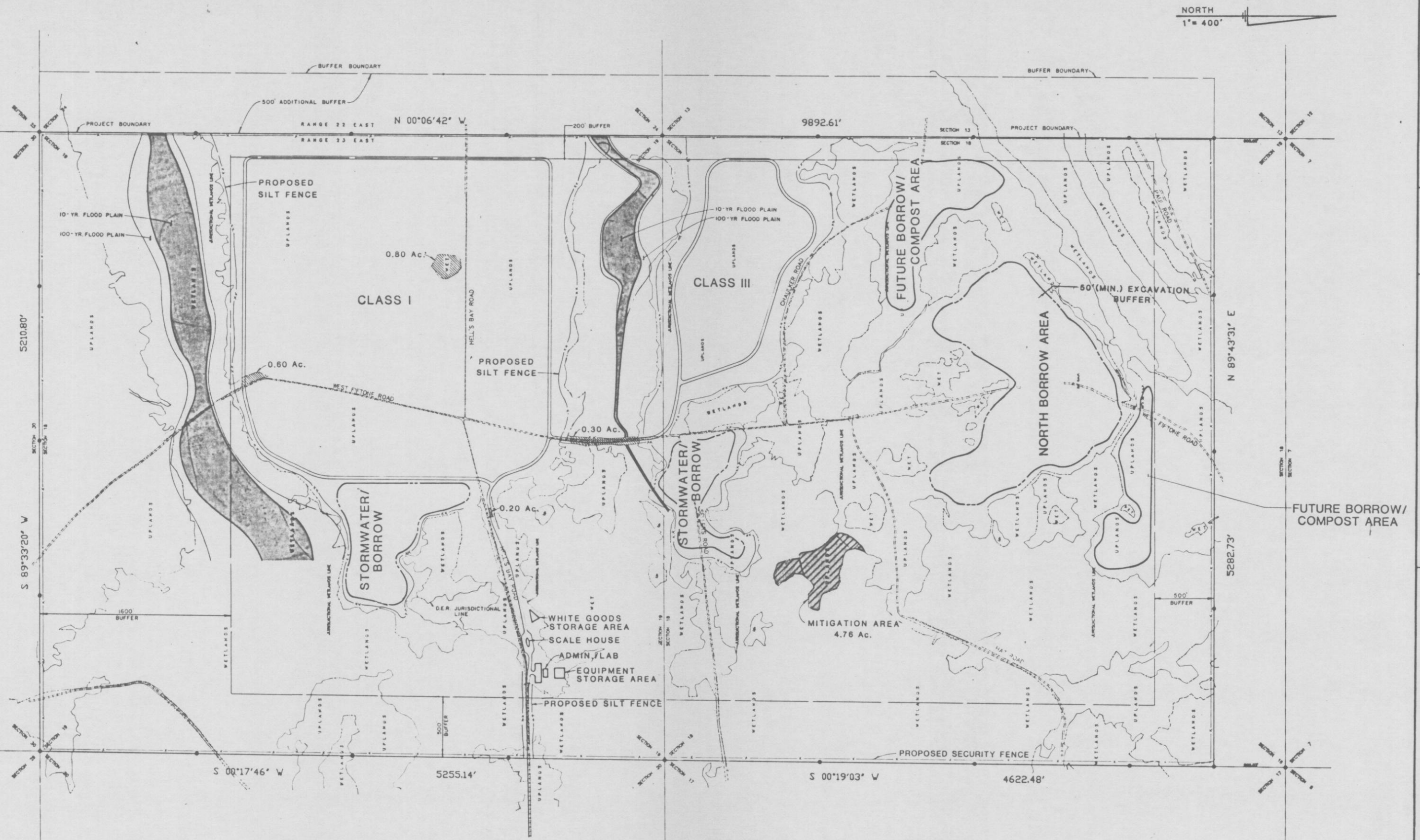
DATE 3-22-90

ROBERT S. CORSAT  
REGISTERED SURVEYOR, No. 4341, FLORIDA

**LEGEND**

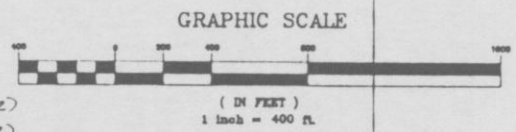
- CONC. MON. FOUND
- CONC. MON. (SET)
- IRON CORNER (SET)
- FENCE
- CORNER (FOUND)
- CROSS CUT





**LEGEND**

- CDE JURISDICTIONAL LIMITS
- PROPOSED SECURITY FENCE
- PROPOSED SILT FENCE
- 10 YR FLOOD PLAIN (AS CALCULATED USING HEC-2)
- 100 YR FLOOD PLAIN (AS CALCULATED USING HEC-2)
- IMPACTED WETLANDS
- MITIGATION AREA



REVISIONS	
ENG. PROJ. NO. E PM-115-9	CHECKED BY JAT
DRAWN BY TLO	DATE JUNE 18, 1990

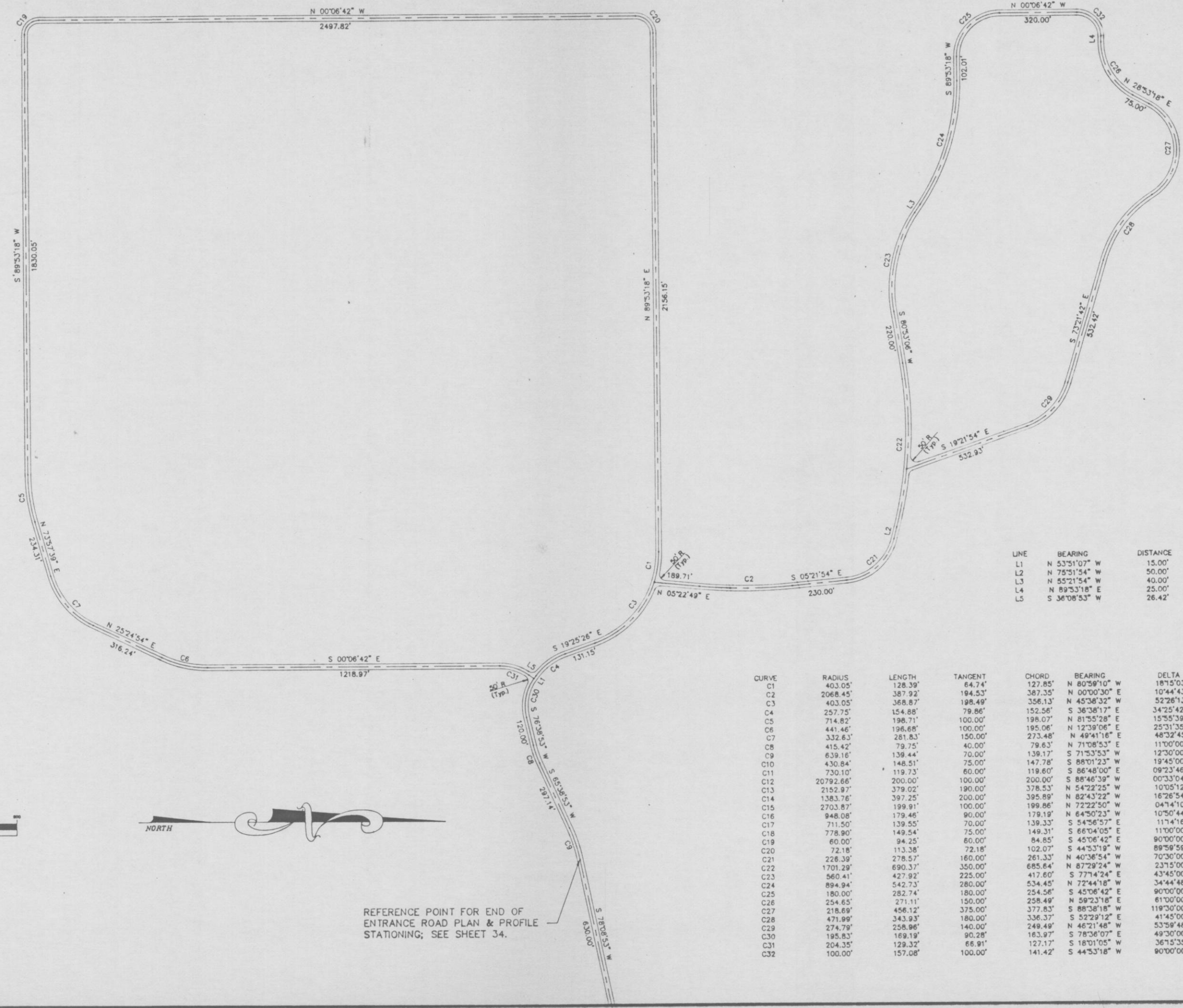
**SITE PLAN**  
**TRAIL RIDGE LANDFILL**  
(PLAN A)

**England-Thimby & Miller, Inc.**  
Consulting & Design Engineers  
JACKSONVILLE, FLORIDA



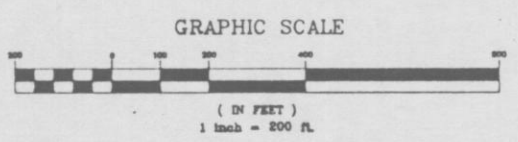
1311.58'      1311.58'      1311.58'      1311.57'      1311.58'      9892.61'

N 00°06'42" W



LINE	BEARING	DISTANCE
L1	N 53°51'07" W	15.00'
L2	N 75°51'54" W	50.00'
L3	N 55°21'54" W	40.00'
L4	N 89°53'18" E	25.00'
L5	S 36°08'53" W	26.42'

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	403.05'	128.39'	64.74'	127.85'	N 80°59'10" W	187°5'03"
C2	2068.45'	387.92'	194.53'	387.35'	N 00°00'30" E	10°44'43"
C3	403.05'	368.87'	198.49'	356.13'	N 45°38'32" W	52°26'13"
C4	257.75'	154.88'	79.86'	152.56'	S 36°38'17" E	34°25'42"
C5	714.82'	198.71'	100.00'	198.07'	N 81°55'28" E	15°55'39"
C6	441.46'	196.68'	100.00'	195.06'	N 12°39'06" E	25°31'35"
C7	332.63'	281.83'	150.00'	273.48'	N 49°41'16" E	48°32'45"
C8	415.42'	79.75'	40.00'	79.63'	N 71°08'53" E	11°00'00"
C9	639.16'	139.44'	70.00'	139.17'	S 71°53'53" W	12°30'00"
C10	430.84'	148.51'	75.00'	147.78'	S 88°01'23" W	19°45'00"
C11	730.10'	119.73'	60.00'	119.60'	S 86°48'00" E	09°23'46"
C12	20792.66'	200.00'	100.00'	200.00'	S 88°46'39" W	00°33'04"
C13	2152.97'	379.02'	190.00'	378.53'	N 54°22'25" W	10°05'12"
C14	1383.76'	397.25'	200.00'	395.89'	N 82°43'22" W	16°26'54"
C15	2703.87'	199.91'	100.00'	199.86'	N 72°22'50" W	04°14'10"
C16	948.08'	179.46'	90.00'	179.19'	N 64°50'23" W	10°50'44"
C17	711.50'	139.55'	70.00'	139.33'	S 54°56'57" E	11°14'16"
C18	778.90'	149.54'	75.00'	149.31'	S 66°04'05" E	11°00'00"
C19	60.00'	94.25'	60.00'	84.85'	S 45°06'42" E	90°00'00"
C20	72.18'	113.38'	72.18'	102.07'	S 44°53'19" W	89°58'59"
C21	228.39'	278.57'	160.00'	261.33'	N 40°36'54" W	70°30'00"
C22	1701.29'	690.37'	350.00'	685.64'	N 87°29'24" W	23°15'00"
C23	560.41'	427.92'	225.00'	417.60'	S 77°14'24" E	43°45'00"
C24	894.94'	542.73'	280.00'	534.45'	N 72°44'18" W	34°44'48"
C25	180.00'	282.74'	180.00'	254.56'	S 45°06'42" E	90°00'00"
C26	254.65'	271.11'	150.00'	258.49'	N 59°23'18" E	61°00'00"
C27	218.69'	456.12'	375.00'	377.83'	S 88°38'18" W	119°30'00"
C28	471.99'	343.93'	180.00'	336.37'	S 52°29'12" E	41°45'00"
C29	274.79'	258.96'	140.00'	249.49'	N 46°21'48" W	53°59'48"
C30	195.83'	169.19'	90.28'	183.97'	S 78°36'07" E	49°30'00"
C31	204.35'	129.32'	66.91'	127.17'	S 18°01'05" W	36°15'35"
C32	100.00'	157.08'	100.00'	141.42'	S 44°53'18" W	90°00'00"



REFERENCE POINT FOR END OF ENTRANCE ROAD PLAN & PROFILE STATIONING; SEE SHEET 34.

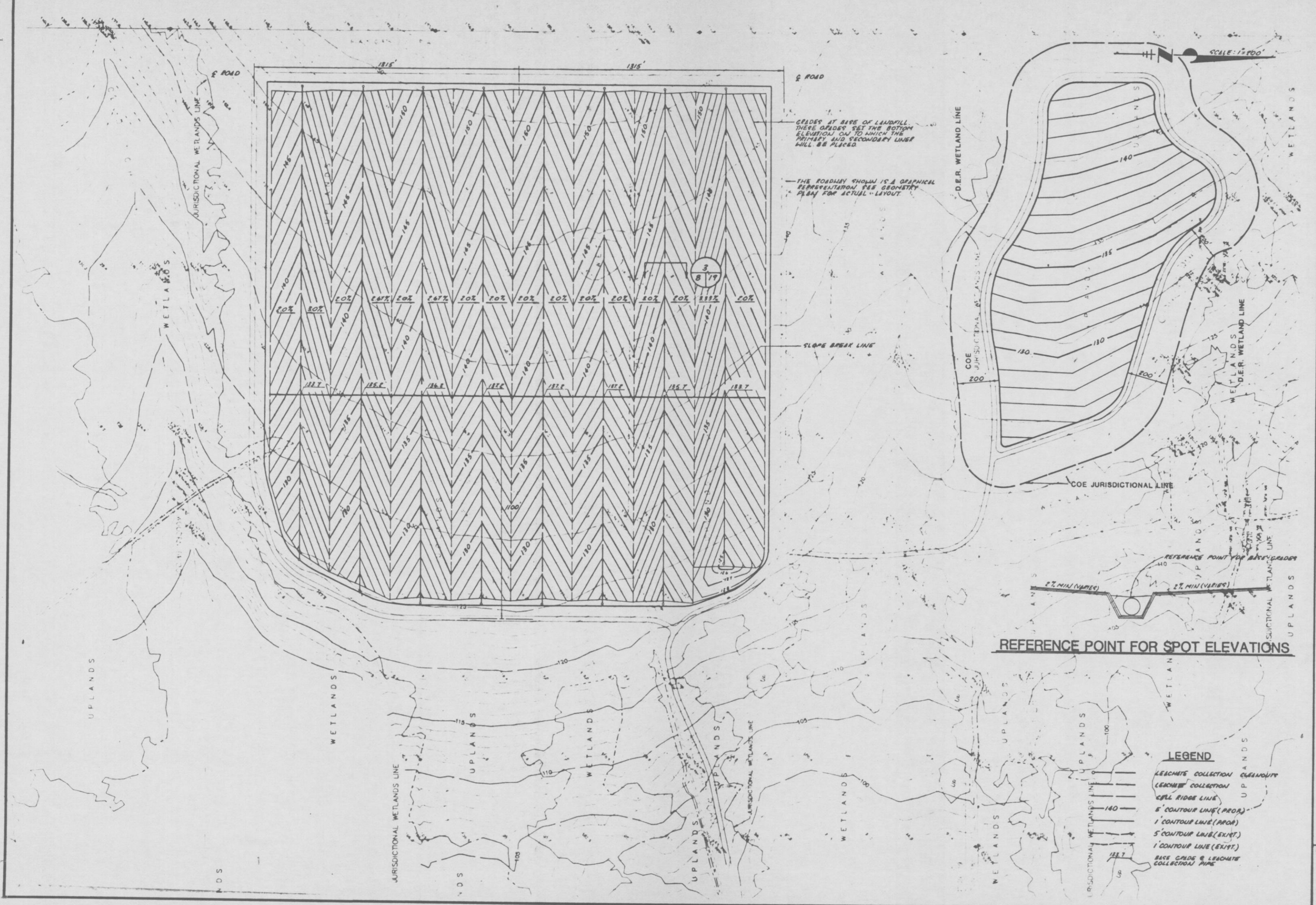
ENG PROJ NO	81/112.1
DRAWN BY	SKP
CHECKED BY	JAT
DATE	APRIL, 1980

GEOMETRY PLAN  
TRAIL RIDGE LANDFILL

**England-Thims & Miller, Inc.**  
Consulting & Design Engineers  
JACKSONVILLE, FLORIDA

DRAWING NO  
**7**





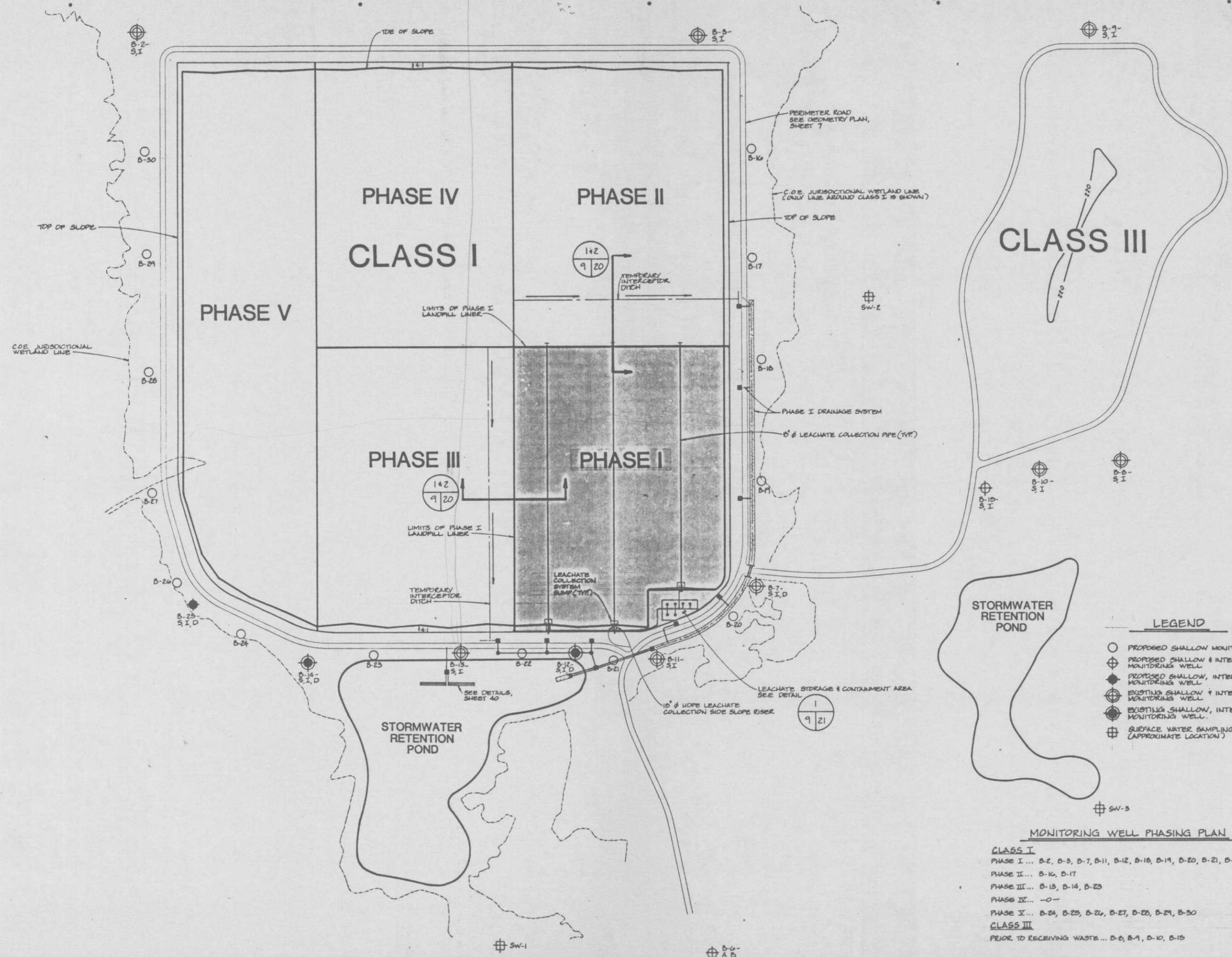
ENG. PROJ. NO. E87-113-4	REVISIONS
DRAWN BY PAH	
CHECKED BY RST	
DATE JUNE 18, 1990	

**BASE GRADES PLAN**  
**TRAIL RIDGE LANDFILL**  
(PLAN A)

**England-Thims & Miller, Inc.**  
Consulting & Design Engineers  
JACKSONVILLE, FLORIDA




NORTH  
1" = 200'



- LEGEND**
- PROPOSED SHALLOW MONITORING WELL
  - ◐ PROPOSED SHALLOW & INTERMEDIATE MONITORING WELL
  - ◑ PROPOSED SHALLOW, INTERMEDIATE, & DEEP MONITORING WELL
  - ⊕ EXISTING SHALLOW & INTERMEDIATE MONITORING WELL
  - ⊖ EXISTING SHALLOW, INTERMEDIATE, & DEEP MONITORING WELL
  - ⊕ SURFACE WATER SAMPLING POINTS (APPROXIMATE LOCATION)

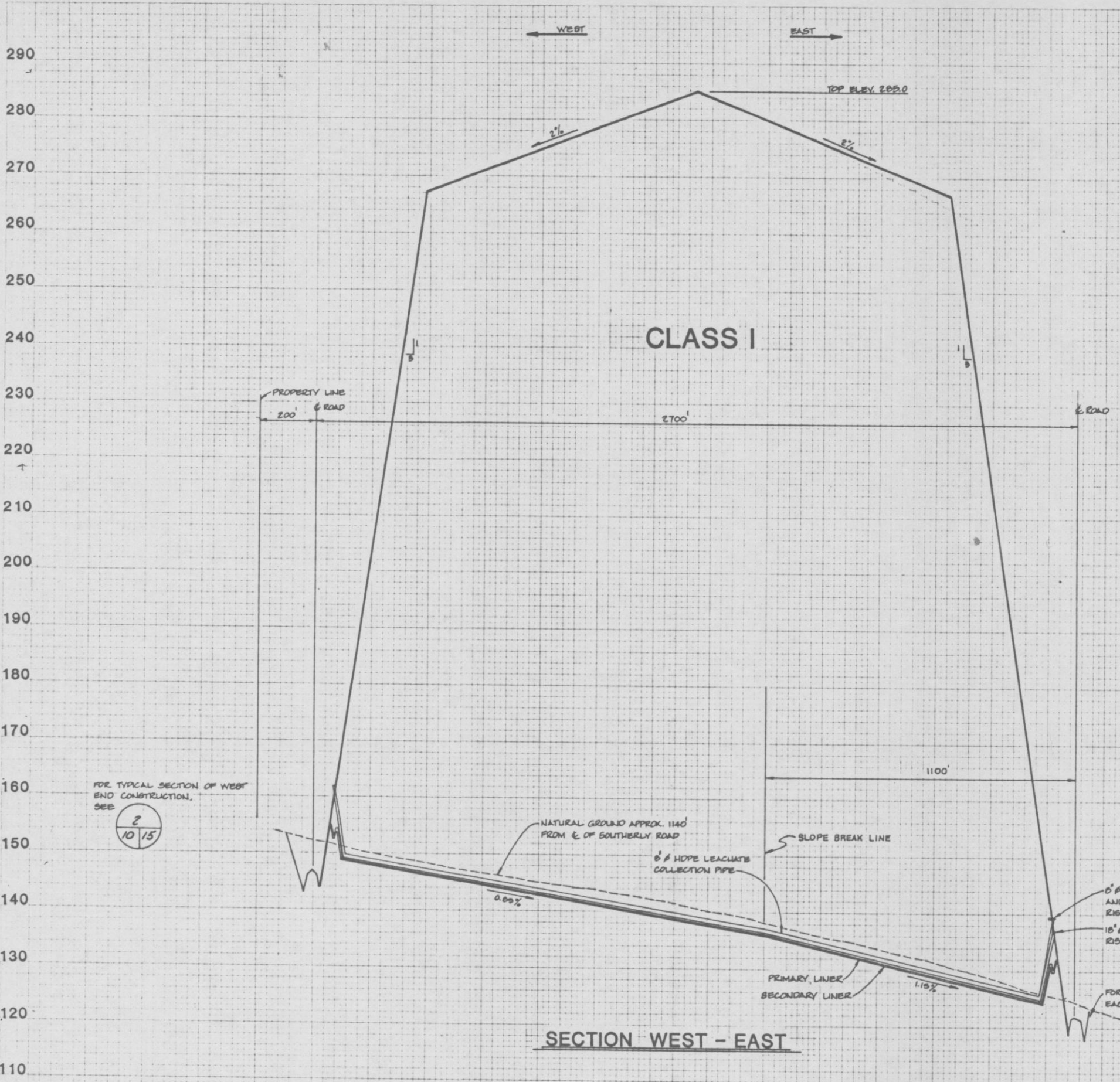
- MONITORING WELL PHASING PLAN**
- CLASS I**  
 PHASE I ... B-2, B-3, B-7, B-11, B-12, B-18, B-19, B-20, B-21, B-22  
 PHASE II ... B-16, B-17  
 PHASE III ... B-13, B-14, B-23  
 PHASE IV ... —  
 PHASE V ... B-24, B-25, B-26, B-27, B-28, B-29, B-30
- CLASS II**  
 PRIOR TO RECEIVING WASTE ... B-8, B-9, B-10, B-15

REVISONS	
NO. 1	DATE
1	JULY 23, 1990
ENG. INCH. NO. E87-113-9 DRAWN BY T.L.D. CHECKED BY S.J.H. DATE	
<b>BOTTOM LINER PHASING PLAN</b> <b>TRAIL RIDGE LANDFILL</b> (PLAN A)	
<b>England-Thimby &amp; Miller, Inc.</b> Consulting & Design Engineers JACKSONVILLE, FLORIDA	
 (DRAWING NO.) 9	
RELEASE FOR CONSTRUCTION	



FINAL SURVEY  
DATE: 07/08/90

ORIGINAL SURVEY  
DATE: 07/08/90

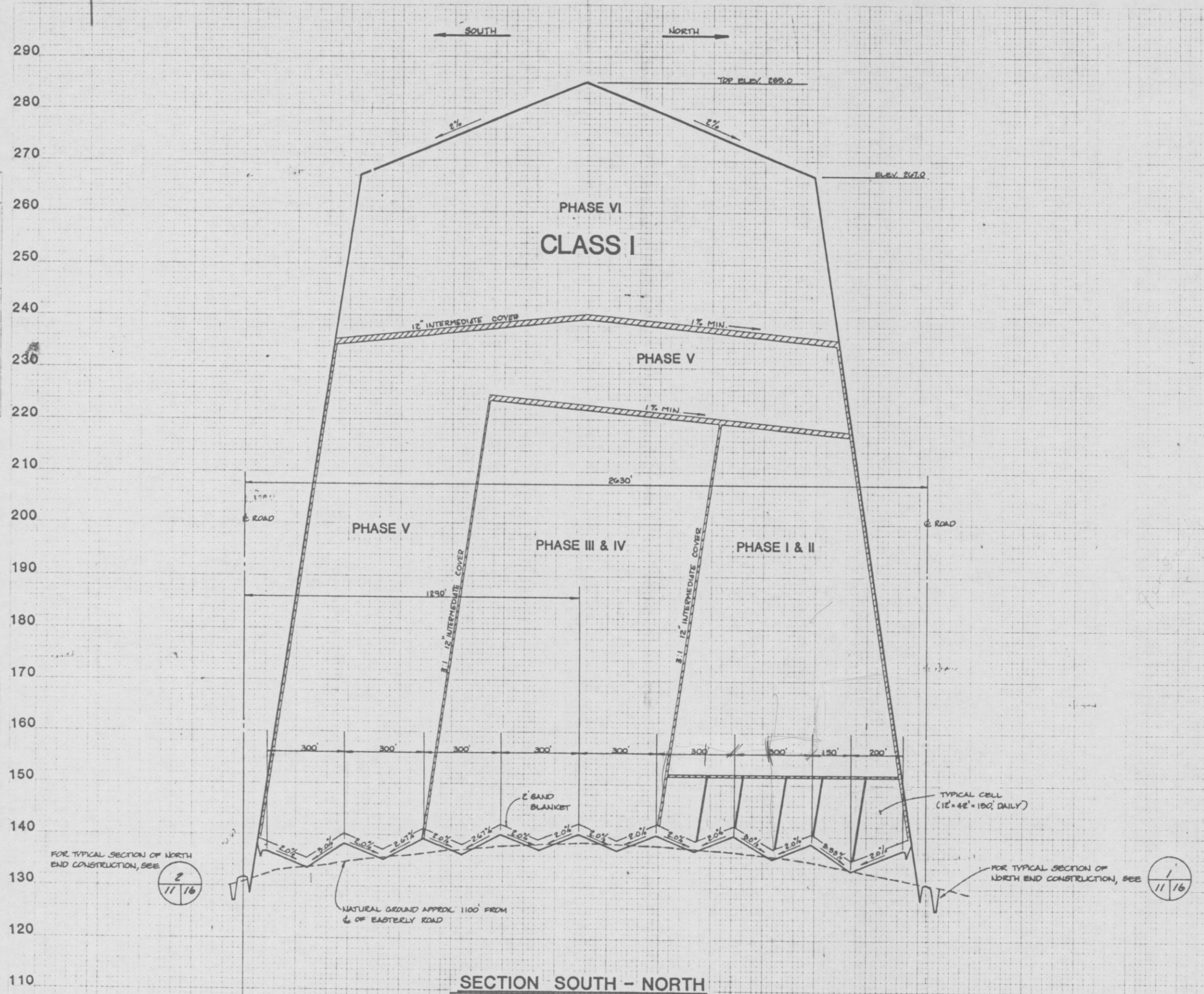


**SECTION WEST - EAST**

SCALE: 1" = 200' HORIZ.  
1" = 10' VERT.

CLASS I	
TRAIL RIDGE LANDFILL (PLAN A)	
<b>England-Thimby &amp; Miller, Inc.</b>	
Consulting & Design Engineers 301 S. John's Bluff Road St. Jacksonville, FL 32216 904-642-8990	
DATE: 07/08/90	DRAWN BY: [unintelligible]
10	





SECTION SOUTH - NORTH

SCALE: 1" = 200' HORIZ.  
1" = 10' VERT.

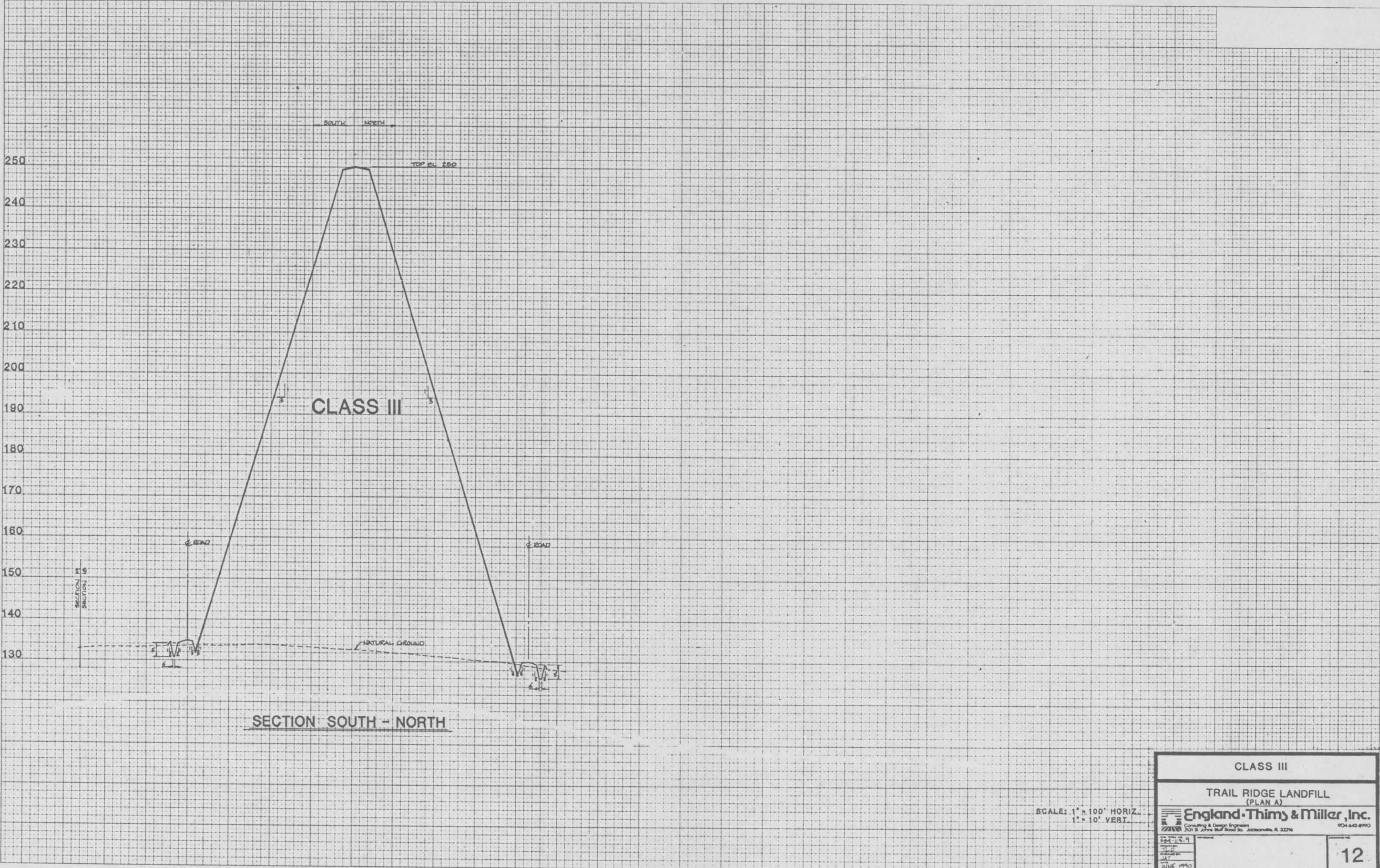
CLASS I									
TRAIL RIDGE LANDFILL (PLAN A)									
<b>England-Thimby &amp; Miller, Inc.</b> <small>Consulting &amp; Design Engineers 301 S. 20th St. Road 50 Jacksonville, FL 32216 904-642-8990</small>									
<table border="1"> <tr><td>DATE</td><td>11-18-71</td></tr> <tr><td>BY</td><td>...</td></tr> <tr><td>CHECKED</td><td>...</td></tr> <tr><td>SCALE</td><td>...</td></tr> </table>	DATE	11-18-71	BY	...	CHECKED	...	SCALE	...	<div style="border: 1px solid black; padding: 5px; display: inline-block;">11</div>
DATE	11-18-71								
BY	...								
CHECKED	...								
SCALE	...								

PLATE 3 CROSS SECTION OF CLASS I LANDFILL  
DETROIT CORPORATION



DATE: \_\_\_\_\_  
 SHEET NO. \_\_\_\_\_  
 PROJECT: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 FINAL SURVEY NOTE BOOK NO. \_\_\_\_\_

DATE: \_\_\_\_\_  
 SHEET NO. \_\_\_\_\_  
 PROJECT: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 ORIGINAL SURVEY NOTE BOOK NO. \_\_\_\_\_



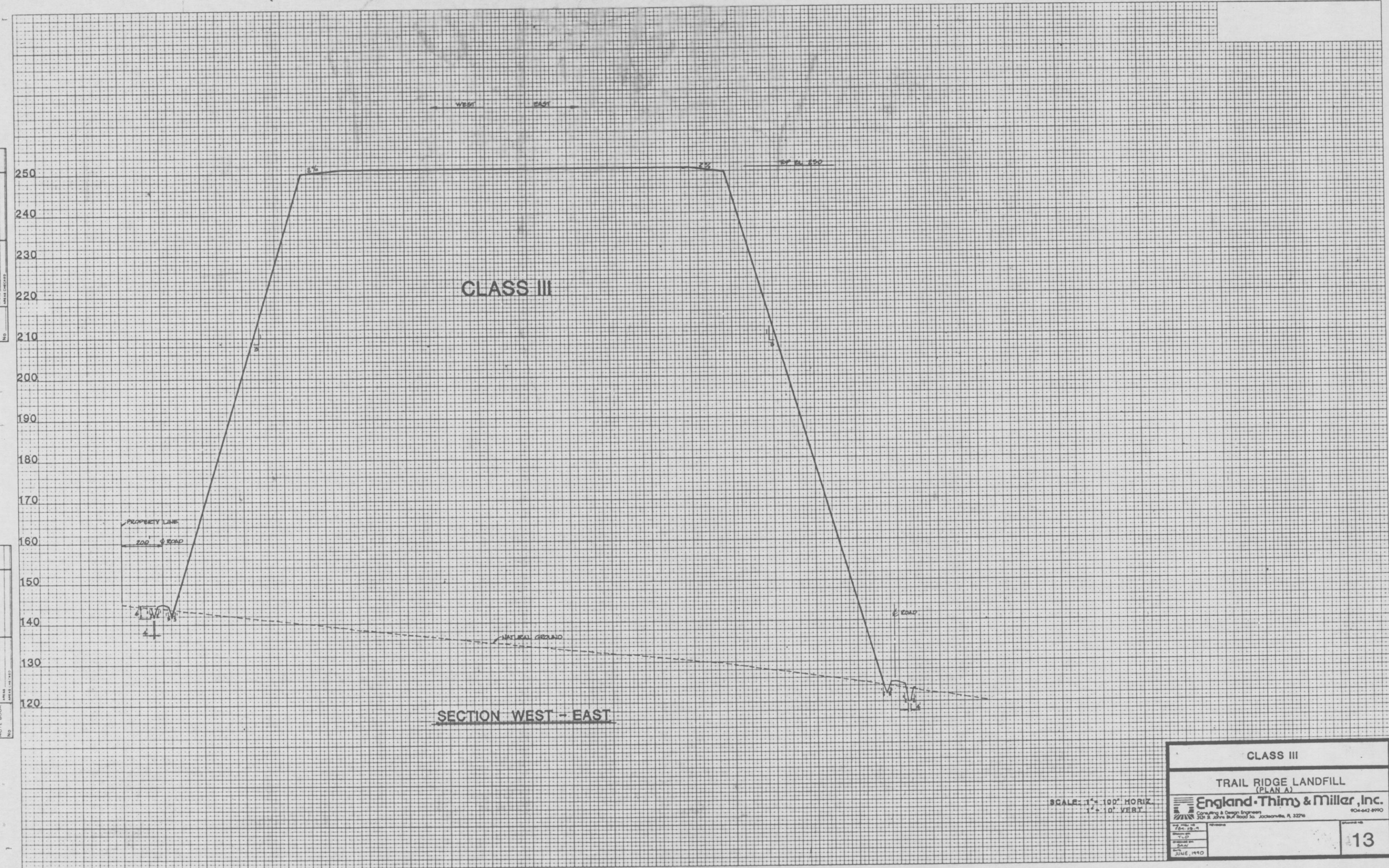
CLASS III	
TRAIL RIDGE LANDFILL (PLAN A)	
<b>England-Thims &amp; Miller, Inc.</b>	
<small>Consulting &amp; Design Engineers 303 S. Johns Bluff Road So. Jacksonville, FL 32216 904-642-8990</small>	
<small>EP4-113-9 TR-12 JAT JUNE 1990</small>	12

SCALE: 1" = 100' HORIZ.  
 1" = 10' VERT.



FINAL SURVEY NOTE BOOK NO. 100

ORIGINAL SURVEY NOTE BOOK NO. 100



CLASS III

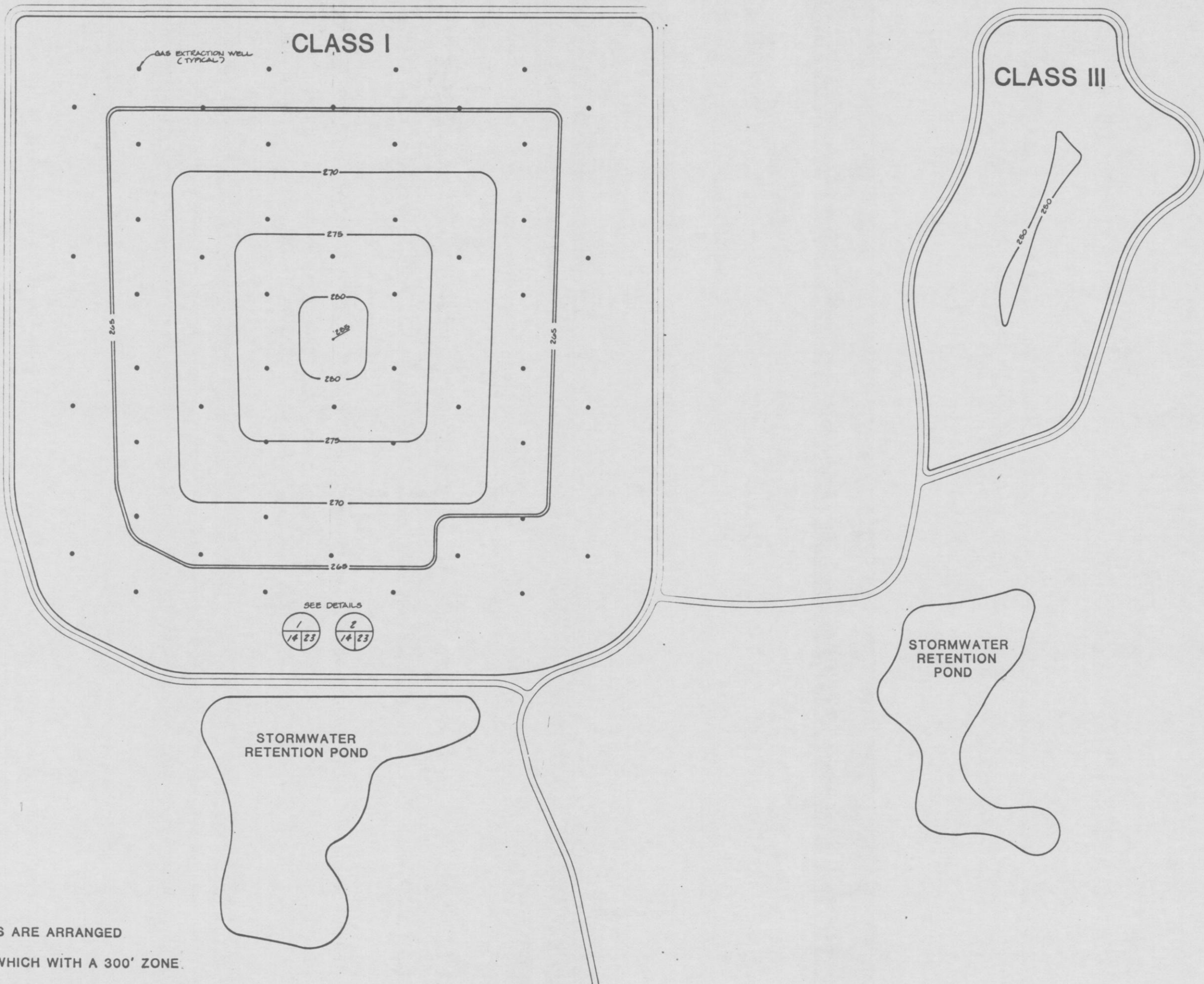
SECTION WEST - EAST

SCALE: 1" = 100' HORIZ.  
1" = 10' VERT.

CLASS III	
TRAIL RIDGE LANDFILL (PLAN A)	
<b>England-Thimys &amp; Miller, Inc.</b> Consulting & Design Engineers 100 S. John's Bluff Road, Jacksonville, N. C. 28586	
DATE: JUNE 1990 DRAWN BY: [blank] CHECKED BY: [blank]	13




NORTH  
SCALE: 1" = 200'



SEE DETAILS  
1 2  
14 23 14 23

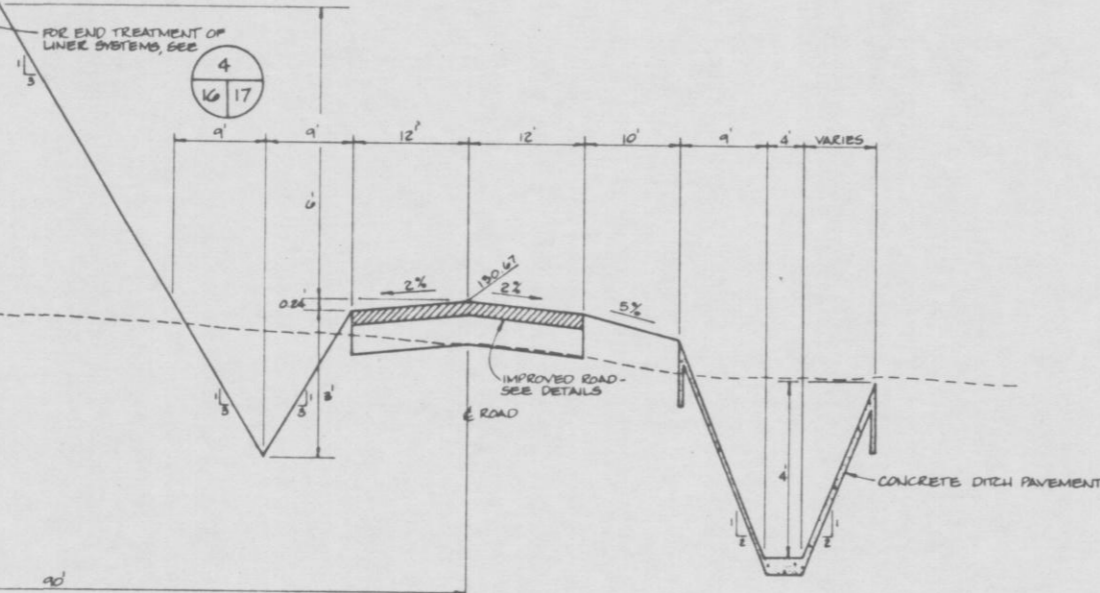
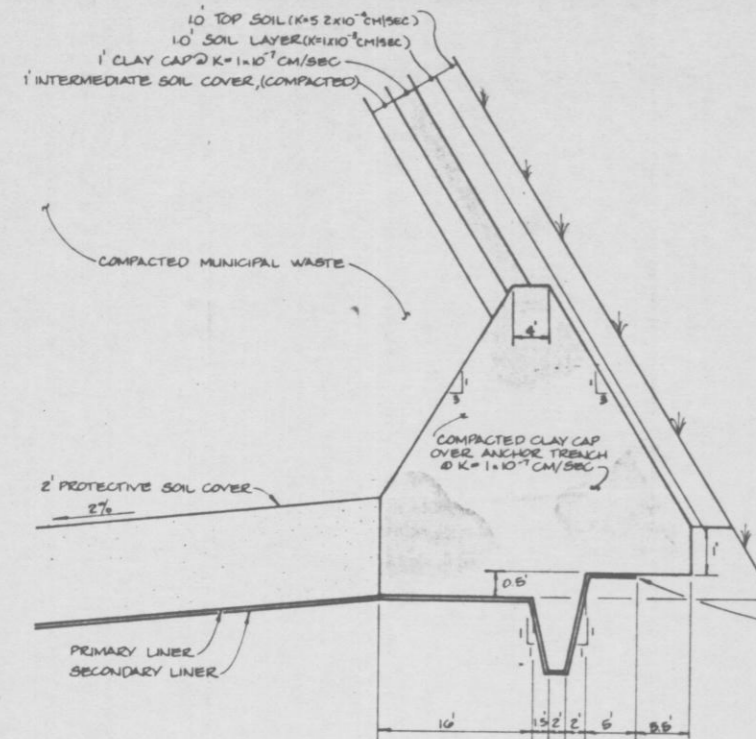
NOTE: THE GAS EXTRACTION WELLS ARE ARRANGED  
IN A HEXAGONAL CONFIGURATION WHICH WITH A 300' ZONE  
OF INFLUENCE RESULTS IN A 100% OVERLAP OF EACH WELL.

DRAWING NO. <b>14</b>	RELEASED FOR CONSTRUCTION BY		<b>England-Thims &amp; Miller, Inc.</b> Consulting & Design Engineers JACKSONVILLE, FLORIDA	GAS EXTRACTION WELL LOCATIONS		REVISIONS	
				TRAIL RIDGE LANDFILL (PLAN A)	DATE JUNE 18, 1990	DESIGNED BY CJM	DRAWN BY CJM

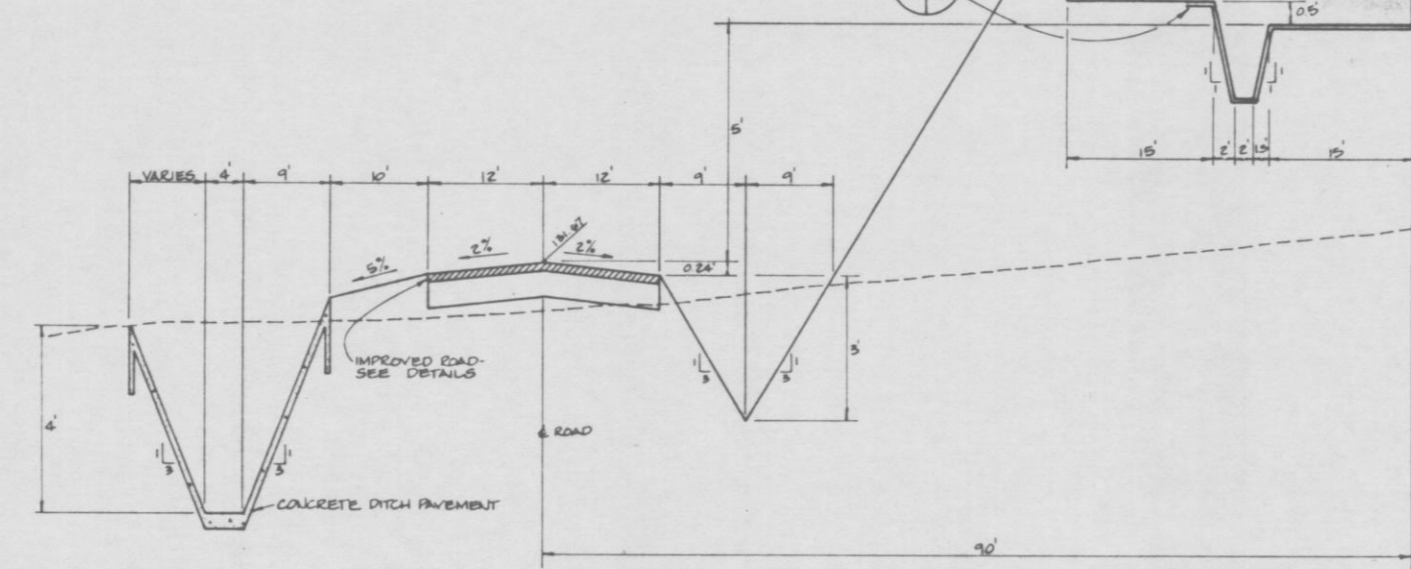
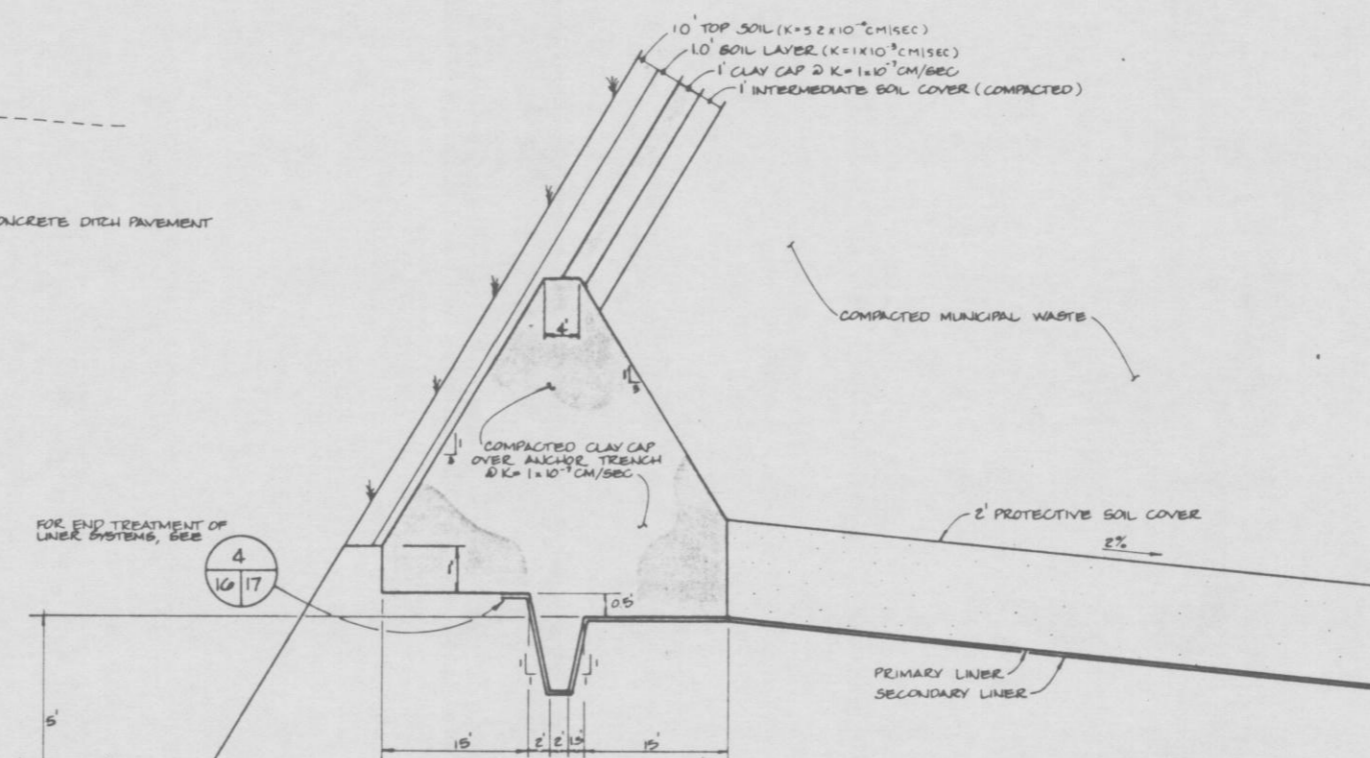








**NORTH ANCHOR TRENCH**  
 SCALE: 1" = 10' HORIZ.  
 1" = 2' VERT.



**SOUTH ANCHOR TRENCH**  
 SCALE: 1" = 10' HORIZ.  
 1" = 2' VERT.

REVISIONS  
 10-8-90 REVISED TO CORRECT  
 COMPACTING SEAL COVER

ENG PROJ NO  
 87-118-9  
 DRAWN BY  
 E.J.H.  
 CHECKED BY  
 E.S.F.  
 DATE  
 JUNE 18, 1990

**ANCHOR TRENCH (N&S) DETAILS**  
**TRAIL RIDGE LANDFILL**  
 (PLAN A)

**England-Thims & Miller, Inc.**  
 Consulting & Design Engineers  
 JACKSONVILLE, FLORIDA



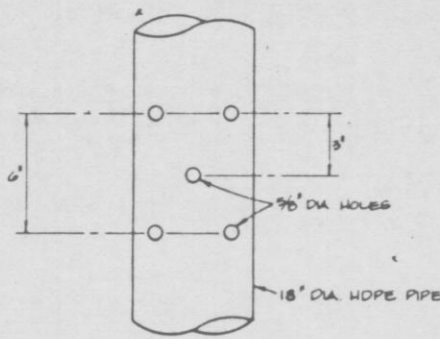
DRAWING NO  
**16**

RELEASED FOR CONSTRUCTION



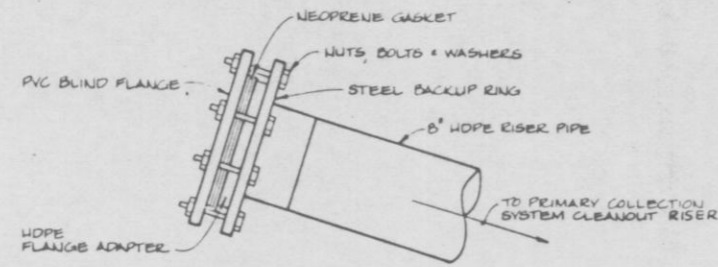
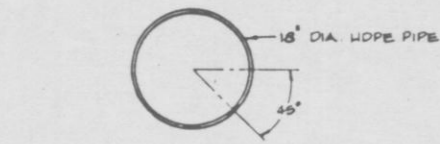






**LEACHATE COLLECTION SUMP  
PIPING PERFORATION**

N.T.S.

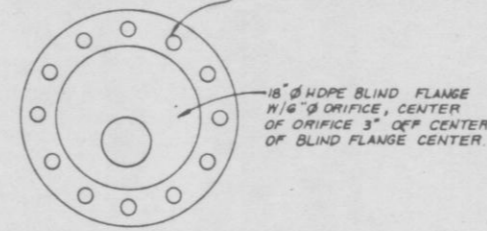


**LEACHATE CLEANOUT RISER**

N.T.S.

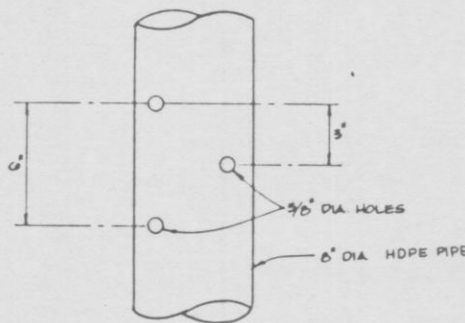
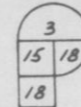


FLANGE BOLT ASSEMBLY,  
# & APPURTENANCES AS  
REQUIRED BY MANUFACTURER



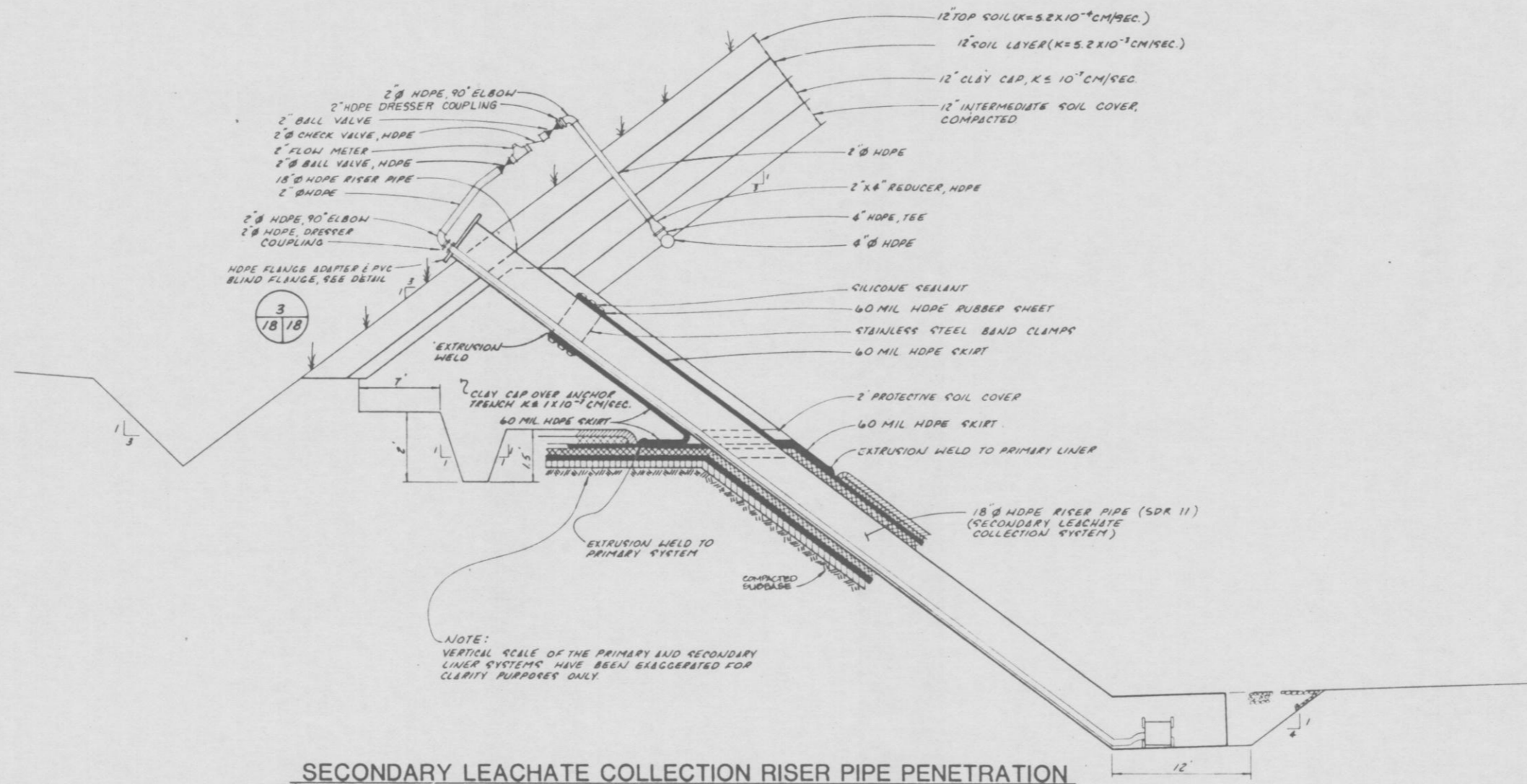
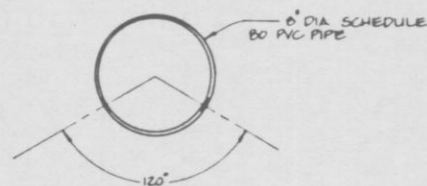
**FLANGE FOR LEACHATE COLLECTION RISER**

N.T.S.



**LEACHATE COLLECTION  
PIPING PERFORATION**

N.T.S.



**SECONDARY LEACHATE COLLECTION RISER PIPE PENETRATION**

SCALE: 1"=2' VERT.

1"=6' HORIZ.



THE DESIGNER HAS CONDUCTED A VISUAL CHECK OF THE DRAWING FOR CONFORMANCE WITH THE 1990 EDITION OF THE 1990 ASCE STANDARD FOR PRACTICE OF PROFESSIONAL ENGINEERING. THE DESIGNER HAS CONDUCTED A VISUAL CHECK OF THE DRAWING FOR CONFORMANCE WITH THE 1990 EDITION OF THE 1990 ASCE STANDARD FOR PRACTICE OF PROFESSIONAL ENGINEERING.

DATE: JUNE 18, 1990  
CHECKED BY: R.F.  
DESIGNED BY: C.D.T.  
DRAWN BY: E.B. 113.9

**LEACHATE COLLECTION DETAILS**  
**TRAIL RIDGE LANDFILL**  
(PLAN A)

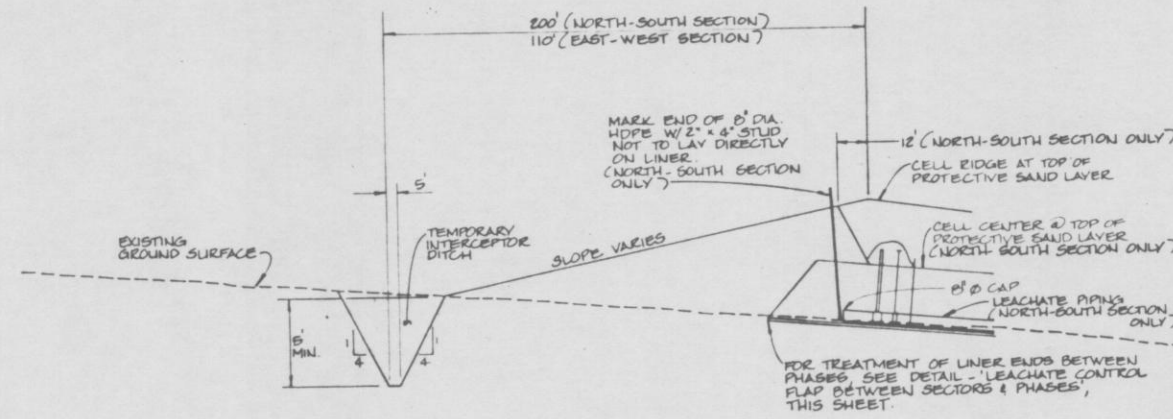
**England-Thims & Miller, Inc.**  
Consulting & Design Engineers  
JACKSONVILLE, FLORIDA





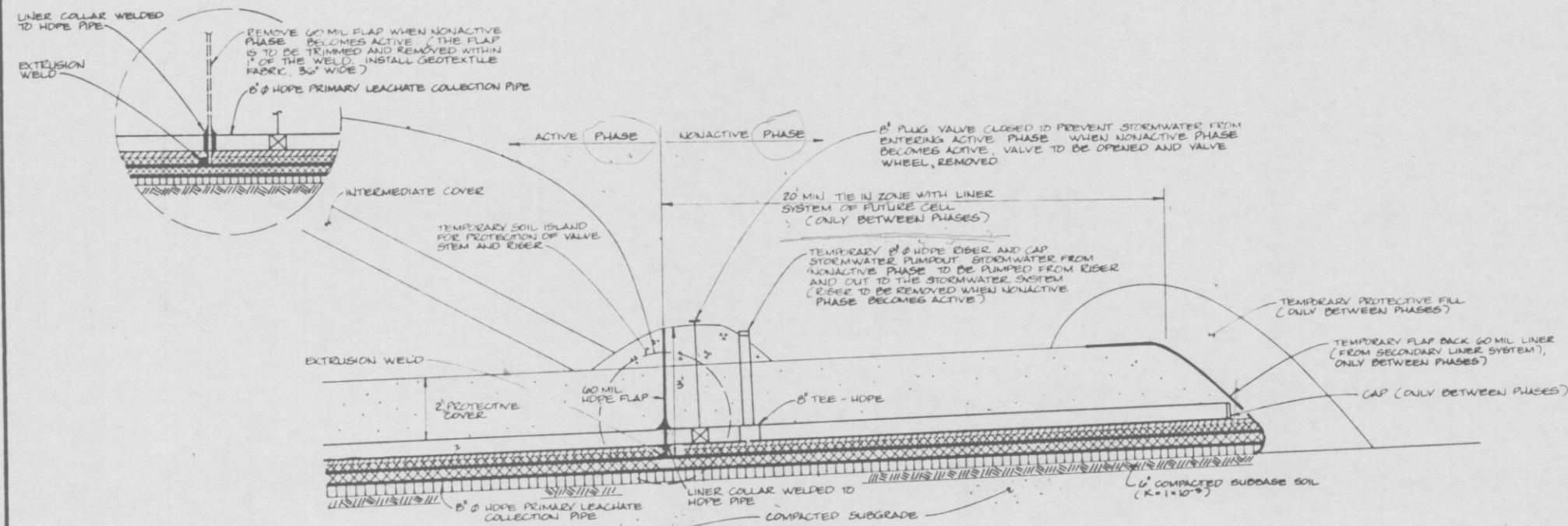






**PHASING SECTION**  
N.T.S.

2  
9/20



**LEACHATE CONTROL FLAP BETWEEN NORTH-SOUTH PHASES**

N.T.S.

1  
9/20

NOTE: EAST-WEST SECTION IDENTICAL EXCEPT DELETE LEACHATE PIPING

SEE SHEET 19-4 FOR DETAILED CONFIGURATION OF LINEAR SYSTEM

PROJECT NO. E 88-113-9  
DRAWN BY CBT  
CHECKED BY R.S.F.  
DATE JUNE 18, 1990

PHASING DETAILS

TRAIL RIDGE LANDFILL  
(PLAN A)

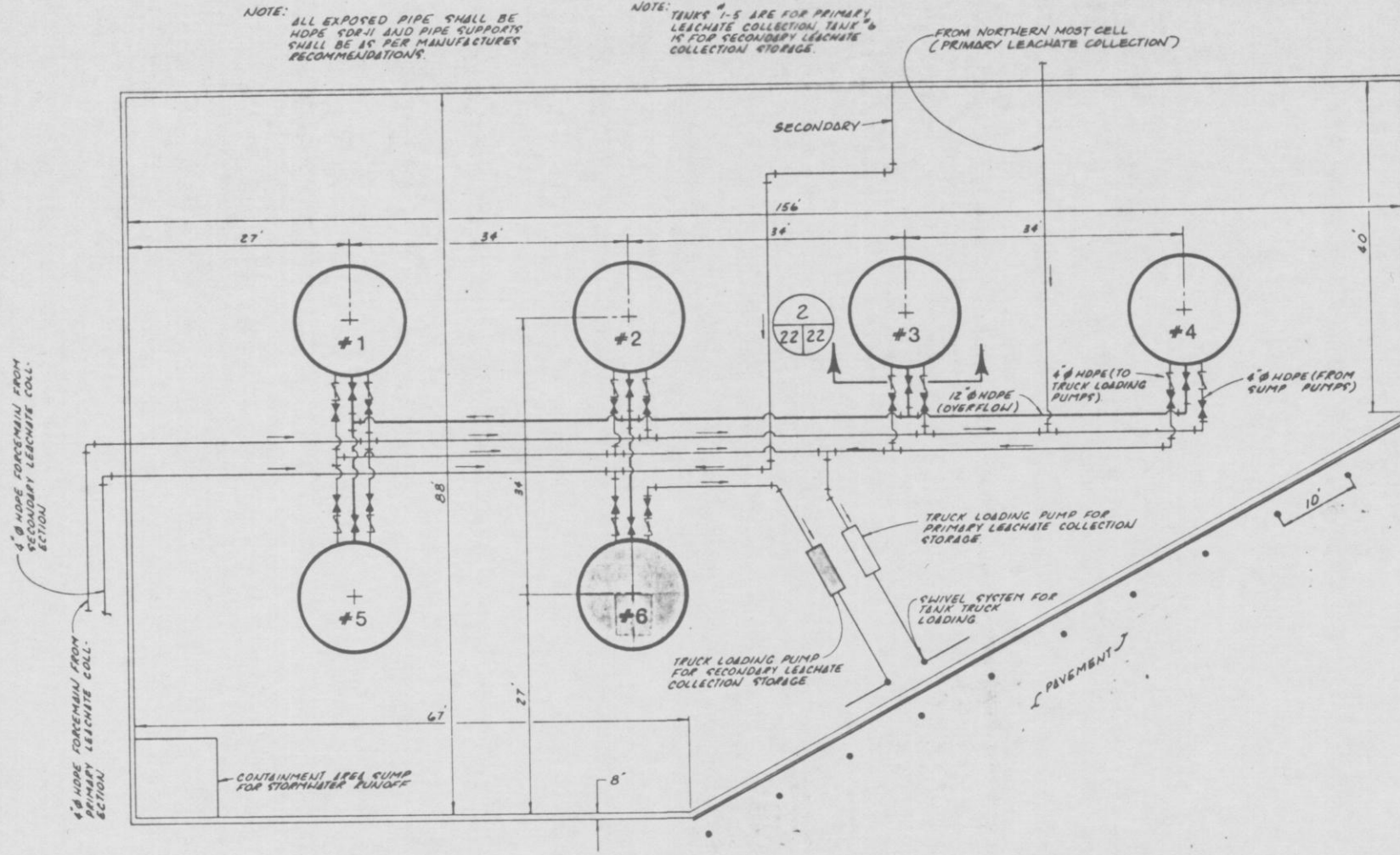
**England-Thims & Miller, Inc.**  
Consulting & Design Engineers  
JACKSONVILLE, FLORIDA





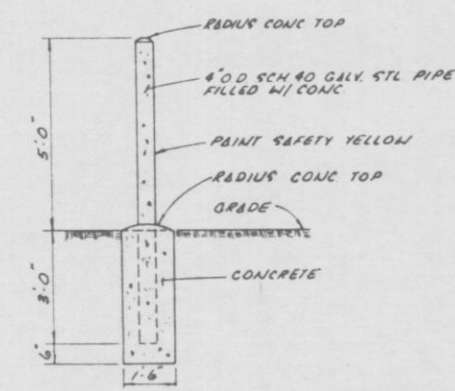






**LEACHATE STORAGE, PUMPING AND CONTAINMENT**

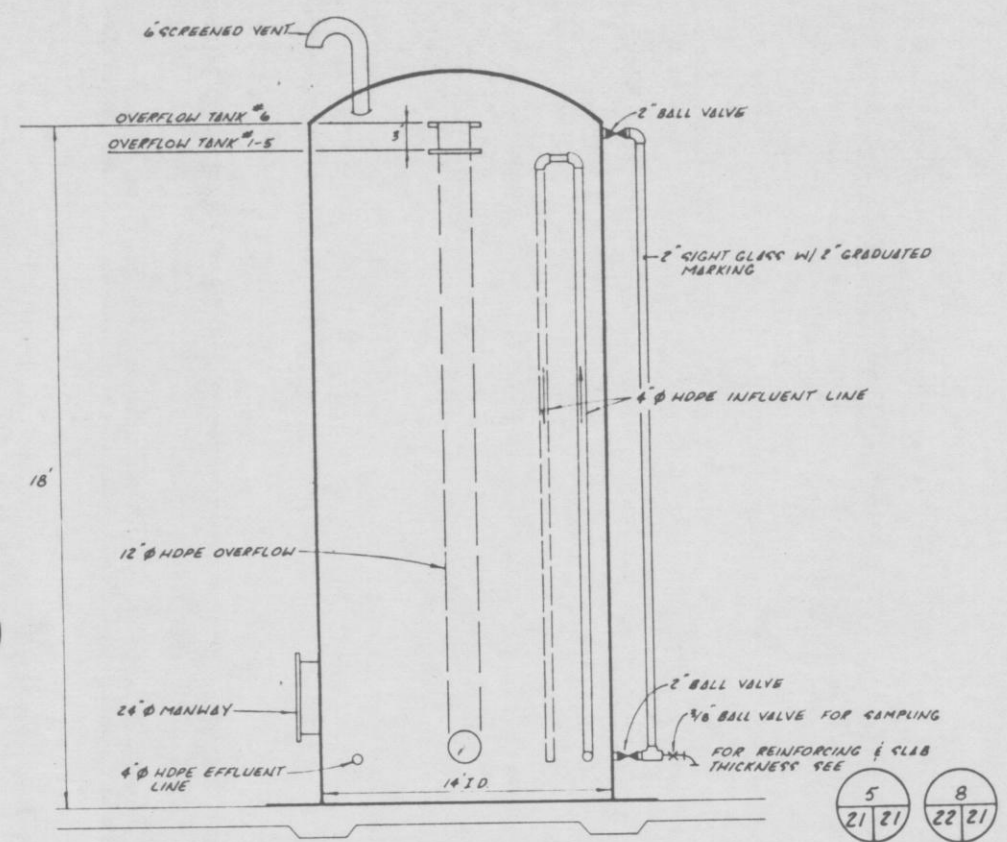
SCALE: 1" = 10'



**BOLLARD DETAIL**

N.T.S.

2  
21 22  
22



**LEACHATE STORAGE TANKS**

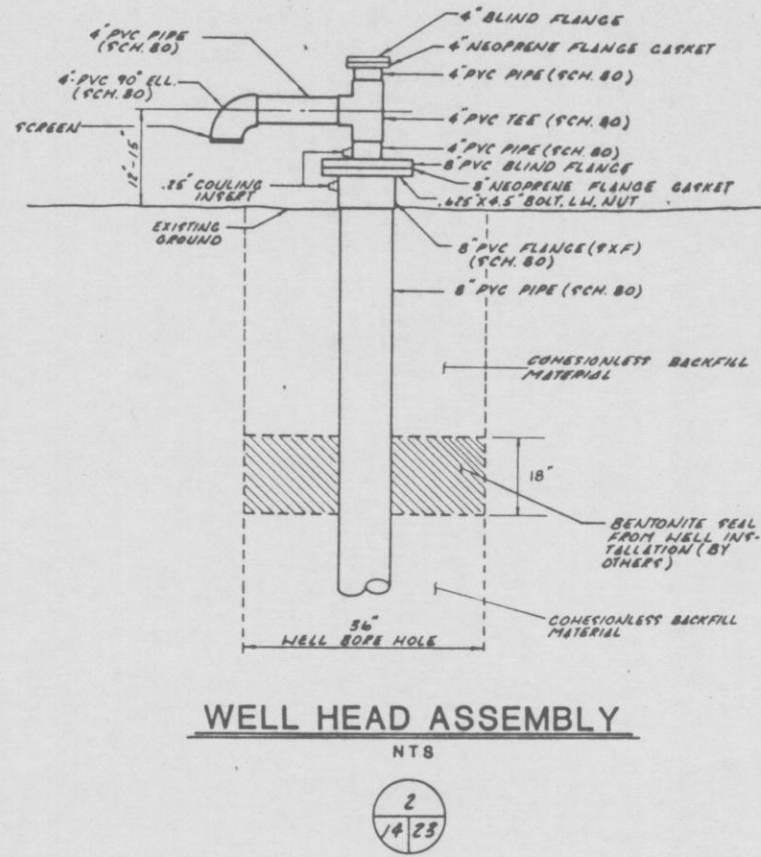
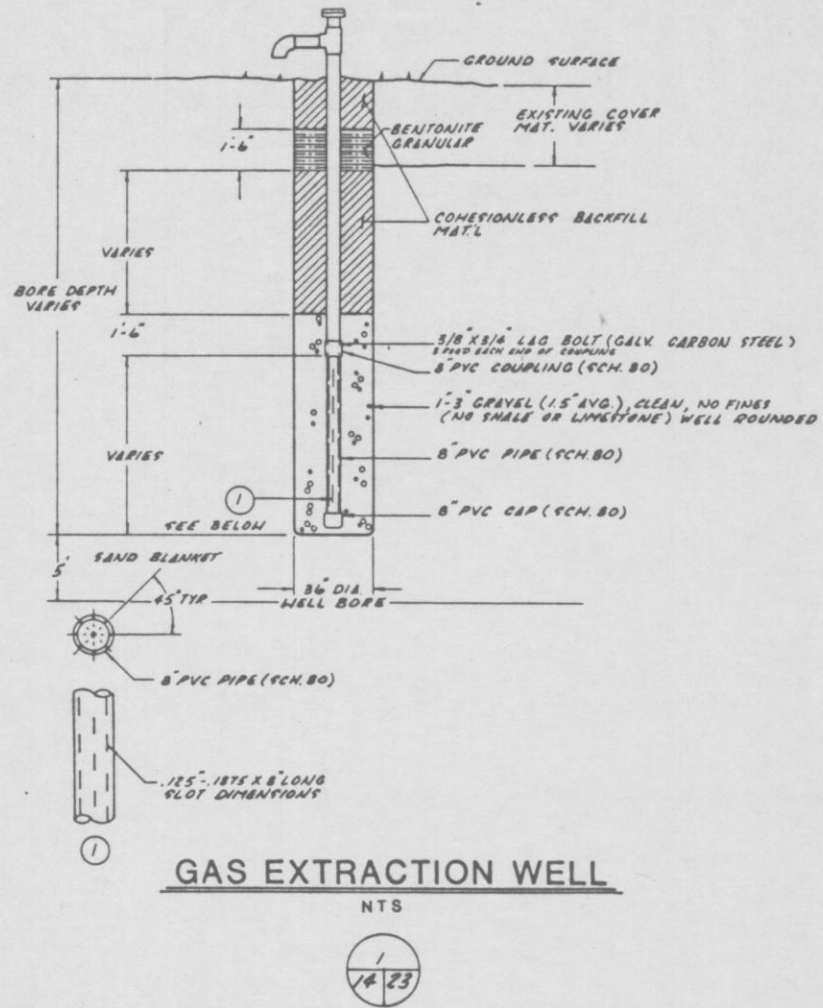
NTS

NOTE: TANKS SHALL BE MARKED WITH 12" HIGH NUMERALS AS INDICATED. TANKS SHALL BE FRIBROGLASS (INDUSTRIAL PLASTIC SYSTEMS, INC. OR EQUAL).

FIG. PROJ. NO. 89-113-9 DRAWN BY FWH CHECKED BY ATC DATE JUNE 18, 1990	
<b>LEACHATE COLLECTION AREA DETAILS</b> <b>TRAIL RIDGE LANDFILL (PLAN A)</b>	
<b>England-Thims &amp; Miller, Inc.</b> Consulting & Design Engineers JACKSONVILLE, FLORIDA	
DRAWING NO. <b>22</b>	

RELEASE FOR CONSTRUCTION





REVISED	REVISED
ENG. PROJ. NO. 89-113-9	DRAWN BY PHM
CHECKED BY B.F.F.	DATE JUNE 11, 1990

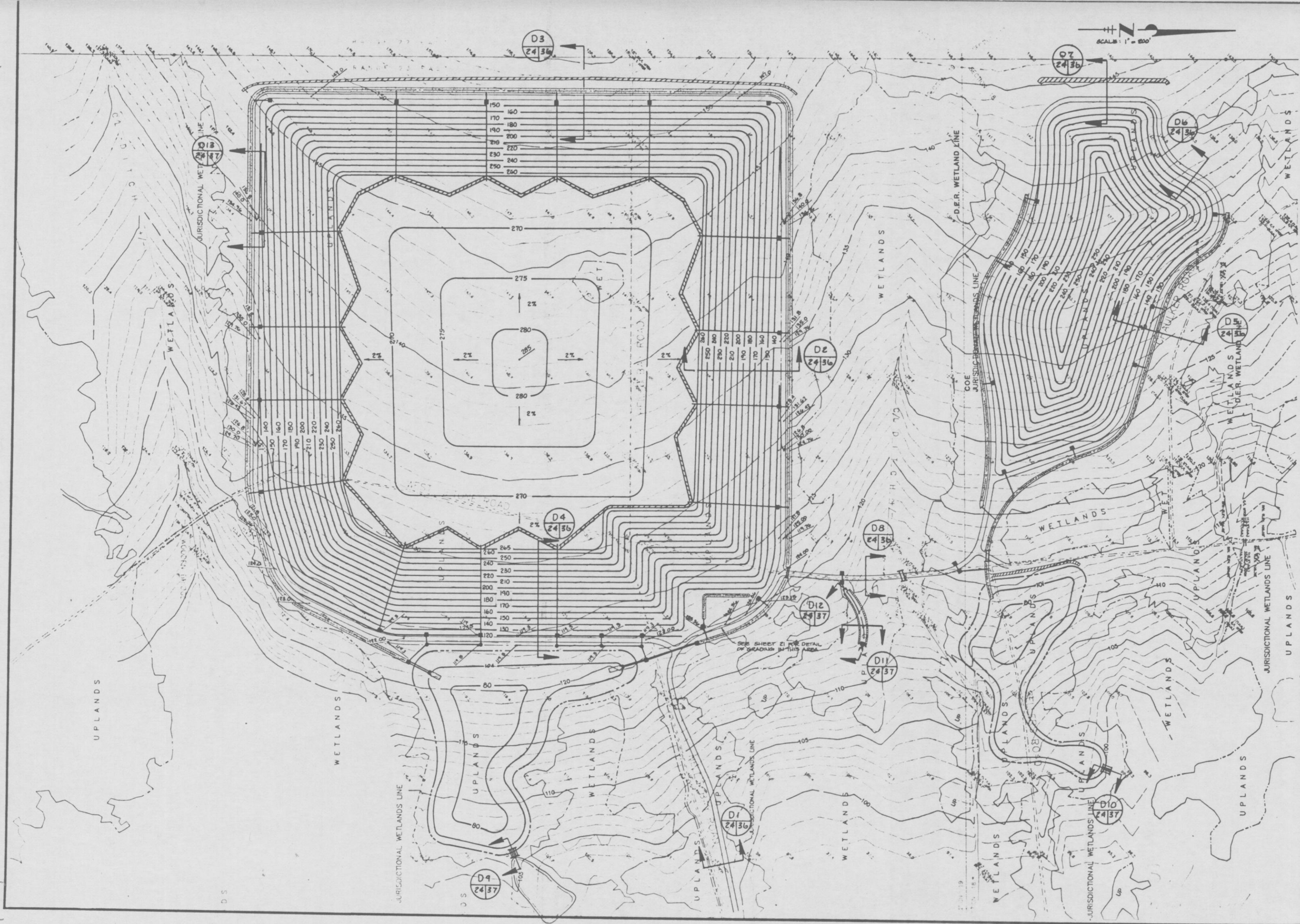
**GAS EXTRACTION WELL DETAILS**


**TRAIL RIDGE LANDFILL**  
(PLAN A)

**England-Thimby & Miller, Inc.**  
Consulting & Design Engineers  
JACKSONVILLE, FLORIDA

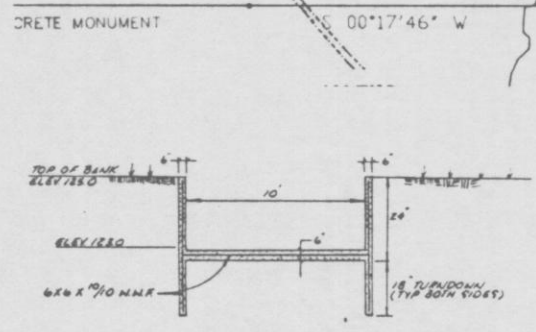
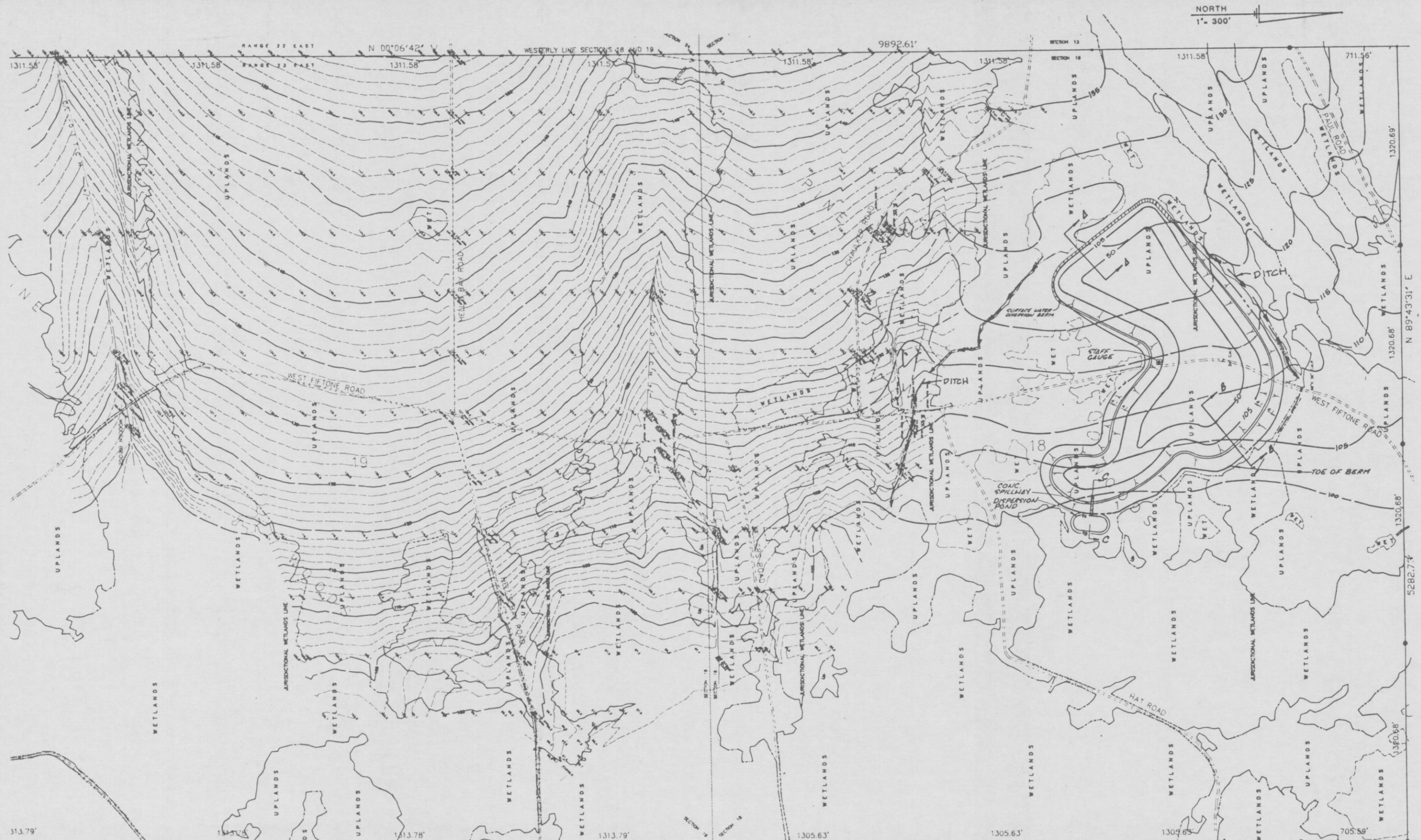




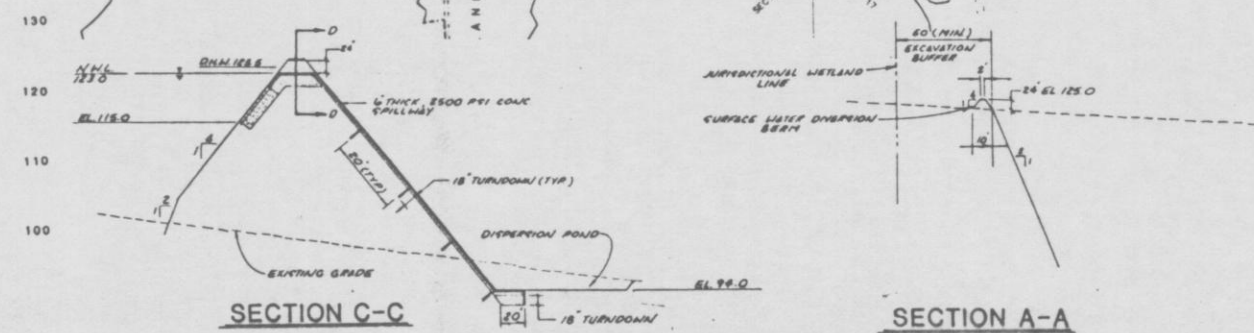


 <b>England-Thimby &amp; Miller, Inc.</b> Consulting & Design Engineers JACKSONVILLE, FLORIDA	<b>FINAL CONTOUR PLAN</b> <b>TRAIL RIDGE LANDFILL</b>	
	DRAWING NO. <b>24</b>	REVISIONS
PROJ. NO. 81-02-7 DATE 07/15/79 DRAWN BY Z.L.D. CHECKED BY G.H.H. DATE JUNE 18, 1980	REVISIONS	

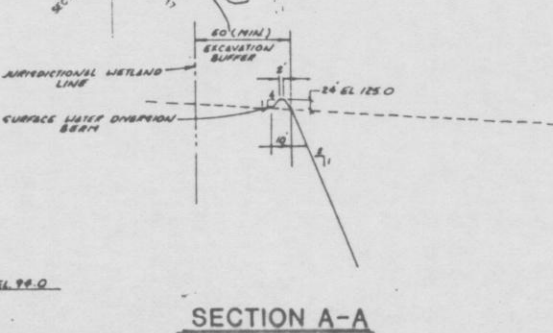




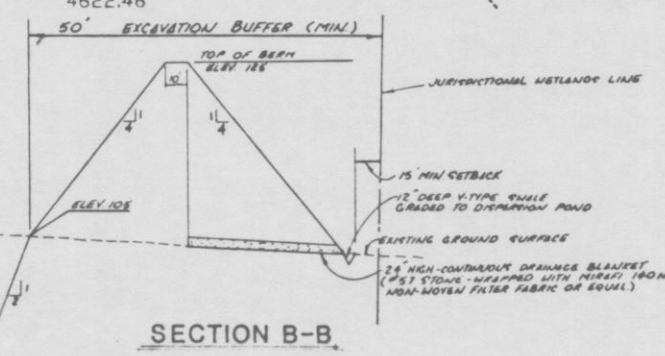
SECTION D-D



SECTION C-C



SECTION A-A



SECTION B-B

REVISIONS

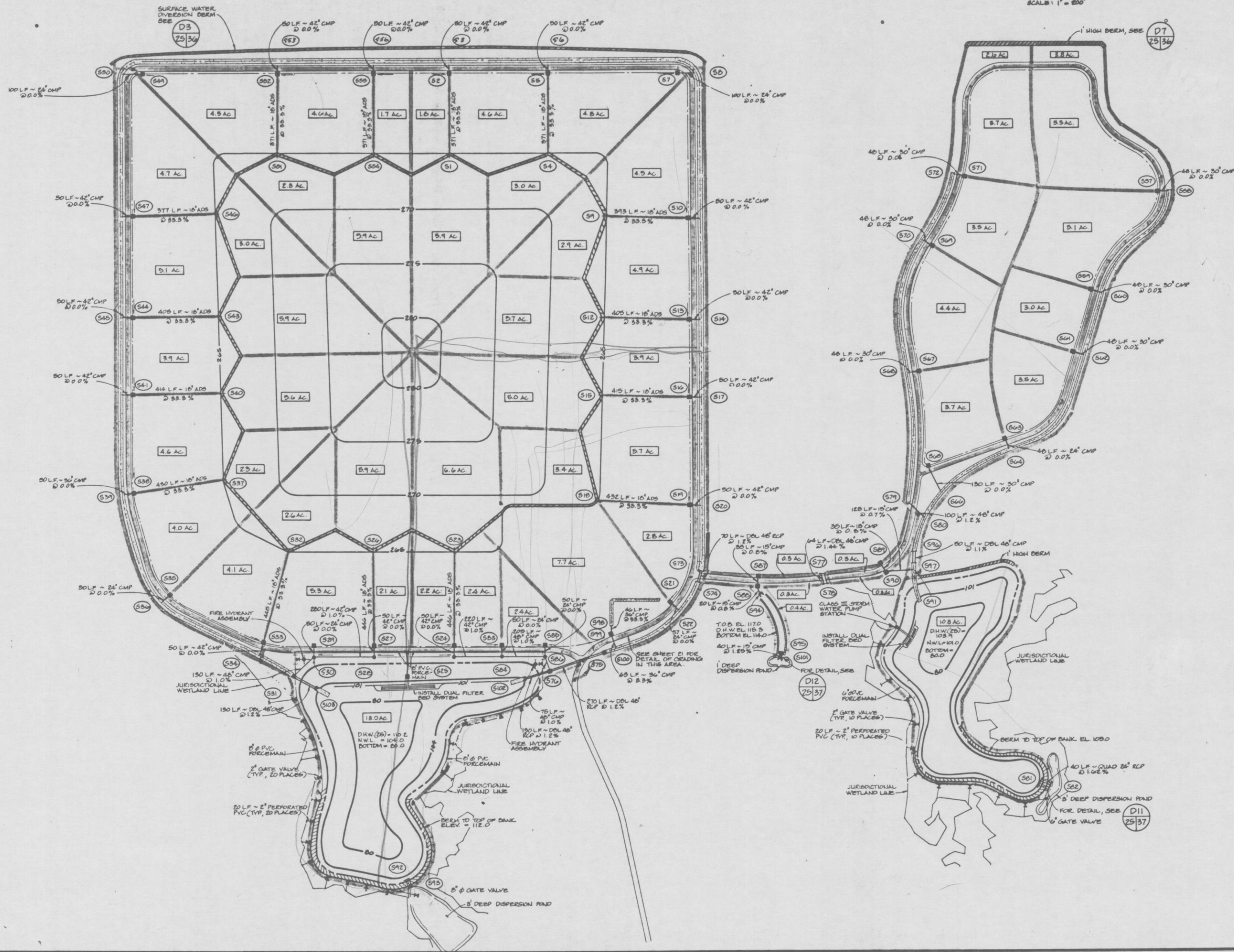
NO.	DATE	DESCRIPTION
1	9-11-90	SHOW LOCATION OF PITCHES
2	9-11-90	PROVIDE 15' MIN SETBACK FROM TOE OF BERM TO JURISDICTIONAL WETLAND LINE AND SOUTHWEST CORNER
3	10-9-90	ADD 15' MIN SETBACK FROM TOE OF BERM TO JURISDICTIONAL WETLAND LINE AND SOUTHWEST CORNER
4	10-9-90	ADD 15' MIN SETBACK FROM TOE OF BERM TO JURISDICTIONAL WETLAND LINE AND SOUTHWEST CORNER

ENG. PROJ. NO.	89-113-9
DRAWN BY	TLD
CHECKED BY	JAT
DATE	JULY 23, 1990

NORTH BORROW AREA  
TRAIL RIDGE LANDFILL

England-Thims & Miller, Inc.  
Consulting & Design Engineers  
JACKSONVILLE, FLORIDA





REVISIONS  
 1. 10-10 ADDED WETLAND LINE

DATE: JUNE 18, 1990

STORMWATER MANAGEMENT PLAN  
 TRAIL RIDGE LANDFILL  
 (PLAN A)

England-Thims & Miller, Inc.  
 Consulting & Design Engineers  
 JACKSONVILLE, FLORIDA

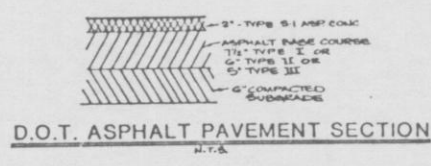
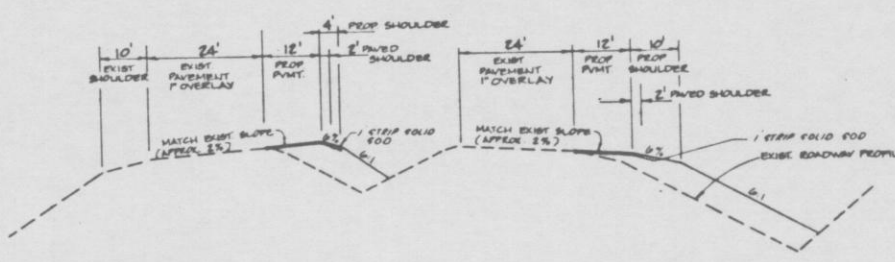
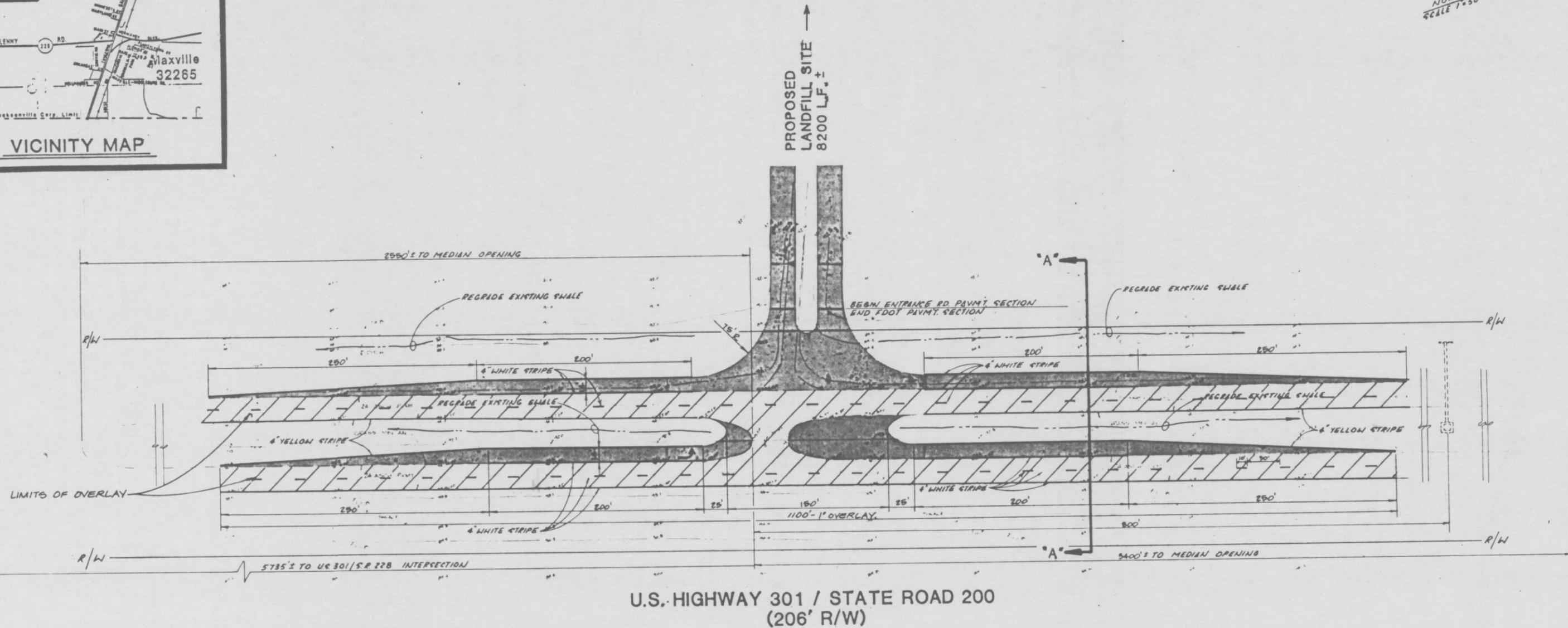
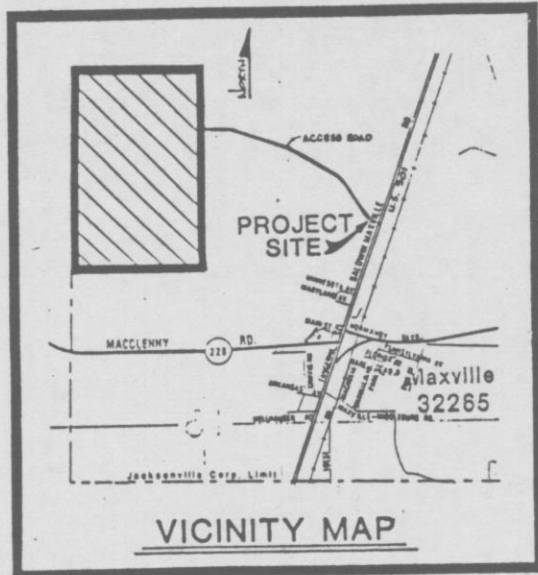


DRAWING NO.  
 25

PROJ. NO. E1011

NOT RELEASED FOR CONSTRUCTION





- NOTES:
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH D.O.T. PERMIT
  2. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED
  3. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF EXISTING UNDERGROUND UTILITIES WITHIN D.O.T. RIGHT-OF-WAY

12-14-AD APP SHEETING DETAILS  
 E87-113-1  
 TLD  
 JAT  
 JUNE 18, 1990

U.S. HIGHWAY 301 / STATE ROAD 200  
 TRAIL RIDGE LANDFILL

England-Thims & Miller, Inc.  
 Consulting & Design Engineers





DATE	
NO.	
PLAN	
NOTE BOOK	
NO.	

DATE	
NO.	
PROFILE	
NOTE BOOK	
NO.	

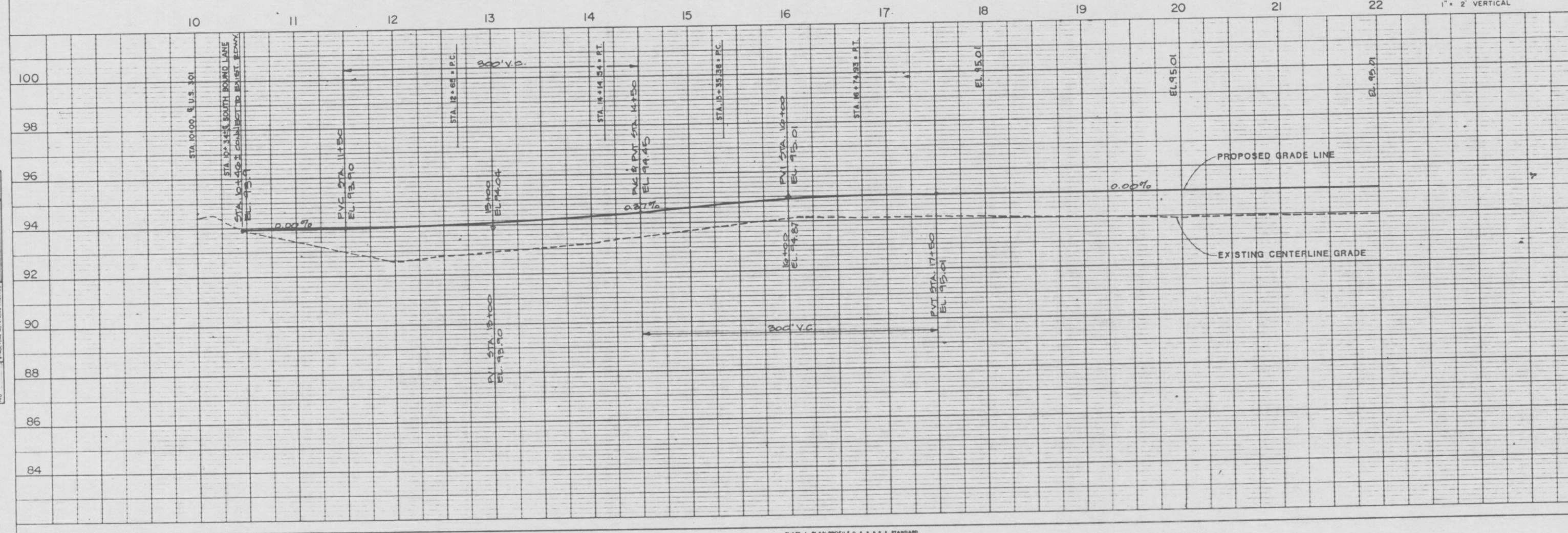
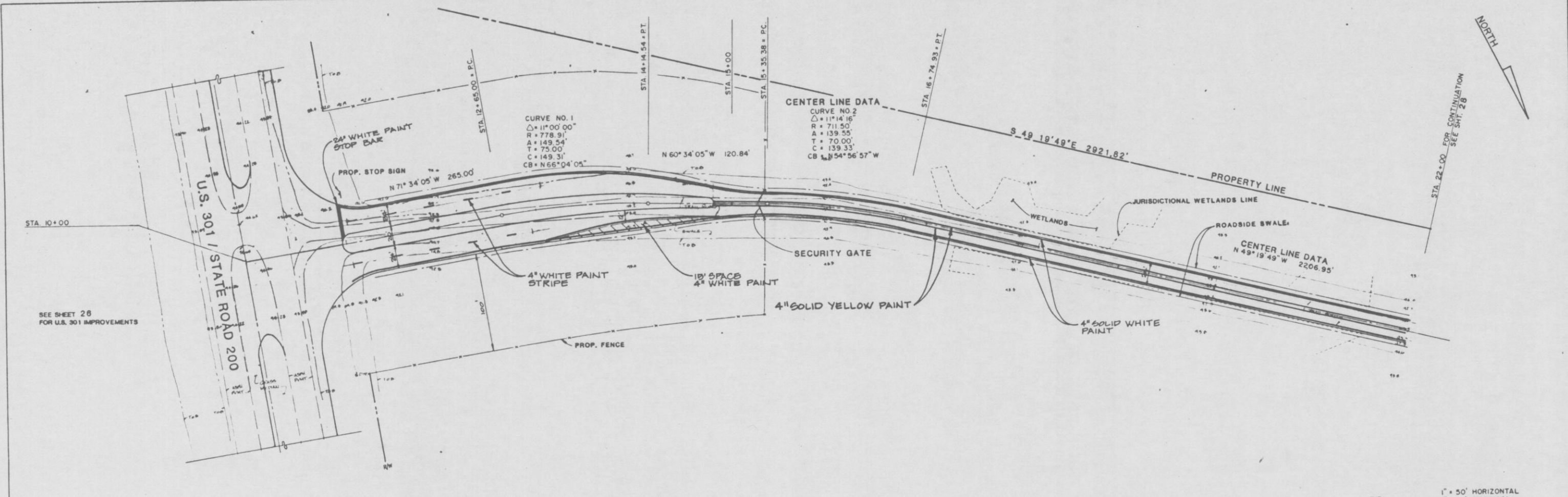


PLATE 1 PLAN PROFILE OF P. S. & S. STANDARD  
 DESIGN CORPORATION  
 PRINTED IN U.S.A.

REVISIONS	12-18-90 ADD PAINT STRIPING
ENG. PROJ. NO.	ES-1113-9
DRAWN BY	T.L.D.
CHECKED BY	J.A.T.
DATE	JUNE 18, 1990

**PLAN AND PROFILE**  
 (STA. 10+00 - STA. 22+00)

**TRAIL RIDGE LANDFILL**  
 (PLAN A)

**England-Thims & Miller, Inc.**  
 Consulting & Design Engineers  
 JACKSONVILLE, FLORIDA

DRAWING NO. **27**

PL PROJ NO 27-112-9



PLAN
DATE
BY
CHECKED BY
DATE
NO.

PROFILE
DATE
BY
CHECKED BY
DATE
NO.

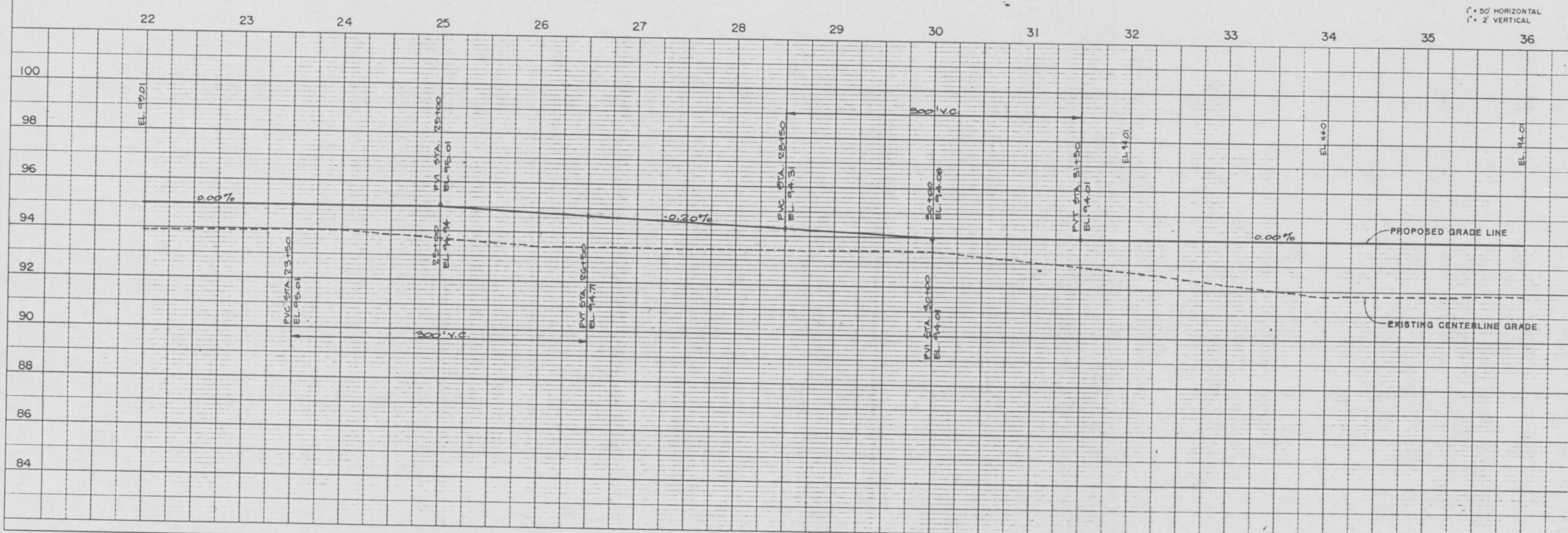
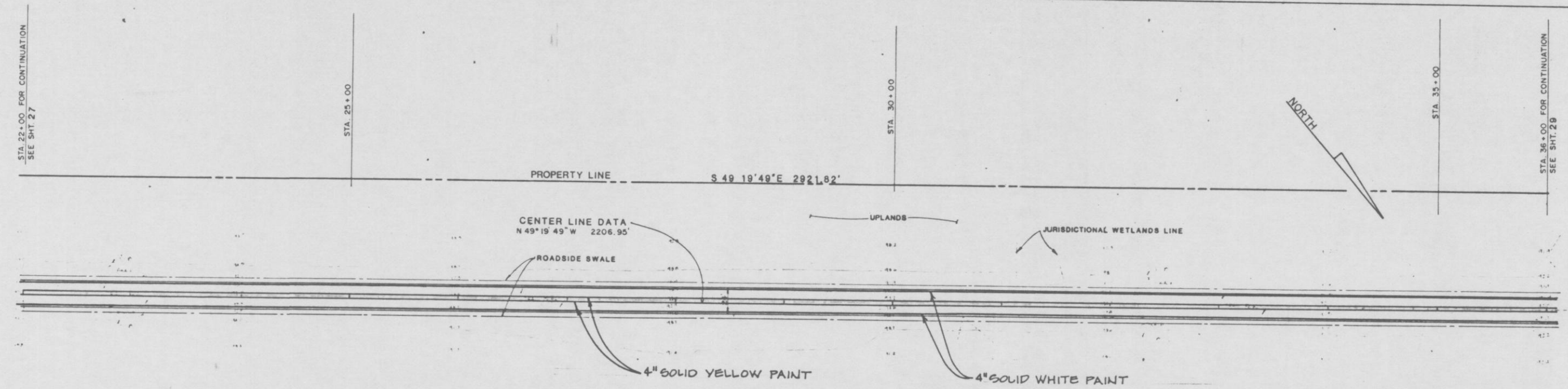


PLATE 1 PLAN PROFILE OF A & E STANDARD  
 DETZEN CORPORATION  
 PRINTER U.S.A.

REVISIONS  
 12-18-90 ADD PAINT STRIPING

ENG. PROJ. NO.  
 E5A-115-9  
 DRAWN BY  
 TLD  
 CHECKED BY  
 JAT  
 DATE

PLAN AND PROFILE  
 (STA. 22+00 - STA. 36+00)  
 TRAIL RIDGE LANDFILL

England-Thimby & Miller, Inc.  
 Consulting & Design Engineers  
 JACKSONVILLE FLORIDA

DRAWING NO.

28

JT PROJ. NO. 89-115-9







DATE	
NO.	
PLAN	
NOTE BOOK	
NO.	

DATE	
NO.	
PROFILE	
NOTE BOOK	
NO.	

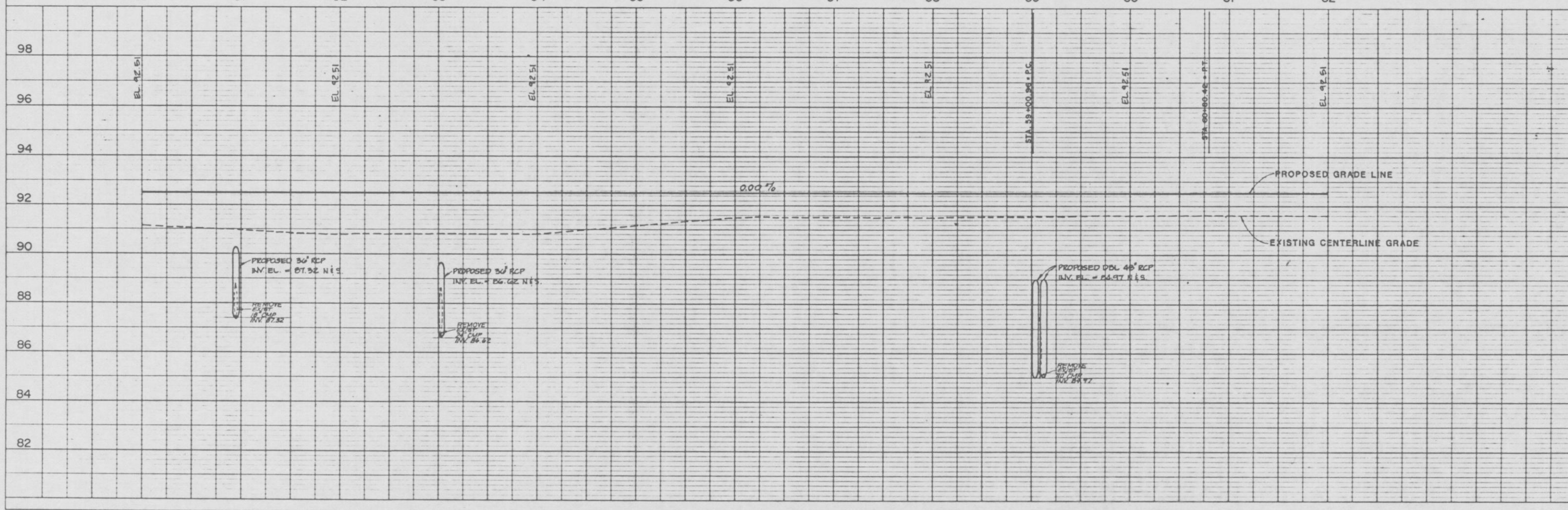
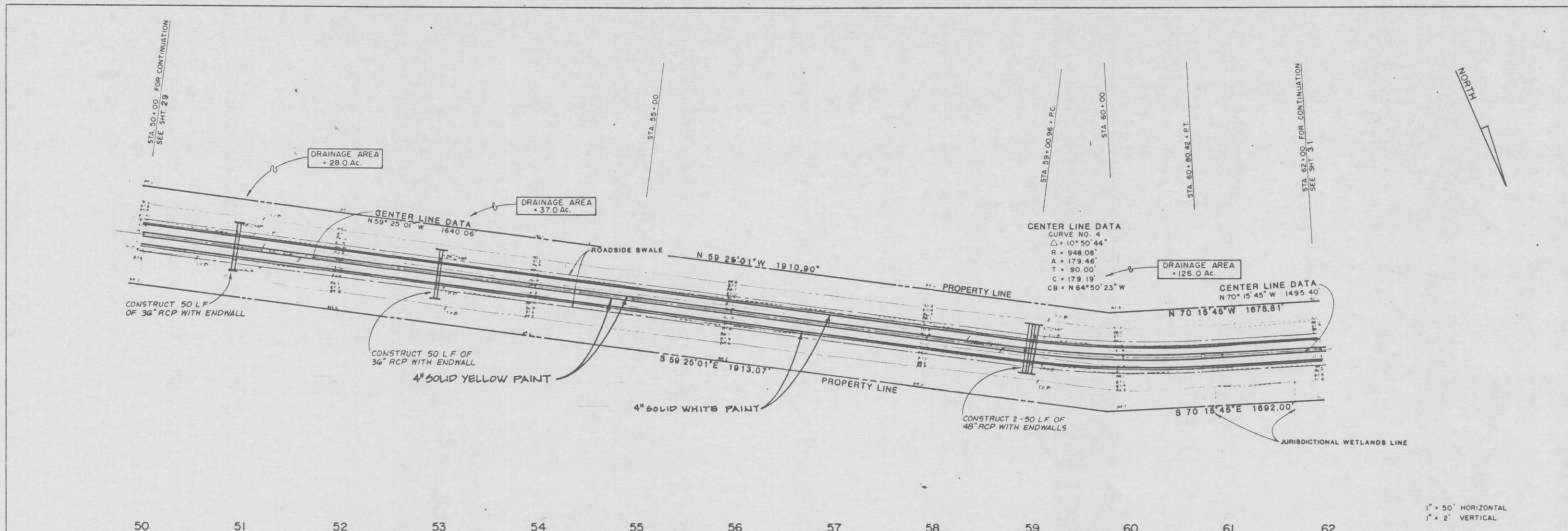


PLATE 1 PLAN PROFILE OF 2 X 2 X 1 STANDARD  
DESIGN CORPORATION  
PRINTED IN U.S.A.

PLAN AND PROFILE  
(STA. 50+00 - STA. 62+00)

TRAIL RIDGE LANDFILL

England-Thimms & Miller, Inc.  
Consulting & Design Engineers  
JACKSONVILLE, FLORIDA

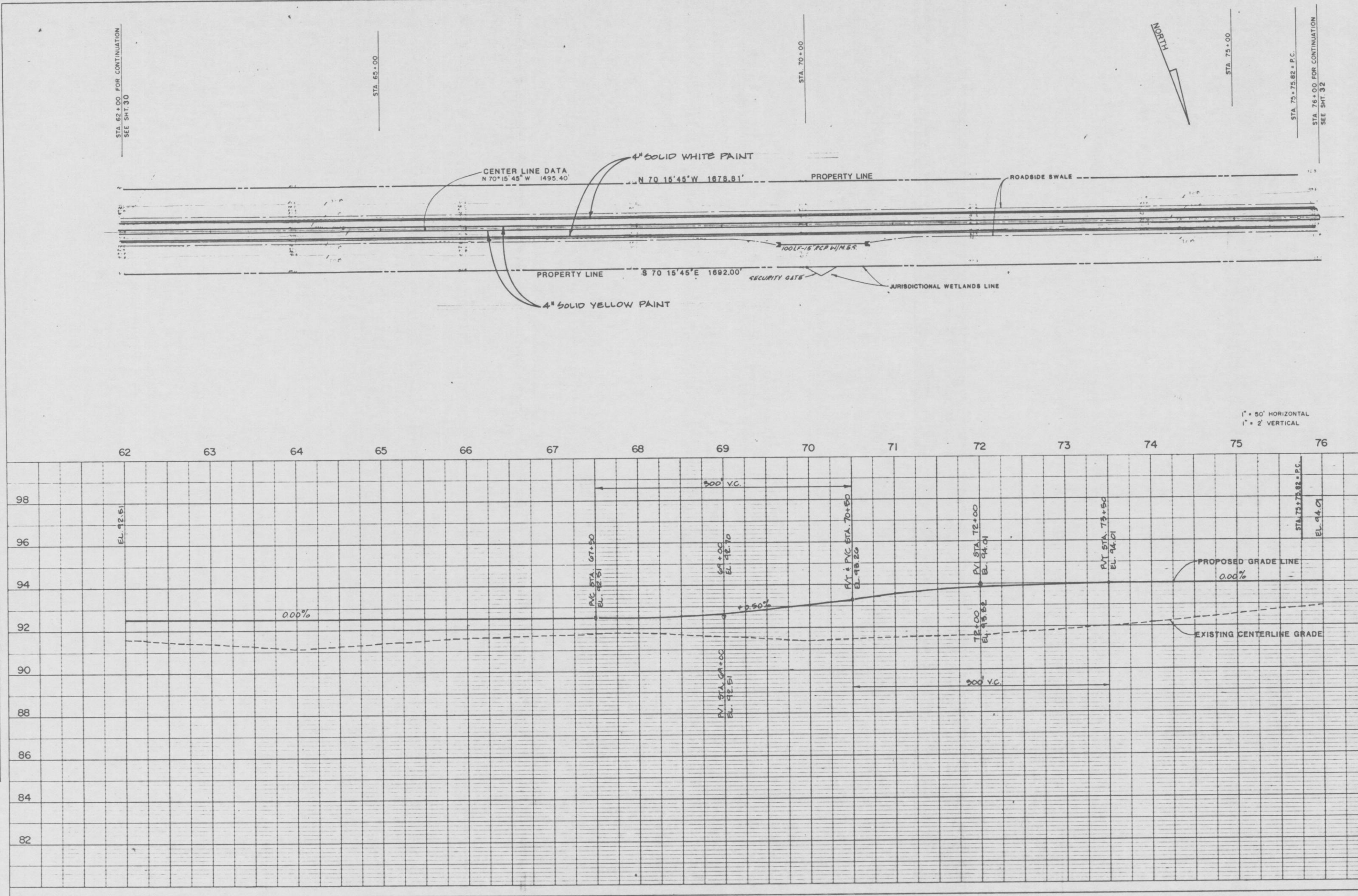
DRAWING NO.  
30

JT-1900 NO. 01-113-1



PLAN
DATE
NO.
REVISIONS
DATE
BY
DESCRIPTION
NOTE BOOK
NO.

PROFILE
DATE
NO.
REVISIONS
DATE
BY
DESCRIPTION
NOTE BOOK
NO.



REVISED
DATE
BY
DESCRIPTION
DATE
BY
DESCRIPTION
DATE
BY
DESCRIPTION

PLAN AND PROFILE  
(STA. 62+00 - STA. 76+00)

TRAIL RIDGE LANDFILL

England-Thims & Miller, Inc.  
Consulting & Design Engineers  
JACKSONVILLE, FLORIDA

DRAWING NO. 31







PLAN  
NOTE BOOK

PROFILE  
NOTE BOOK

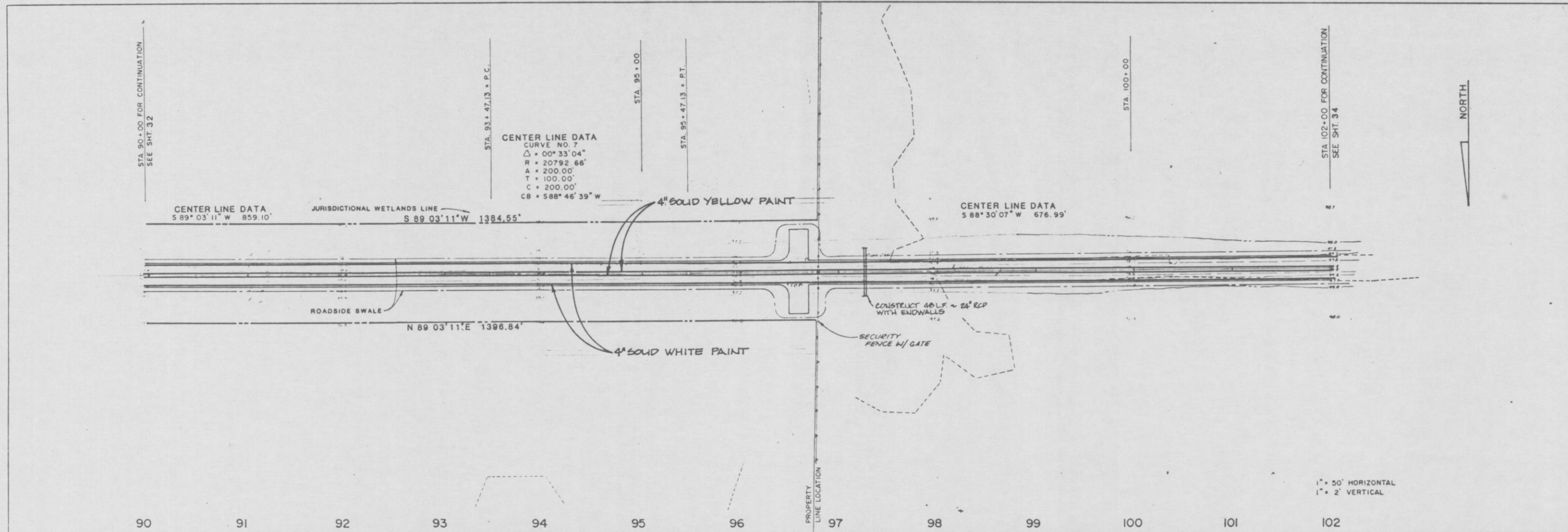


PLATE 1 PLAN PROFILE OF P.A.S.E. STANDARD  
BY THE CORPORATION  
PRINTED IN U.S.A.

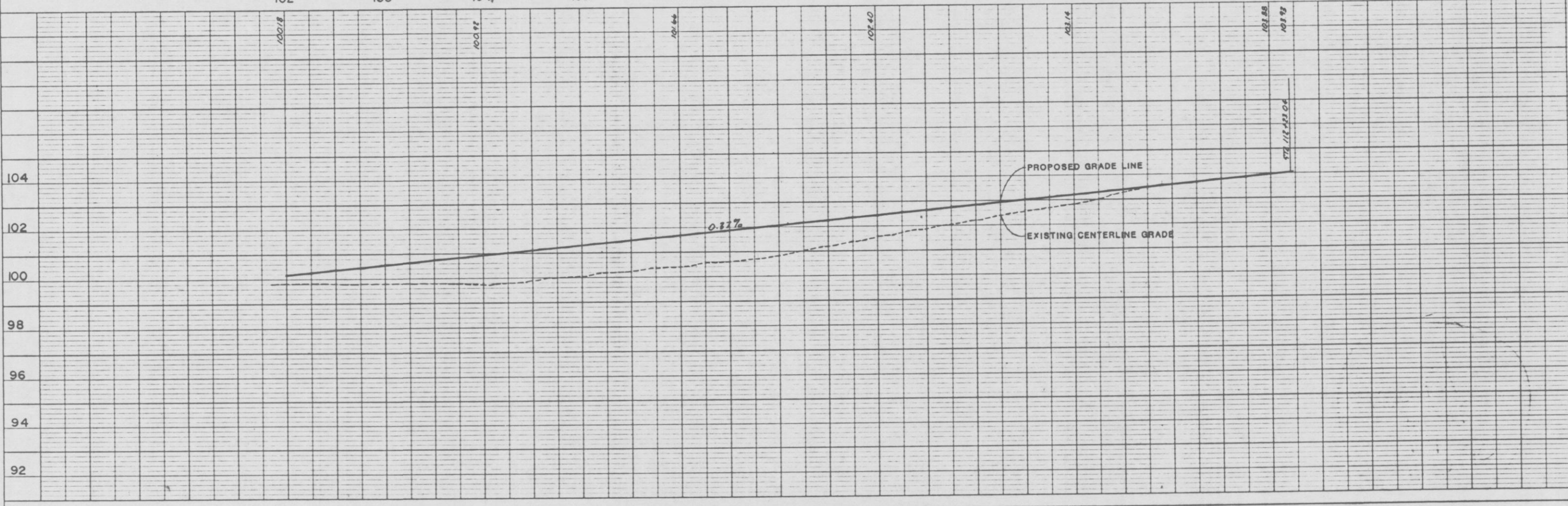
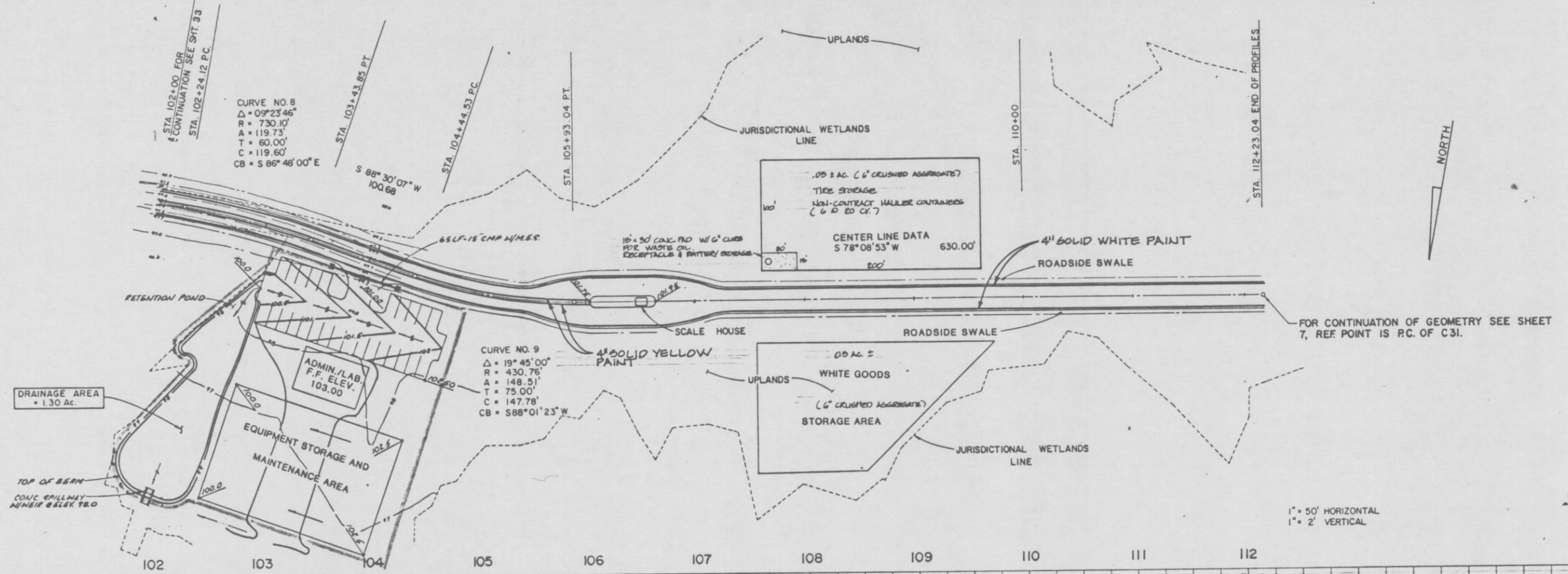
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TRAIL RIDGE LANDFILL (PLAN A)		ENG. PROJ. NO. 82-113-9
		DRAWN BY TLD
		CHECKED BY JAT
		DATE JUNE 18, 1990
<p><b>England-Thimys &amp; Miller, Inc.</b> Consulting &amp; Design Engineers JACKSONVILLE, FLORIDA</p>		
DRAWING NO.		
33		

JT PROJ NO. 82-113-9



PLAN
DATE
NO.

PROFILE
DATE
NO.



1" = 50' HORIZONTAL  
1" = 2' VERTICAL

FOR CONTINUATION OF GEOMETRY SEE SHEET 7, REF POINT IS R.C. OF C31.

PLAN AND PROFILE  
 (STA. 102+00 - 112+23.04)  
**TRAIL RIDGE LANDFILL**  
 (PLAN A)

**England-Thimms & Miller, Inc.**  
 Consulting & Design Engineers  
 JACKSONVILLE, FLORIDA

DRAWING NO. **34**  
 PROJ. NO. 87-119

ENG. PROJ. NO. 89-119-9  
 DRAWN BY: PLH  
 CHECKED BY: JAT  
 DATE: JUNE 18, 1990



STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP ELEVATION	SLOT ELEVATION	INVERT ELEVATION
S 1	EXTEND PIPE THRU BERM	---	---	265.00 (18" W)
S 2	MOD. FDOT TYPE 'E' INLET (DETAIL A)	146.50	143.76 (S)	141.76 (18" E) 141.76 (42" W)
S 3	CONST. MITERED END INTO CONC. PAVING	---	---	141.76 (42" E)
S 4	EXTEND PIPE THRU BERM	---	---	265.00 (18" W)
S 5	MOD. FDOT TYPE 'E' INLET (DETAIL A)	146.50	143.76 (S)	141.76 (18" E) 141.30 (42" W)
S 6	CONST. MITERED END INTO CONC. PAVING	---	---	141.30 (42" E)
S 7	FDOT TYPE 'E' INLET	145.09	142.35 (S)	139.85 (24" W)
S 8	CONST. MITERED END INTO CONC. PAVING	---	---	139.85 (24" S)
S 9	EXTEND PIPE THRU BERM	---	---	265.00 (18" W)
S 10	MOD. FDOT TYPE 'E' INLET (DETAIL A)	138.91	136.17 (W)	134.17 (18" S) 134.17 (42" N)
S 11	CONST. MITERED END INTO CONC. PAVING	---	---	134.17 (42" S)
S 12	EXTEND PIPE THRU BERM	---	---	265.00 (18" W)
S 13	MOD. FDOT TYPE 'E' INLET (DETAIL A)	134.91	132.17 (W)	130.17 (18" S) 130.17 (42" N)
S 14	CONST. MITERED END INTO CONC. PAVING	---	---	130.17 (42" S)
S 15	EXTEND PIPE THRU BERM	---	---	265.00 (18" W)
S 16	MOD. FDOT TYPE 'E' INLET (DETAIL A)	131.81	129.07 (W)	127.07 (18" S) 127.07 (42" N)
S 17	CONST. MITERED END INTO CONC. PAVING	---	---	127.07 (42" S)

STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP ELEVATION	SLOT ELEVATION	INVERT ELEVATION
S 18	EXTEND PIPE THRU BERM	---	---	265.00 (18" W)
S 19	MOD. FDOT TYPE 'E' INLET (DETAIL A)	126.23	123.49 (W)	121.49 (18" S) 121.49 (42" N)
S 20	CONST. MITERED END INTO CONC. PAVING	---	---	121.49 (42" S)
S 21	FDOT TYPE 'E' INLET	122.65	119.91 (NW)	115.45 (24" NE)
S 22	CONST. MITERED END INTO CONC. PAVING	---	---	115.45 (24" SW)
S 23	EXTEND PIPE THRU BERM	---	---	265.00 (18" E)
S 24	MOD. FDOT TYPE 'E' INLET (DETAIL B)	121.50	118.76 (S)	116.76 (18" W) 116.76 (42" E)
S 25	FDOT TYPE 'E' INLET W/ 7' TYPE J BOTTOM (ALTERNATE A)	121.50	118.76 (S)	116.76 (42" W) 113.76 (42" N)
S 26	EXTEND PIPE THRU BERM	---	---	265.00 (18" E)
S 27	MOD. FDOT TYPE 'E' INLET (DETAIL A)	121.50	118.76 (W)	116.76 (18" W) 116.76 (42" E)
S 28	FDOT TYPE 'E' INLET W/ 7' TYPE J BOTTOM (ALTERNATE A)	121.50	118.76 (W)	116.76 (42" W) 113.76 (42" S)
S 29	FDOT TYPE 'E' INLET	121.50	118.76 (N)	116.76 (24" E) 118.76 (S)
S 30	FDOT TYPE 'E' INLET W/ 7' TYPE J BOTTOM (ALTERNATE A)	121.50	118.76 (N)	116.76 (24" W) 110.96 (42" N) 110.46 (48" SE)
S 31	INLET STRUCTURE	115.00	107.80 (SW)	109.16 (48" NW) 102.89 (DBL. 48" SE)
S 32	EXTEND PIPE THRU BERM	---	---	265.00 (18" SE)
S 33	MOD. FDOT TYPE 'E' INLET (DETAIL B)	121.77	119.03 (SW)	117.03 (18" NW) 109.85 (42" SE)

STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP ELEVATION	SLOT ELEVATION	INVERT ELEVATION
S 34	CONST. MITERED END INTO CONC. PAVING	---	---	109.85 (42" NW)
S 35	FDOT TYPE 'E' INLET	123.02	120.28 (SW)	115.85 (24" SE)
S 36	CONST. MITERED END INTO CONC. PAVING	---	---	115.85 (24" NW)
S 37	EXTEND PIPE THRU BERM	---	---	265.00 (18" S)
S 38	MOD. FDOT TYPE 'E' INLET (DETAIL B)	126.80	124.06 (W)	122.06 (18" N) 122.06 (42" S)
S 39	CONST. MITERED END INTO CONC. PAVING	---	---	122.06 (42" N)
S 40	EXTEND PIPE THRU BERM	---	---	265.00 (18" S)
S 41	MOD. FDOT TYPE 'E' INLET (DETAIL B)	131.94	129.20 (W)	127.20 (18" N) 127.20 (42" S)
S 42	CONST. MITERED END INTO CONC. PAVING	---	---	127.20 (42" N)
S 43	EXTEND PIPE THRU BERM	---	---	265.00 (18" S)
S 44	MOD. FDOT TYPE 'E' INLET (DETAIL B)	135.04	132.30 (W)	130.30 (18" N) 130.30 (42" S)
S 45	CONST. MITERED END INTO CONC. PAVING	---	---	130.30 (42" N)
S 46	EXTEND PIPE THRU BERM	---	---	265.00 (18" S)
S 47	MOD. FDOT TYPE 'E' INLET (DETAIL B)	139.03	136.29 (W)	134.29 (18" N) 134.29 (42" S)
S 48	CONST. MITERED END INTO CONC. PAVING	---	---	134.29 (42" N)
S 49	FDOT TYPE 'E' INLET	144.76	142.02 (N)	139.85 (24" S)
S 50	CONST. MITERED END INTO CONC. PAVING	---	---	139.85 (24" N)

STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP ELEVATION	SLOT ELEVATION	INVERT ELEVATION
S 51	EXTEND PIPE THRU BERM	---	---	265.00 (18" W)
S 52	MOD. FDOT TYPE 'E' INLET (DETAIL B)	146.50	143.76 (N)	141.76 (18" E) 141.30 (42" W)
S 53	CONST. MITERED END INTO CONC. PAVING	---	---	141.30 (42" E)
S 54	EXTEND PIPE THRU BERM	---	---	265.00 (18" W)
S 55	MOD. FDOT TYPE 'E' INLET (DETAIL B)	146.50	143.76 (N)	141.76 (18" E) 141.76 (42" W)
S 56	CONST. MITERED END INTO CONC. PAVING	---	---	141.76 (42" E)
S 57	FDOT TYPE 'E' INLET	134.50	131.76 (W)	130.76 (30" N)
S 58	CONST. MITERED END INTO CONC. PAVING	---	---	130.76 (30" S)
S 59	FDOT TYPE 'E' INLET	130.27	127.53 (NW)	126.53 (30" NE)
S 60	CONST. MITERED END INTO CONC. PAVING	---	---	126.53 (30" SW)
S 61	FDOT TYPE 'E' INLET	128.15	125.41 (NW)	124.41 (30" NE)
S 62	CONST. MITERED END INTO CONC. PAVING	---	---	124.41 (30" SW)
S 63	FDOT TYPE 'E' INLET	124.50	121.76 (NW)	120.00 (24" NE)
S 64	CONST. MITERED END INTO CONC. PAVING	---	---	120.00 (24" SW)
S 65	FDOT TYPE 'E' INLET	123.50	120.76 (NW)	117.41 (30" NE) 120.76 (SE)
S 66	CONST. MITERED END INTO CONC. PAVING	---	---	117.41 (30" SW)
S 67	FDOT TYPE 'E' INLET	ERR	ERR (SW)	ERR (30" NW)

STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP ELEVATION	SLOT ELEVATION	INVERT ELEVATION
S 68	CONST. MITERED END INTO CONC. PAVING	---	---	125.35 (30" NW)
S 69	FDOT TYPE 'E' INLET	135.72	132.98 (NW)	131.98 (30" SW)
S 70	CONST. MITERED END INTO CONC. PAVING	---	---	131.98 (30" NE)
S 71	FDOT TYPE 'E' INLET	139.91	137.17 (NW)	136.17 (30" SW)
S 72	CONST. MITERED END INTO CONC. PAVING	---	---	136.17 (30" NE)
S 73	CONCRETE ENDWALL DOUBLE 48" RCP	---	---	118.00 (DBL. 48" E)
S 74	CONCRETE ENDWALL DOUBLE 48" RCP	---	---	117.16 (DBL. 48" W)
S 75	INLET STRUCTURE	115.70	110.70 (NW)	106.13 (DBL. 48" S) 108.26 (48" SW)
S 76	JUNCTION BOX	120.00	---	102.89 (DBL. 48" N & S) 108.26 (48" SW)
S 77	CONCRETE ENDWALL DOUBLE 48" CHP	---	---	106.40 (DBL. 48" E)
S 78	CONCRETE ENDWALL DOUBLE 48" CHP	---	---	105.48 (DBL. 48" W)
S 79	CONCRETE ENDWALL 48" CHP	---	---	115.80 (48" NE)
S 80	CONST. MITERED END INTO CONC. PAVING	---	---	114.60 (48" SW)
S 81	4:1 MITERED END SECTION	---	---	101.65 (QUAD 24" NE)
S 82	4:1 MITERED END SECTION	---	---	101.00 (QUAD 24" SW)
S 83	FDOT TYPE 'E' INLET	121.50	118.76 (S)	116.76 (24" E)
S 84	FDOT TYPE 'E' INLET W/ 7' TYPE J BOTTOM (ALTERNATE A)	121.50	118.76 (S)	116.76 (24" W) 111.56 (42" S) 111.06 (48" N)

STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP ELEVATION	SLOT ELEVATION	INVERT ELEVATION
S 85	FDOT TYPE 'E' INLET	121.50	118.76 (N)	116.76 (24" E) 118.76 (S)
S 86	FDOT TYPE 'E' INLET W/ 7' TYPE J BOTTOM (ALTERNATE A)	121.50	118.76 (S)	116.76 (24" W) 109.01 (42" S) 109.05 (48" NE)
S 87	FDOT TYPE 'E' INLET	116.65	115.90 (N)	114.44 (15" E) 115.90 (S)
S 88	FDOT TYPE 'E' INLET	116.65	115.90 (N)	114.16 (15" W) 115.90 (S)
S 89	FDOT TYPE 'E' INLET	114.65	113.90 (N)	112.96 (15" NE) 113.90 (S)
S 90	FDOT TYPE 'E' INLET	114.65	113.90 (N)	112.68 (15" SW) 113.90 (S)
S 91	CONST. MITERED END INTO CONC. PAVING	---	---	111.77 (15" S)
S 92	4:1 MITERED END SECTION	---	---	105.49 (TRIP. 34" NE)
S 93	4:1 MITERED END SECTION	---	---	105.49 (TRIP. 34" SW)
S 94	4:1 MITERED END SECTION	---	---	114.00 (15" SW)
S 95	FDOT TYPE 'E' INLET	116.00	114.70 (W)	111.50 (15" E)
S 96	CONCRETE ENDWALL DOUBLE 48" CHP	---	---	112.80 (DBL. 48" E)
S 97	CONCRETE ENDWALL DOUBLE 48" CHP	---	---	112.25 (DBL. 48" W)
S 98	CONST. MITERED END INTO CONC. PAVING	---	---	129.00 (36" NE)
S 99	FDOT TYPE 'E' INLET	120.00	---	113.67 (36" NW) 113.67 (36" NE)
S 100	CONST. MITERED END INTO CONC. PAVING	---	---	111.50 (36" SW)
S 101	4:1 MITERED END SECTION	---	---	111.00 (15" W)
S 102	4:1 MITERED END SECTION	---	---	101.33 (DBL. 48" SW)
S 103	4:1 MITERED END SECTION	---	---	101.33 (DBL. 48" NW)

REVISIONS

ENG. PROJ. NO.	ERR-11-7
DRAWN BY:	F.A.N.
CHECKED BY:	C.J.M.
DATE	JUNE 18, 1970

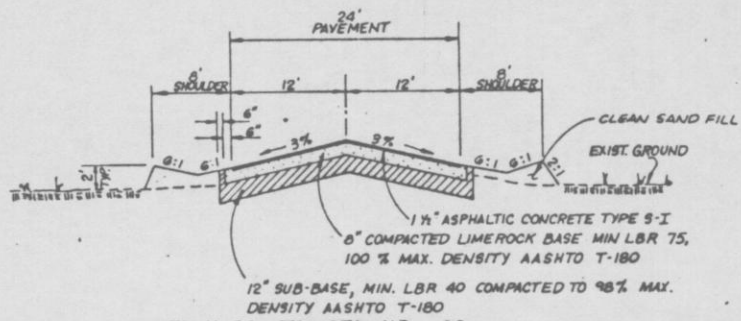
SCHEDULE OF DRAINAGE STRUCTURES  
TRAIL RIDGE LANDFILL (PLAN A)

England-Thims & Miller, Inc.  
Consulting & Design Engineers  
JACKSONVILLE, FLORIDA



DRAWING NO.

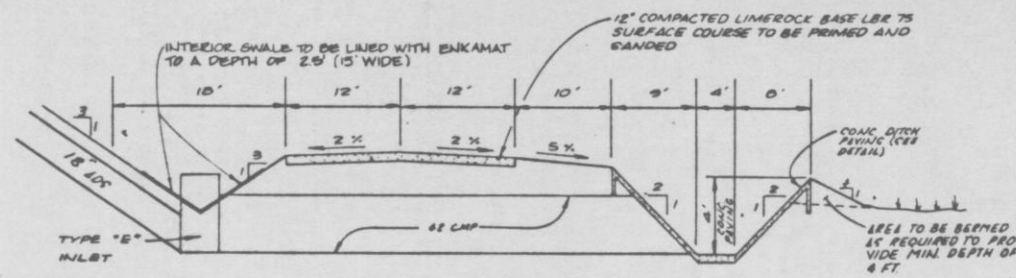




STA. 11+30 TO STA. 112+23  
**ENTRANCE ROAD DETAIL**

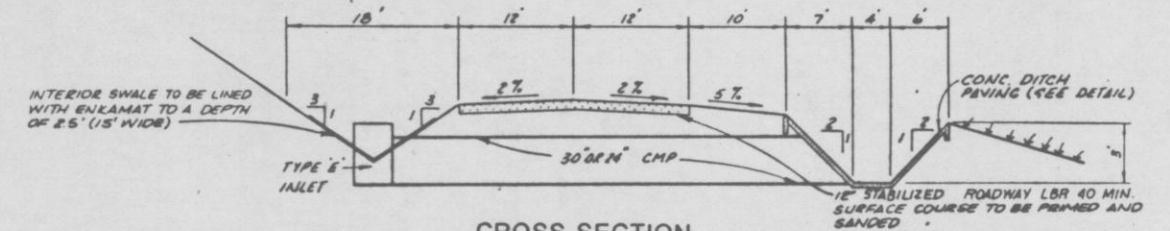
SCALE 1" = 10' HORIZ.  
1" = 5' VERT.

D1  
24/36



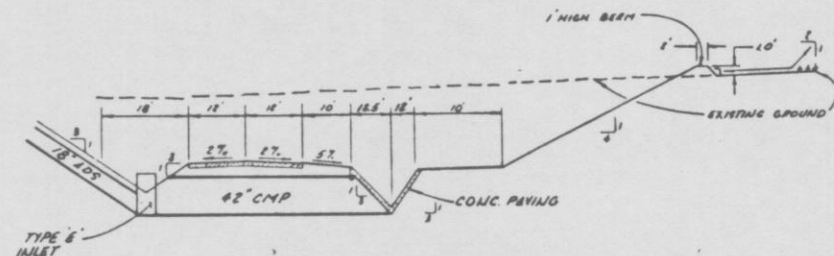
**NORTHERLY AND SOUTHERLY ROADWAY DETAIL (CLASS I)**

D2B  
24/36



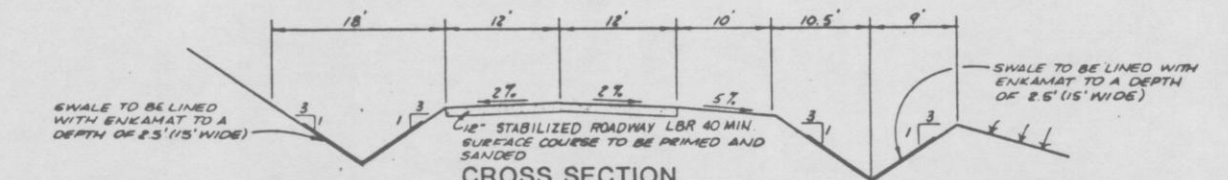
**CROSS SECTION  
NORTHERLY, SOUTHERLY & EASTERLY ROADWAY (CLASS III)**

D5  
24/36



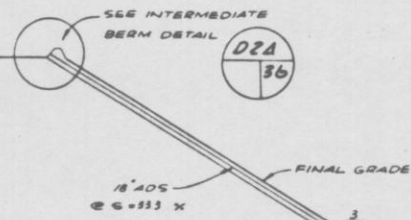
**CROSS SECTION  
WESTERLY ROAD DETAIL (CLASS I)**

D3  
24/36



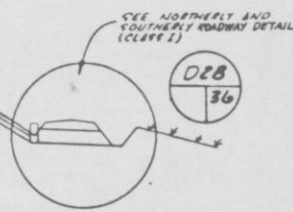
**CROSS SECTION  
NORTHWESTERLY & SOUTHWESTERLY ROADWAY DETAIL (CLASS III)**

D6  
24/36

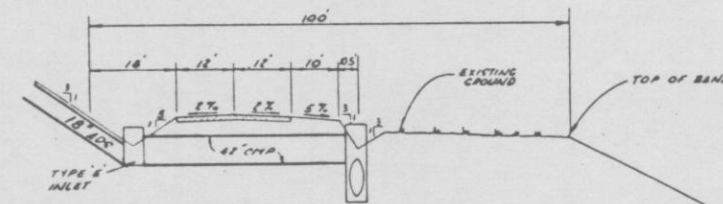


**CROSS SECTION**

D2  
24/36

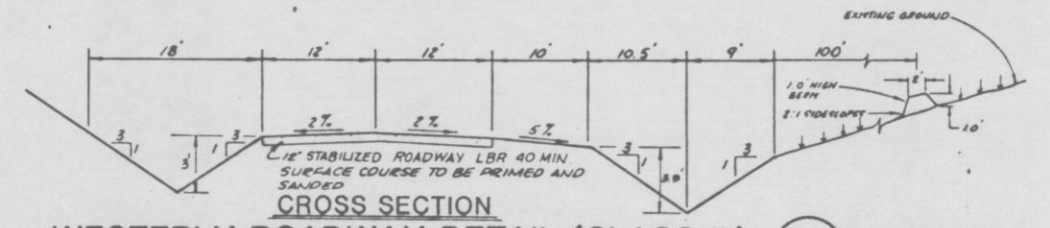


D2B  
24/36



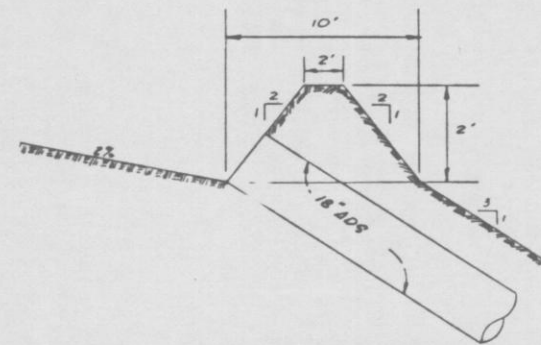
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EASTERLY ROADWAY DETAIL (CLASS I)**

D4  
24/36



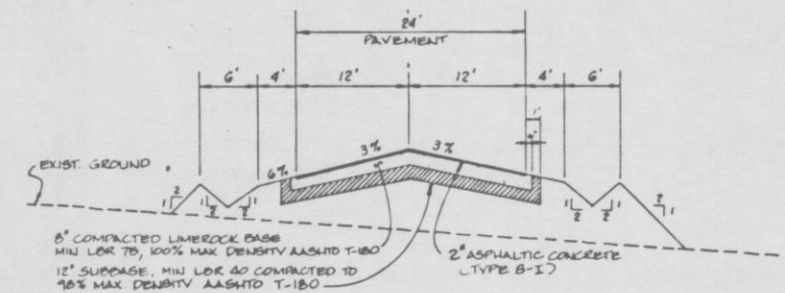
**CROSS SECTION  
WESTERLY ROADWAY DETAIL (CLASS III)**

D7  
24/36



**INTERMEDIATE BERM DETAIL**

D2A  
24/36



**ROADWAY SECTION BETWEEN CLASS I & CLASS III LANDFILLS**

SCALE: 1" = 10' HORIZ.  
1" = 2' VERT.

D8  
24/36

REVISIONS  
12-18-86 REV. PAVT. THICKNESS

ENG. PROJ. NO.  
687-112-9  
DRAWN BY  
P.M.H.  
CHECKED BY  
S.J.A.  
DATE  
JUNE 18, 1990

**PAVING AND DRAINAGE DETAILS**

**TRAIL RIDGE LANDFILL  
(PLAN A)**

**England-Thimby & Miller, Inc.**  
Consulting & Design Engineers  
JACKSONVILLE, FLORIDA

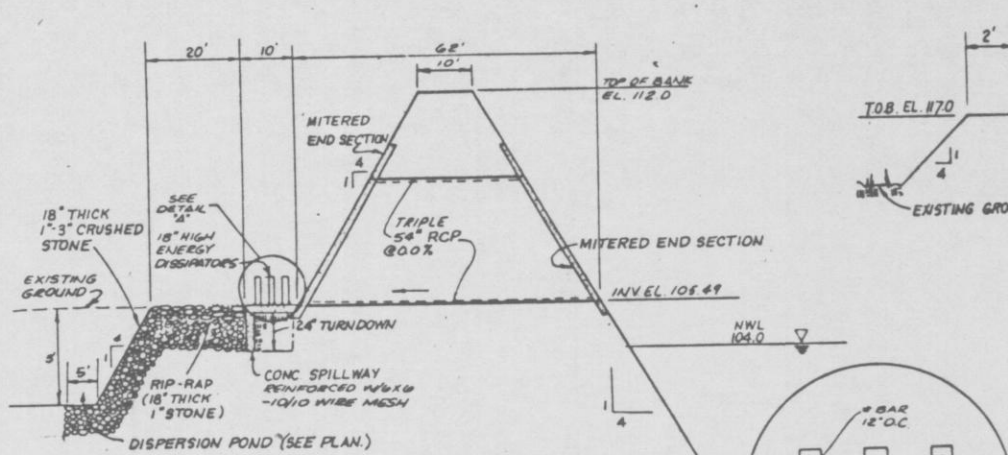


DRAWING NO.

36

PROJ. NO. 687-112-9

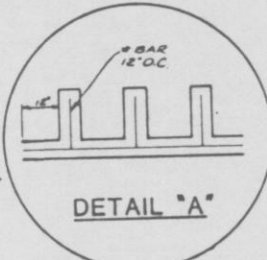




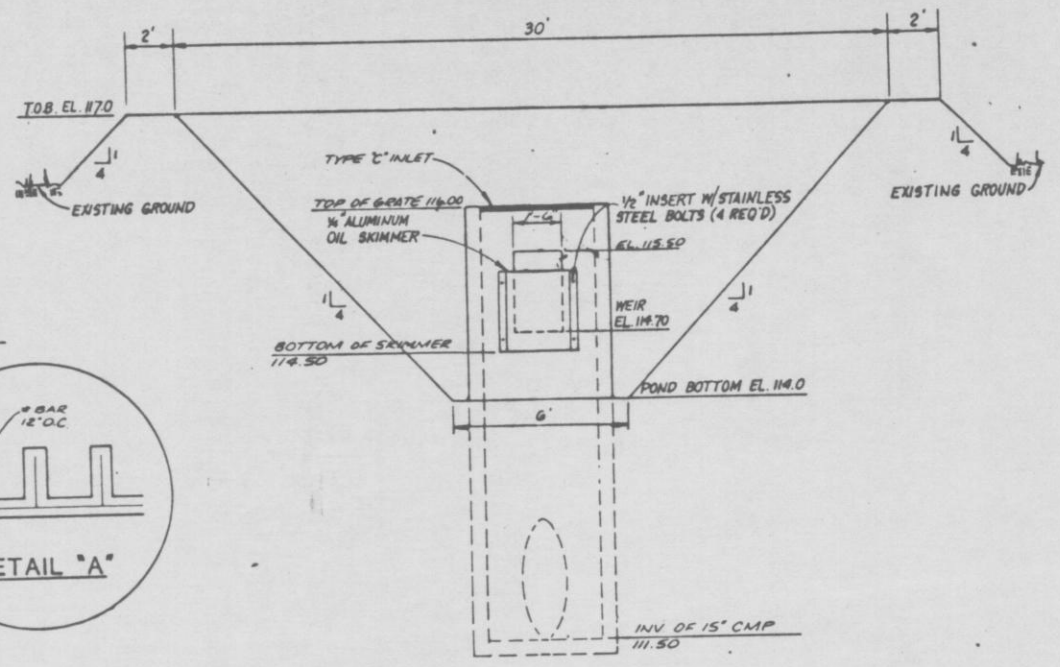
**CROSS SECTION  
CLASS I OUTFALL STRUCTURE DETAIL**

N.T.S.

D9  
24/36



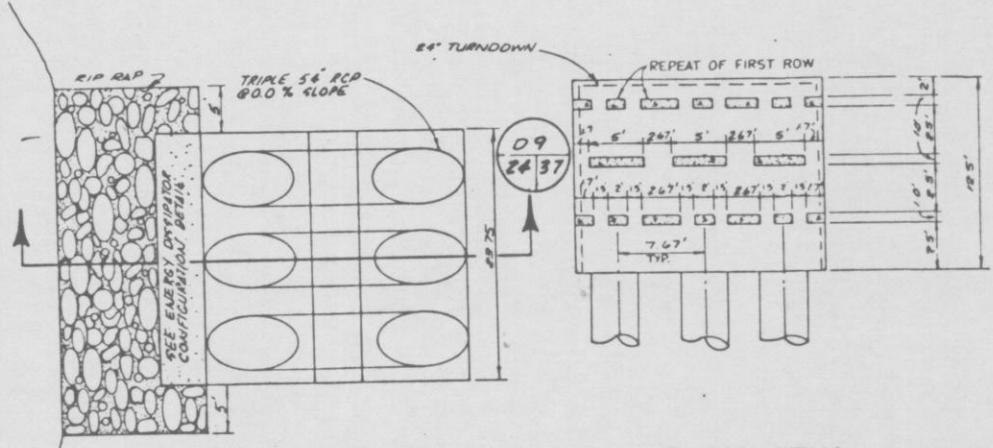
**DETAIL "A"**



**CROSS SECTION  
ROADWAY DETENTION POND DETAIL**

N.T.S.

D11  
24/37



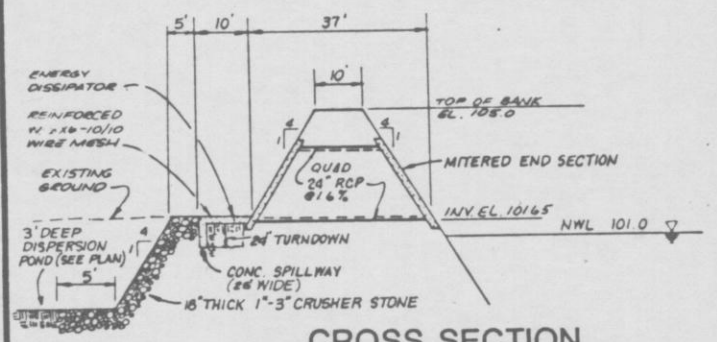
**PLAN VIEW  
CLASS I OUTFALL  
STRUCTURE DETAIL**

N.T.S.

D9  
24/37

**PLAN VIEW  
ENERGY DISSIPATOR  
CONFIGURATION DETAIL**

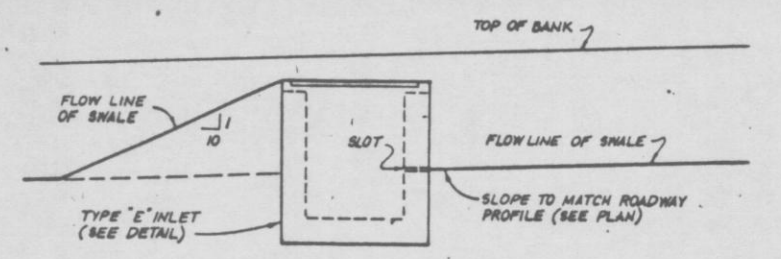
N.T.S.



**CROSS SECTION  
CLASS III OUTFALL STRUCTURE DETAIL**

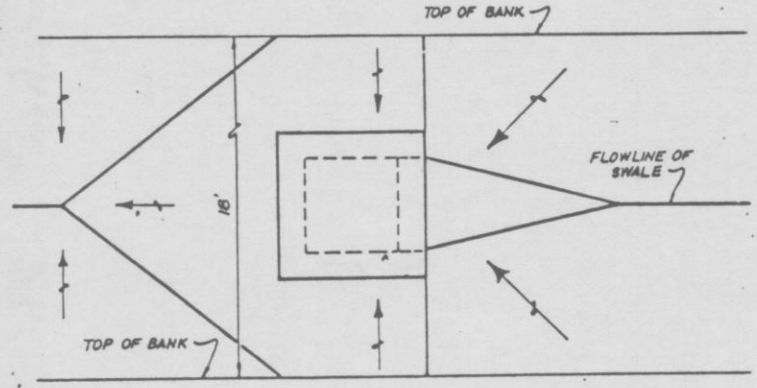
N.T.S.

D10  
24/37



**SWALE GRADING PROFILE  
(IN VICINITY OF TYPE "E" INLET)**

D15  
24/37

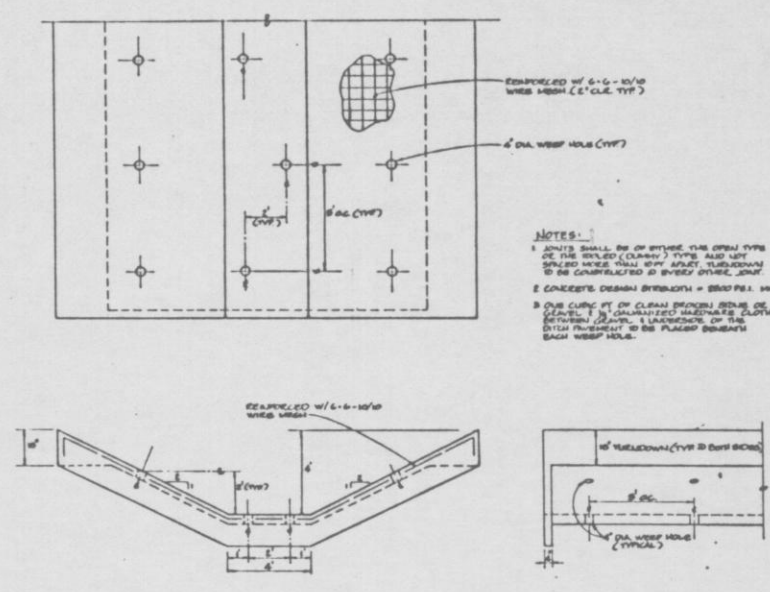


**PLAN VIEW**

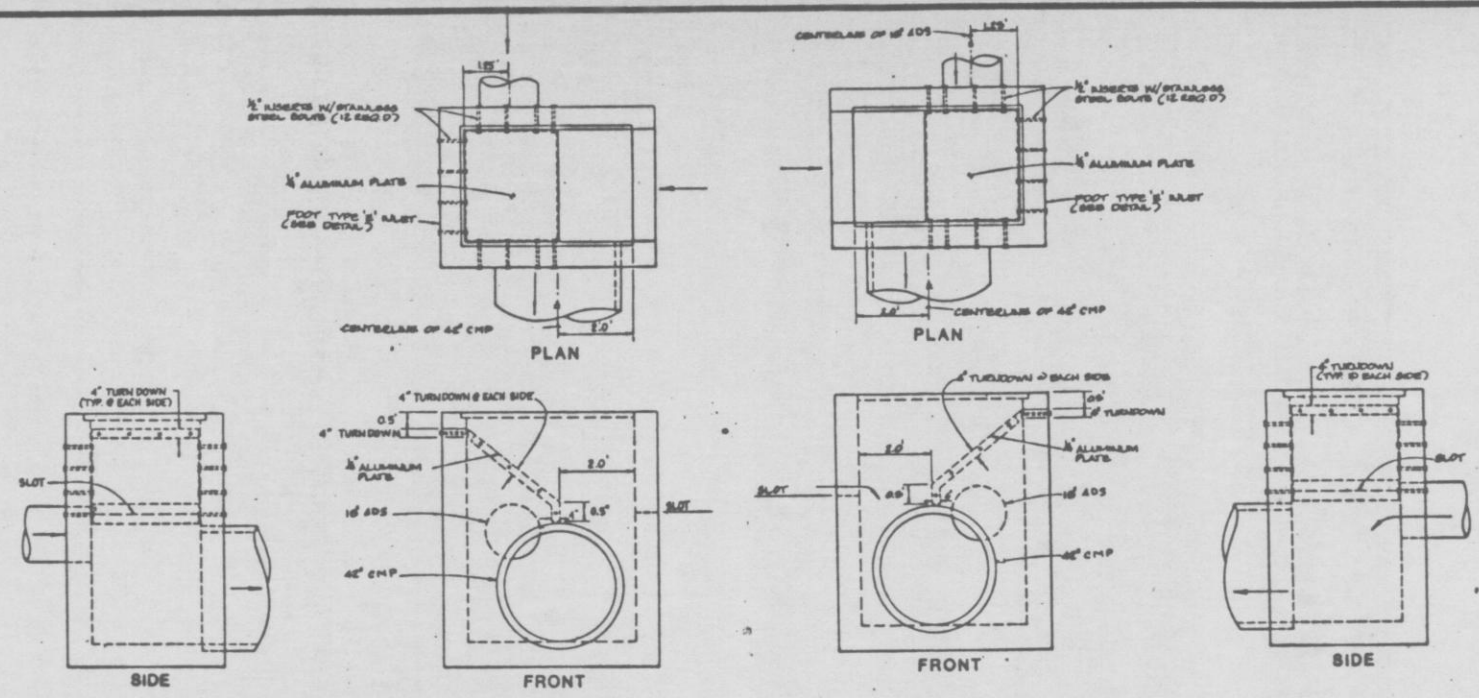
D13  
24/37

REVISED	REVISED BY	DATE
ENG. PROJ. NO.	87-112-F	
	DRAWN BY	EMH
CHECKED BY	JAT	
	DATE	MAY 18, 1990
<b>PAVING AND DRAINAGE DETAILS</b>		
<b>TRAIL RIDGE LANDFILL</b> (PLAN A)		
<b>England-Thims &amp; Miller, Inc.</b> Consulting & Design Engineers JACKSONVILLE, FLORIDA		
(DRAWING NO.)		
<b>37</b>		

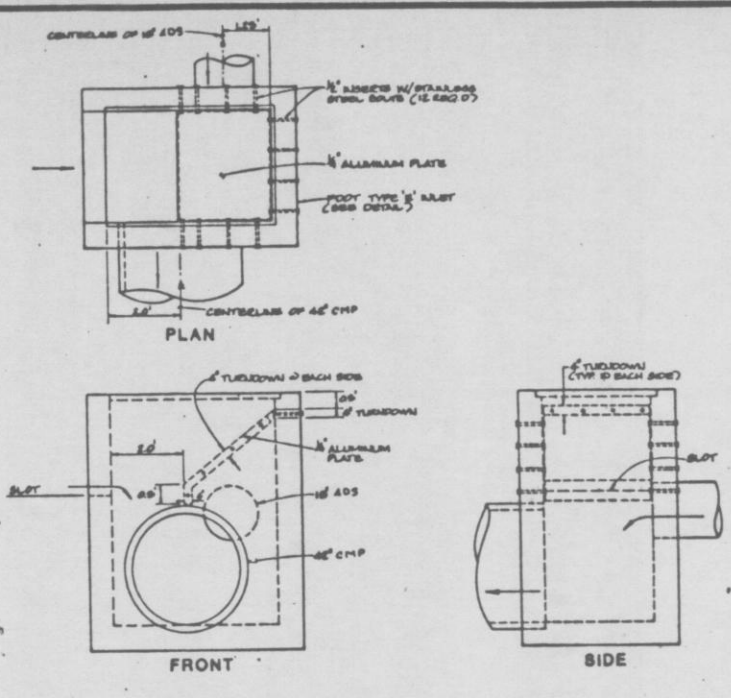




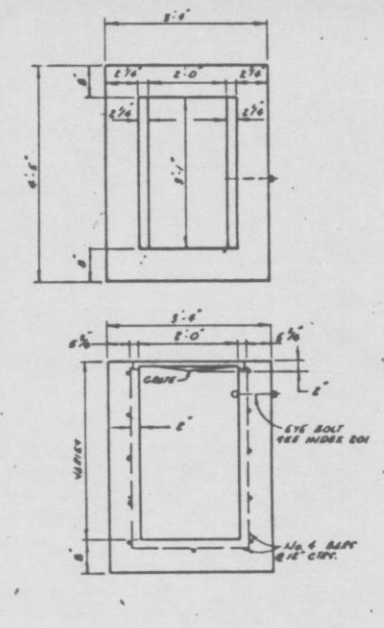
CONC. PAVING W/WEEP HOLES



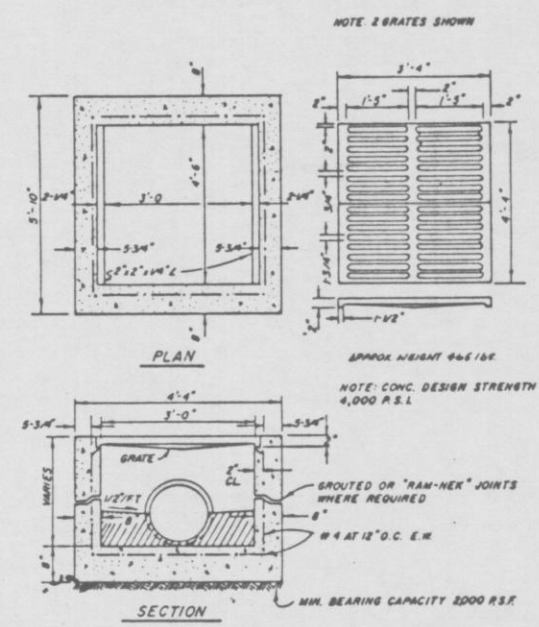
MODIFIED FDOT TYPE "E" INLET DETAIL - A  
FOR STRUCTURES S-2, S-5, S-10, S-13, S-16, S-19, AND S-27



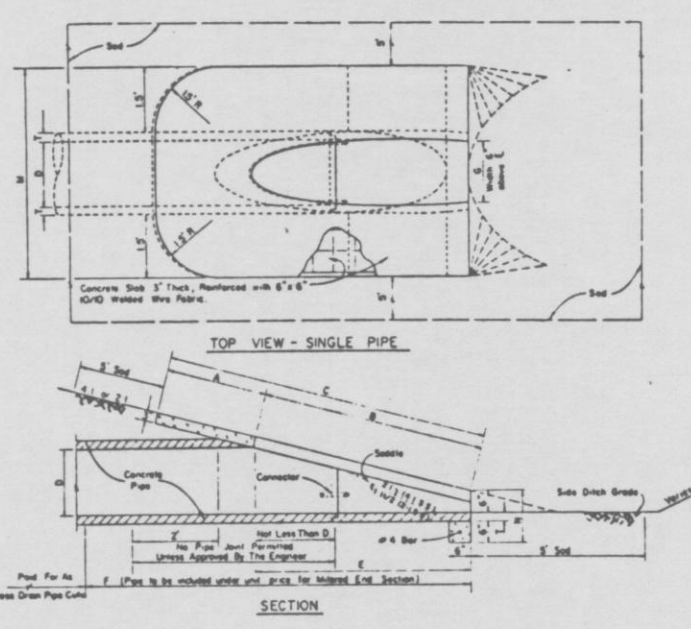
MODIFIED FDOT TYPE "E" INLET DETAIL - B  
FOR STRUCTURES S-24, S-33, S-38, S-41, S-44, S-47, S-52, AND S-55.



FDOT TYPE "C" INLET



FDOT TYPE "E" INLET



SINGLE AND DOUBLE MITERED END DETAIL FOR ROUND CONC. PIPE

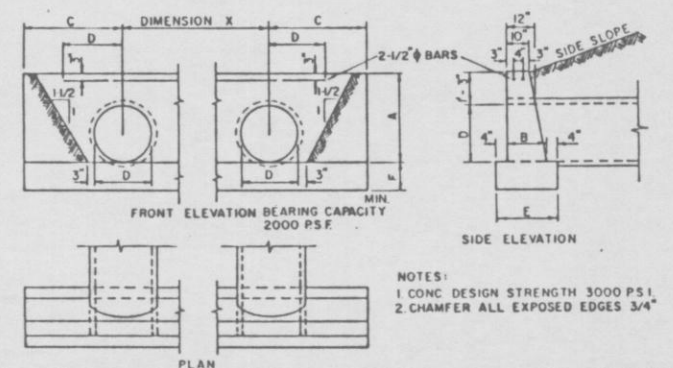
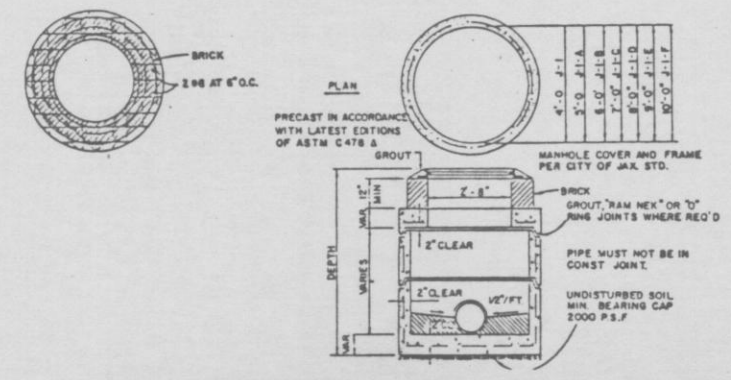


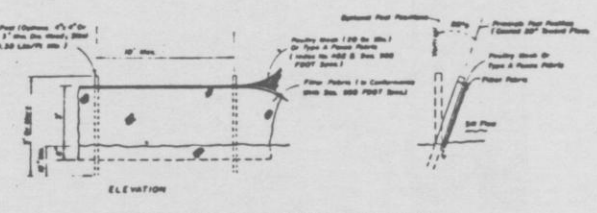
TABLE OF CONSTRUCTION DATA AND ESTIMATED QUANTITIES FOR ROUND PIPE CULVERTS

D	CONSTRUCTION DATA							QUANTITIES IN ONE ENDWALL, CO. YDS OF CONCRETE						
	AREA OF OPENING (SQ. FT.)	DIMENSIONS		DIMENSIONS		DIMENSIONS			PIPE CULVERTS (TYPE CULVERTS)		PIPE CULVERTS			
	1 PIPE	2 PIPES	3 PIPES	X	Z	B	C	E	F	CONC. PIPE	CONC. PIPE	CONC. PIPE	CONC. PIPE	CONC. PIPE
15"	2.4	3.6	4.9	2'-7"	2'-6"	1'-2"	4'-9"	1'-10"	1'-2"	1.9	1.9	2.2	2.3	2.6
18"	3.5	5.3	7.0	2'-10"	2'-9"	1'-3"	5'-3"	1'-11"	1'-3"	2.3	2.4	2.8	2.9	3.2
24"	6.3	9.4	12.6	3'-5"	3'-3"	1'-4"	6'-3"	2'-0"	1'-4"	3.2	3.3	3.8	3.9	4.4
30"	9.9	14.7	19.6	4'-3"	3'-9"	1'-6"	7'-3"	2'-2"	1'-6"	4.6	4.8	5.5	5.7	6.3
36"	14.1	21.2	28.3	5'-1"	4'-3"	1'-8"	8'-3"	2'-4"	1'-8"	6.3	6.5	7.5	7.8	8.7
42"	19.2	28.9	38.5	6'-0"	4'-9"	1'-10"	9'-3"	2'-6"	2'-0"	8.8	9.1	10.6	11.1	12.4
48"	25.1	37.7	50.3	6'-9"	5'-3"	2'-1"	10'-3"	2'-9"	2'-0"	11.2	11.6	13.4	14.1	15.7
54"	31.8	47.7	63.6	7'-8"	5'-9"	2'-6"	11'-3"	3'-2"	2'-3"	16.2	17.0	19.8		23.3

CONC. ENDWALL FOR MULTIPLE 15" - 54" ROUND PIPES



STORM SEWER TYPE "J" MANHOLE



- SILT FENCE - TYPICAL DETAIL
- NOTES:
1. STEEL POSTS WHICH SUPPORT SILT FENCE TO BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
  2. TOE OF SILT FENCE TO BE TRENCHED IN WITH SHARP OR MECHANICAL TRENCHER SO THAT DOWNFLOW FACE OF TRENCH IS FLAT AND PERPENDICULAR TO LINE OF FLOW.
  3. TRENCH TO BE MIN. OF 6 INCHES DEEP AND THREE TO FOUR FEET WIDE TO ALLOW FOR SILT FENCE TO BE LAID IN GROUND AND BACKFILLED.
  4. SILT FENCE TO BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOODENLIME WHICH IS IN TURN ATTACHED TO STEEL FENCE POST.
  5. ACCUMULATED SILT TO BE REMOVED WHEN IT REACHES DEPTH OF 6 INCHES AND UNIFORMLY DISTRIBUTED OVER SOIL IN PROJECT CONSTRUCTION AREA.
  6. REMOVE AND DISPOSE OF SILT FENCE AFTER PROJECT HAS BEEN ACCEPTED BY OWNER AT NO ADDITIONAL COST TO OWNER.

SILT FENCE TYPICAL DETAIL

REVISIONS

ENG. PROJ. NO. E-81-113-9

DRAWN BY: C.D.T.

CHECKED BY: S.W.

DATE: JUNE 18, 1990

PAVING AND DRAINAGE DETAILS

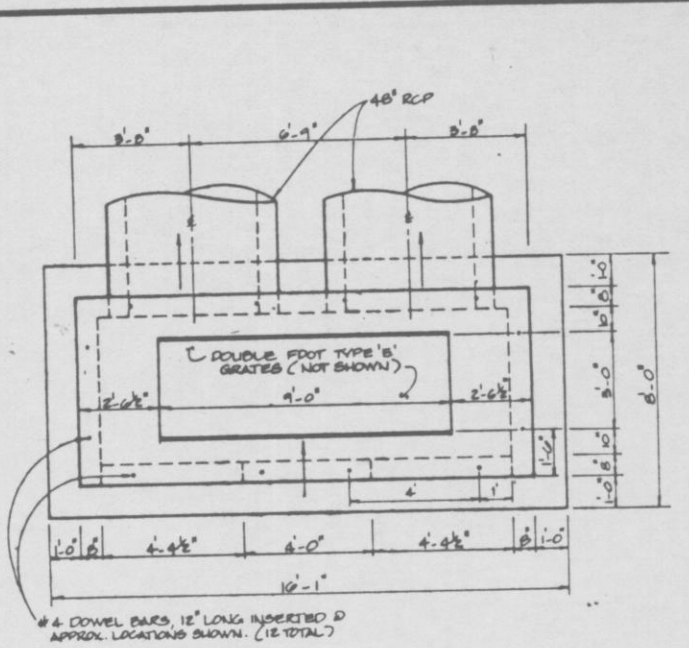
TRAIL RIDGE LANDFILL (PLAN A)

England-Thimby & Miller, Inc.  
Consulting & Design Engineers  
JACKSONVILLE, FLORIDA

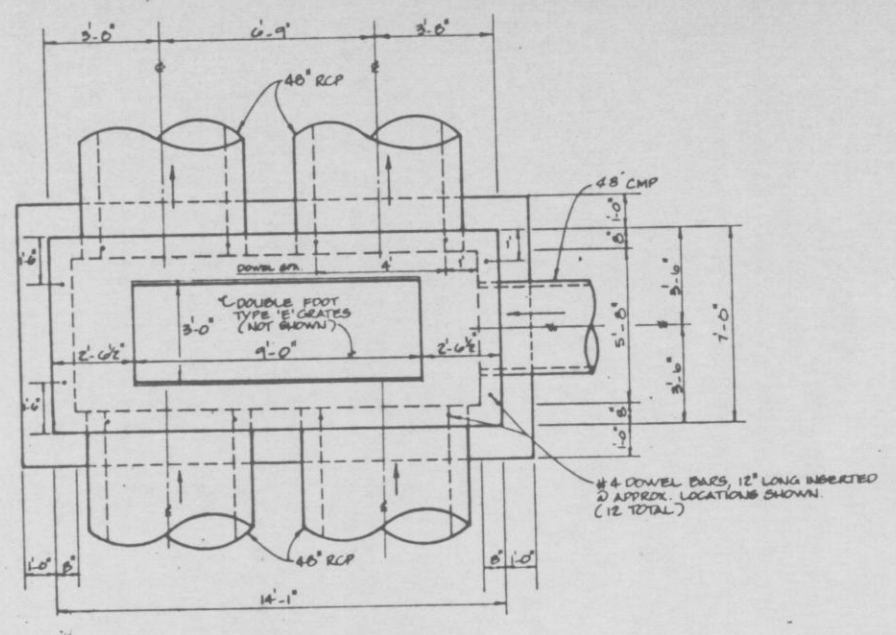
DRAWING NO. 38

PROJ. NO. 81-113-9

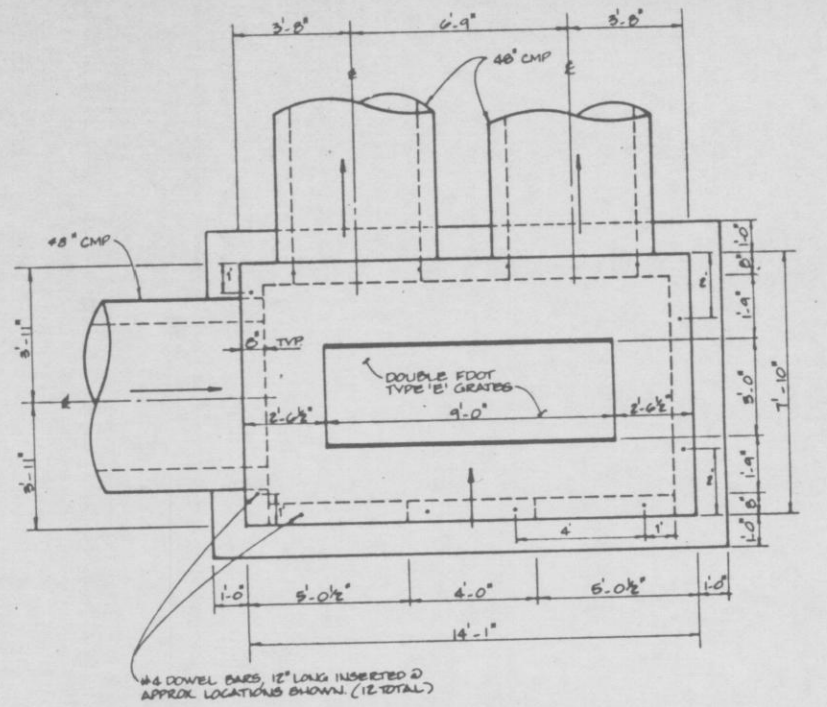




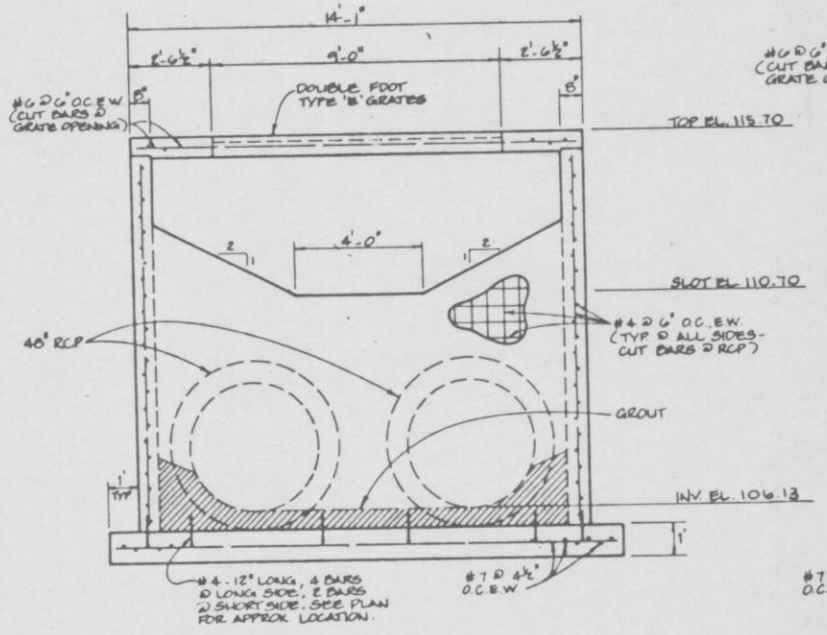
**INLET STRUCTURE DETAIL**  
**STRUCTURE S75**  
 N.T.S.



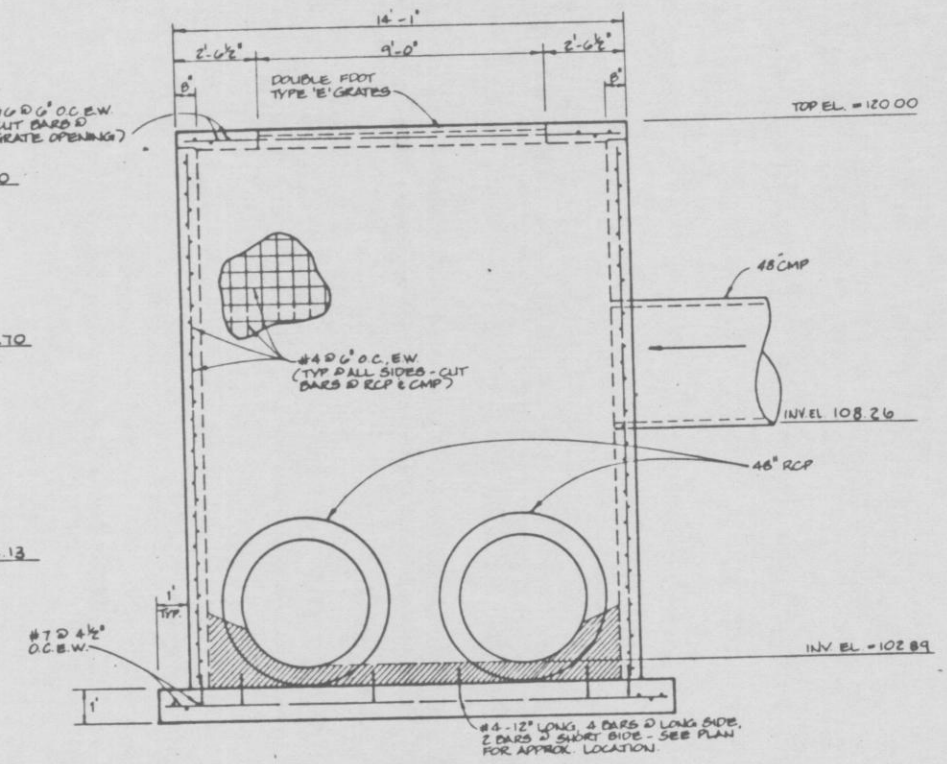
**JUNCTION BOX DETAIL**  
**STRUCTURE S76**  
 N.T.S.



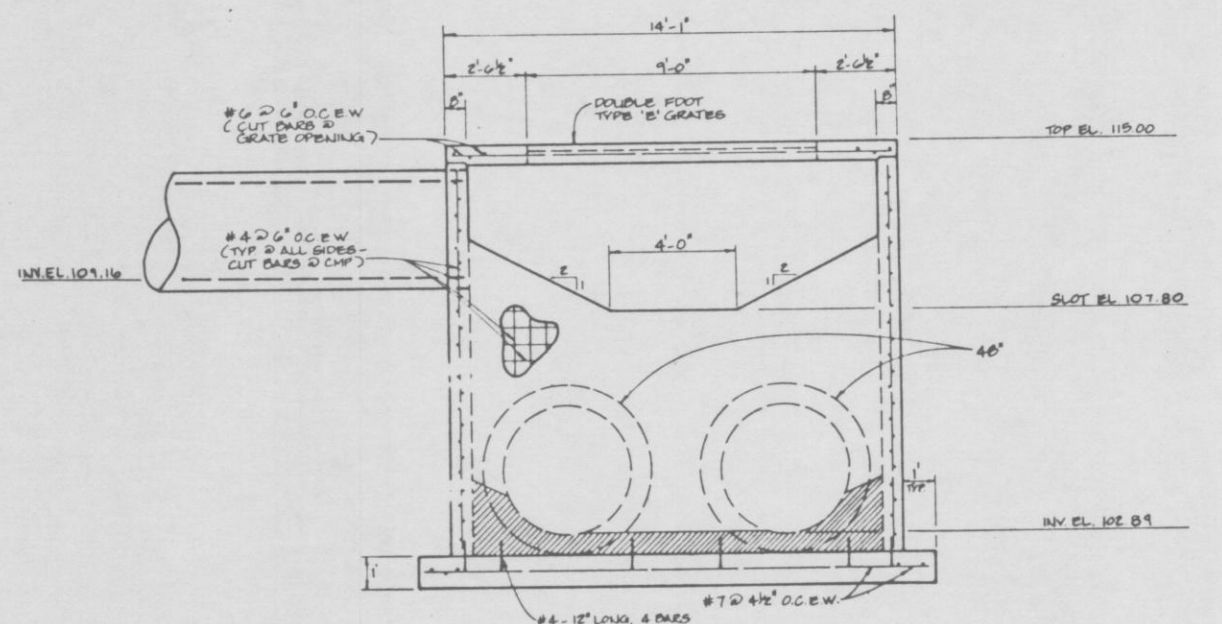
**INLET STRUCTURE DETAIL**  
**STRUCTURE S31**  
 N.T.S.



**INLET STRUCTURE DETAIL**  
**STRUCTURE S75**  
 N.T.S.



**JUNCTION BOX DETAIL**  
**STRUCTURE S76**  
 N.T.S.



**INLET STRUCTURE DETAIL**  
**STRUCTURE S31**  
 N.T.S.

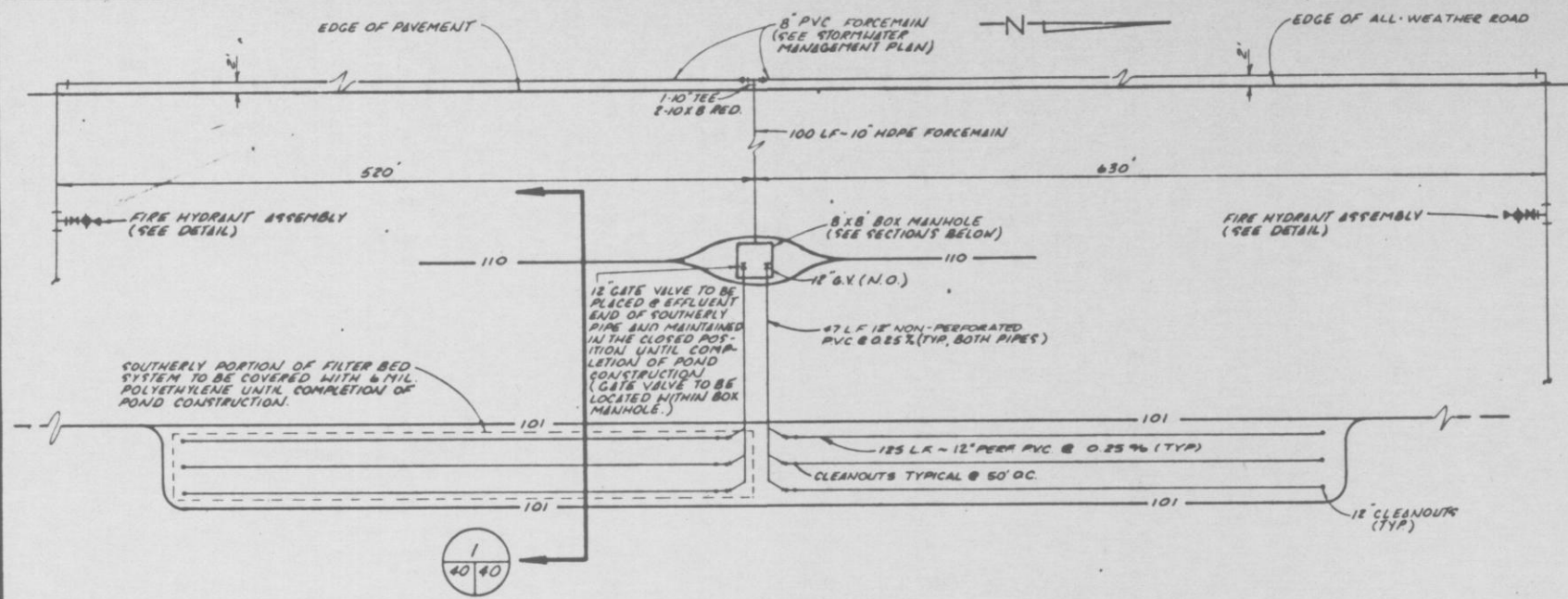
PROJ. NO.	21-113
DRAWN BY	TLO
CHECKED BY	S.A.W.
DATE	JUNE 18, 1990

PAVING AND DRAINAGE DETAILS  
 TRAIL RIDGE LANDFILL  
 (PLAN A)

**England-Thimby & Miller, Inc.**  
 Consulting & Design Engineers  
 JACKSONVILLE, FLORIDA

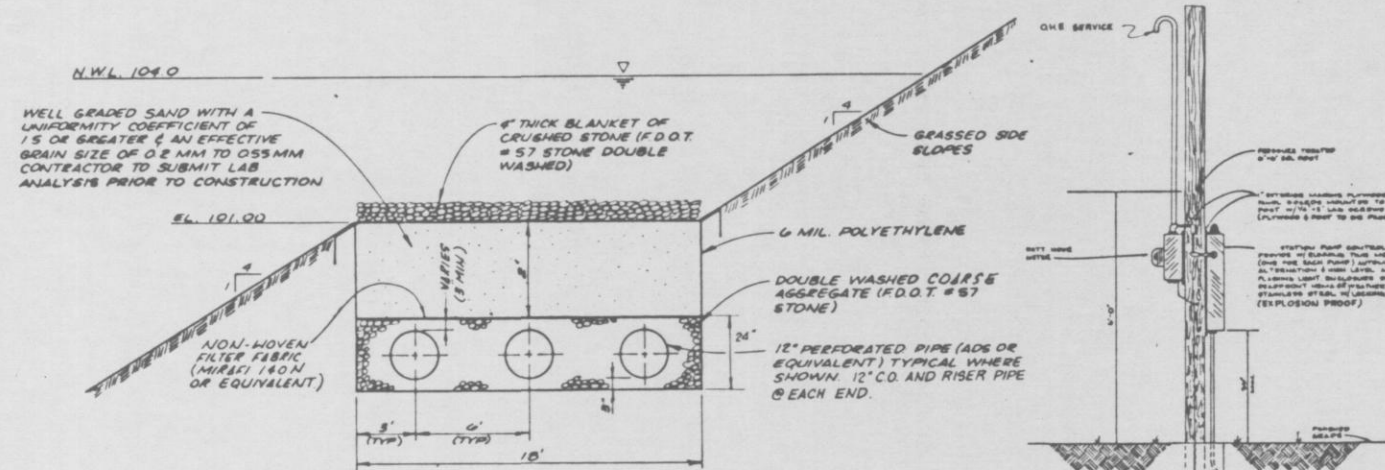
DRAWING NO.





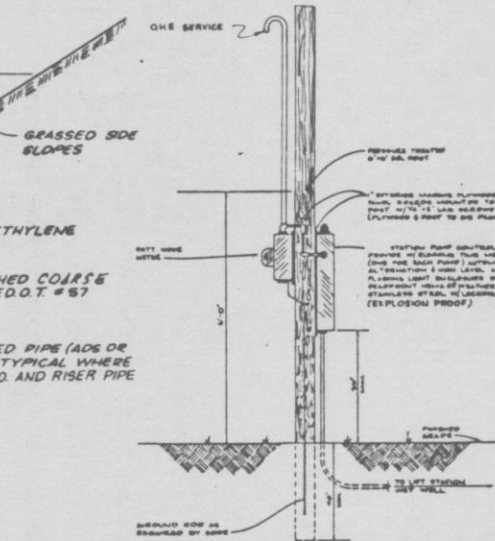
**CLASS I FILTER BED SYSTEM PLAN VIEW**

NTS

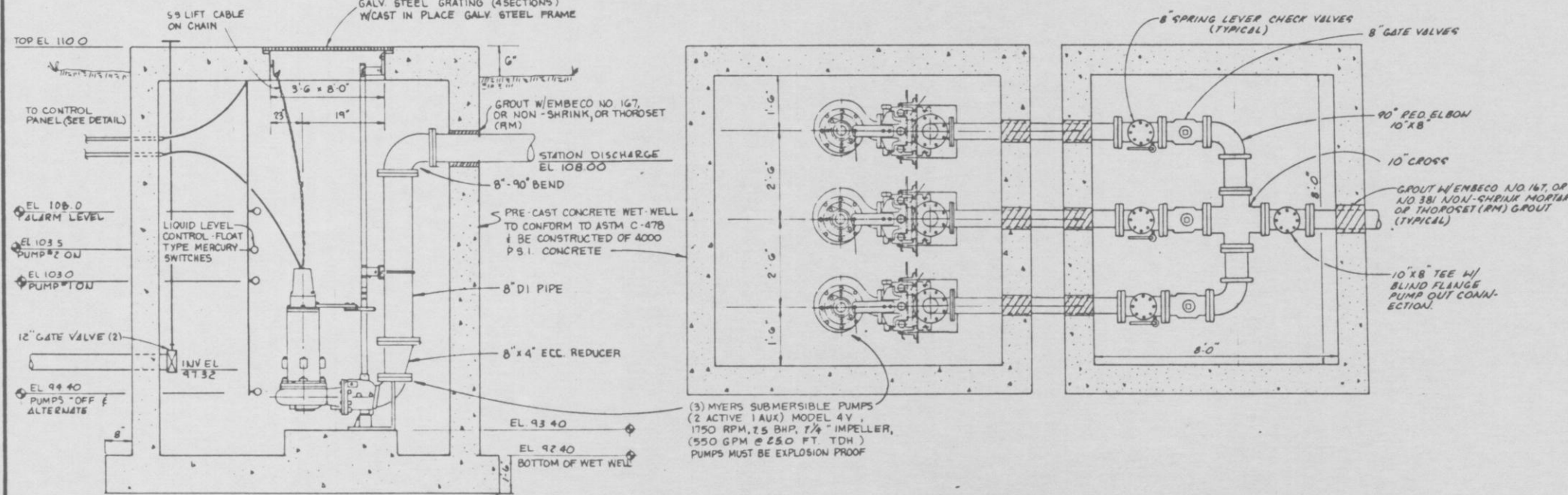


**CLASS I FILTER BED SECTION**

NTS

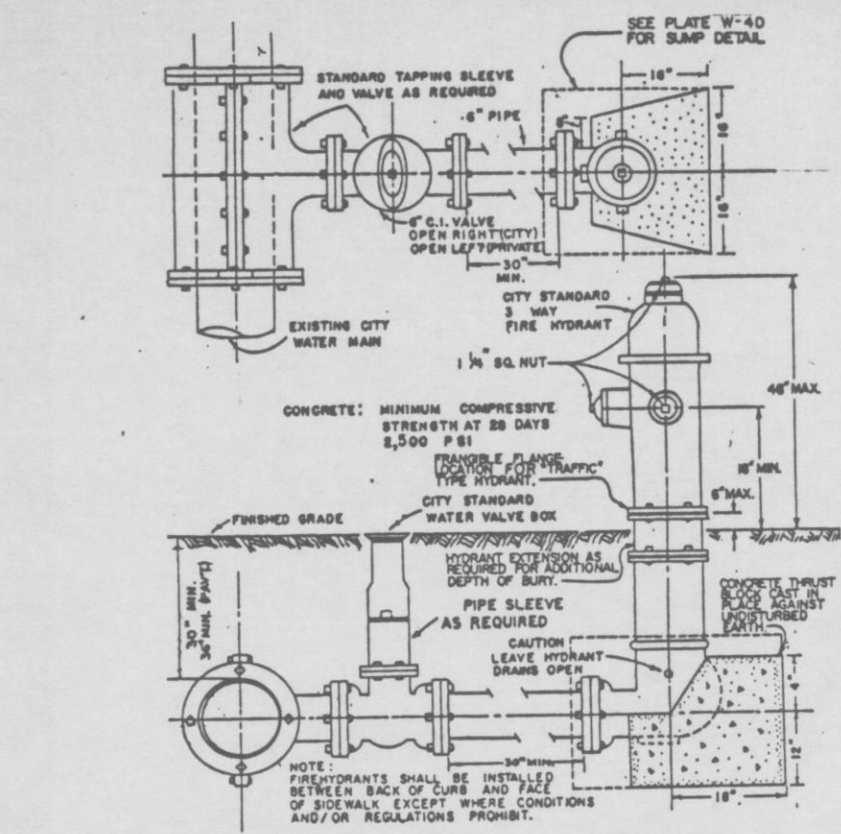


**CONTROL PANEL - POST MOUNTED**

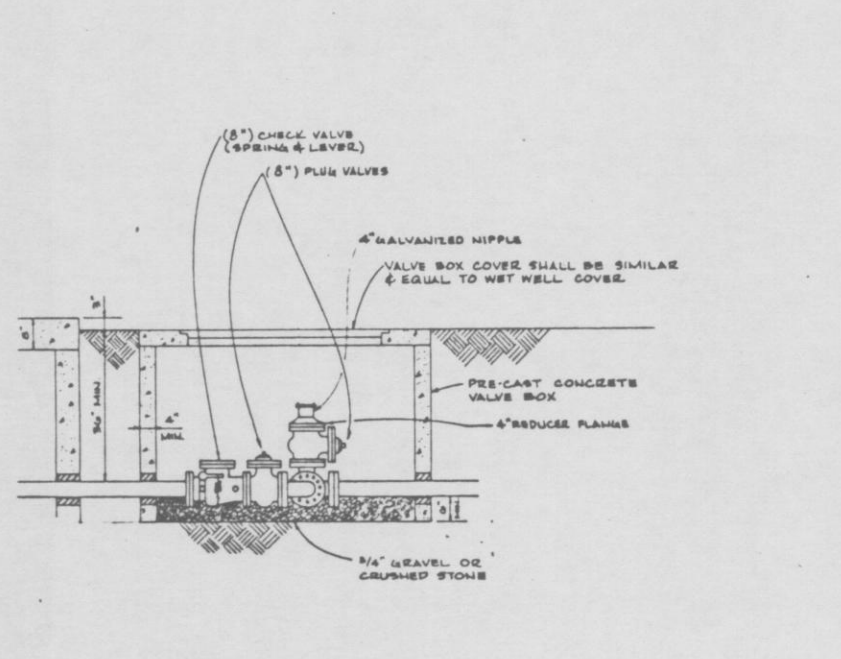


**CLASS I STORMWATER PUMP STATION SECTIONS**

NTS



**STD. FIRE HYDRANT DETAIL**



**VALVE PIT SECTION**

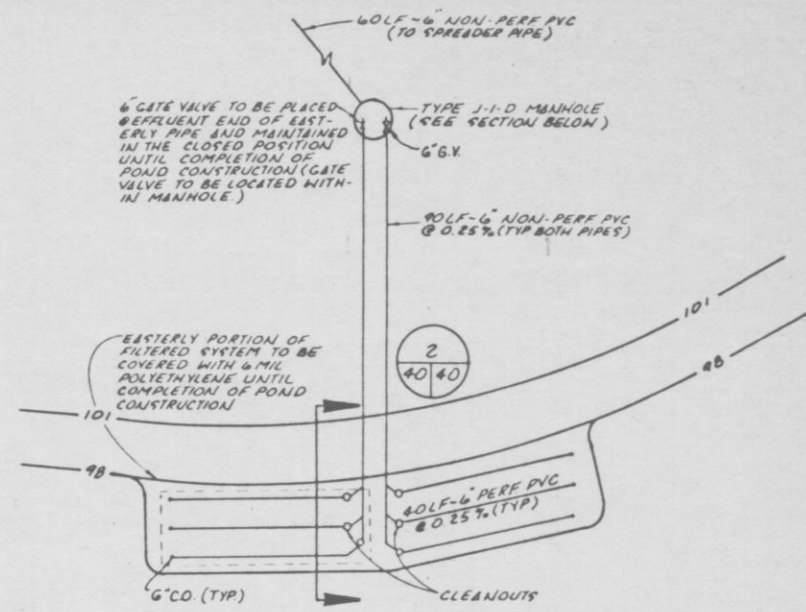
REVISED	DATE	BY

CLASS I  
FILTER BED SYSTEMS DETAILS  
TRAIL RIDGE LANDFILL  
(PLAN A)

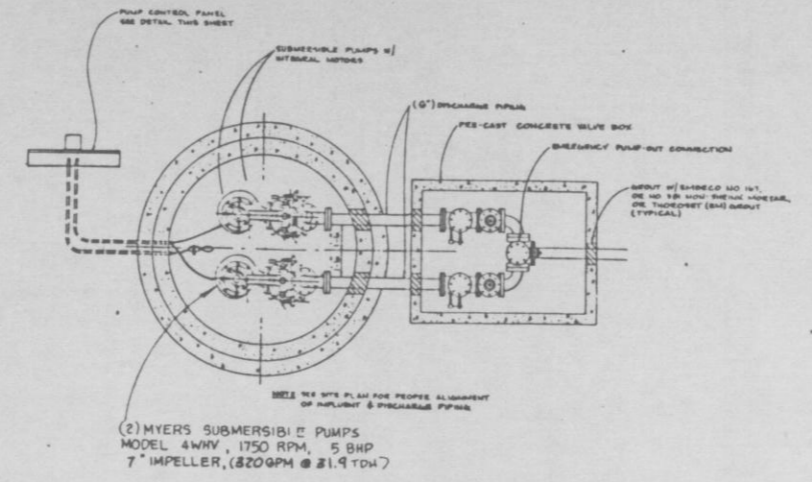
**England-Thimms & Miller, Inc.**  
Consulting & Design Engineers  
JACKSONVILLE, FLORIDA



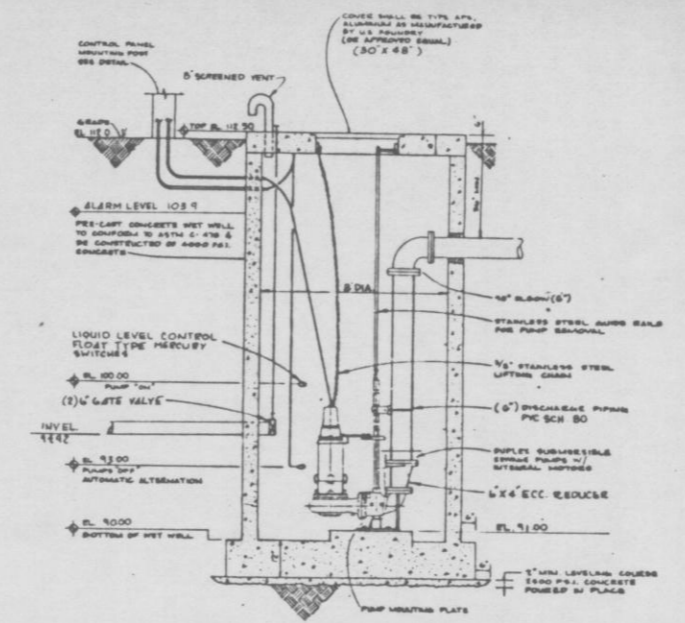




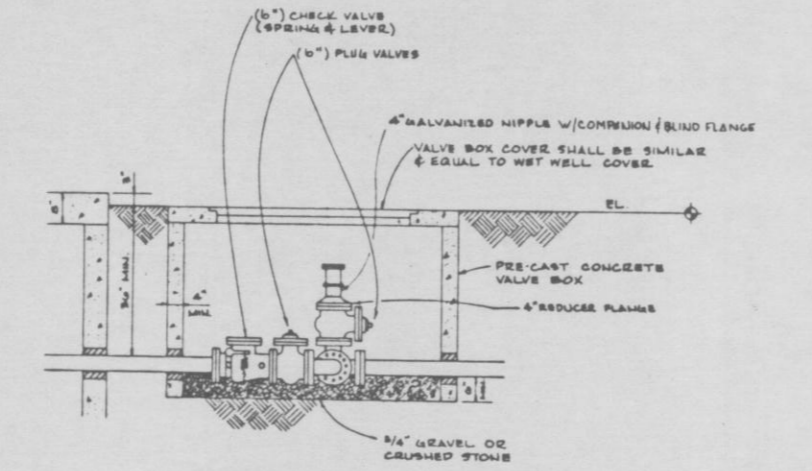
**CLASS III FILTER BED SYSTEM PLAN VIEW**  
NTS



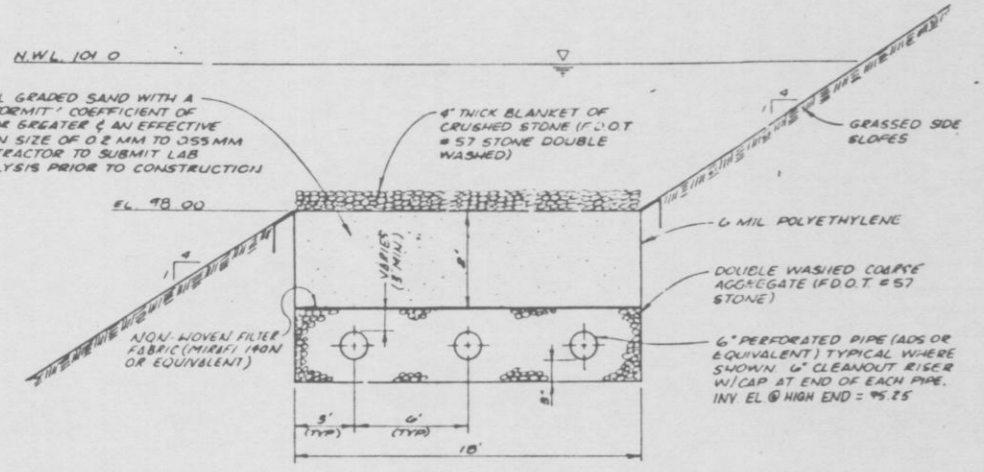
**PLAN VIEW**



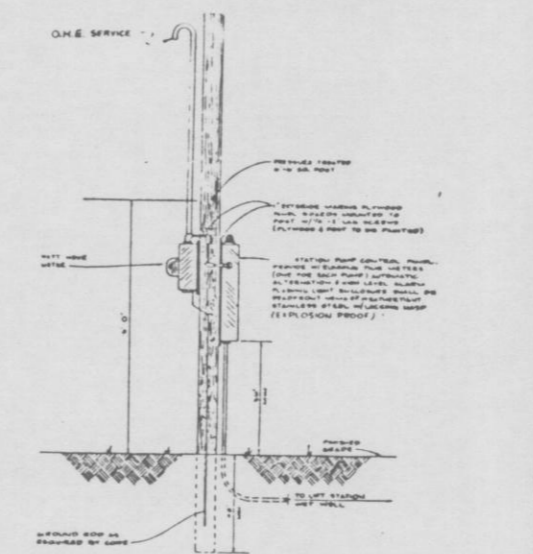
**PUMP STATION SECTION**



**VALVE PIT SECTION**



**CLASS III FILTER BED SYSTEM SECTION**  
NTS



**CONTROL PANEL - POST MOUNTED**

REVISED	DATE	BY	CHKD
	JUNE 18, 1980	J.J.T.	J.J.T.
<b>CLASS III FILTER BED SYSTEM DETAILS</b>			
<b>TRAIL RIDGE LANDFILL (PLAN A)</b>			
<b>England-Thims &amp; Miller, Inc.</b> Consulting & Design Engineers JACKSONVILLE, FLORIDA			
DRAWING NO. <b>41</b>			
PROJ. NO. 81-12-1			