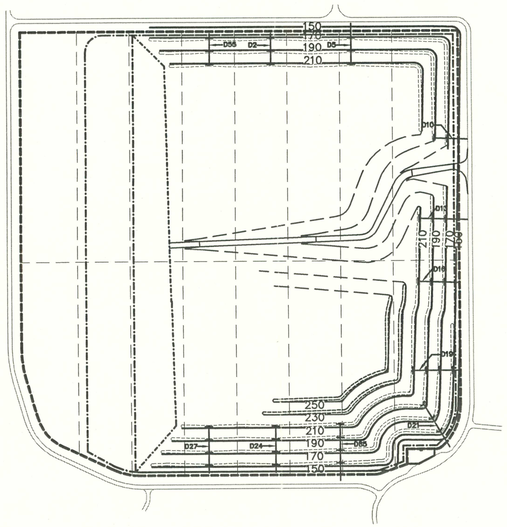
'01 NOV 16 PM 3 46

STATE OF FLORIDA



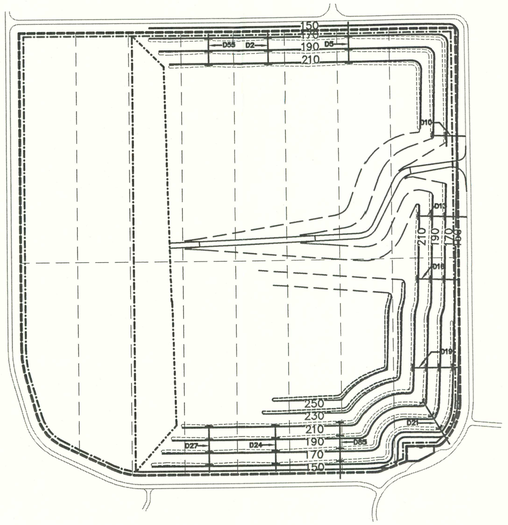
FILL PHASE 6A

NOTE: THE WASTE PLACEMENT IN PHASES VA AND VC WILL BE TO THE TOP OF THE ANCHOR BERM.

GRAPHIC SCALE

400 0 200 400 800

(IN FEET)



FILL PHASE 6B

NOTE: THE WASTE PLACEMENT IN PHASES VB AND VD WILL BE TO THE TOP OF THE ANCHOR BERM.

GRAPHIC SCALE

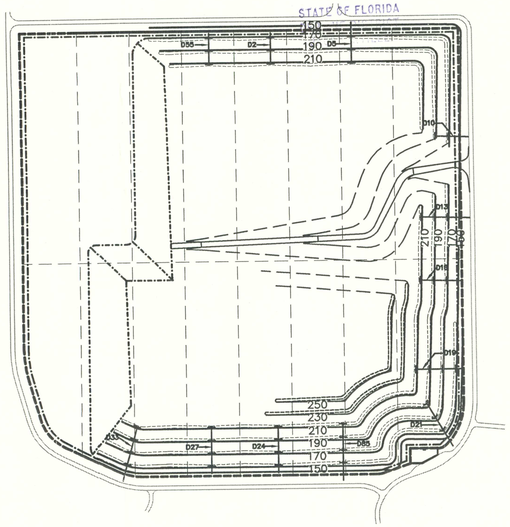
400 0 200 400 800

(IN FEET)

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

LEGEND

—150—	FINAL CONTOUR
	LIMITS OF LINER
	LINER PHASE LINE
	LIMITS OF FILL
	ACCESS ROAD
	ROADWAY
	TERRACE
	DOWNCOMER PIPE



FILL PHASE 7

GRAPHIC SCALE

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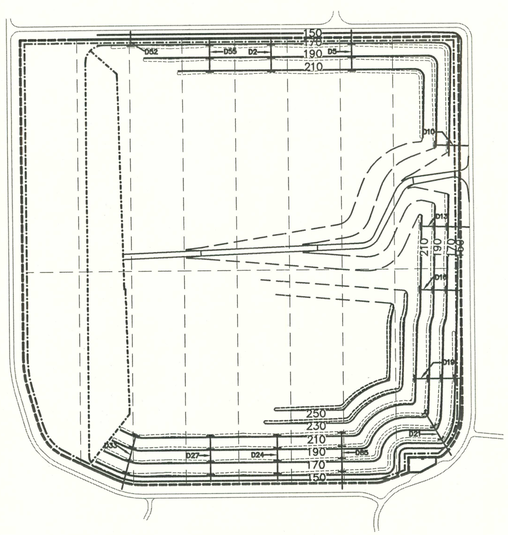
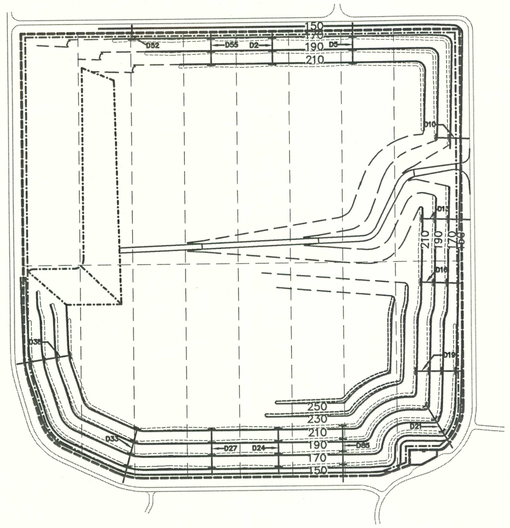
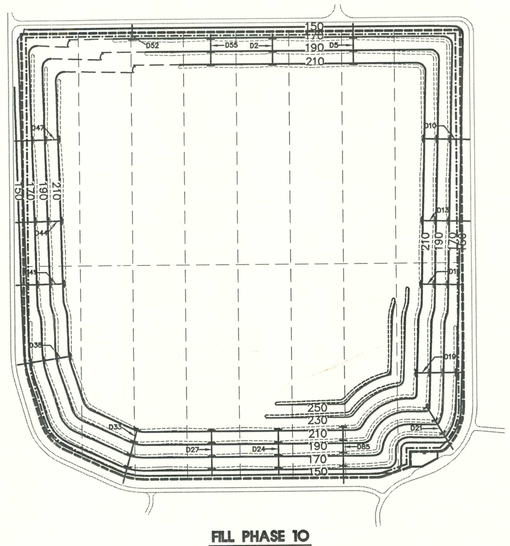
(IN FEET)



FILL PHASE 8



FILL PHASE 9



FILL PHASE 10

SUBMITTED TO DEP: 10-28-96

REVISIONS:
2-23-00 PROPOSED FILL PHASES 7 – 12 TO INCLUDE EL. 230 & 250
12-6-00 TO REMOVE WESTERN HIGH RISE (EL. 220 & 250)
11-15-01 MODIFIED PHASES 6A AND 6B AND MOPED FILL PHASES 7, 8 & 9 ACCORDINGLY

ETM NO. E 98-49
DRAWN BY: J.B.C.
DESIGNED BY: J.B.C.
CHECKED BY: D.C.M.
DATE: OCTOBER 28, 1998

PERMIT DOCUMENT

FILL PHASING PLAN

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

England-Thims & Miller, Inc.
ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS
14775 ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32258
CERTIFICATE OF AUTHORIZATION NUMBER: 2554
PHONE NUMBER (904) 642-8990 FAX NUMBER (904) 646-9485

DRAWING NO.

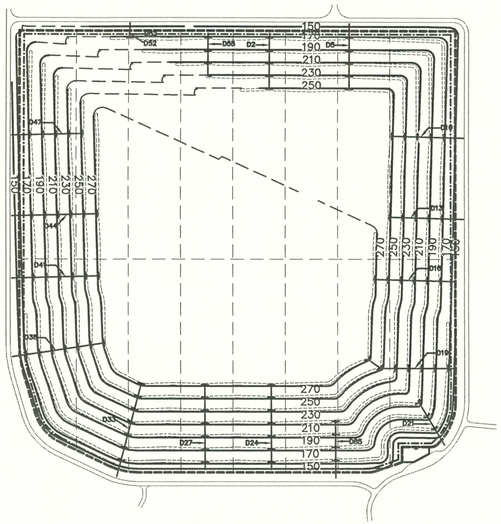
12

G:\LAND\TLLITFIL\E98-49\Dwg\PlotSet\ent\L-PH6B1.dwg, 11/15/01 12:45:44 PM, Tierraf

GRAPHIC SCALE

400 0 200 400 800

(IN FEET)

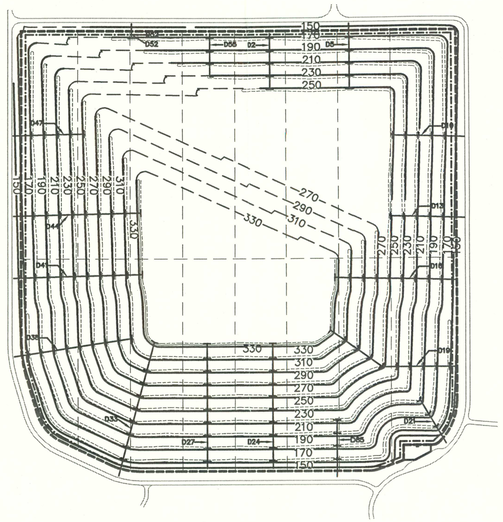


FILL PHASE 11

GRAPHIC SCALE

400 0 200 400 800

(IN FEET)

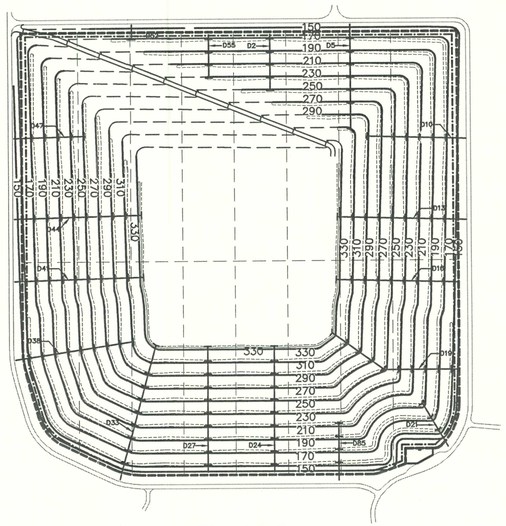


FILL PHASE 12

GRAPHIC SCALE

400 0 200 400 800

(IN FEET)

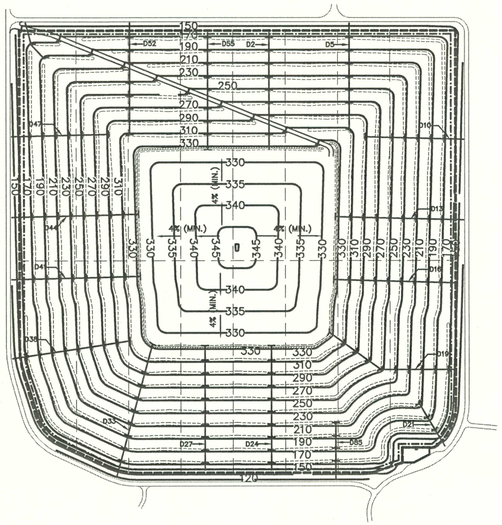


FILL PHASE 13

GRAPHIC SCALE

400 0 200 400 800

(IN FEET)



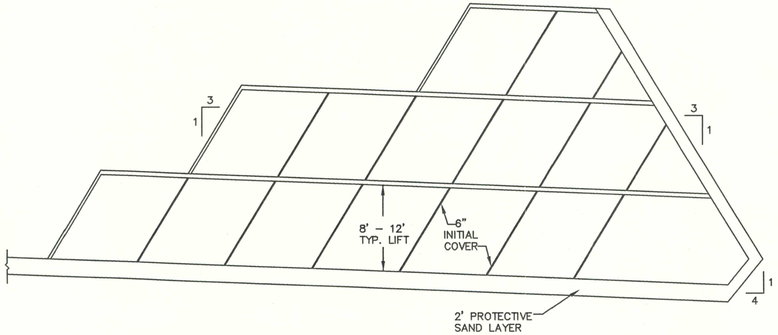
FILL PHASE 14

NOTE

FILL PHASING MAY BE CHANGED DUE TO OPERATIONAL NEEDS.

LEGEND

—150—	FINAL CONTOUR
	LIMITS OF LINER
	LINER PHASE LINE
	LIMITS OF FILL
	ACCESS ROAD
	ROADWAY
	TERRACE
	DOWNCOMER PIPE
	10' BERM



TYPICAL FILL SECTION

N.T.S.

SUBMITTED TO DEP: 10-28-96

REVISIONS:
04-25-00 REVISED FILL PHASES 7 - 12 TO INCLUDE EL. 235 & 250
12-6-00 REVISED FILL PHASES 7 - 10 TO REMOVE WESTERN HIGH RISE EL. 230 & 250
11-15-01 REVISED FILL PHASES 11 AND 12 TO THIS SHEET.

ETM NO. E 96-49

DRAWN BY: J.B.C.

DESIGNED BY: J.B.C.

CHECKED BY: D.C.M.

DATE: OCTOBER 28, 1996

PERMIT DOCUMENT

FILL PHASING PLAN

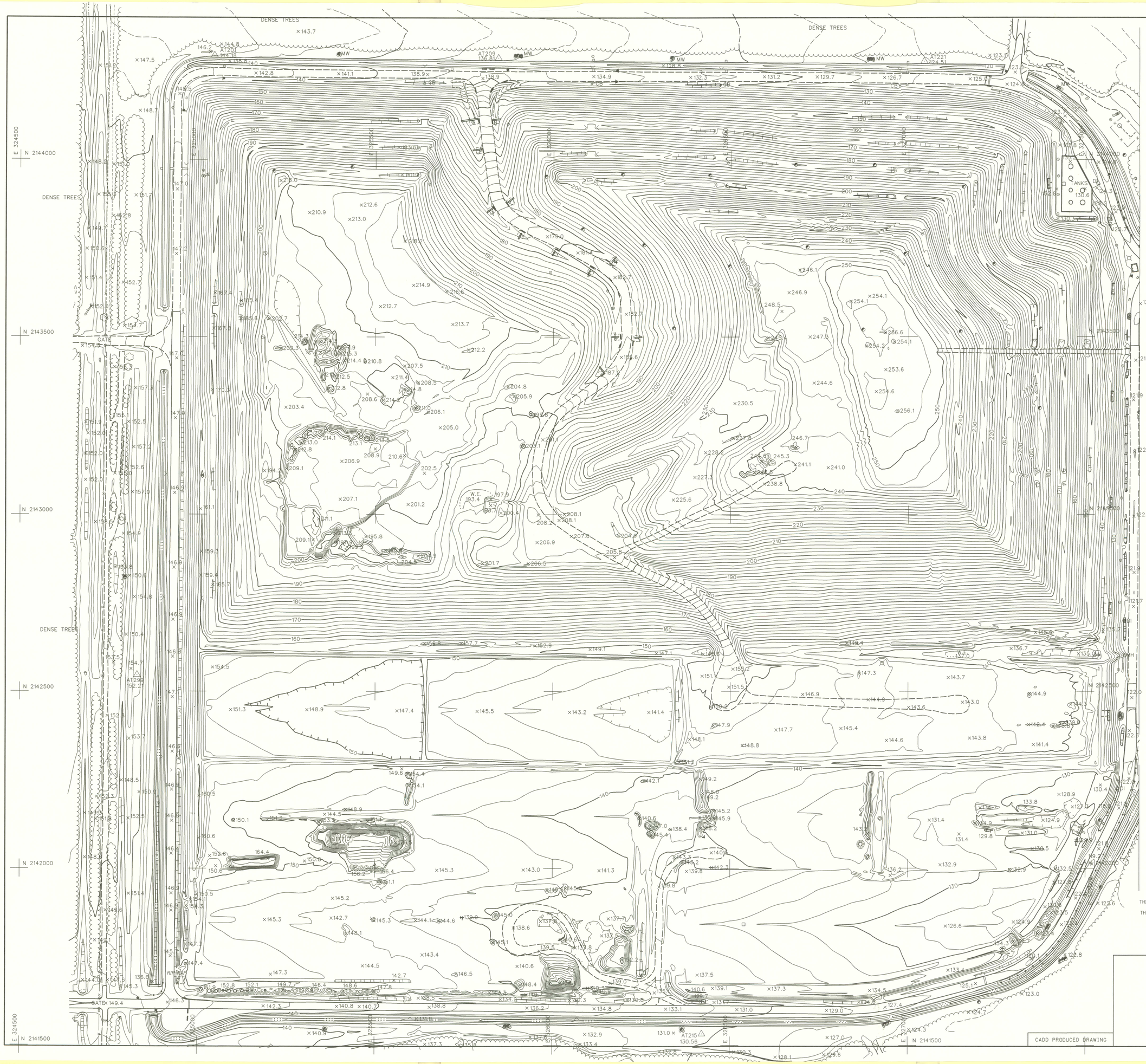
TRAIL RIDGE LANDFILL PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.

England-Thims & Miller, Inc.
ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS
14775 ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32258
CERTIFICATE OF AUTHORIZATION NUMBER: 2584
PHONE NUMBER (904) 642-8990 FAX NUMBER (904) 646-9465

DRAWING NO.

13

G:\LAND\FILL\TRAIL\98-34-3\Dwgs\Phase\Dwg\FILL-PHASE.dwg, 11/15/01 12:38:41 PM, DwgF



LEGEND

- BRUSHLINE
- CABLE MARKER
- CATCH BASIN
- DROP INLET
- FENCE
- FIRE HYDRANT
- GUARD RAIL
- LIGHT POLE
- MISCELLANEOUS POLE
- MONITORING WELL
- MONUMENT
- BUILDING
- PAVED ROAD
- DIRT ROAD
- SPOT ELEVATION
- SIDEWALK

ABBREVIA

A,ASPH	ASPHALT
A/C	AIR CON
BR	BRICK
CB	CATCH
C,CONC	CONCRE
DI	DROP IN
HDWL	HEAD W
MC	METAL
MH	MANHOL
TRANS	TRANSF
U/C	UNDER
W	WALL
WD	WOOD
W.E.	WATER
TR	TRAILER

This map compiled by pho
from aerial photograp
Vertical datum base
Contour inte
Grid based on Flor
Coordinate System Ea
Air Survey Corp. Pro

Dashed contours indica
partially obscured by v
These areas may not m
and require field testin

This mapping has been comp
procedures that have been a
the National Standard For Spa
for a target horizontal mappin
and a specified contour inte

AIR SU

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This ma
AIR
45180 B
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20

0 100 200 300

SCALE: 1"=100'

CONTROL L

AERIAL TARGET	STATE PLANE COORDINATES	LOC COOR
AT201	N 2144294.71	N
	E 325044.29	E
AT209	N 2144288.02	N
	E 325844.26	E
AT221	N 2144277.99	N
	E 327044.22	E
AT214 (DESTR.)	N 2142430.48	N
	E 326359.40	E
AT227	N 2142397.21	N
	E 327702.30	E
AT242	N 2144109.96	N
	E 329209.20	E
AT215	N 2141533.10	N
	E 326421.25	E
AT299	N 2142546.44	N
	E 324829.60	E
AT301	N 2137256.54	N
	E 324691.37	E
AT302	N 2138532.38	N
	E 324741.92	E
AT303	N 2138535.06	N
	E 326601.46	E
AT304	N 2137403.98	N
	E 326561.89	E

DIGITAL MAPPING ASSOC

THIS MAP AND ATTACHED TRAIL RIDGE LANDFILL AND RECYCLING CENTER R
ARE NOT FULL AND COMPLETE WITHOUT THE OTHER AND ARE NOT VAL
THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURV

REV	DATE	DESCRIPTION

PROJECT NO	
DATE	
DES BY	
DRN BY	
CHK BY	
APP BY	

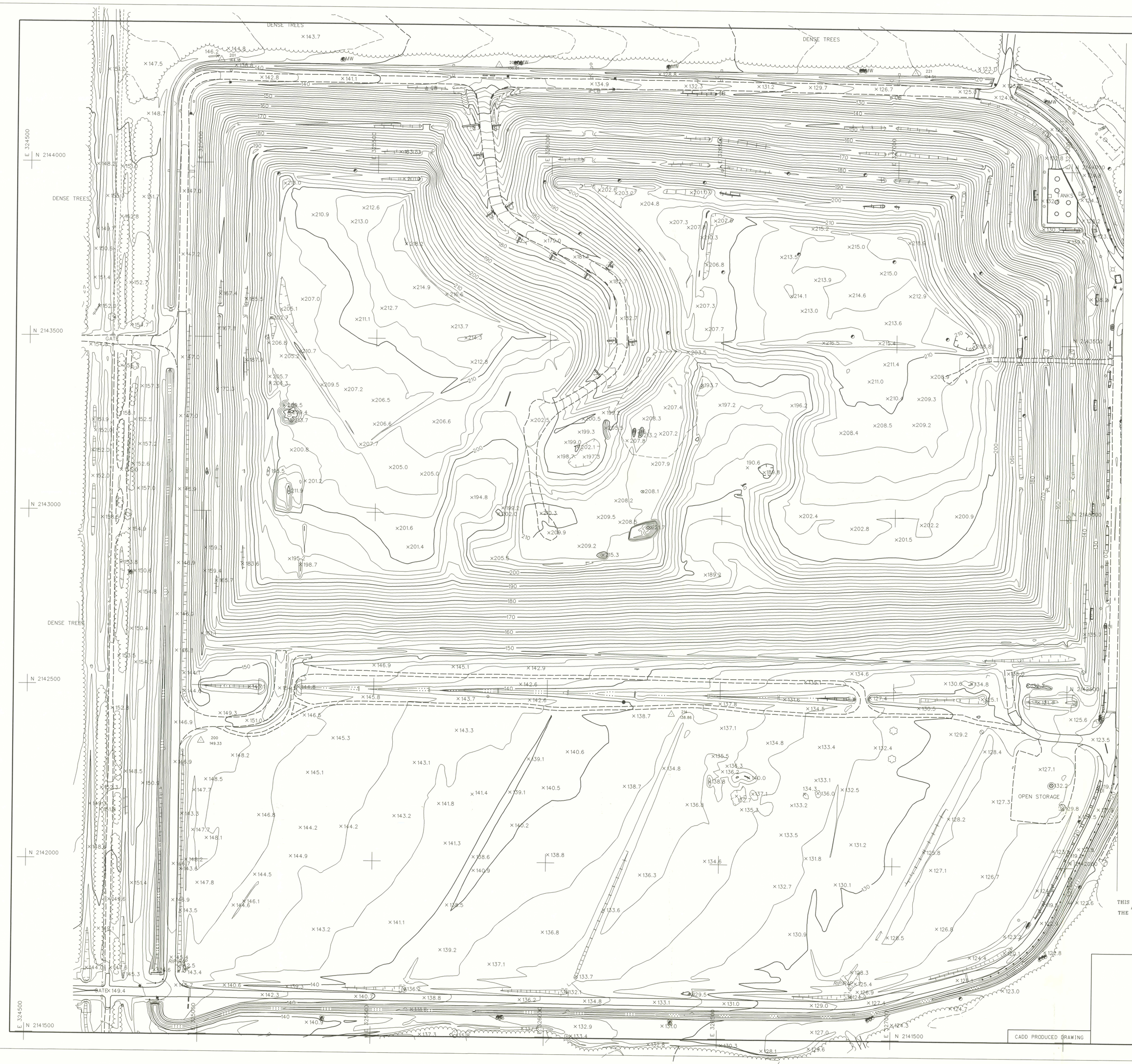
TRAIL R

WM
Trail Ridge Landfill, Inc.

CADD PRODUCED DRAWING

FILE NAME: ##########################
PLOT DATE: ## ### ### ####

REFERENCE FILES: R1- TITLE.DGN LV=1-63
R2- DGN LV=
R3- DGN LV=
R4- DGN LV=
R5- DGN LV=
R6- DGN LV=
R7- DGN LV=
R8- DGN LV=



LEGEND

BRUSHLINE	POST
CABLE MARKER	RAILROAD TRACKS
CATCH BASIN	SIGN
DROP INLET	SWAMP
FENCE	TRAFFIC LIGHT
FIRE HYDRANT	TRANSMISSION POLE
GUARD RAIL	TREE
LIGHT POLE	TREELINE
MISCELLANEOUS POLE	UNIDENTIFIED OBJECT
MONITORING WELL	UTILITY POLE
MONUMENT	VALVE
BUILDING	WATER LINE
PAVED ROAD	TRAIL
DIRT ROAD	INTERMEDIATE CONTOUR
× 100.0 SPOT ELEVATION	INDEX CONTOUR
SIDEWALK	DEPRESSION CONTOUR

ABBREVIATIONS

A.ASPH	ASPHALT
A/C	AIR CONDITIONER
BR	BRICK
CB	CATCH BASIN
C.CONC	CONCRETE
DI	DROP INLET
HDWL	HEAD WALL
MC	METAL COVER
MH	MANHOLE
TRANS	TRANSFORMER
U/C	UNDER CONSTRUCTION
W	WALL
WD	WOOD
W.E.	WATER ELEVATION
TR	TRAILER

This map compiled by photogrammetric methods from aerial photography dated 1-21-2000. Vertical datum based on NGS Mean Sea Level. Contour interval 2 ft. Grid based on Florida State Plane Coordinate System East Zone NAD 1983. Air Survey Corp. Project NO. 71000112.

Dashed contours indicate that ground is partially obscured by vegetation or shadows. These areas may not meet standard accuracy and require field testing\completion.

This mapping has been compiled in accordance with procedures that have been demonstrated to comply with the National Standard For Spatial Data Accuracy (NSSDA), for a target horizontal mapping scale of 1 inch = 100 feet and a specified contour interval of 2 feet.

0 100 200 300 400 500

SCALE: 1"=100'

CONTROL LEGEND

AERIAL TARGET	STATE PLANE COORDINATES	LOCAL GRID COORDINATES	ELEVATION
AT201	N 2144294.71 E 325044.29	N 100+50 E 101+00	144.18
AT209	N 2144288.02 E 325844.26	N 100+50 E 109+00	136.81
AT221	N 2144277.99 E 327044.22	N 100+50 E 121+00	124.51
AT200	N 2142340.14 E 325002.52	N 80+95.15 E 100+74.57	149.33
AT214	N 2142430.48 E 326359.40	N 81+96.83 E 114+30.65	138.86
AT227	N 2142397.21 E 327702.30	N 81+74.79 E 127+[illegible]	122.69
AT242	N 2144109.96 E 329209.20	N 99+[illegible] E 142+66.32	[illegible]

RECEIVED
APR 21 2000
STATE OF FLORIDA
DEPT. OF ENV. PROTECTION
NORTHEAST DISTRICT-JAX

DIGITAL MAPPING ASSOCIATES, INC.

THIS MAP AND ATTACHED TRAIL RIDGE LANDFILL AND RECYCLING CENTER REPORT OF SURVEY ARE NOT FULL AND COMPLETE WITHOUT THE OTHER AND ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

REV	DATE	DESCRIPTION	DES BY	APP BY

PROJECT NO
DATE
DES BY
DRN BY
CHK BY
APP BY

TRAIL RIDGE LANDFILL

Trail Ridge, Inc.

SHEET 1 OF 2
DRAWING NO

CADD PRODUCED DRAWING

FILE NAME: [illegible]
LATEST REVISION: [illegible]

REFERENCE FILES: R1>..... TITLE DGN LV=1-63
R2>..... DGN LV=
R3>..... DGN LV=
R4>..... DGN LV=
R5>..... DGN LV=
R6>..... DGN LV=
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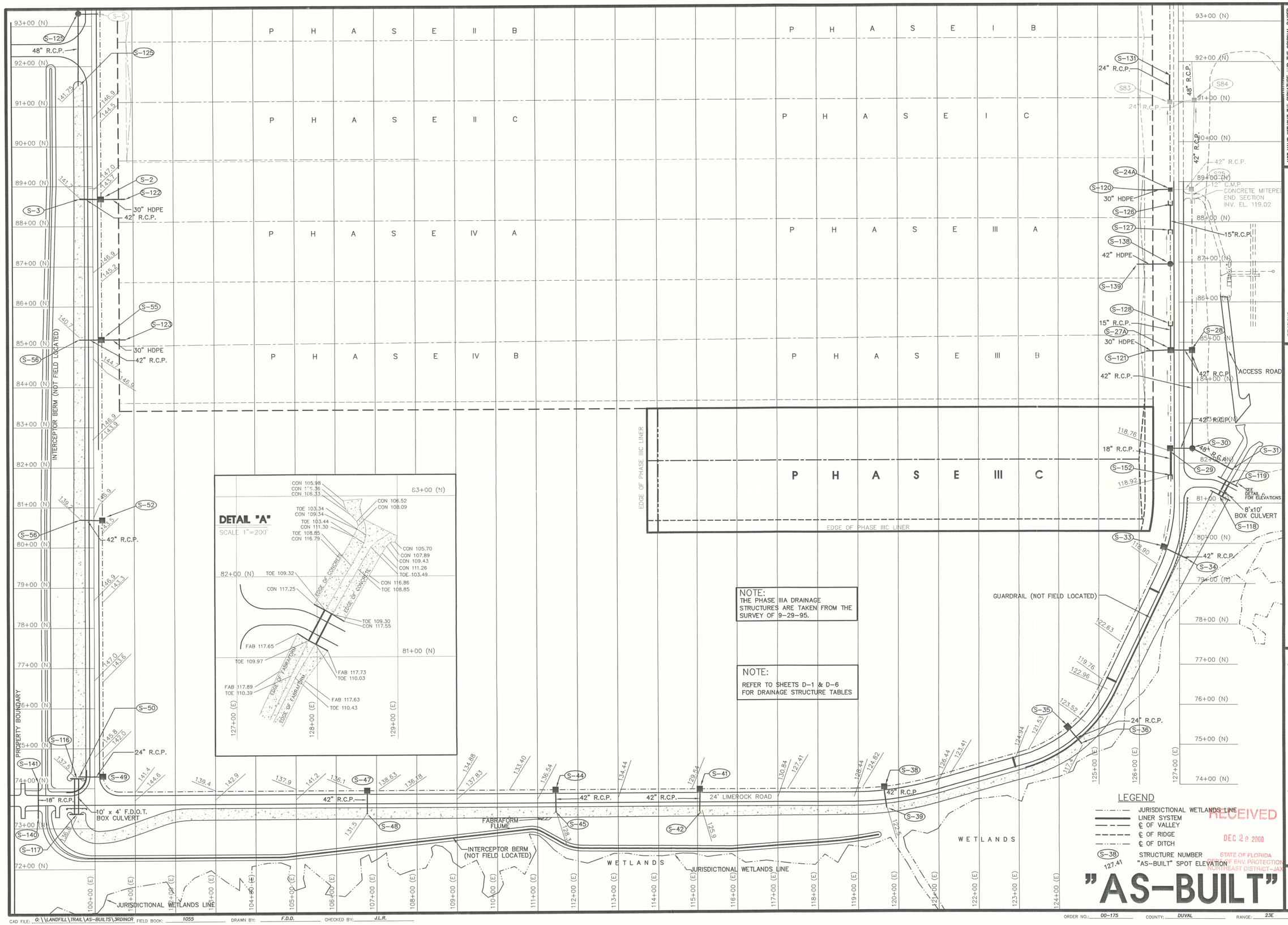


NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

JOSEPH LESLIE REYNOLDS, III
PROFESSIONAL SURVEYOR AND MAPPER
STATE of FLORIDA LS No. 5317

REVISIONS:
12/16/96 ADDED DRAINAGE STRUCTURES FOR PHASES IIIB, IVA, IVB.
12/20/00 ADDED DRAINAGE STRUCTURE S-152 FOR PHASE IIIC.

DRAINAGE STRUCTURE PHASE IIIC

TRAIL RIDGE LANDFILL
FOR TRAIL RIDGE LANDFILL, INC. AND CITY OF JACKSONVILLE

(FORMERLY SUNSHINE STATE SURVEYORS)

Robert M. Angas Associates, inc.
LAND SURVEYORS, PLANNERS AND CIVIL ENGINEERS
14775 St. Augustine Road, Jacksonville, FL. 32258
Telephone: (904) 642-8550 Fax: (904) 642-4165
Certificate of Authorization No.: LB 3624

SHEET D-5

CAD FILE: G:\LANDFILL\TRAIL\AS-BUILTS\3RDINCR FIELD BOOK: 1055 DRAWN BY: F.D.D. CHECKED BY: J.L.R.

ORDER NO.: 00-175 COUNTY: DUVAL RANGE: 23E FILE NO.: 115F-20

DRAINAGE STRUCTURE TABLE

STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP EL.	SLOT EL.	INVERT ELEVATION	STATION
S-2	MOD. FDOT TYPE "E" INLET (DETAIL B)	146.50	143.76 (N&S)	141.26 (30" HDPE E) 141.26 (42" R.C.P. W)	88+67.00 (N) 100+21.00 (E)
S-3	CONST. MITERED END INTO DITCH PAVING	–	–	141.26 (42" R.C.P. E)	88+67.00 (N) 99+68.00 (E)
S-24A	MOD. FDOT TYPE "E" INLET (DETAIL A)	121.50	118.76 (N&S)	116.87 (30" HDPE W) 116.87 (42" R.C.P. E)	88+80.00 (N) 126+78.77 (E)
S-27	MOD. FDOT TYPE "E" INLET (DETAIL A)	121.50	118.76 (S)	115.26 (30" HDPE W) 115.26 (42" R.C.P. E) 118.76 (15" R.C.P. N)	84+80.00 (N) 126+78.77 (E)
S-28	FDOT TYPE "E" INLET W/ 7' TYPE J BOTTOM (ALTERNATE A)	121.50	119.50 (N&S)	115.26 (42" R.C.P. W) 113.00 (42" R.C.P. S)	84+80.00 (N) 127+32.27 (E)
S-29	FDOT TYPE "E" INLET	121.50	118.76 (N&S)	116.26 (42" R.C.P. E) 116.26 (42" C.M.P. W)	82+37.00 (N) 126+77.27 (E)
S-30	FDOT TYPE "E" INLET W/ 7' TYPE J BOTTOM (ALTERNATE A)	121.50	120.00 (S)	116.26 (42" R.C.P. W) 110.96 (42" R.C.P. N) 110.46 (48" R.C.P. SE)	82+37.00 (N) 127+32.27 (E)
S-31	CONST. 48" MITERED END INTO DITCH PAVING	–	–	109.10 (48" R.C.P. NW)	81+84.60 (N) 128+30.89 (E)
S-33	MOD. FDOT TYPE "E" INLET (DETAIL A)	121.75	118.76 (N&S)	115.00 (FUTURE 30" HDPE NW) 111.85 (42" R.C.P. SE)	79+91.26 (N) 126+60.49 (E)
S-34	CONST. MITERED END INTO DITCH PAVING	–	–	111.85 (42" R.C.P. NW)	79+61.92 (N) 127+19.07 (E)
S-35	FDOT TYPE "E" INLET	123.00	120.48 (SW)	117.20 (24" R.C.P. SE)	75+43.59 (N) 124+21.39 (E)
S-36	CONST. MITERED END INTO DITCH PAVING	–	–	117.20 (24" R.C.P. NW)	75+01.85 (N) 124+56.65 (E)
S-38	MOD. FDOT TYPE "E" INLET (DETAIL B) (SEE DETAIL S-38)	126.80	124.26 (W)	122.36 (FUTURE 30" HDPE N) 122.36 (42" R.C.P. S)	73+95.00 (N) 119+64.40 (E)
S-39	CONST. MITERED END INTO DITCH PAVING	–	–	122.36 (42" R.C.P. N)	73+43.30 (N) 119+70.00 (E)
S-41	MOD. FDOT TYPE "E" INLET (DETAIL B)	132.00	129.31 (W)	125.80 (FUTURE 30" HDPE N) 125.80 (42" R.C.P. S)	73+91.00 (N) 115+06.00 (E)
S-42	CONST. MITERED END INTO DITCH PAVING	–	–	125.80 (42" R.C.P. N)	73+36.09 (N) 115+06.00 (E)
S-44	MOD. FDOT TYPE "E" INLET (DETAIL B) (SEE DETAIL S-44)	135.00	132.30 (W)	128.27 (FUTURE 30" HDPE N) 128.27 (42" R.C.P. S)	73+91.00 (N) 111+45.00 (E)
S-45	CONST. MITERED END INTO DITCH PAVING	–	–	128.27 (42" R.C.P. N)	73+34.65 (N) 111+45.00 (E)
S-47	MOD. FDOT TYPE "E" INLET (DETAIL B) (SEE DETAIL S-47)	139.00	136.35 (W)	131.46 (FUTURE 30" HDPE N) 131.46 (42" R.C.P. S)	73+91.00 (N) 106+77.00 (E)
S-48	CONST. MITERED END INTO DITCH PAVING	–	–	131.46 (42" R.C.P. N)	73+33.35 (N) 106+76.98 (E)
S-49	FDOT TYPE "E" INLET (SEE DETAIL S-47)	145.00	142.36 (N)	136.73 (24" R.C.P. W)	74+30.00 (N) 100+21.00 (E)
S-50	CONST. MITERED END INTO DITCH PAVING	–	–	136.73 (24" R.C.P. E)	74+30.00 (N) 99+60.00 (E)

DRAINAGE STRUCTURE TABLE

STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP EL.	SLOT EL.	INVERT ELEVATION	STATION
S-52	MOD. FDOT TYPE "E" INLET (DETAIL B)	146.50	143.76 (N&S)	138.74 (FUTURE 30" HDPE E) 138.74 (42" R.C.P. W)	80+68.00 (N) 100+21.00 (E)
S-53	CONST. MITERED END INTO DITCH PAVING	–	–	138.74 (42" R.C.P. E)	80+68.00 (N) 99+63.00 (E)
S-55	MOD. FDOT TYPE "E" INLET (DETAIL B)	146.50	143.76 (N&S)	140.13 (30" HDPE E) 140.13 (42" R.C.P. W)	85+17.00 (N) 100+21.00 (E)
S-56	CONST. MITERED END INTO DITCH PAVING	–	–	140.13 (42" R.C.P. E)	85+17.00 (N) 99+65.74 (E)
S-105	J-1-C MANHOLE	127.50	–	118.76 (42" C.M.P. W) 118.76 (42" C.M.P. S)	89+94.61 (N) 126+78.77 (E)
S-106	42" C.M.P.	–	–	135.00 (42" C.M.P. E)	89+94.61 (N) 126+00.00 (E)
S-107	36" C.M.P.	–	–	145.50 (36" C.M.P. S)	89+71.00 (N) 113+27.50 (E)
S-108	36" C.M.P.	–	–	145.50 (36" C.M.P. N)	89+35.00 (N) 113+27.50 (E)
S-109	42" C.M.P.	–	–	135.10 (42" C.M.P. S)	83+35.00 (N) 113+27.50 (E)
S-110	42" C.M.P.	–	–	135.00 (42" C.M.P. N)	82+55.00 (N) 113+27.50 (E)
S-111	18" C.M.P.	–	–	143.70 (18" C.M.P. E)	82+52.50 (N) 102+37.50 (E)
S-112	18" C.M.P.	–	–	142.70 (18" C.M.P. W)	82+52.50 (N) 103+61.00 (E)
S-113	42" C.M.P.	–	–	123.80 (42" C.M.P. E)	82+52.50 (N) 123+39.00 (E)
S-114	42" C.M.P.	–	–	122.40 (42" C.M.P. W)	82+52.50 (N) 124+62.50 (E)
S-115	42" C.M.P.	–	–	121.00 (42" C.M.P. E)	82+52.50 (N) 125+87.00 (E)
S-116	10' X 4' FDOT BOX CULVERT WITH 5.75' X 46' ENDWALL	–	–	136.71	74+24.15 (N) 99+55.00 (E)
S-117	10' X 4' FDOT BOX CULVERT WITH 5.75' X 46' ENDWALL	–	–	136.42	73+36.15 (N) 99+55.00 (E)
S-118	10' X 8' BOX CULVERT BOX CULVERT WITH 9.75' X 54' ENDWALL	–	–	110.00	81+18.72 (N) 128+01.47 (E)
S-119	10' X 8' BOX CULVERT BOX CULVERT WITH 9.75' X 54' ENDWALL	–	–	109.30	81+54.02 (N) 128+20.27 (E)
S-120	30" HDPE PIPE	–	–	134.28 (30" HDPE E)	88+80.00 (N) 126+19.57 (E)
S-121	30" HDPE PIPE	–	–	134.28 (30" HDPE E)	84+80.00 (N) 126+19.57 (E)
S-122	30" HDPE PIPE	–	–	159.00 (30" HDPE W)	88+67.00 (N) 100+79.40

DRAINAGE STRUCTURE TABLE

STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP EL.	SLOT EL.	INVERT ELEVATION	STATION
S-123	30" HDPE PIPE	–	–	159.00 (30" HDPE W)	85+17.00 (N) 100+79.40 (E)
S-124	J-1-D MANHOLE	146.50	–	141.42 EXIST 42" C.M.P 141.42 (48" R.C.P. S)	93+31.00 (N) 99+67.00 (E)
S-125	CONST. MITERED END INTO DITCH PAVING	–	–	141.30 (48" R.C.P. N)	91+49.00 (N) 99+67.00 (E)
S-126	15" FDOT MITERED END SECTION	–	–	118.80 (15" R.C.P. S)	88+40.50 (N) 126+78.77 (E)
S-127	15" FDOT MITERED END SECTION	–	–	119.00 (15" R.C.P. N)	87+79.50 (N) 126+78.77 (E)
S-128	15" FDOT MITERED END SECTION	–	–	119.00 (15" R.C.P. N)	85+40.50 (N) 126+78.77 (E)
*S-129	QUADRUPLE 54" R.C.P.s W/ CITY STANDARD ENDWALL	–	–	140.50 (54" R.C.P.s)	*
*S-130	QUADRUPLE 54" R.C.P.s W/ CITY STANDARD ENDWALL	–	–	140.50 (54" R.C.P.s)	*
S-131	15" FDOT MITERED END SECTION	–	–	118.75 (15" R.C.P. S)	91+60.00 (N) 126+78.77 (E)
S-132	15" FDOT MITERED END SECTION	–	–	118.40 (15" R.C.P. S)	94+40.00 (N) 126+78.77 (E)
S-133	15" FDOT MITERED END SECTION	–	–	118.15 (15" R.C.P. N)	93+80.00 (N) 126+78.77 (E)
S-134	30" HDPE PIPE	–	–	184.00 (30" HDPE S)	113+27.50 (N) 91+20.58 (E)
S-135	30" HDPE PIPE	–	–	145.7 (30" HDPE N)	113+27.50 (N) 89+75.00 (E)
S-136	30" HDPE PIPE	–	–	171.80 (30" HDPE S)	124+95.15 (N) 91+20.58 (E)
S-137	30" HDPE PIPE	–	–	135.00 (30" HDPE N)	125+96.46 (N) 89+95.62 (E)
S-138	J-1-C MANHOLE	127.50	–	118.76 (42" C.M.P. W) 118.76 (42" C.M.P. S)	86+94.61 (N) 126+78.77 (E)
S-139	42" C.M.P.	–	–	135.00 (42" C.M.P. E)	86+94.61 (N) 126+00.00 (E)
S-140	18" FDOT MITERED END SECTION	–	–	144.40 (18" R.C.P. N)	73+34.00 (N) 98+60.00 (E)
S-141	18" FDOT MITERED END SECTION	–	–	144.80 (18" R.C.P. S)	74+06.00 (N) 98+60.00 (E)
*S-142	DOUBLE 36" R.C.P.	–	–	144.40 (36" R.C.P.s N)	*
*S-143	DOUBLE 36" R.C.P.	–	–	144.60 (36" R.C.P.s S)	*

AS-BUILT STORM DRAINAGE DATA FOR PHASE IIIA

STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP ELEVATION		SLOT ELEVATION		INVERT ELEVATION		STATION	
		DESIGN	ASBUILT	DESIGN	ASBUILT	DESIGN	ASBUILT	DESIGN	ASBUILT
S-27	MOD. FDOT TYPE "E" INLET (DETAIL A)	121.50	121.48	118.76 (S)	118.65 (S)	115.26 (30" HDPE W) 115.26 (42" R.C.P. E) 118.76 (15" R.C.P. N)	FUTURE 30" HDPE W 115.23 (42" R.C.P. E) 118.58 (15" R.C.P. N)	84+80.00 (N) 126+78.77 (E)	84+80.18 (N) 126+78.01 (E)
S-28	FDOT TYPE "E" INLET W/ 7' TYPE J BOTTOM (ALTERNATE A)	121.50	121.57	119.50 (N&S)	119.48 (N&S)	115.26 (42" R.C.P. W) 113.00 (42" R.C.P. S)	115.17 (42" R.C.P. W) 112.90 (42" R.C.P. S)	84+80.00 (N) 127+32.27 (E)	84+81.14 (N) 127+33.57 (E)
S-29	FDOT TYPE "E" INLET	121.50	121.52	118.76 (N&S)	118.77(N&S)	116.26 (42" R.C.P. E) 116.26 (42" C.M.P. W)	116.46 (42" R.C.P. E) 116.50 (42" C.M.P. W)	82+37.00 (N) 126+77.27 (E)	82+37.03 (N) 126+76.89 (E)
S-30	FDOT TYPE "E" INLET W/ 7' TYPE J BOTTOM (ALTERNATE A)	121.50	121.53	120.00 (S)	120.09 (S)	116.26 (42" R.C.P. W) 110.96 (42" R.C.P. N) 110.46 (48" R.C.P. SE)	115.80 (42" R.C.P. W) 110.85 (42" R.C.P. N) 110.50 (48" R.C.P. SE)	82+37.00 (N) 127+32.27 (E)	82+45.61 (N) 127+32.12 (E)
S-31	CONST. 48" MITERED END INTO DITCH PAVING	——	——	——	——	109.10 (48"R.C.P. NW)	108.92 (48"R.C.P. NW)	81+84.60 (N) 128+30.89 (E)	81+84.78 (N) 128+31.13 (E)
S-33	MOD. FDOT TYPE "E" INLET (DETAIL A)	121.75	121.74	118.76 (N&S)	118.68 (N) 118.66 (S)	115.00 (30" HDPE NW) 111.85 (42" R.C.P. SE)	FUTURE 30" HDPE NW 111.96 (42" R.C.P. SE)	79+91.26 (N) 126+60.49 (E)	80+03.41 (N) 126+65.38 (E)
S-34	CONST. MITERED END INTO DITCH PAVING	——	——	——	——	111.85 (42" R.C.P. NW)	111.94 (42" R.C.P. NW)	79+61.92 (N) 127+19.07 (E)	79+63.30 (N) 127+17.66 (E)
S-111	18" C.M.P.	——	——	——	——	143.70 (18" C.M.P. E)	143.64 (18" C.M.P. E)	82+52.50 (N) 102+37.50 (E)	82+51.82 (N) 102+37.63 (E)
S-112	18" C.M.P.	——	——	——	——	142.70 (18" C.M.P. W)	142.64 (18" C.M.P. W)	82+52.50 (N) 103+61.00 (E)	82+52.54 (N) 103+62.61 (E)
S-113	42" C.M.P.	——	——	——	——	123.80 (42" C.M.P. E)	123.76 (42" C.M.P. E)	82+52.50 (N) 123+39.00 (E)	82+52.55 (N) 123+38.09 (E)
S-114	42" C.M.P.	——	——	——	——	122.40 (42" C.M.P. W)	122.32 (42" C.M.P. W)	82+52.50 (N) 124+62.50 (E)	82+52.65 (N) 124+62.44 (E)
S-115	42" C.M.P.	——	——	——	——	121.00 (42" C.M.P. E)	120.95 (42" C.M.P. E)	82+52.50 (N) 125+87.00 (E)	82+52.57 (N) 125+87.11 (E)
S-118	10' X 8' BOX CULVERT BOX CULVERT WITH 9.75' X 54' ENDWALL	——	——	——	——	110.00	110.07	81+18.72 (N) 128+01.47 (E)	81+18.84 (N) 128+01.15 (E)
S-119	10' X 8' BOX CULVERT BOX CULVERT WITH 9.75' X 54' ENDWALL	——	——	——	——	109.30	109.36	81+54.02 (N) 128+20.27 (E)	81+54.88 (N) 128+21.85 (E)
S-126	15" FDOT MITERED END SECTION	——	——	——	——	118.80 (15" R.C.P. S)	118.77 (15" R.C.P. S)	88+40.50 (N) 126+78.77 (E)	88+46.74 (N) 126+79.37 (E)
S-127	15" FDOT MITERED END SECTION	——	——	——	——	119.00 (15" R.C.P. N)	118.94 (15" R.C.P. N)	87+79.50 (N) 126+78.77 (E)	87+67.18 (N) 126+79.47 (E)
S-128	15" FDOT MITERED END SECTION	——	——	——	——	119.00 (15" R.C.P. N)	118.89 (15" R.C.P. N)	85+40.50 (N) 126+78.77 (E)	85+54.74 (N) 126+78.47 (E)

AS-BUILT DRAINAGE STRUCTURE TABLE

STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP ELEVATION		SLOT ELEVATION		INVERT ELEVATION		STATION	
		DESIGN	ASBUILT	DESIGN	ASBUILT	DESIGN	ASBUILT	DESIGN	ASBUILT
S-2	MOD. FDOT TYPE "E" INLET (DETAIL B)	146.50	146.68	143.76 (N&S)	143.89 (N&S)	141.26 (30" HDPE E) 141.26 (42" R.C.P. W)	141.26 (42" R.C.P. W)	88+67.00 (N) 100+21.00 (E)	88+67.08 (N) 100+20.66 (E)
S-3	CONST. MITERED END INTO DITCH PAVING	–	–	–	–	141.26 (42" R.C.P. E)	141.37 (42" R.C.P. E)	88+67.00 (N) 99+68.00 (E)	88+68.68 (N) 99+68.45 (E)
S-24A	MOD. FDOT TYPE "E" INLET (DETAIL A)	121.50	121.45	118.76 (N&S)	118.71 (N) 118.67 (S)	116.87 (30" HDPE W) 116.87 (42" R.C.P. E)	116.78 (30" HDPE W) 116.78 (42" R.C.P. E)	88+80.00 (N) 126+78.77 (E)	15701.7482 (N) 22530.5721 (E)
S-35	FDOT TYPE "E" INLET	123.00	122.83	120.48 (SW)	120.81 (SW)	117.20 (24" R.C.P. SE)	117.19 (24" R.C.P. SE)	75+43.59 (N) 124+21.39 (E)	75+47.14 (N) 12418.7858 (E)
S-38	CONST. MITERED END INTO DITCH PAVING	–	–	–	–	117.20 (24" R.C.P. NW)	117.26 (24" R.C.P. NW)	75+01.85 (N) 124+56.65 (E)	75+01.83 (N) 12456.4795(E)
S-38	MOD. FDOT TYPE "E" INLET (DETAIL B) (SEE DETAIL S-38)	126.80	127.04	124.26 (W)	124.39 (W)	122.36 (FUTURE 30" HDPE N) 122.36 (42" R.C.P. S)	122.31 (42" R.C.P. S)	73+95.00 (N) 119+64.40 (E)	73+94.27 (N) 119+62.94 (E)
S-39	CONST. MITERED END INTO DITCH PAVING	–	–	–	–	122.36 (42" R.C.P. N)	122.46 (42" R.C.P. N)	73+43.30 (N) 119+70.00 (E)	73+42.84 (N) 119+70.35 (E)
S-41	MOD. FDOT TYPE "E" INLET (DETAIL B)	132.00	132.19	129.31 (W)	129.57 (W)	125.80 (FUTURE 30" HDPE N) 125.80 (42" R.C.P. S)	125.59 (42" R.C.P. S)	73+91.00 (N) 115+06.00 (E)	73+91.32 (N) 115+06.72 (E)
S-42	CONST. MITERED END INTO DITCH PAVING	–	–	–	–	125.80 (42" R.C.P. N)	125.65 (42" R.C.P. N)	73+36.09 (N) 115+06.00 (E)	73+35.39 (N) 115+05.96 (E)
S-44	MOD. FDOT TYPE "E" INLET (DETAIL B) (SEE DETAIL S-44)	135.00	135.34	132.30 (W)	132.49 (W)	128.27 (FUTURE 30" HDPE N) 128.27 (42" R.C.P. S)	128.22 (42" R.C.P. S)	73+91.00 (N) 111+45.00 (E)	73+91.04 (N) 111+45.22 (E)
S-45	CONST. MITERED END INTO DITCH PAVING	–	–	–	–	128.27 (42" R.C.P. N)	128.33 (42" R.C.P. N)	73+34.65 (N) 111+45.00 (E)	73+34.77 (N) 111+45.64 (E)
S-47	MOD. FDOT TYPE "E" INLET (DETAIL B) (SEE DETAIL S-47)	139.00	139.07	136.35 (W)	136.42 (W)	131.46 (FUTURE 30" HDPE N) 131.46 (42" R.C.P. S)	130.73 (42" R.C.P. S)	73+91.00 (N) 106+77.00 (E)	73+90.52 (N) 106+77.11 (E)
S-48	CONST. MITERED END INTO DITCH PAVING	–	–	–	–	131.46 (42" R.C.P. N)	131.54 (42" R.C.P. N)	73+33.35 (N) 106+77.00 (E)	73+33.46 (N) 106+76.98 (E)
S-49	FDOT TYPE "E" INLET (SEE DETAIL S-47)	145.00	145.02	142.36 (N)	142.41 (N)	136.73 (24" R.C.P. W)	138.09 (24" R.C.P. W) BOTTOM OF BOX	74+30.00 (N) 100+21.00 (E)	74+29.17 (N) 100+20.10 (E)
S-50	CONST. MITERED END INTO DITCH PAVING	–	–	–	–	136.73 (24" R.C.P. E)	136.74 (24" R.C.P. E)	74+30.00 (N) 99+60.00 (E)	74+29.62 (N) 99+60.39 (E)
S-52	MOD. FDOT TYPE "E" INLET (DETAIL B)	146.50	146.59	143.76 (N&S)	143.83 (N) 143.80 (S)	138.74 (FUTURE 30" HDPE E) 138.74 (42" R.C.P. W)	138.13 (42" R.C.P. W)	80+68.00 (N) 100+21.00 (E)	80+67.27 (N) 100+20.68 (E)
S-53	CONST. MITERED END INTO DITCH PAVING	–	–	–	–	138.74 (42" R.C.P. E)	138.70 (42" R.C.P. E)	80+68.00 (N) 99+63.00 (E)	80+69.06 (N) 99+64.43 (E)

AS-BUILT DRAINAGE STRUCTURE TABLE

STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP ELEVATION		SLOT ELEVATION		ELEVATION		STATION	
		DESIGN	ASBUILT	DESIGN	ASBUILT	DESIGN	ASBUILT	DESIGN	ASBUILT
S-55	MOD. FDOT TYPE "E" INLET (DETAIL B)	146.50	146.56	143.76 (N&S)	143.82 (N) 143.96 (S)	140.13 (30" HDPE E) 140.13 (42" R.C.P. W)	140.28 (42" R.C.P. W)	85+17.00 (N) 100+21.00 (E)	85+17.28 (N) 100+20.49 (E)
S-56	CONST. MITERED END INTO DITCH PAVING	–	–	–	–	140.13 (42" R.C.P. E)	140.32 (42" R.C.P. E)	85+17.00 (N) 99+65.74 (E)	85+19.10 (N) 99+66.77 (E)
S-116	10' X 4' FDOT BOX CULVERT WITH 5.75' X 46' ENDWALL	–	142.50	–	–	136.71	136.94	74+24.15 (N) 99+55.00 (E)	74+24.71 (N) 99+56.57 (E)
S-117	10' X 4' FDOT BOX CULVERT WITH 5.75' X 46' ENDWALL	–	142.22	–	–	136.42	136.36	73+36.15 (N) 99+55.00 (E)	73+35.68 (N) 99+54.78 (E)
S-121	30" HDPE PIPE	–	–	–	–	134.28 (30" HDPE E)	133.02 (30" HDPE E)	84+80.00 (N) 126+19.57 (E)	99+19.43 (N) 126+40.93 (E)
S-122	30" HDPE PIPE	–	–	–	–	159.00 (30" HDPE W)	159.00 (30" HDPE W)	88+67.00 (N) 100+79.40 (E)	88+67.66 (N) 100+79.89 (E)
S-123	30" HDPE PIPE	–	–	–	–	159.00 (30" HDPE W)	159.00 (30" HDPE W)	85+17.00 (N) 100+79.40 (E)	85+17.43 (N) 100+79.76 (E)
S-124	J-1-D MANHOLE	146.50	147.31 N. RIM	–	–	141.42 EXIST 42" C.M.P. 141.42 (48" R.C.P. S)	141.51 (48" R.C.P. S)	93+31.00 (N) 99+67.00 (E)	93+29.96 (N) 99+66.74 (E)
S-125	CONST. MITERED END INTO DITCH PAVING	–	–	–	–	141.30 (48" R.C.P. N)	141.21 (48" R.C.P. N)	91+49.00 (N) 99+67.00 (E)	91+51.62 (N) 99+68.37 (E)
S-128	15" FDOT MITERED END SECTION	–	–	–	–	119.00 (15" R.C.P. N)	118.89 (15" R.C.P. N)	85+40.50 (N) 126+78.77 (E)	88+53.85 (N) 127+77.67 (E)
S-131	15" FDOT MITERED END SECTION	–		–	–	118.75 (15" R.C.P. S)	118.01 (15" R.C.P. S)	91+60.00 (N) 126+78.77 (E)	91+65.87 (N) 129+78.61 (E)
S-132	15" FDOT MITERED END SECTION	–	–	–	–	118.40 (15" R.C.P. S)	119.40 (15" R.C.P. S)	94+40.00 (N) 126+78.77 (E)	9444.4448 (N) 127+07.76 (E)
S-133	15" FDOT MITERED END SECTION					118.15 (15" R.C.P. N)	119.34 (15" R.C.P. N)	93+80.00 (N) 126+78.77 (E)	93+78.63 (N) 126+83.56 (E)
S-138	J-1-C MANHOLE	127.50		–	–	118.76 (42" C.M.P. W) 118.76 (42" C.M.P. S)	119.54 (42" C.M.P. S)	86+94.61 (N) 126+78.77 (E)	97+02.72 (N) 127+81.43 (E)
S-139	42" C.M.P.	–	–	–	–	135.00 (42" C.M.P. E)	135.29 (42" C.M.P. E)	86+94.61 (N) 126+00.00 (E)	97+05.29 (N) 128+64.01 (E)

AS-BUILT STORM DRAINAGE DATA FOR PHASE IIIC

STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP ELEVATION		SLOT ELEVATION		INVERT ELEVATION		STATION	
		DESIGN	ASBUILT	DESIGN	ASBUILT	DESIGN	ASBUILT	DESIGN	ASBUILT
S-152	18" FDOT MITERED END SECTION	–	–	–	–	118.9 (18" R.C.P.)	118.9 (18" R.C.P.)	81+70.62 (N) 126+78.77 (E)	81+70.63 (N) 126+78.48 (E)

"AS-BUILT"

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

JOSEPH LESLIE REYNOLDS, III
PROFESSIONAL SURVEYOR AND MAPPER
STATE of FLORIDA LS No. 5517

REVISIONS:
12/16/96 ADDED DRAINAGE STRUCTURES FOR PHASES IIIB, IVA AND IVB.
12/20/00 ADDED DRAINAGE STRUCTURE DATA FOR PHASE IIIC.

DRAINAGE STRUCTURE TABLES
PHASES IIIA, IIIB, IVA, IVB AND IIIC

TRAIL RIDGE LANDFILL
FOR TRAIL RIDGE LANDFILL, INC. AND
CITY OF JACKSONVILLE

(FORMERLY SUNSHINE STATE SURVEYORS)
Robert M. Angas Associates, inc.
LAND SURVEYORS, PLANNERS AND CIVIL ENGINEERS
SINCE 1924
14775 St. Augustine Road, Jacksonville, FL. 32258
Telephone: (904) 642-8550 Fax: (904) 642-4165
Certificate of Authorization No.: LB 3624

SHEET D-6

CAD FILE: G:\\LANDFILL\TRAIL\AS-BUILTS\3RDINCR FIELD BOOK: 1055 DRAWN BY: F.D.D. CHECKED BY: J.L.R.

ORDER NO.: 00-175 COUNTY: DUVAL RANGE: 23E FILE NO.: 115F-20

TRAIL RIDGE LANDFILL, INC.

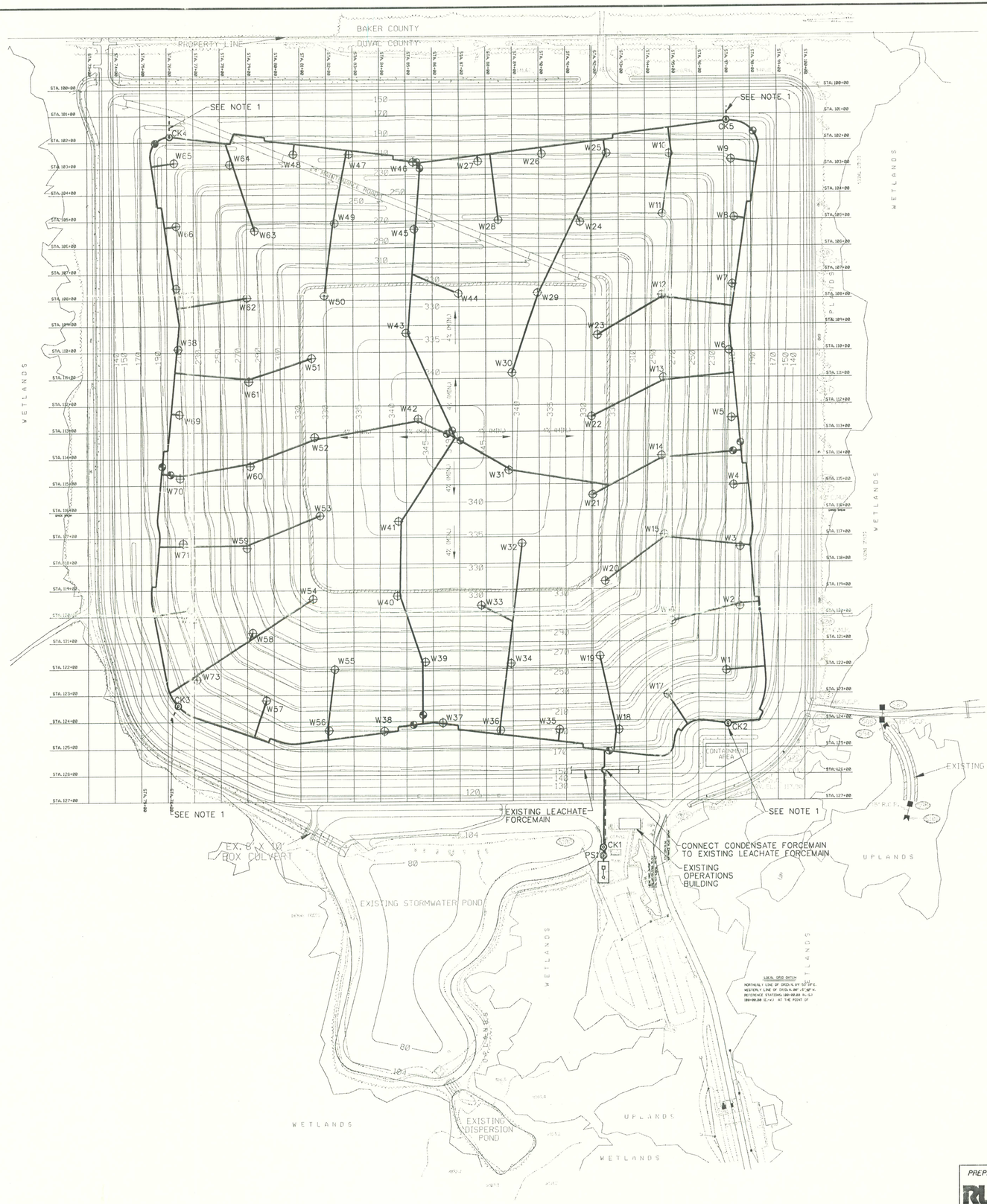
PERMIT RENEWAL
FOR TRAIL RIDGE LANDFILL

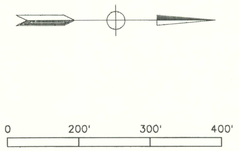
LIST OF DRAWINGS

PREPARED FOR:
TRAIL RIDGE LANDFILL, INC.
5110 U.S. HWY. 301
BALDWIN, FL 32234
(904) 289-9100

RUST ENVIRONMENT & INFRASTRUCTURE

PREPARED BY:
RUST ENVIRONMENT & INFRASTRUCTURE
15 BRENDAN WAY
GREENVILLE, SOUTH CAROLINA 29615
(864) 234-3000





LEGEND

EXISTING	PROPOSED	
	150	PROPOSED CONTOUR
		PAVED DITCH
		℄ OF DITCH
		ROADWAY
		10' BERM
		TERRACE
		DOWNCOMER PIPE
		GAS HEADER
	W:8	GAS WELLS
		BLOWER(S), FLARE(S), (EMISSION POINT(S))
		CONDENSATE FORCEMAIN
		CONDENSATE GRAVITY DRAIN
		UNDERGROUND CONTROL VALVE
	CK:	CONDENSATE KNOCKOUT
	PS1	PUMP STATION

NOTES

1. LEACHATE RISER PIPES AND CLEANOUTS TO BE FIELD LOCATED.
2. THE EXISTING PASSIVE GAS WELLS WITHIN THE LANDFILL ARE NOT SHOWN ON THE DRAWING AND WILL ULTIMATELY BE ABANDONED.
3. LANDFILL GAS MANAGEMENT SYSTEM ALIGNMENT, LOCATION, DETAILS AND NUMBER AND LOCATIONS OF EXTRACTION WELLS MAY CHANGE DUE TO SITE CONDITIONS AT THE TIME OF CONSTRUCTION.
4. LOCATION AND INSTALLATION OF THE PROPOSED GAS EXTRACTION WELLS, HEADER AND LATERAL ALIGNMENT, AND LIQUID MANAGEMENT FACILITIES MAY VARY TO ACCOMODATE LANDFILL FIELD SLOPE.
5. MINIMUM ACCEPTABLE COLLECTION HEADER AND LATERAL PIPELINE SLOPE IS THREE PERCENT (3%) WHEN LOCATED IN WASTE DISPOSAL AREAS.
6. MINIMUM ACCEPTABLE COLLECTION HEADER AND LATERAL PIPELINE SLOPE IS ONE PERCENT (1%) WHEN LOCATED OUT OF WASTE DISPOSAL AREAS.

REV	DATE	DESCRIPTION	DES BY	APP BY

PROJECT NO	40153	TRAIL RIDGE LANDFILL - PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.
DATE	NOVEMBER 1996	
DES BY	11/18/96	GAS MANAGEMENT PLAN
DRN BY	11/18/96	
CHK BY	11/18/96	
APP BY	11/18/96	

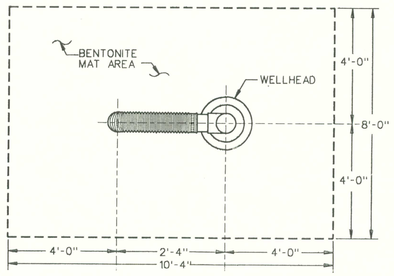
PREPARED BY:
RUST ENVIRONMENT & INFRASTRUCTURE

William M. Gonzalez 11/18/96

Trail Ridge Landfill, Inc.

SHEET 1 OF 6
DRAWING NO
P1

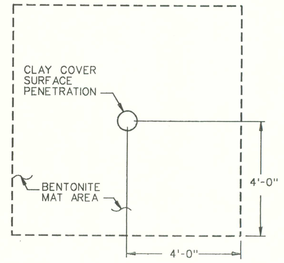
0153P1GS.DGN



1/P2 TYPICAL WELLHEAD WITH BENTONITE MAT

NOTES:

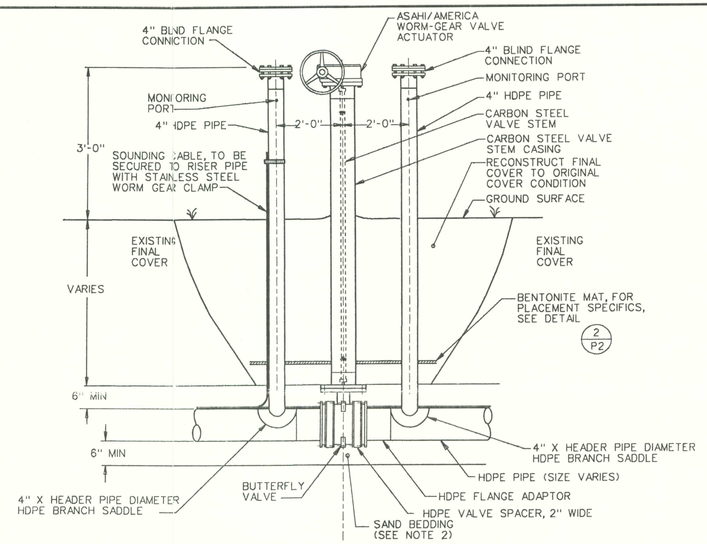
1. BENTONITE MAT IS TO BE INSTALLED WITH THE THICKER (NON-WOVEN) SIDE DOWN, AND THE THINNER (WOVEN) SIDE UP
2. CONTRACTOR SHALL THOROUGHLY COVER ANY CUT MADE TO THE BENTONITE MAT WITH BENTONITE CHIPS.
3. BENTONITE MAT AND BENTONITE CHIPS SHALL BE WATER SATURATED PRIOR TO BACKFILLING.



2/P2 TYPICAL BENTONITE SURFACE SEAL

NOTES:

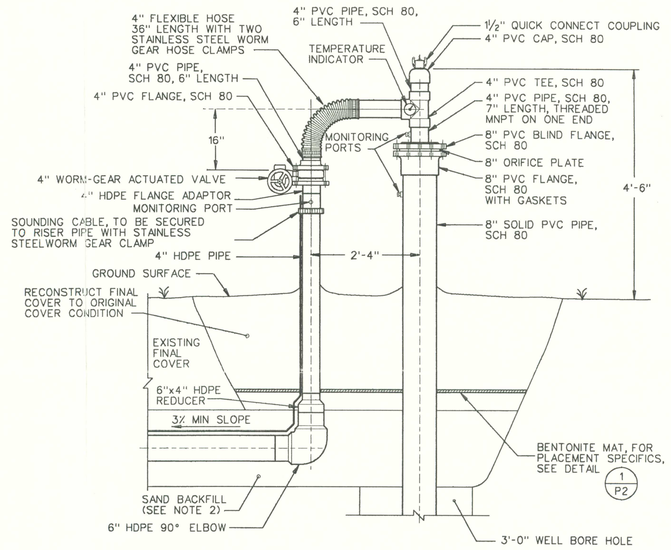
1. BENTONITE MAT IS TO BE INSTALLED WITH THE THICKER (NON-WOVEN) SIDE DOWN, AND THE THINNER (WOVEN) SIDE UP
2. CONTRACTOR SHALL THOROUGHLY COVER ANY CUT MADE TO THE BENTONITE MAT WITH BENTONITE CHIPS.
3. BENTONITE MAT AND BENTONITE CHIPS SHALL BE WATER SATURATED PRIOR TO BACKFILLING.



3/P2 UNDERGROUND CONTROL VALVE

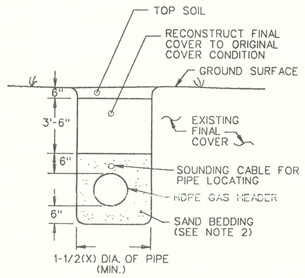
NOTES:

1. VALVE TO BE CYCLED BEFORE BACKFILLING AND INSTALLED CLOSED.

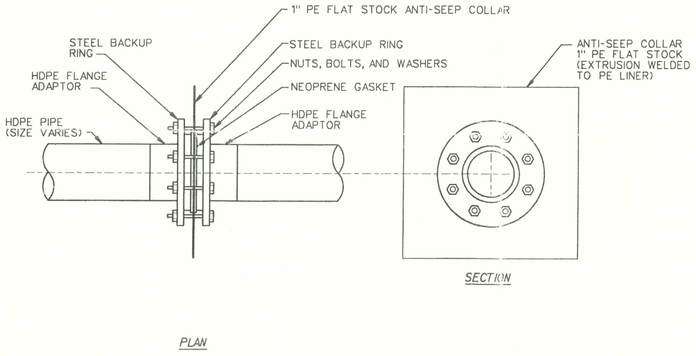


HDPE GAS COLLECTION HEADER, 3.0 PERCENT MINIMUM SLOPE IN REFUSE, DEPTH WILL VARY TO MEET SLOPE CRITERIA.

4/P2 GAS EXTRACTION WELLHEAD ASSEMBLY



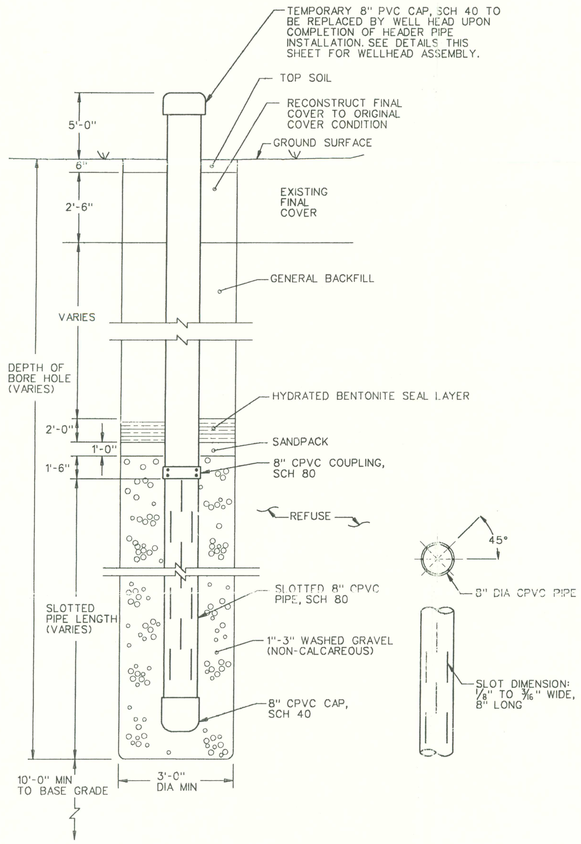
5/P2 TYPICAL HEADER / LATERAL TRENCH



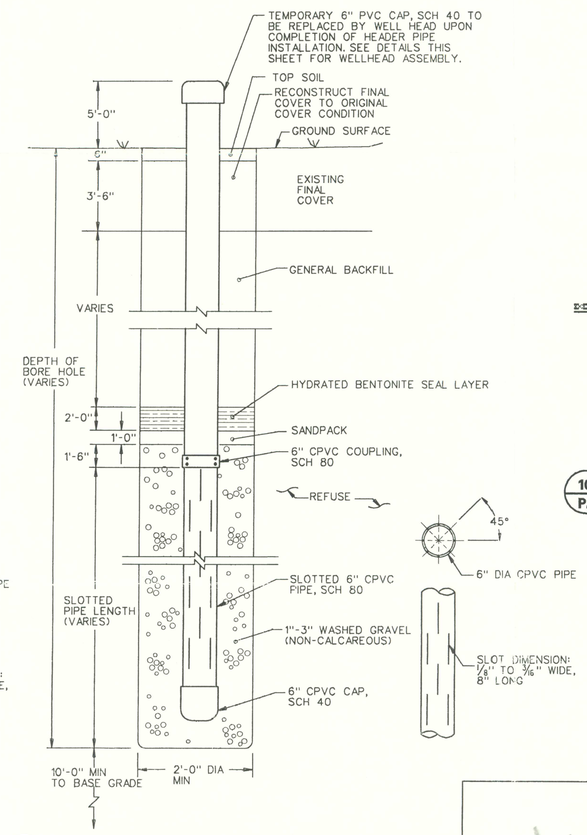
6/P2 ANTI-SEEP COLLAR

NOTE:

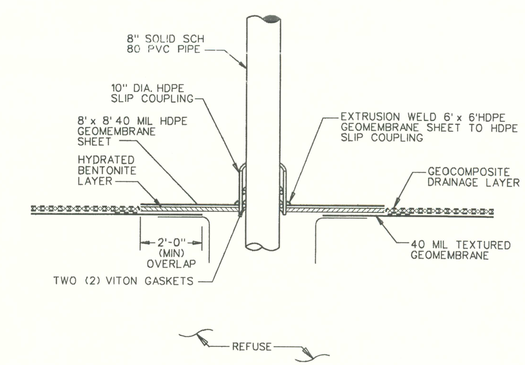
1. ANTI-SEEP COLLAR IS TO BE LOCATED AT ALL POINTS WHERE THE PIPELINE EXITS THE LIMITS OF REFUSE AND WILL BE FIELD LOCATED. THE CLAY SURROUNDING THE ANTI-SEEP COLLAR WILL BE HAND COMPACTED TO ADEQUATELY TIE INTO THE EXISTING FINAL COVER SYSTEM . A MINIMUM OF ONE FOOT OUTSIDE OF ALL EDGES IS RECOMMENDED.



7/P2 GAS EXTRACTION WELL



8/P2 TEMPORARY GAS EXTRACTION WELL



10/P2 GEOSYNTHETIC CAP PENETRATION CONNECTION

NOTES

1. CLEAN BACKFILL SHALL BE COMPACTED IN MAXIMUM LIFTS OF 9". SAND BEDDING FOR HEADER PIPE SHALL BE COMPACTED 6" BELOW THE PIPE AND MOUNDED 6" ABOVE THE PIPE.
2. LANDFILL GAS MANAGEMENT SYSTEM DETAILS AND DIMENSIONS MAY CHANGE DUE TO SITE CONDITIONS AT THE TIME OF CONSTRUCTION.
3. ALL DIMENSIONS ARE APPROXIMATE

REV	DATE	DESCRIPTION	DES BY	APP BY

PROJECT NO 40153		TRAIL RIDGE LANDFILL - PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.
DATE NOVEMBER 1996		
DES BY	11/20/96	LANDFILL GAS MANAGEMENT SYSTEM DETAILS
DRN BY	11/18/96	
CHK BY	11/18/96	
APP BY	11/18/96	

PREPARED BY: RUST ENVIRONMENT & INFRASTRUCTURE

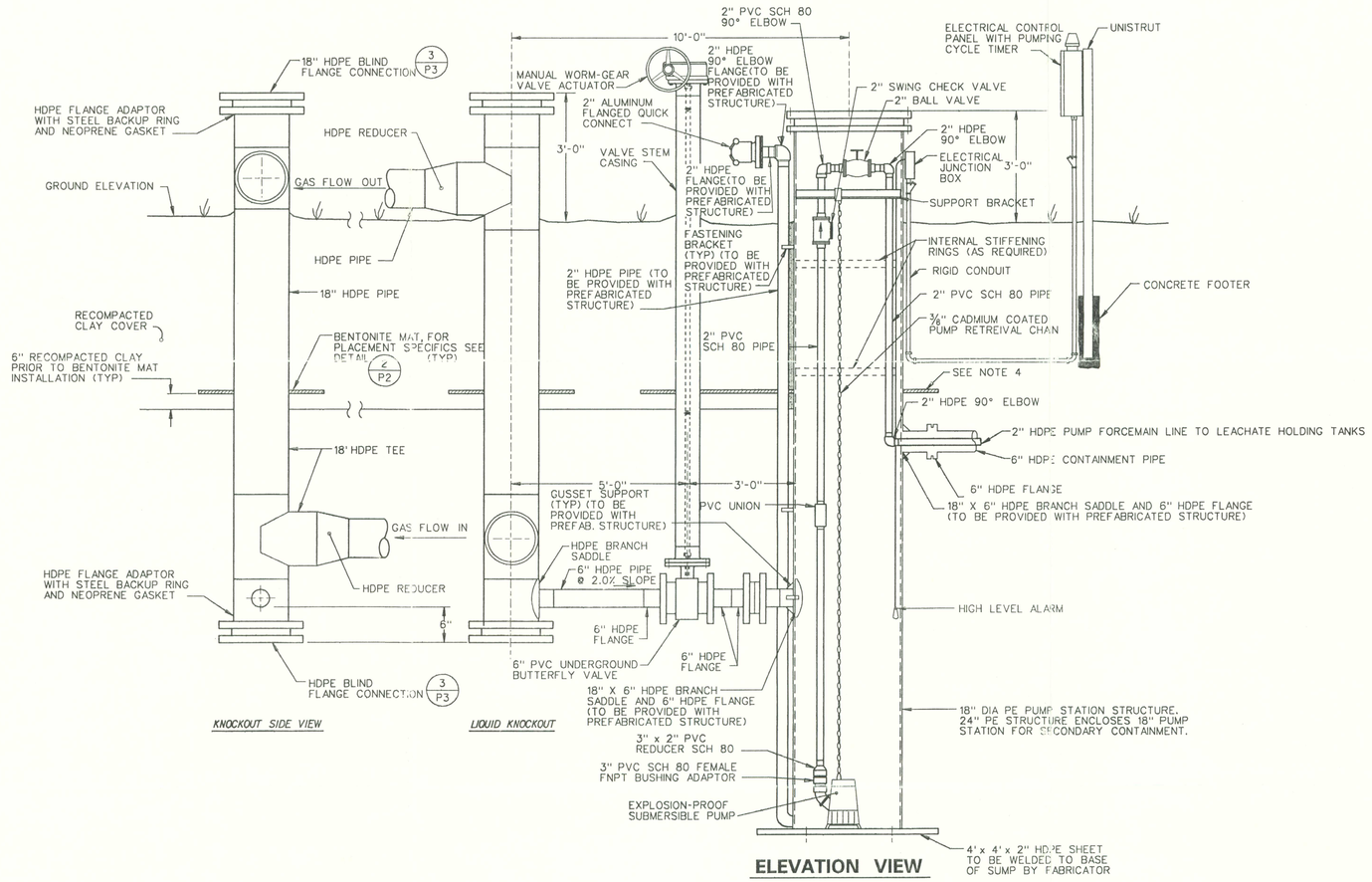
11/19/96

Trail Ridge Landfill, Inc.

SHEET 2 OF 6

DRAWING NO P2

0153P2GS.DGN

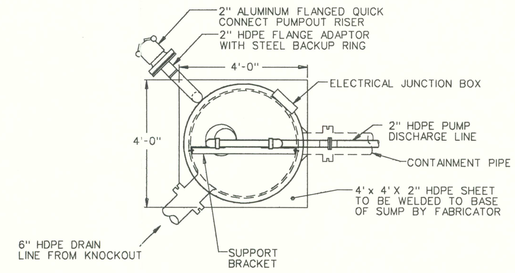


ELEVATION VIEW

1/P3 LIQUID KNOCKOUT AND PUMP STATION CONCEPTUAL DETAIL

NOTES:

1. PUMP STATION INLETS SHOWN OUT OF ORIENTATION FOR DETAIL CLARITY.
2. CONDENSATE PUMP STATIONS SHALL BE DOUBLE CONTAINED WITHIN A 18" PE PIPE.
3. INSTEAD OF TYING INTO THE PUMP STATION AS SHOWN ON THIS DETAIL, THE KNOCKOUT MAY TIE INTO A CONDENSATE DRIP LEG AS SHOWN ON DETAIL 5 OF THIS SHEET.
4. BENTONITE MAT NOT REQUIRED OUTSIDE OF LINED AREA.

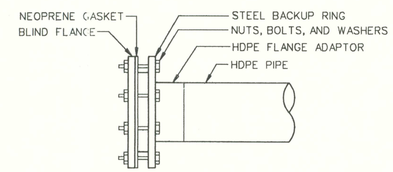


PLAN VIEW

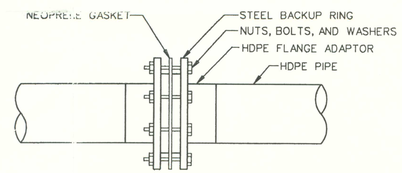
2/P3 PUMP STATION

NOTE:

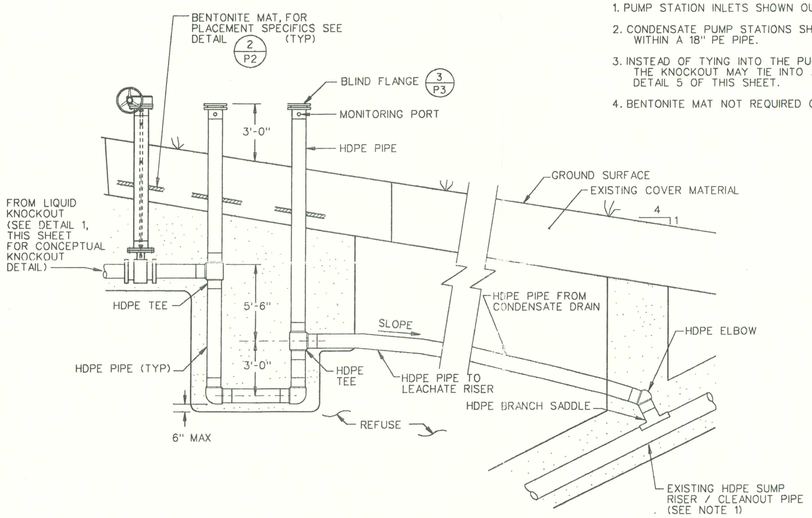
1. ACTUAL INLET ORIENTATION WILL BE DETERMINED DURING VESSEL FABRICATION AT TIME OF CONSTRUCTION.



3/P3 BLIND FLANGE (TYP)



4/P3 FLANGE CONNECTION (TYP)

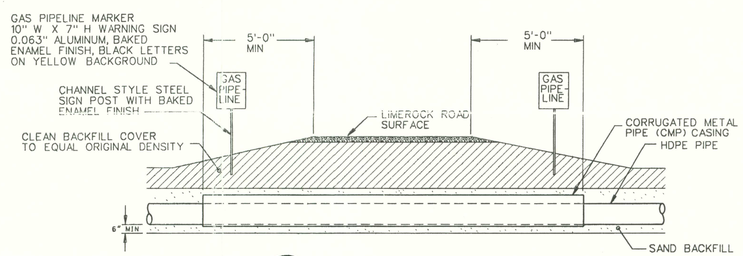


5/P3 CONDENSATE DRIPLEG DL-3

NTS

NOTES

1. CK-1 AND CK-2 WILL CONNECT TO PRIMARY HDPE SUMP RISER PIPE CK-3 AND CK-4 WILL CONNECT TO HDPE CLEANOUT RISER PIPE



6/P3 TYPICAL HEADER CASING

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ROADWAY REPAIR TO ORIGINAL CONDITION AFTER CONSTRUCTION.

IN AREAS WHERE ROAD CASING IS REQUIRED, USE 16 GAUGE X 2-2/3" X 1/2" GALVANIZED CMP CASING TWO PIPE SIZES LARGER THAN HEADER PIPE.

NOTES

1. LANDFILL GAS AND LEACHATE SYSTEM DETAILS ARE CONCEPTUAL AND MAY CHANGE DUE TO SITE CONDITIONS AT THE TIME OF CONSTRUCTION.
2. ONLY ONE PUMP STATION IS REQUIRED IN PLANS. THE PUMP STATION IS LOCATED OUTSIDE OF THE LINED AREA BEFORE THE FLARE STATION (SEE SHEET P1)

REV	DATE	DESCRIPTION	DES BY	APP BY

PROJECT NO	40153	TRAIL RIDGE LANDFILL - PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.
DATE	NOVEMBER 1996	
DES BY	SAT	11/18/96
DRN BY	RBH	11/18/96
CHK BY	MTSN	11/18/96
APP BY		11/18/96

LANDFILL GAS / CONDENSATE MANAGEMENT SYSTEM DETAILS

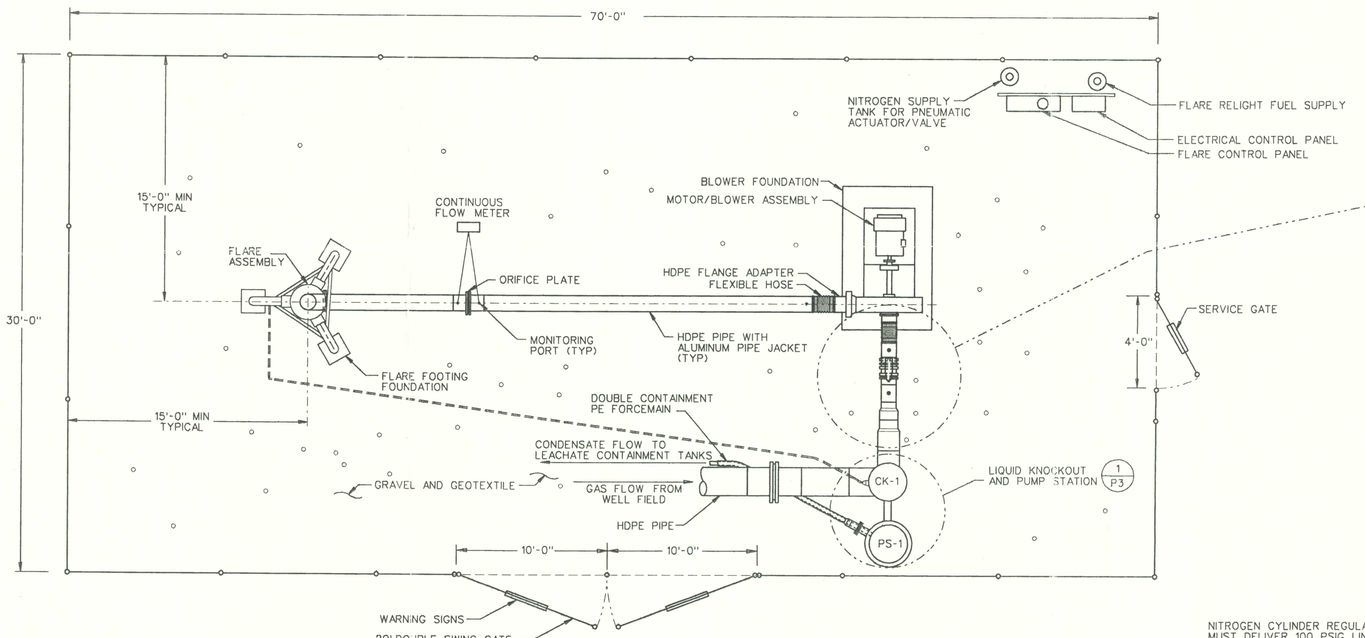
PREPARED BY: RUST ENVIRONMENT & INFRASTRUCTURE

Trail Ridge Landfill, Inc.

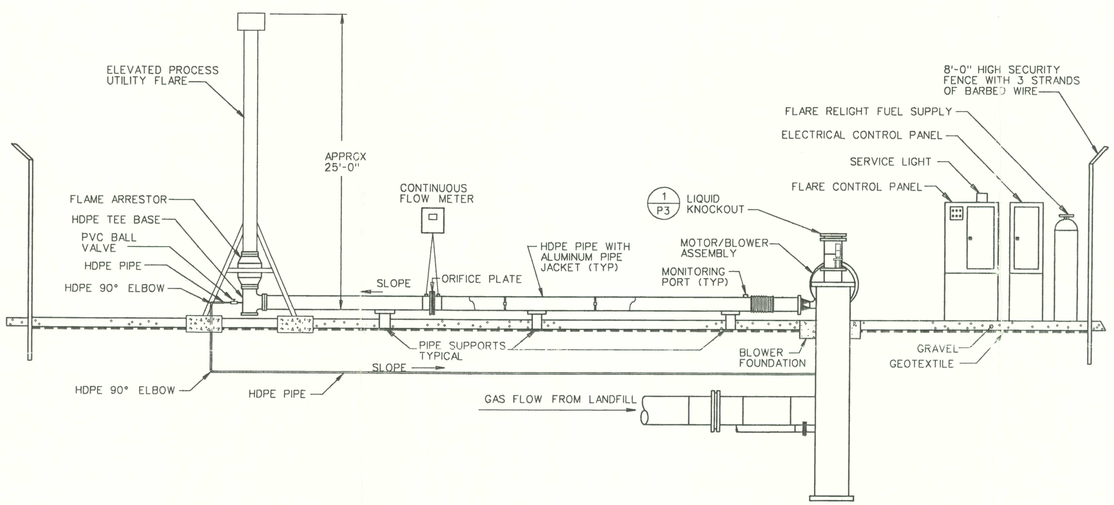
SHEET 3 OF 6

DRAWING NO P3

0153P3GS.DGN



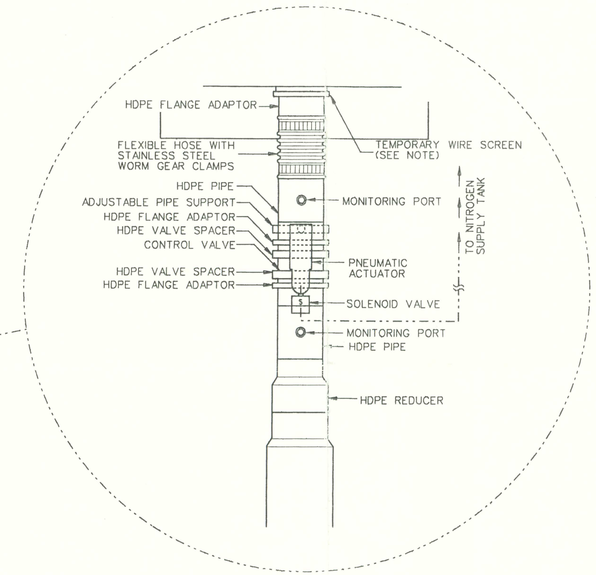
PLAN



PROFILE

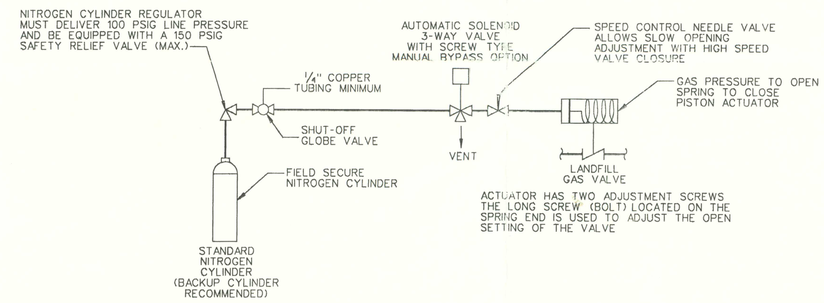
1 P4 BLOWER / FLARE STATION

NOTE: PROPOSED FLARE STATION LAYOUT MAY VARY BASED ON FIELD CONDITIONS ENCOUNTERED.



BLOW UP OF BLOWER INLET CONNECTION

NOTE:
CONTRACTOR SHALL INSTALL WIRE SCREEN BEFORE START UP TO PREVENT DEBRIS FROM ENTERING INTO BLOWER. SCREEN WILL BE REMOVED AT A LATER DATE BY SITE LANDFILL GAS WELL TECHNICIAN.



2 P4 PNEUMATIC ACTUATOR SYSTEM DETAIL

NOTES:

1. SOLENOID VALVE MAY BE FACTORY MOUNTED ON ACTUATOR.
2. SOLENOID VALVE HAS 1/4" NPT SPEED CONTROL VALVE MOUNTED ON ACTUATOR MOUNT (1/4" OR 3/8" NPT DEPENDING ON ACTUATOR SIZE).
3. SOLENOID VALVE REQUIRES 110V POWER TO ENERGIZE (PRESSURE ON ACTUATOR).
4. CONTRACTOR TO PROVIDE ALL TUBING, TEES, FITTINGS AND ALL CONDUIT, WIRE, ETC. FOR PNUEMATIC ACTUATOR SYSTEM INSTALLATION.

REV	DATE	DESCRIPTION	DES BY	APP BY

PROJECT NO 40153		TRAIL RIDGE LANDFILL - PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.
DATE NOVEMBER 1996		
DES BY	11/18/96	FLARE STATION DETAILS
DRN BY	11/18/96	
CHK BY	11/18/96	
APP BY	11/18/96	

PREPARED BY:
RUST ENVIRONMENT & INFRASTRUCTURE

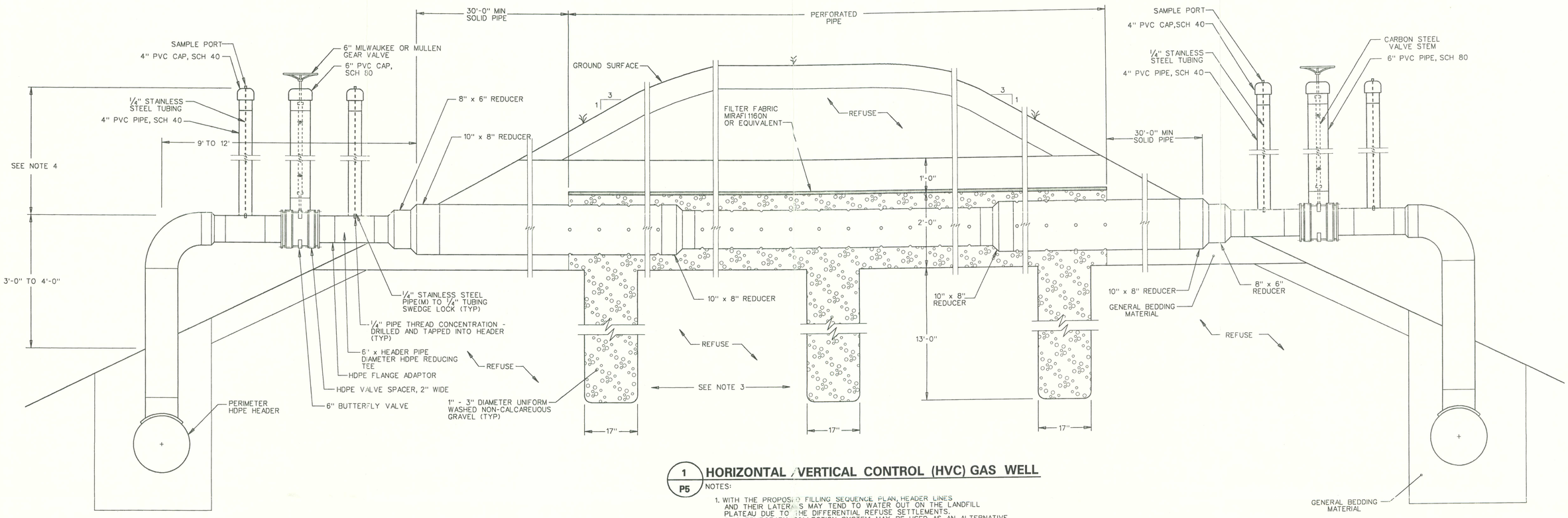
11/18/96

Trail Ridge Landfill, Inc.

SHEET 4 OF 6
DRAWING NO
P4

0153P4GS.DGN

on Nov 18 11:37:27 1996 N:\PROJECTS\HYDRO\ SETUP\ P4GS.DGN



1 / P5 HORIZONTAL / VERTICAL CONTROL (HVC) GAS WELL

NOTES:

1. WITH THE PROPOSED FILLING SEQUENCE PLAN, HEADER LINES AND THEIR LATERALS MAY TEND TO WATER OUT ON THE LANDFILL PLATEAU DUE TO THE DIFFERENTIAL REFUSE SETTLEMENTS. THIS TEMPORARY COLLECTION SYSTEM MAY BE USED AS AN ALTERNATIVE TO DETAIL 8 SHEET P2 FOR FILL AREAS NOT FILLED TO FINAL GRADE.
2. ELEVATION OF SIDE SLOPE VARIES FROM EXPOSED CONTROL VALVE TO BURIED CONTROL VALVE. LENGTH OF SAMPLE PORT AND VALVE EXTENTIONS SHOULD BE ADJUSTED AS APPROPRIATE.
3. VERTICAL BORE SPACING MINIMUM EVERY 50 FEET ALONG PERFORATED PIPE SECTION.
4. VALVE EXTENSION AND SAMPLE PORT RISERS MAY NOT BE NECESSARY IF PIPE IS ABOVE GRADE.

GENERAL NOTES

1. PERFORATED PIPE SIZES SHOULD BE EQUAL IN TOTAL LENGTH. (e.g. 25% - 50% - 25%
   10" - 8" - 10")
2. FABRIC TO BE PLACED BETWEEN STONE AND BACKFILL MATERIAL ABOVE PERFORATED PIPE.
3. LENGTH OF PERFORATED PIPE IS SUBJECT TO WASTE DIMENSION AT INSTALLATION ELEVATION.
4. HVC GAS WELLS ARE TO BE INSTALLED AT COMPLETION OF APPROPRIATE REFUSE LIFTS AND SHOULD BE COORDINATED WITH LANDFILLING OPERATIONS.

REV	DATE	DESCRIPTION	DES BY	APP BY

PREPARED BY:
RUST ENVIRONMENT & INFRASTRUCTURE

PROJECT NO	40153	
DATE	NOVEMBER 1996	
DES BY		11/18/96
DRN BY		11/18/96
CHK BY		11/18/96
APP BY		11/18/96

TRAIL RIDGE LANDFILL - PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.

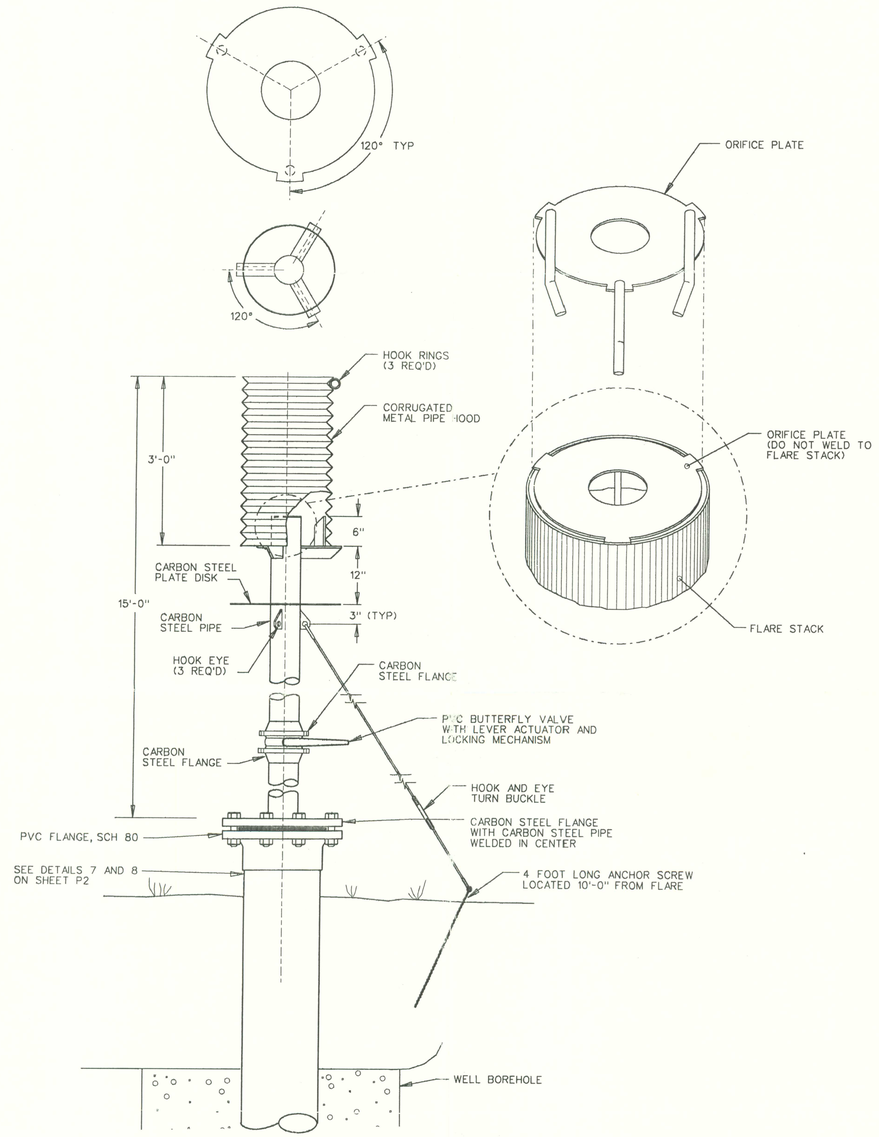
CONCEPTUAL GAS COLLECTION SYSTEM DETAILS

Trail Ridge Landfill, Inc.

SHEET 5 OF 5
DRAWING NO
P5

0153P5GS.DGN

Wed Nov 13 15:09:35 1996 N:\BYERS\QCF\MBOND.qcf HALE_B 0153P5GS.PRF



1 / P6 STANDARD PASSIVE FLARE

NOTES:
1. ALL DIMENSIONS ARE APPROXIMATE.
2. PASSIVE FLARES MAY BE INSTALLED OVER PROPOSED AND EXISTING GAS WELLS PRIOR TO START UP OF ACTIVE GAS COLLECTION SYSTEM.

REV	DATE	DESCRIPTION	DES BY	APP BY

PREPARED BY:
RUST ENVIRONMENT & INFRASTRUCTURE

PROJECT NO	40153	
DATE	NOVEMBER 1996	
DES BY	DB	11/18/96
DRN BY	RGH	11/18/96
CHK BY	MSN	11/18/96
APP BY	JMH	11/18/96

TRAIL RIDGE LANDFILL - PERMIT RENEWAL
FOR
TRAIL RIDGE LANDFILL, INC.

PASSIVE FLARE DETAIL

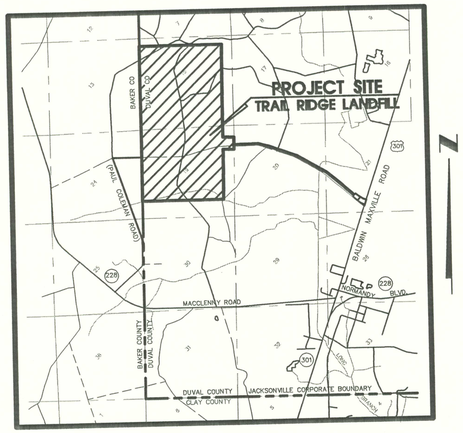
Trail Ridge Landfill, Inc.

SHEET 6 OF 6
DRAWING NO
P6

0153P6GS.DGN

"AS - BUILTS"
OF
TRAIL RIDGE LANDFILL
PHASES I, II, III, IV AND V

FOR
TRAIL RIDGE LANDFILL, INC.
AND
CITY OF JACKSONVILLE, FLORIDA



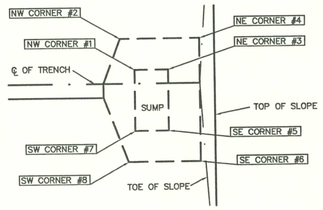
VICINITY MAP

Robert M. Angas Associates, inc.
LAND SURVEYORS, PLANNERS AND CIVIL ENGINEERS
SINCE 1924
14775 St. Augustine Road, Jacksonville, FL. 32258
Telephone: (904) 642-8550 Fax: (904) 642-4165
Certificate of Authorization No.: LB 3624
(FORMERLY SUNSHINE STATE SURVEYORS)

UPDATED: JULY, 2001
UPDATED: JANUARY, 2001
UPDATED: DECEMBER, 2000
UPDATED: DECEMBER, 1996
UPDATED: SEPTEMBER, 1995
UPDATED: JANUARY, 1993
UPDATED: DECEMBER, 1992
DATE: SEPTEMBER, 1992

INDEX OF DRAWINGS

COVER SHEET NO. 1



SUMP DETAIL

NOT TO SCALE

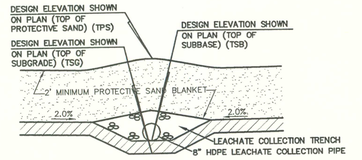
LEGEND

TOP OF SUBGRADE ELEVATION — TSG | TSG | ASTSG — "AS-BUILT" EL.

DESIGN EL.

"AS-BUILT" SUMP TABLE

PHASE	LOCATION	TSG DESIGN EL.	TSG AS-BUILT EL.
IIIC	N.W. #1	122.3	119.5
IIIC	N.W. #2	125.1	123.4
IIIC	N.E. #3	123.7	120.1
IIIC	N.E. #4	124.7	123.5
IIIC	S.E. #5	123.3	120.1
IIIC	S.E. #6	124.7	123.5
IIIC	S.W. #7	122.5	119.9
IIIC	S.W. #8	125.1	124.0
VA	N.W. #1	121.1	120.7
VA	N.W. #2	124.6	123.7
VA	N.E. #3	121.1	120.5
VA	N.E. #4	124.1	123.5
VA	S.E. #5	121.1	120.7
VA	S.E. #6	124.9	124.1
VA	S.W. #7	121.1	120.8
VA	S.W. #8	124.9	123.8
VB	N.W. #1	121.7	121.1
VB	N.W. #2	125.4	122.9
VB	N.E. #3	121.7	120.9
VB	N.E. #4	124.5	124.4
VB	S.E. #5	121.7	120.9
VB	S.E. #6	125.8	125.0
VB	S.W. #7	121.7	121.2
VB	S.W. #8	125.5	122.6



REFERENCE POINT FOR SPOT ELEVATIONS

NOT TO SCALE

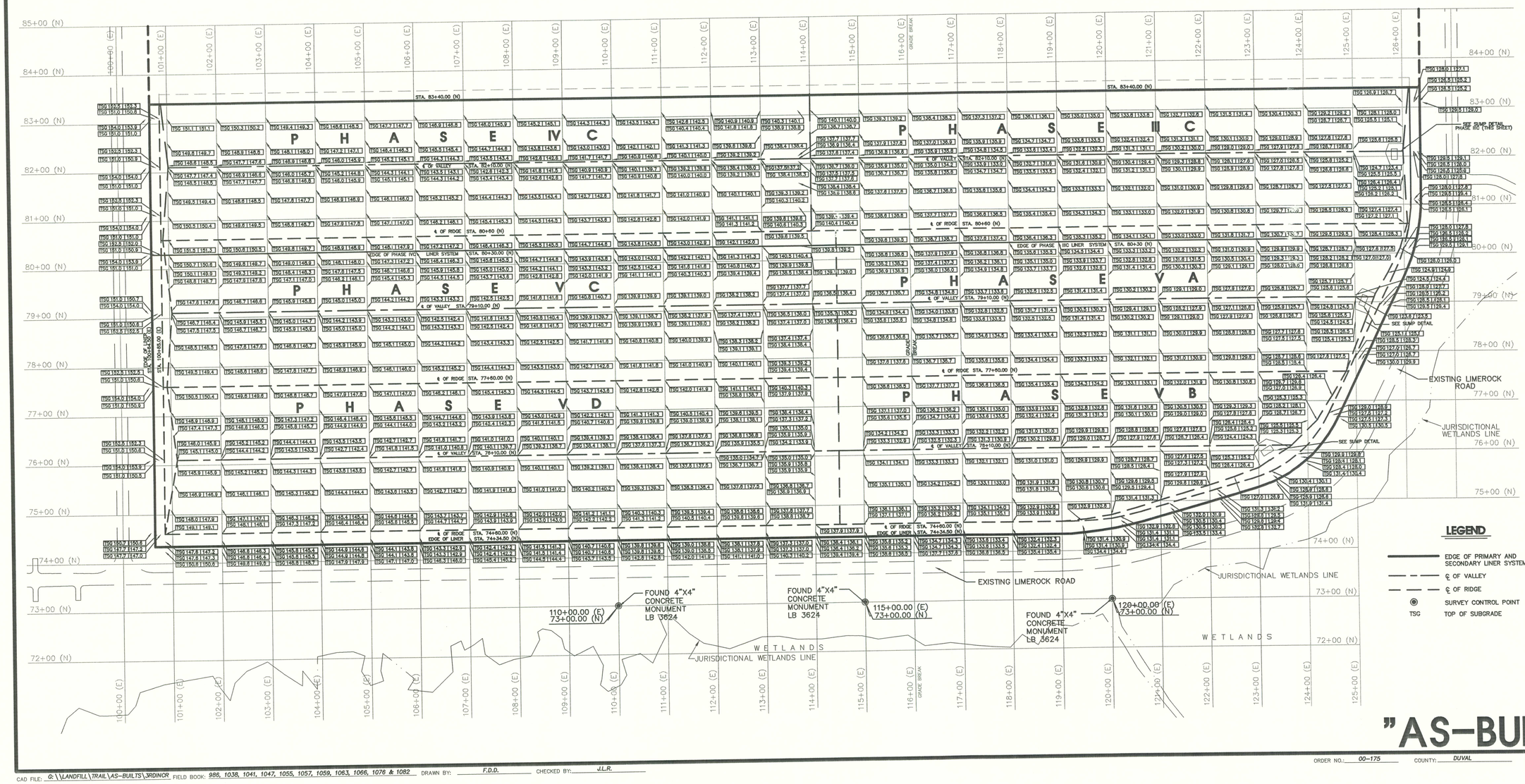
NOTES:

1. THE SUBGRADE HAS BEEN AS-BUILT FROM THE SOUTHERN ANCHOR BERM/TRENCH TO STA. 83+40 (N) AND FROM THE WESTERN ANCHOR BERM/TRENCH TO THE EASTERN ANCHOR BERM/TRENCH.
2. ALL DESIGN ELEVATIONS WERE PROVIDED BY ENGLAND, THIMS & MILLER, INC.
3. LOCAL GRID COORDINATES DERIVED FROM GRID ESTABLISHED IN ENGINEERING PLANS FOR TRAIL RIDGE LANDFILL BY ENGLAND, THIMS & MILLER, INC.
4. ELEVATIONS BASED ON U.S.C. & G. BENCH MARK AJ-59, LOCATED NEAR INTERSECTION OF U.S. HWY. NO. 301 AND STATE ROAD NO. 228. BENCH MARK ELEVATION: 88.412' (NGVD 1929)
5. JURISDICTIONAL WETLANDS LINE DEPICTED HEREON FROM PREVIOUS SURVEY BY SUNSHINE STATE SURVEYORS, INC., FILE NO. E90D-3774, DATED 3-22-90.
6. DATE OF LAST FIELD WORK: 6-22-01

GRAPHIC SCALE

100 0 50 100 200

(IN FEET)
1 inch = 100 ft.



LEGEND

- EDGE OF PRIMARY AND SECONDARY LINER SYSTEM
- ℄ OF VALLEY
- ℄ OF RIDGE
- SURVEY CONTROL POINT
- TSG — TOP OF SUBGRADE

"AS-BUILT"

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

JOSEPH LESLIE REYNOLDS, III
PROFESSIONAL SURVEYOR AND MAPPER
STATE of FLORIDA LS No. 5517

REVISIONS:
1-02-01 ADDED PHASE IVC AND UPDATED SURVEY NOTES.
7-13-01 ADDED PHASES VA, VB, VC AND VD AND UPDATED SURVEY NOTES.

LINER SYSTEM - SUBGRADE
PHASES IIIC, IVC, VA, VB, VC & VD

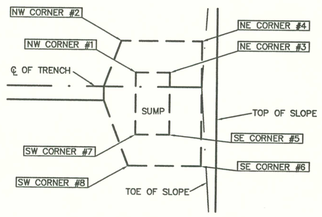
TRAIL RIDGE LANDFILL
FOR TRAIL RIDGE LANDFILL, INC. AND
CITY OF JACKSONVILLE

(FORMERLY SUNSHINE STATE SURVEYORS)
Robert M. Angas Associates, inc.
LAND SURVEYORS, PLANNERS AND CIVIL ENGINEERS
SINCE 1924
14775 St. Augustine Road, Jacksonville, FL 32258
Telephone: (904) 642-8550 Fax: (904) 642-4165
Certificate of Authorization No.: LB 3924

SHEET LS-7

CAD FILE: G:\\LANDFILL\TRAIL\AS-BUILTS\3RDINCR FIELD BOOK: 986, 1038, 1041, 1047, 1055, 1057, 1059, 1063, 1066, 1076 & 1082 DRAWN BY: F.D.D. CHECKED BY: J.L.R.

ORDER NO.: 00-175 COUNTY: DUVAL RANGE: 23E FILE NO.: 115F-20



SUMP DETAIL

NOT TO SCALE

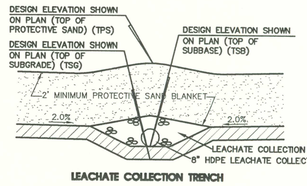
LEGEND

TOP OF SUBBASE ELEVATION — TSB | TSB | ASTSB

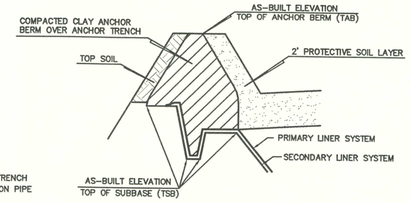
DESIGN EL. — "AS-BUILT" EL.

"AS-BUILT" SUMP TABLE

PHASE	LOCATION	TSB DESIGN EL.	TSB AS-BUILT EL.
IIIC	N.W. #1	121.8	121.9
IIIC	N.W. #2	125.6	125.7
IIIC	N.E. #3	121.8	121.9
IIIC	N.E. #4	125.2	125.3
IIIC	S.E. #5	121.8	121.9
IIIC	S.E. #6	125.2	125.3
IIIC	S.W. #7	121.8	121.9
IIIC	S.W. #8	125.6	125.7
VA	N.W. #1	121.6	121.7
VA	N.W. #2	125.1	125.2
VA	N.E. #3	121.6	121.7
VA	N.E. #4	124.6	124.7
VA	S.E. #5	121.6	121.7
VA	S.E. #6	125.4	125.5
VA	S.W. #7	121.6	121.7
VA	S.W. #8	125.4	125.5
VB	N.W. #1	122.2	122.3
VB	N.W. #2	125.9	126.0
VB	N.E. #3	122.2	122.2
VB	N.E. #4	125.0	125.0
VB	S.E. #5	122.2	122.3
VB	S.E. #6	126.3	126.4
VB	S.W. #7	122.2	122.3
VB	S.W. #8	126.0	126.0



LEACHATE COLLECTION TRENCH



CLAY ANCHOR BERM

REFERENCE POINT FOR SPOT ELEVATIONS

NOT TO SCALE

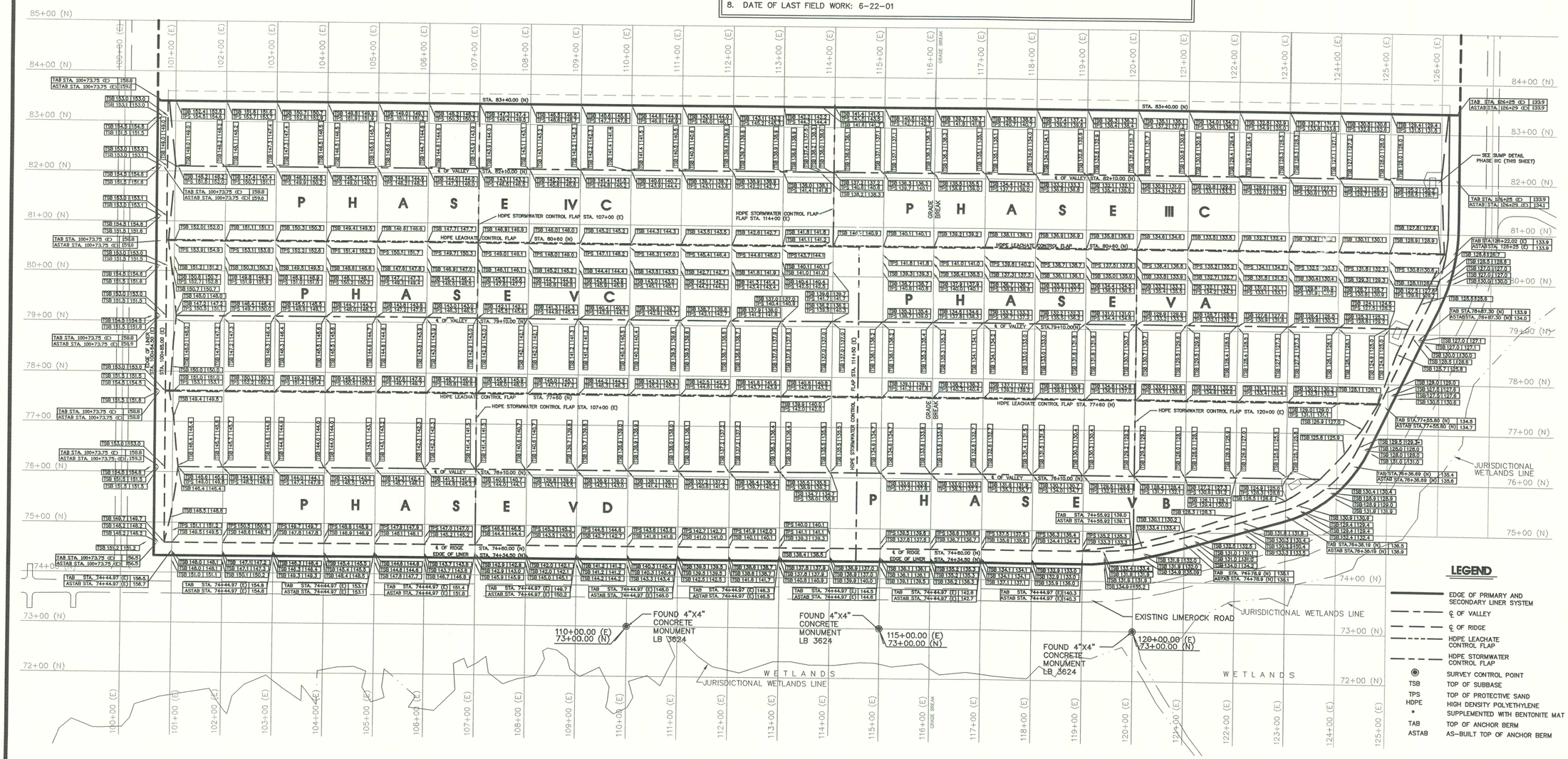
NOTES:

1. THE CLAY LAYER HAS BEEN AS-BUILT FROM THE SOUTHERN ANCHOR TRENCH TO STA. 83+40 (N) AND FROM THE WESTERN ANCHOR TRENCH TO THE EASTERN ANCHOR TRENCH.
2. THE PROTECTIVE SAND LAYER HAS BEEN AS-BUILT FROM STA. 74+60 (N) TO STA. 83+40 (N) AND FROM THE WESTERN ANCHOR BERM TO THE EASTERN ANCHOR BERM.
3. ALL DESIGN ELEVATIONS WERE PROVIDED BY ENGLAND, THIMS & MILLER, INC.
4. LOCAL GRID COORDINATES DERIVED FROM GRID ESTABLISHED IN ENGINEERING PLANS FOR TRAIL RIDGE LANDFILL BY ENGLAND, THIMS & MILLER, INC.
5. ELEVATIONS BASED ON U.S.C. & G. BENCH MARK AJ-59, LOCATED NEAR INTERSECTION OF U.S. HWY. 301 AND STATE ROAD NO. 228. BENCH MARK ELEVATION: 88.412' (NGVD 1929)
6. THE OUTSIDE EDGE OF THE ANCHOR BERM WAS THE LOCATION OF THE AS-BUILT.
7. JURISDICTIONAL WETLANDS LINE DEPICTED HEREON FROM PREVIOUS SURVEY BY SUNSHINE STATE SURVEYORS, INC., FILE NO. E90D-3774, DATED 3-22-90.
8. DATE OF LAST FIELD WORK: 6-22-01

GRAPHIC SCALE

100 0 50 100 200

(IN FEET)
1 inch = 100 ft.



LEGEND

- EDGE OF PRIMARY AND SECONDARY LINER SYSTEM
- ℄ OF VALLEY
- ℄ OF RIDGE
- HDPE LEACHATE CONTROL FLAP
- HDPE STORMWATER CONTROL FLAP
- SURVEY CONTROL POINT
- TSB — TOP OF SUBBASE
- TPS — TOP OF PROTECTIVE SAND
- HDPE — HIGH DENSITY POLYETHYLENE
- * — SUPPLEMENTED WITH BENTONITE MAT
- TAB — TOP OF ANCHOR BERM
- ASTAB — AS-BUILT TOP OF ANCHOR BERM

"AS-BUILT"

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

JOSEPH LESLIE REYNOLDS, III
PROFESSIONAL SURVEYOR AND MAPPER
STATE of FLORIDA LS No. 5517

REVISIONS:
1-02-01 ADDED PHASE IVC AND UPDATED SURVEY NOTES.
7-13-01 ADDED PHASES VA, VB, VC AND VD UPDATED SURVEY NOTES.

LINER SYSTEM - CLAY & SAND PHASES IIIC, IVC, VA, VB, VC & VD

TRAIL RIDGE LANDFILL
FOR TRAIL RIDGE LANDFILL, INC. AND
CITY OF JACKSONVILLE

(FORMERLY SUNSHINE STATE SURVEYORS)
Robert M. Angas Associates, inc.
LAND SURVEYORS, PLANNERS AND CIVIL ENGINEERS SINCE 1924
14775 St. Augustine Road, Jacksonville, FL. 32258
Telephone: (904) 642-8550 Fax: (904) 642-4165
Certificate of Authorization No.: LB 3624

SHEET LS-8

CAD FILE: G:\LANDFILL\TRAIL\AS-BUILTS\3RDINCR FIELD BOOK: 986, 1038, 1041, 1047, 1055, 1057, 1059, 1063, 1066, 1076 & 1082 DRAWN BY: F.D.D. CHECKED BY: J.L.R.

ORDER NO.: 00-175 COUNTY: DUVAL RANGE: 23E FILE NO.: 115F-20

"AS-BUILT" SUBGRADE LOCATION TABLE

PHASE	DATE:	LOCATION:
IIIC	07-11-00	STA. 80+60.00 TO STA. 81+60.00 (NORTH) STA. 114+00.00 TO STA. 115+00.00 (EAST)
IIIC	07-17-00	STA. 80+60.00 TO STA. 82+10.00 (NORTH) STA. 115+50.00 TO STA. 121+00.00 (EAST)
IIIC	07-21-00	STA. 80+30.00 TO STA. 82+10.00 (NORTH) STA. 114+00.00 TO STA. 125+50.00 (EAST)
IIIC	07-31-00	STA. 82+02.50 TO STA. 82+17.50 (NORTH) STA. 114+00.00 TO STA. 125+50.00 (EAST)
IIIC	08-01-00	STA. 82+00.50 TO STA. 82+16.50 (NORTH) STA. 114+24.00 TO STA. 125+50.00 (EAST)
IIIC	08-04-00	STA. 82+15.50 TO STA. 83+10.00 (NORTH) STA. 114+00.00 TO STA. 120+00.00 (EAST)
IIIC	08-08-00	STA. 82+15.50 TO STA. 83+39.00 (NORTH) STA. 114+00.00 TO STA. 125+50.00 (EAST)
IIIC	08-10-00	STA. 80+30.00 TO STA. 83+40.00 (NORTH) STA. 113+60.00 TO STA. 126+01.73 (EAST)
IIIC	08-14-00	STA. 80+30.00 TO STA. 83+40.00 (NORTH) STA. 126+00.00 TO STA. 126+40.77 (EAST)
IIIC	08-15-00	STA. 80+30.00 TO STA. 82+60.00 (NORTH) STA. 126+00.00 TO STA. 126+34.77 (EAST)
IIIC	08-18-00	STA. 79+75.00 TO STA. 80+22.00 (NORTH) STA. 119+00.00 TO STA. 123+50.00 (EAST)
IVC	09-01-00	STA. 80+60.00 TO STA. 82+60.00 (NORTH) STA. 101+00.00 TO STA. 104+00.00 (EAST)
IVC	09-05-00	STA. 80+30.00 TO STA. 83+35.00 (NORTH) STA. 101+00.00 TO STA. 108+00.00 (EAST)
IVC	09-06-00	STA. 80+30.00 TO STA. 83+35.00 (NORTH) STA. 104+50.00 TO STA. 108+50.00 (EAST)
IVC	09-12-00	STA. 82+05.10 TO STA. 82+14.60 (NORTH) STA. 109+00.00 TO STA. 113+00.00 (EAST)
IVC	09-13-00	STA. 80+30.00 TO STA. 83+35.00 (NORTH) STA. 100+57.00 TO STA. 100+99.00 (EAST)
IVC	09-15-00	STA. 80+30.00 TO STA. 83+35.00 (NORTH) STA. 107+50.00 TO STA. 112+50.00 (EAST)
IVC	09-15-00	STA. 80+30.00 TO STA. 83+35.00 (NORTH) STA. 107+50.00 TO STA. 112+50.00 (EAST)
IVC	10-19-00	STA. 82+10.00 TO STA. 83+37.00 (NORTH) STA. 112+70.60 TO STA. 113+54.90 (EAST)
IVC	11-28-00	STA. 80+30.00 TO STA. 82+16.00 (NORTH) STA. 113+00.00 TO STA. 113+50.00 (EAST)
VA	10-16-00	STA. 77+25.00 TO STA. 80+10.00 (NORTH) STA. 114+00.00 TO STA. 119+50.00 (EAST)
VA	10-16-00	STA. 77+25.00 TO STA. 80+10.00 (NORTH) STA. 120+00.00 TO STA. 125+50.00 (EAST)
VA	10-18-00	STA. 77+25.00 TO STA. 80+10.00 (NORTH) STA. 120+00.00 TO STA. 125+50.00 (EAST)
VA	10-19-00	STA. 79+04.30 TO STA. 79+15.90 (NORTH) STA. 114+50.00 TO STA. 119+50.00 (EAST)
VA	10-23-00	STA. 79+03.80 TO STA. 79+15.00 (NORTH) STA. 120+00.00 TO STA. 125+00.00 (EAST)
VA	10-25-00	STA. 77+25.00 TO STA. 80+10.00 (NORTH) STA. 118+50.00 TO STA. 125+99.00 (EAST)
VB	12-18-00	STA. 76+04.80 TO STA. 77+10.00 (NORTH) STA. 114+50.00 TO STA. 123+68.30 (EAST)
VB	12-19-00	STA. 74+60.00 TO STA. 77+10.00 (NORTH) STA. 116+00.00 TO STA. 123+00.00 (EAST)
VB	12-20-00	STA. 74+64.30 TO STA. 77+10.00 (NORTH) STA. 119+50.00 TO STA. 124+50.00 (EAST)
VB	12-21-00	STA. 74+24.50 TO STA. 74+47.00 (NORTH) STA. 114+50.00 TO STA. 118+90.05 (EAST)
VB	02-08-01	STA. 75+50.30 TO STA. 77+10.00 (NORTH) STA. 122+50.00 TO STA. 124+50.00 (EAST)
VB	02-26-01	STA. 75+56.94 TO STA. 75+92.47 (NORTH) STA. 123+24.38 TO STA. 123+80.08 (EAST)

"AS-BUILT" SUBGRADE LOCATION TABLE

PHASE	DATE:	LOCATION:
VC	11-15-00	STA. 77+25.00 TO STA. 78+10.00 (NORTH) STA. 100+99.50 TO STA. 100+57.00 (EAST)
VC	11-16-00	STA. 77+25.00 TO STA. 80+10.00 (NORTH) STA. 100+57.00 TO STA. 106+00.00 (EAST)
VC	11-17-00	STA. 77+25.00 TO STA. 80+10.00 (NORTH) STA. 106+50.00 TO STA. 108+00.00 (EAST)
VC	11-20-00	STA. 77+25.00 TO STA. 80+10.00 (NORTH) STA. 106+00.00 TO STA. 112+50.00 (EAST)
VC	11-21-00	STA. 79+04.80 TO STA. 79+15.00 (NORTH) STA. 110+00.00 TO STA. 111+50.00 (EAST)
VC	12-01-00	STA. 79+04.60 TO STA. 79+13.60 (NORTH) STA. 112+00.00 (EAST)
VC	12-01-00	STA. 79+04.60 TO STA. 79+13.60 (NORTH) STA. 112+00.00 (EAST)
VC	12-12-00	STA. 79+04.50 TO STA. 80+10.00 (NORTH) STA. 111+00.00 TO STA. 113+00.00 (EAST)
VC	12-13-00	STA. 77+25.00 TO STA. 80+10.00 (NORTH) STA. 112+00.00 TO STA. 112+50.00 (EAST)
VC	02-07-01	STA. 79+10.00 TO STA. 80+10.00 (NORTH) STA. 113+07.80 TO STA. 114+24.10 (EAST)
VC	02-16-01	STA. 77+25.00 TO STA. 79+15.80 (NORTH) STA. 113+00.00 TO STA. 114+24.10 (EAST)
VD	01-26-01	STA. 74+60.00 TO STA. 75+60.00 (NORTH) STA. 100+86.20 TO STA. 104+00.00 (EAST)
VD	01-29-01	STA. 74+24.50 TO STA. 75+60.00 (NORTH) STA. 100+85.00 TO STA. 109+50.00 (EAST)
VD	01-30-01	STA. 74+60.00 TO STA. 77+10.00 (NORTH) STA. 100+85.00 TO STA. 109+50.00 (EAST)
VD	01-31-01	STA. 76+05.40 TO STA. 76+14.80 (NORTH) STA. 106+00.00 TO STA. 109+00.00 (EAST)
VD	02-01-01	STA. 76+05.50 TO STA. 76+14.70 (NORTH) STA. 101+11.18 TO STA. 105+50.00 (EAST)
VD	02-06-01	STA. 74+60.00 TO STA. 77+10.00 (NORTH) STA. 100+57.00 TO STA. 101+05.00 (EAST)
VD	02-07-01	STA. 75+10.00 TO STA. 77+10.00 (NORTH) STA. 104+50.00 TO STA. 110+00.00 (EAST)
VD	02-08-01	STA. 74+24.50 TO STA. 77+10.00 (NORTH) STA. 110+00.00 (EAST)
VD	02-20-01	STA. 74+60.00 TO STA. 77+10.00 (NORTH) STA. 101+01.40 TO STA. 109+00.00 (EAST)
VD	02-21-01	STA. 74+24.50 TO STA. 74+47.80 (NORTH) STA. 110+50.00 TO STA. 113+00.00 (EAST)
VD	03-02-01	STA. 76+60.00 TO STA. 77+10.00 (NORTH) STA. 113+50.00 TO STA. 114+29.50 (EAST)
VD	04-04-01	STA. 74+24.50 TO STA. 76+10.00 (NORTH) STA. 113+50.00 TO STA. 114+00.00 (EAST)

"AS-BUILT" SUBBASE LOCATION TABLE

PHASE	DATE:	LOCATION:
IIIC	08-17-00	STA. 82+06.40 TO STA. 83+40.00 (NORTH) STA. 113+75.00 TO STA. 116+00.00 (EAST)
IIIC	08-18-00	STA. 80+30.00 TO STA. 82+12.50 (NORTH) STA. 113+75.00 TO STA. 116+00.00 (EAST)
IIIC	08-22-00	STA. 80+30.00 TO STA. 83+40.00 (NORTH) STA. 113+75.00 TO STA. 117+00.00 (EAST)
IIIC	08-23-00	STA. 80+30.00 TO STA. 83+40.00 (NORTH) STA. 116+50.00 TO STA. 120+00.00 (EAST)
IIIC	08-25-00	STA. 80+30.00 TO STA. 83+40.00 (NORTH) STA. 120+00.00 TO STA. 121+00.00 (EAST)
IIIC	08-26-00	STA. 80+30.00 TO STA. 83+40.00 (NORTH) STA. 121+50.00 TO STA. 125+00.00 (EAST)
IIIC	09-26-00	STA. 82+06.50 TO STA. 83+40.00 (NORTH) STA. 124+60.00 TO STA. 125+50.00 (EAST)
IIIC	09-27-00	STA. 82+60.00 TO STA. 83+40.00 (NORTH) STA. 126+00.00 TO STA. 126+37.27 (EAST)
IIIC	09-28-00	STA. 80+60.00 TO STA. 82+32.41 (NORTH) STA. 125+62.96 TO STA. 126+34.77(EAST)
IIIC	10-04-00	STA. 80+30.00 TO STA. 81+60.00 (NORTH) STA. 126+04.31 TO STA. 126+35.75 (EAST)
IIIC	11-10-00	STA. 80+60.00 TO STA. 83+40.00 (NORTH) STA. 126+21.00 TO STA. 126+25.00 (EAST)
IIIC	11-28-00	STA. 80+60.00 TO STA. 83+40.00 (NORTH) STA. 126+25.00 TO STA. 126+29.00 (EAST)
IVC	10-06-00	STA. 80+60.00 TO STA. 83+40.00 (NORTH) STA. 101+00.00 TO STA. 106+00.00 (EAST)
IVC	10-09-00	STA. 80+60.00 TO STA. 80+30.00 (NORTH) STA. 106+50.00 TO STA. 109+00.00 (EAST)
IVC	10-10-00	STA. 80+30.00 TO STA. 83+40.00 (NORTH) STA. 100+63.40 TO STA. 112+00.00 (EAST)
IVC	12-01-00	STA. 80+30.00 TO STA. 83+40.00 (NORTH) STA. 112+50.00 TO STA. 113+50.00 (EAST)
VA	11-03-00	STA. 77+25.00 TO STA. 80+10.00 (NORTH) STA. 114+30.00 TO STA. 116+00.00 (EAST)
VA	11-06-00	STA. 77+25.00 TO STA. 80+10.00 (NORTH) STA. 114+30.00 TO STA. 120+00.00 (EAST)
VA	11-08-00	STA. 77+25.00 TO STA. 80+10.00 (NORTH) STA. 116+50.00 TO STA. 125+50.00 (EAST)
VA	01-05-01	STA. 78+71.56 TO STA. 79+17.05 (NORTH) STA. 124+97.18 TO STA. 125+42.14 (EAST)
VA	02-21-01	STA. 77+25.00 TO STA. 80+10.00 (NORTH) STA. 113+00.00 TO STA. 114+00.00 (EAST)
VB	01-19-01	STA. 74+60.00 TO STA. 77+10.00 (NORTH) STA. 114+50.00 TO STA. 119+50.00 (EAST)
VB	01-22-01	STA. 74+73.80 TO STA. 77+10.00 (NORTH) STA. 120+00.00 TO STA. 122+00.00 (EAST)
VB	03-07-01	STA. 75+70.79 TO STA. 77+29.28 (NORTH) STA. 122+99.43 TO STA. 124+69.67 (EAST)
VB	03-08-01	STA. 75+56.94 TO STA. 75+92.47 (NORTH) STA. 123+24.38 TO STA. 123+80.08 (EAST)
VC	12-07-00	STA. 77+25.00 TO STA. 79+12.60 (NORTH) STA. 103+00.00 TO STA. 105+50.00 (EAST)
VC	12-08-00	STA. 77+25.00 TO STA. 80+10.00 (NORTH) STA. 100+57.00 TO STA. 102+50.00 (EAST)
VC	12-12-00	STA. 77+30.00 TO STA. 80+10.00 (NORTH) STA. 106+00.00 TO STA. 109+50.00 (EAST)
VC	01-11-01	STA. 77+30.00 TO STA. 80+10.00 (NORTH) STA. 109+50.00 TO STA. 112+75.00 (EAST)
VC	01-18-01	STA. 77+60.00 TO STA. 80+30.00 (NORTH) STA. 100+73.75 (EAST)
VD	02-14-01	STA. 74+60.00 TO STA. 77+10.00 (NORTH) STA. 100+96.70 TO STA. 106+00.00 (EAST)
VD	02-15-01	STA. 74+24.50 TO STA. 77+10.00 (NORTH) STA. 100+06.50 TO STA. 100+49.60 (EAST)
VD	02-26-01	STA. 74+24.50 TO STA. 74+44.60 (NORTH) 105+00.00 TO STA. 106+00.00 (EAST)
VD	02-28-01	STA. 74+24.50 TO STA. 76+12.70 (NORTH) STA. 100+96.70 TO STA. 106+00.00 (EAST)
VD	04-03-01	STA. 74+24.50 TO STA. 77+10.00 (NORTH) STA. 110+50.00 TO STA. 112+50.00 (EAST)
VD	04-04-01	STA. 76+60.00 TO STA. 77+10.00 (NORTH) STA. 113+50.00 TO STA. 114+00.00 (EAST)
VD	04-06-01	STA. 74+24.50 TO STA. 76+13.00 (NORTH) STA. 113+00.00 TO STA. 114+00.00 (EAST)
VD	04-30-01	STA. 74+45.00 TO STA. 77+60.00 (NORTH) STA. 100+70.50 TO STA. 100+73.75 (EAST)
VD	05-21-01	STA. 74+44.97 TO STA. 74+45.00 (NORTH) STA. 100+70.50 TO STA. 114+00.00 (EAST)
VD	06-05-01	STA. 74+44.97 (NORTH) STA. 114+00.00 TO STA. 113+00.00 (EAST)

"AS-BUILT" PROTECTIVE SAND LOCATION TABLE

PHASE	DATE:	LOCATION:
IIIC	11-13-00	STA. 81+10.00 TO STA. 83+40.00 (NORTH) STA. 115+00.00 TO STA. 117+50.00 (EAST)
IIIC	11-14-00	STA. 80+45.00 TO STA. 83+40.00 (NORTH) STA. 118+00.00 TO STA. 123+50.00 (EAST)
IIIC	11-15-00	STA. 80+45.00 TO STA. 83+40.00 (NORTH) STA. 124+00.00 TO STA. 125+50.00 (EAST)
IIIC	11-20-00	STA. 80+68.00 TO STA. 83+40.00 (NORTH) STA. 114+00.00 (EAST)
IIIC	12-01-00	STA. 80+05.00 TO STA. 82+15.00 (NORTH) STA. 114+00.00 (EAST)
IVC	12-06-00	STA. 80+55.00 TO STA. 80+65.00 (NORTH) STA. 101+00.00 TO STA. 110+00.00 (EAST)
IVC	12-13-00	STA. 80+60.00 TO STA. 83+40.00 (NORTH) STA. 100+73.75 (EAST)
IVC	01-03-01	STA. 80+55.00 TO STA. 80+65.00 (NORTH) STA. 110+00.00 TO STA. 113+00.00 (EAST)
IVC	01-04-01	STA. 81+10.00 TO STA. 83+40.00 (NORTH) STA. 100+86.50 TO STA. 106+50.00 (EAST)
IVC	01-08-01	STA. 80+55.00 TO STA. 83+40.00 (NORTH) STA. 100+87.60 TO STA. 113+50.00 (EAST)
IVC	01-15-01	STA. 81+10.00 TO STA. 83+40.00 (NORTH) STA. 107+50.00 TO STA. 110+00.00 (EAST)
IVC	01-16-01	STA. 81+10.00 TO STA. 83+40.00 (NORTH) STA. 110+50.00 TO STA. 113+50.00 (EAST)
VA	02-01-01	STA. 79+05.00 TO STA. 80+30.00 (NORTH) 120+00.00 (EAST)
VA	05-02-01	STA. 77+60.00 (NORTH) 115+50.00 TO STA. 124+69.50 (EAST)
VA	05-03-01	STA. 79+60.00 TO STA. 80+30.00 (NORTH) STA. 115+50.00 TO STA. 120+00.00 (EAST)
VA	05-04-01	STA. 79+60.00 TO STA. 80+30.00 (NORTH) STA. 120+50.00 TO STA. 123+50.00 (EAST)
VA	05-14-01	STA. 80+10.00 TO STA. 80+30.00 (NORTH) STA. 124+50.00 TO STA. 125+94.20 (EAST)
VA	05-30-01	STA. 77+30.00 TO STA. 79+15.00 (NORTH) STA. 115+00.00 TO STA. 119+50.00 (EAST)
VA	06-11-01	STA. 77+30.00 TO STA. 79+15.00 (NORTH) STA. 120+50.00 TO STA. 124+91.00 (EAST)
VA	06-19-01	STA. 78+60.00 TO STA. 79+15.00 (NORTH) STA. 120+50.00 TO STA. 124+91.00 (EAST)
VB	05-23-01	STA. 74+65.50 TO STA. 77+10.00 (NORTH) STA. 107+00.00 (EAST)
VB	06-16-01	STA. 74+60.00 TO STA. 77+10.00 (NORTH) STA. 123+00.00 TO STA. 125+09.00 (EAST)
VB	06-18-01	STA. 74+60.00 TO STA. 77+10.00 (NORTH) STA. 119+00.00 TO STA. 124+43.00 (EAST)
VC	05-01-01	STA. 79+05.00 TO STA. 80+30.00 (NORTH) STA. 101+05.00 TO STA. 106+00.00 (EAST)
VC	05-03-01	STA. 77+30.00 TO STA. 80+30.00 (NORTH) STA. 101+00.00 TO STA. 107+00.00 (EAST)
VC	05-04-01	STA. 77+30.00 TO STA. 78+60.00 (NORTH) STA. 100+98.40 TO STA. 106+00.00 (EAST)
VC	05-14-01	STA. 77+60.00 (NORTH) STA. 106+50.00 TO STA. 115+00.00 (EAST)
VC	05-21-01	STA. 77+30.00 TO STA. 80+30.00 (NORTH) STA. 106+50.00 TO STA. 108+00.00 (EAST)
VC	05-23-01	STA. 77+30.00 TO STA. 80+30.00 (NORTH) STA. 108+50.00 TO STA. 112+00.00 (EAST)
VC	05-24-01	STA. 77+30.00 TO STA. 80+30.00 (NORTH) STA. 112+50.00 TO STA. 114+00.00 (EAST)
VC	06-15-01	STA. 77+30.00 (NORTH) STA. 101+00.00 TO STA. 101+03.00 (EAST)
VD	06-13-01	STA. 74+60.00 TO STA. 77+10.00 (NORTH) STA. 101+00.00 TO STA. 105+00.00 (EAST)
VD	06-14-01	STA. 74+60.00 TO STA. 77+10.00 (NORTH) STA. 105+50.00 TO STA. 114+00.00 (EAST)
VD	06-22-01	STA. 74+60.00 TO STA. 75+10.00 (NORTH) STA. 113+75.00 TO STA. 114+00.00 (EAST)

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

JOSEPH LESLIE REYNOLDS, III
PROFESSIONAL SURVEYOR AND MAPPER
STATE of FLORIDA LS No. 5917

REVISIONS:
1-03-01 ADDED PHASE IVC.
7-13-01 ADDED PHASES VA, VB, VC AND VD.

LINER SYSTEM LOCATION
PHASES IIIC, IVC, VA, VB, VC AND VD

TRAIL RIDGE LANDFILL
FOR TRAIL RIDGE LANDFILL, INC. AND
CITY OF JACKSONVILLE

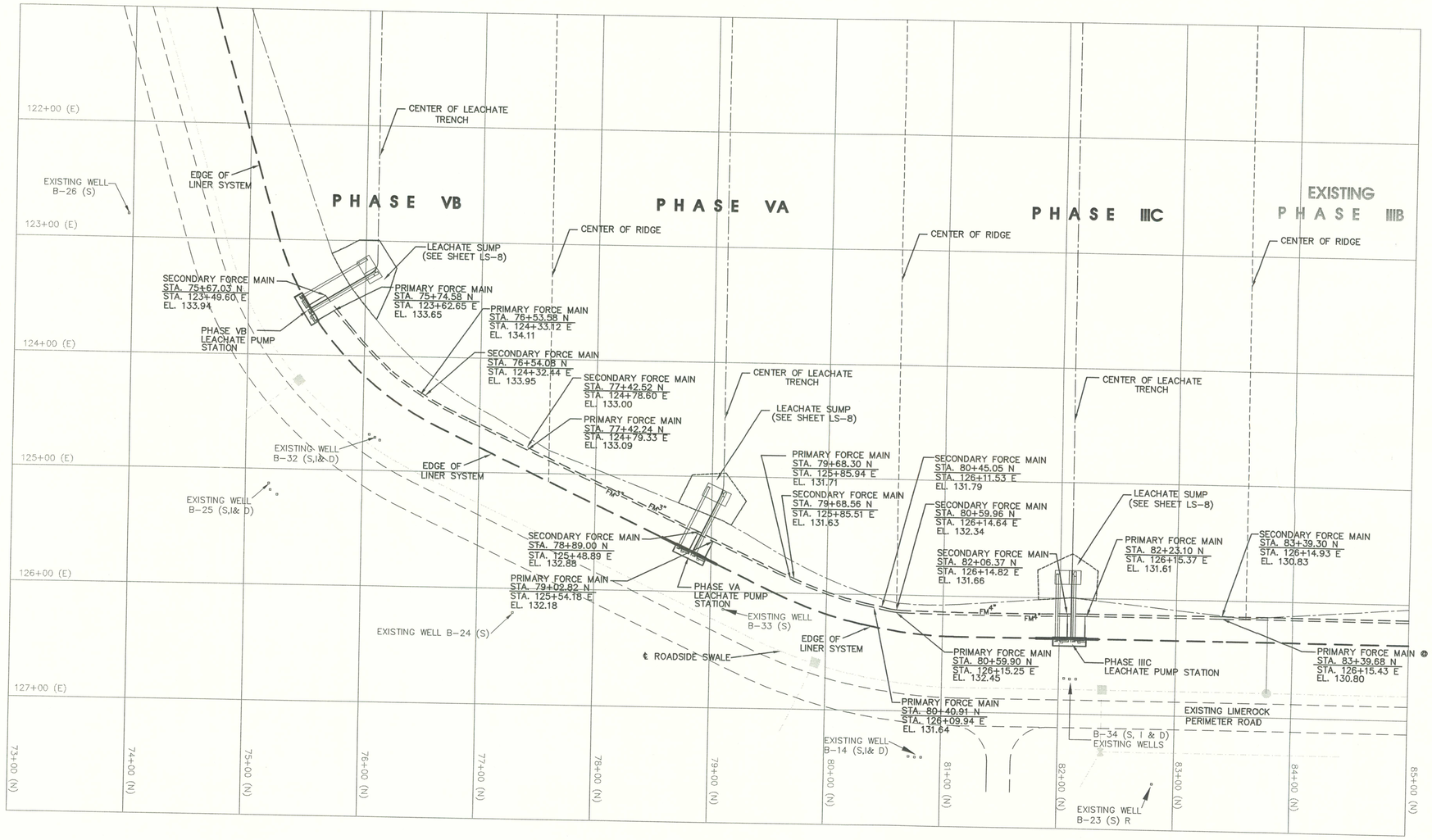
(FORMERLY SUNSHINE STATE SURVEYORS)
Robert M. Angas Associates, inc.
LAND SURVEYORS, PLANNERS AND CIVIL ENGINEERS
SINCE 1924
14775 St. Augustine Road, Jacksonville, FL. 32258
Telephone: (904) 642-8550 Fax: (904) 642-4155
Certificate of Authorization No.: LB 3624

"AS-BUILT"

SHEET LS-9

CAD FILE: G:\LANDFILL\TRAIL\AS-BUILTS\3RDINCR FIELD BOOK: 986, 1038, 1041, 1047, 1055, 1057, 1059, 1063, 1066, 1076 & 1082 DRAWN BY: F.D.D. CHECKED BY: J.L.R.

ORDER NO.: 00-175 COUNTY: DUVAL RANGE: 23E FILE NO.: 115F-20



GRAPHIC SCALE

50 0 25 50 100

(IN FEET)

1 INCH = 50 FEET

NOTES:

1. HORIZONTAL SEPARATION BETWEEN THE PRIMARY FORCE MAIN AND SECONDARY FORCE MAIN HAS BEEN EXAGGERATED FOR CLARITY PURPOSES ONLY. (NOT TO SCALE)
2. LOCAL GRID COORDINATES DERIVED FROM GRID ESTABLISHED IN ENGINEERING PLANS FOR TRAIL RIDGE LANDFILL BY ENGLAND, THIMS AND MILLER, INC.
3. ELEVATIONS BASED ON U.S.C. & G. BENCH MARK AJ-59, LOCATED NEAR INTERSECTION OF U.S. HWY. NO. 301 AND STATE RD. NO. 228. BENCH MARK ELEVATION: 88.412' (NGVD 1929)
4. ELEVATIONS ARE AT TOP OF PIPE.
5. DATE OF LAST FIELD WORK: 6-22-01

LEGEND

- FM4" — LEACHATE FORCE MAIN
- LIMITS OF LINER SYSTEM
- ℄ OF VALLEY
- ℄ OF RIDGE

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JOSEPH LESLIE REYNOLDS, III
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STATE OF FLORIDA LS No. 5517

REVISIONS:
7-13-01 REVISED TO INCLUDE PHASES VA AND VB.

LEACHATE FORCE MAIN PHASES IIIC, VA AND VB

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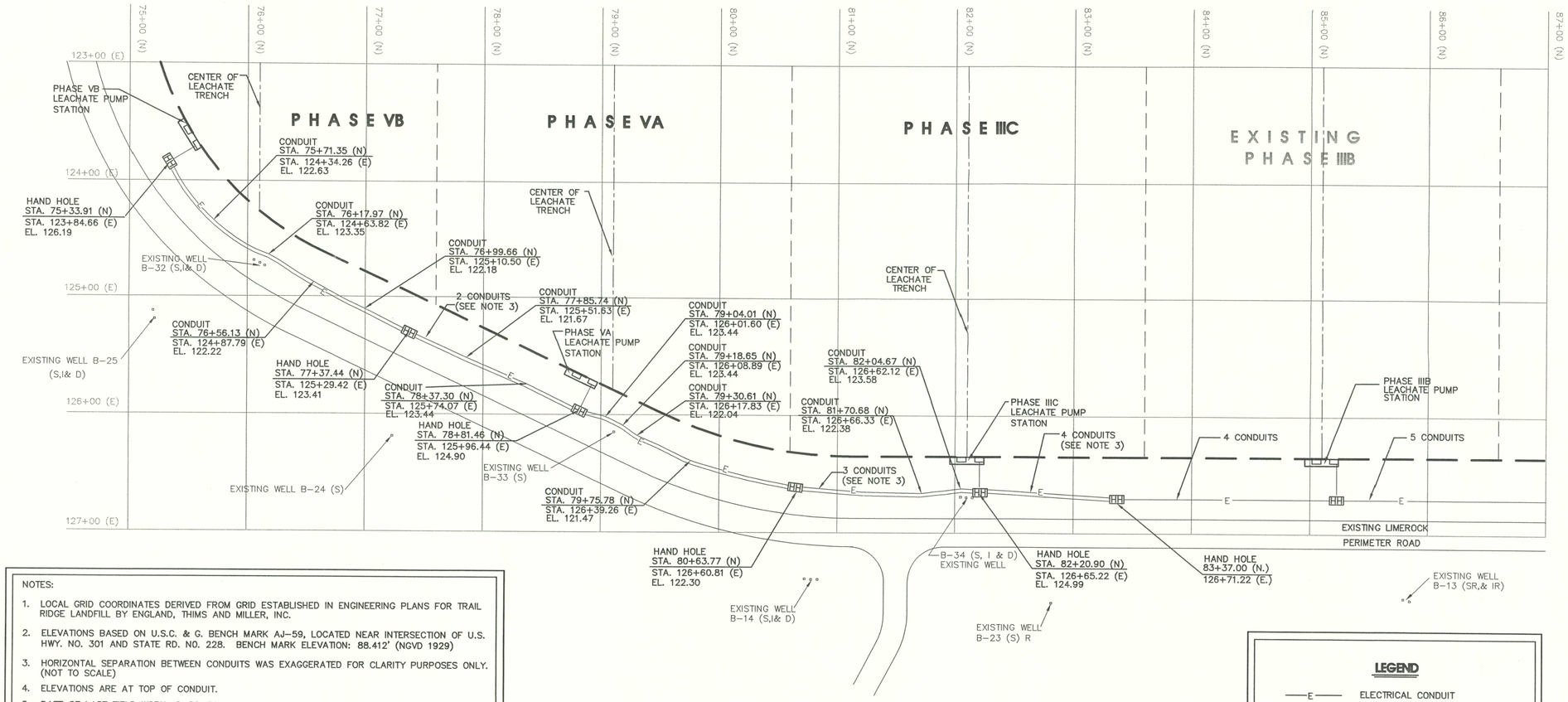
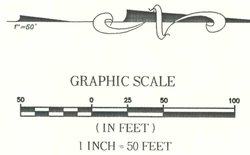
"AS-BUILT"

SHEET LE-2

CAD FILE: G:\\LANDFILL\TRAIL\AS-BUILTS\3RDINCR FIELD BOOK: 1055, 1076 & 1082 DRAWN BY: F.D.D. CHECKED BY: J.L.R.

ORDER NO.: 00-175 COUNTY: DUVAL RANGE: 23E FILE NO.: 115F-20





NOTES:

1. LOCAL GRID COORDINATES DERIVED FROM GRID ESTABLISHED IN ENGINEERING PLANS FOR TRAIL RIDGE LANDFILL BY ENGLAND, THIMS AND MILLER, INC.
2. ELEVATIONS BASED ON U.S.C. & G. BENCH MARK AJ-59, LOCATED NEAR INTERSECTION OF U.S. HWY. NO. 301 AND STATE RD. NO. 228. BENCH MARK ELEVATION: 88.412' (NGVD 1929)
3. HORIZONTAL SEPARATION BETWEEN CONDUITS WAS EXAGGERATED FOR CLARITY PURPOSES ONLY. (NOT TO SCALE)
4. ELEVATIONS ARE AT TOP OF CONDUIT.
5. DATE OF LAST FIELD WORK: 6-22-01

LEGEND

—E—	ELECTRICAL CONDUIT
HH	HANDHOLE
— —	LIMITS OF LINER SYSTEM
— - —	℄ OF VALLEY
— — —	℄ OF RIDGE

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PROFESSIONAL SURVEYOR AND MAPPER
STATE of FLORIDA LS No. 5517

REVISIONS:
7-13-01 REVISED TO INCLUDE PHASES VA AND VB.

ELECTRICAL PHASES IIIC, VA AND VB

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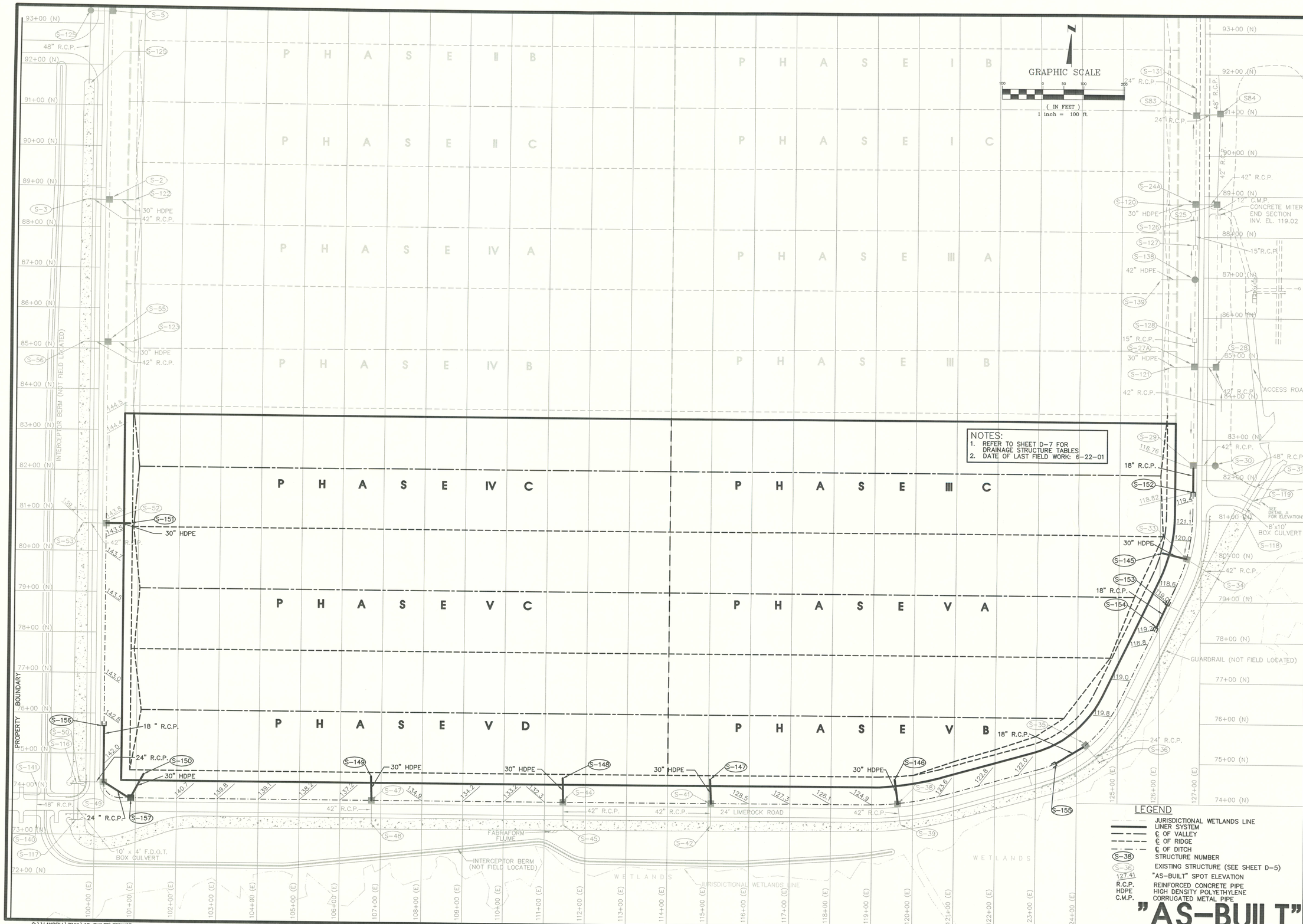
"AS-BUILT"

SHEET E-3

CAD FILE: G:\\LANDFILL\TRAIL\AS-BUILTS\3RDINCR FIELD BOOK: 1076 & 1082 DRAWN BY: F.D.D. CHECKED BY: J.L.R.

ORDER NO.: 00-175 COUNTY: DUVAL RANGE: 23E FILE NO.: 115F-20



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JOSEPH LESLIE REYNOLDS, III
PROFESSIONAL SURVEYOR AND MAPPER
STATE of FLORIDA LS No. 5517

REVISIONS:

DRAINAGE STRUCTURES
PHASES IIIC, IVC, VA, VB, VC AND VD

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SHEET D-5A

CAD FILE: G:\\LANDFILL\TRAIL\AS-BUILTS\3RDINCR FIELD BOOK: 1057, 1066 & 1082 DRAWN BY: F.D.D. CHECKED BY: J.L.R.

ORDER NO.: 00-175 COUNTY: DUVAL RANGE: 23E FILE NO.: 115F-20

AS-BUILT DRAINAGE STRUCTURE TABLE

STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP ELEVATION		SLOT ELEVATION		INVERT ELEVATION		STATION	
		DESIGN	ASBUILT	DESIGN	ASBUILT	DESIGN	ASBUILT	DESIGN	ASBUILT
S-145	30" HDPE PIPE	–	–	–	–	134.2 (30" HDPE SE)	134.1 (30" HDPE SE)	80+18.07 (N) 128+06.60 (E)	80+18.15 (N) 128+05.81 (E)
S-146	30" HDPE PIPE	–	–	–	–	139.9 (30" HDPE SE)	140.0 (30" HDPE SE)	74+53.51 (N) 119+55.52 (E)	74+53.16 (N) 119+55.84 (E)
S-147	30" HDPE PIPE	–	–	–	–	144.8 (30" HDPE S)	144.9 (30" HDPE S)	74+50.20 (N) 115+04.50 (E)	74+51.40 (N) 115+04.68 (E)
S-148	30" HDPE PIPE	–	–	–	–	147.9 (30" HDPE S)	147.5 (30" HDPE S)	74+50.20 (N) 111+43.83 (E)	74+50.75 (N) 111+44.01 (E)
S-149	30" HDPE PIPE	–	–	–	–	151.8 (30" HDPE S)	152.0 (30" HDPE S)	74+50.20 (N) 106+75.46 (E)	74+50.31 (N) 106+75.70 (E)
S-150	30" HDPE PIPE	–	–	–	–	156.7 (30" HDPE S)	156.7 (30" HDPE S)	74+50.20 (N) 101+18.55 (E)	74+50.62 (N) 101+18.59 (E)
S-151	30" HDPE PIPE	–	–	–	–	159.0 (30" HDPE W)	159.1 (30" HDPE W)	80+68.00 (N) 100+79.40 (E)	80+68.90 (N) 100+78.80 (E)
S-152	18" FDOT MITERED END SECTION	–	–	–	–	118.9 (18" HDPE N)	118.9 (18" HDPE N)	81+70.62 (N) 126+78.77 (E)	81+70.62 (N) 126+78.77 (E)
S-153	18" FDOT MITERED END SECTION	–	–	–	–	118.96 (18" R.C.P. SW)	118.96 (18" R.C.P. SW)	78+91.72 (N) 128+18.49 (E)	78+91.72 (N) 128+18.99 (E)
S-154	18" FDOT MITERED END SECTION	–	–	–	–	119.12 (18" R.C.P. NE)	119.15 (18" R.C.P. NE)	78+38.10 (N) 125+92.63 (E)	78+38.10 (N) 125+92.63 (E)
S-155	18" FDOT MITERED END SECTION	–	–	–	–	121.31 (18" R.C.P. NE)	121.34 (18" R.C.P. NE)	74+97.90 (N) 123+49.45 (E)	74+99.63 (N) 123+53.14 (E)
S-156	18" FDOT MITERED END SECTION	–	–	–	–	142.77 (18" R.C.P. S)	142.82 (18" R.C.P. S)	75+68.40 (N) 100+21.00 (E)	75+70.88 (N) 100+21.06 (E)
S-157	MOD. FDOT TYPE "E" INLET (WITH TYPE "J" MANHOLE)	144.0	144.0	142.25	142.18	137.47 (30" HDPE NE) 137.47 (36" R.C.P. NW)	137.51 (30" HDPE NE) 137.49 (24" R.C.P. NW)	73+91.00 (N) 100+91.00 (E)	73+92.64 (N) 100+92.51 (E)
S-158	12" HDPE PIPE	–	–	–	–	132.8 (12" HDPE W)	132.8 (12" HDPE W)	73+91.01 (N) 111+65.00 (E)	73+91.05 (N) 111+67.92 (E)

NOTE:
1. DATE OF LAST FIELD WORK: 6-22-01

"AS-BUILT"

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REVISIONS:

DRAINAGE STRUCTURE TABLES
PHASES IIIC, IVC, VA, VB, VC AND VD

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SHEET D-7

CAD FILE: G:\LANDFILL\TRAIL\AS-BUILTS\3RDINCR FIELD BOOK: 1057, 1066 & 1082 DRAWN BY: F.D.D. CHECKED BY: J.L.R.

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