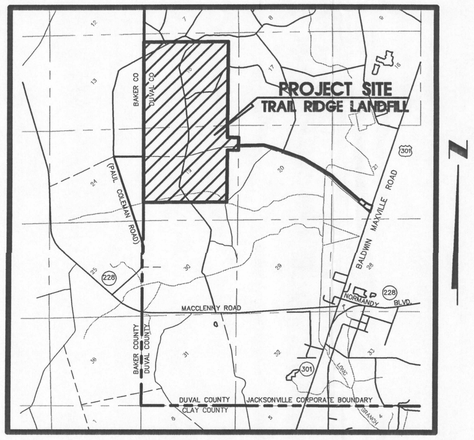
"AS - BUILTS"
OF
TRAIL RIDGE LANDFILL
PHASES I, II, IIIA, IIIB, IIIC, IVA, IVB AND IVC

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



VICINITY MAP

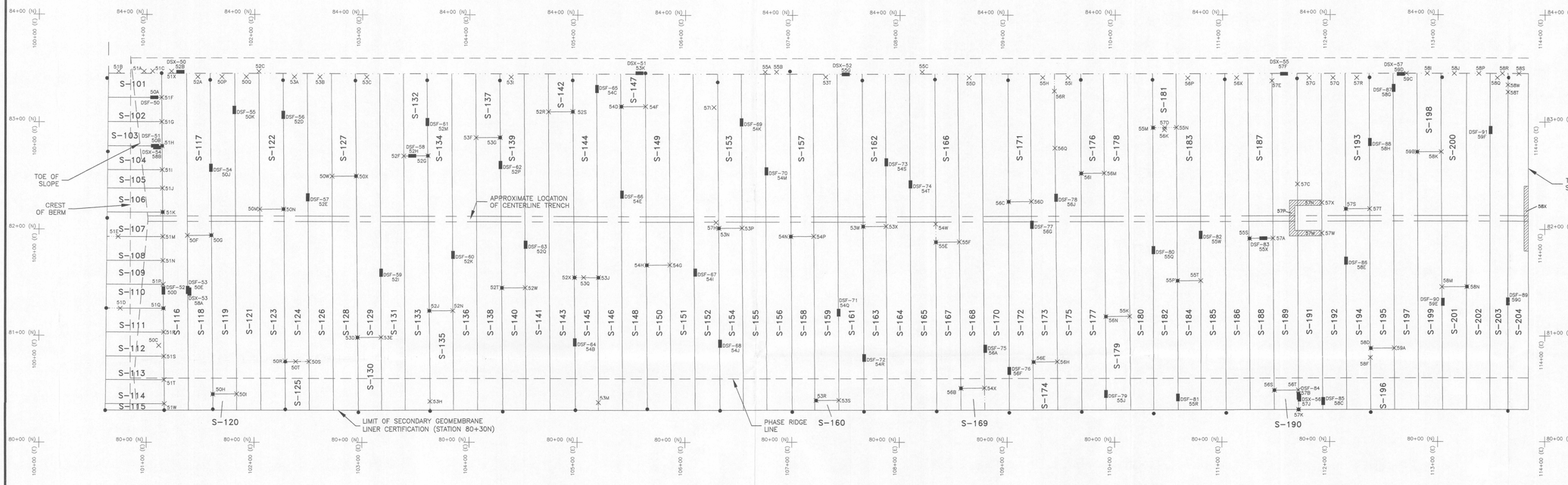
Robert M. Angas Associates, inc.
LAND SURVEYORS, PLANNERS AND CIVIL ENGINEERS
SINCE 1924
14775 St. Augustine Road, Jacksonville, FL. 32258
Telephone: (904) 642-8550 Fax: (904) 642-4165
Certificate of Authorization No.: LB 3624
(FORMERLY SUNSHINE STATE SURVEYORS)

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

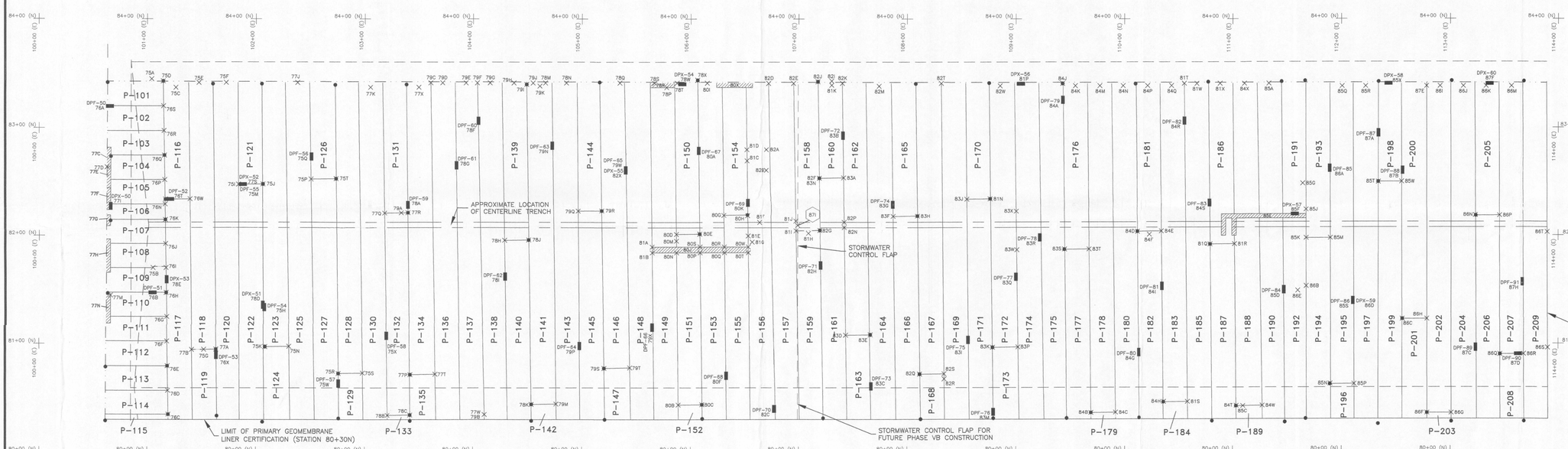
INDEX OF DRAWINGS

COVER SHEET NO. 1

AC only



PHASE IVC
SECONDARY GEOMEMBRANE LINER



PHASE IVC
PRIMARY GEOMEMBRANE LINER

LEGEND

- P-134 — PRIMARY DEPLOYMENT ORDER; PANEL NUMBER
- S-134 — SECONDARY DEPLOYMENT ORDER; PANEL NUMBER
- DPF-56 / 75Q — DESTRUCTIVE SAMPLE NUMBER; DEFECT REPAIR NUMBER; DESTRUCTIVE SAMPLE LOCATION
- 77D — DEFECT REPAIR NUMBER (SEE NOTE 2); DEFECT REPAIR LOCATION
- SURVEY COORDINATE LOCATION (SEE NOTE 4)
- LEACHATE COLLECTION TRENCH
- EXTRUSION WELD
- 80J — CAP (OR EXTENSION) REPAIR NUMBER; CAP (OR EXTENSION) REPAIR AREA (SEE NOTE 3)
- 87I — BOOT/SKIRT NUMBER; BOOT/SKIRT

NOTES:

1. THE LOCATIONS AND DIMENSIONS OF ALL PANELS, SEAMS, DESTRUCTIVE TEST SAMPLES AND REPAIRS SHOWN ON THIS DRAWING ARE APPROXIMATE AND ARE BASED ON FIELD MEASUREMENTS.
2. GEOMEMBRANE SEAM AND DEFECT/REPAIR INFORMATION IS PROVIDED IN APPENDICES I AND J, RESPECTIVELY, OF THE RECORD DOCUMENTATION REPORT.
3. DEFECT REPAIR LOCATIONS SHOWN AS CAPPED AREAS REPRESENT ONLY THE LARGER CAPS.
4. SELECTIVE SEAMS WERE SURVEYED BY ROBERT M. ANGUS ASSOCIATES, INC. TO PROVIDE CONTROL FOR DEVELOPMENT OF THIS RECORD DRAWING. THIS SURVEY DATA IS NOT SHOWN ON THIS DRAWING FOR PURPOSES OF CLARITY BUT WAS SUBMITTED TO TRAIL RIDGE LANDFILL, INC.
5. THIS RECORD DRAWING REPRESENTS THE FINAL SECONDARY AND PRIMARY GEOMEMBRANE LINERS FOR PHASE IVC FOLLOWING ALL REPAIRS.

SCALE IN FEET: 0 50 100 150 200

NAME, ADDRESS, AND REGISTRATION NUMBER OF ENGINEER-OF-RECORD

FRANCIS T. ADAMS

GOLDER ASSOCIATES INC.
8933 WESTERN WAY
SUITE 12
JACKSONVILLE, FLORIDA
32256

FLORIDA P.E. NO. 46417

IMPRESSION SEAL, SIGNATURE AND DATE

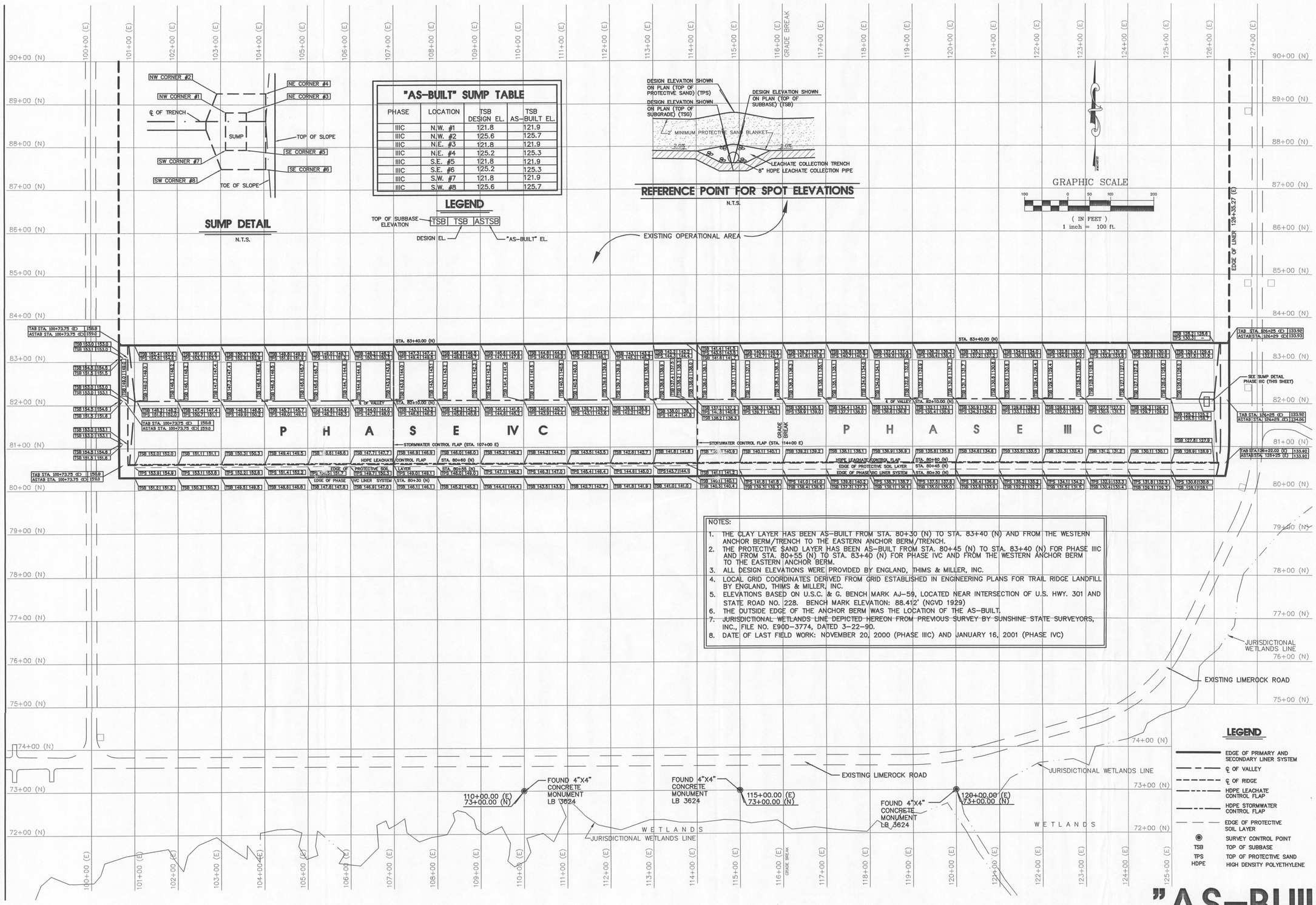
SIGNATURE: Francis T. Adams
DATE: 1/23/01

CLIENT/PROJECT
TRAIL RIDGE LANDFILL
THIRD CONSTRUCTION INCREMENT
BALDWIN, FLORIDA

TITLE
RECORD PANEL LAYOUT OF SECONDARY AND PRIMARY GEOMEMBRANE LINERS FOR PHASE IVC

JACKSONVILLE, FLORIDA
Golder Associates

DRAWN	GMS	DATE	1/23/01
CHECKED		SCALE	AS SHOWN
REVIEWED		DWG. NO. 3979G	REV. NO.
APPROVED		JOB NO. 003-3979	FIGURE 3
FILE NO.		SUBTITLE 003-3979	



"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

NOTES:

1. THE CLAY LAYER HAS BEEN AS-BUILT FROM STA. 80+30 (N) TO STA. 83+40 (N) AND FROM THE WESTERN ANCHOR BERM/TRENCH TO THE EASTERN ANCHOR BERM/TRENCH.
2. THE PROTECTIVE SAND LAYER HAS BEEN AS-BUILT FROM STA. 80+45 (N) TO STA. 83+40 (N) FOR PHASE IIIC AND FROM STA. 80+55 (N) TO STA. 83+40 (N) FOR PHASE IVC 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: NOVEMBER 20, 2000 (PHASE IIIC) AND JANUARY 16, 2001 (PHASE IVC)

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 AS-BUILTS FOR PHASE IVC AND UPDATED SURVEY NOTES.

LINER SYSTEM – CLAY & SAND PHASES IIIC AND IVC

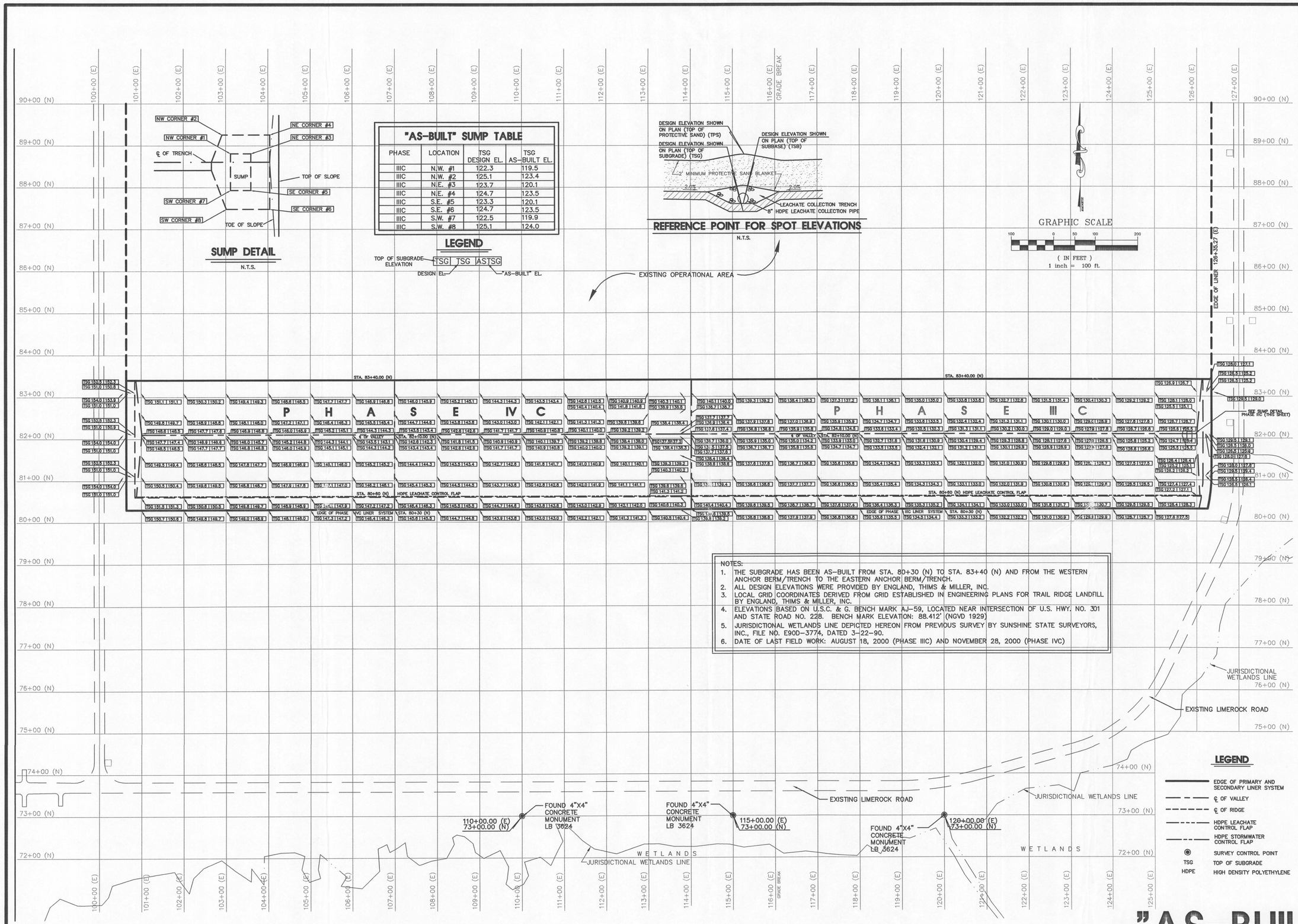
TRAIL RIDGE LANDFILL
FOR TRAIL RIDGE LANDFILL, INC. AND
CITY OF JACKSONVILLE

(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) 642-4185
Certificate of Authorization No.: LB 3624

SHEET LS-8

CAD FILE: G:\LANDFILL\TRAIL\AS-BUILTS\3RDINOR 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



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

NOTES:

1. THE SUBGRADE HAS BEEN AS-BUILT FROM STA. 80+30 (N) 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: AUGUST 18, 2000 (PHASE IIIC) AND NOVEMBER 28, 2000 (PHASE IVC)

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. 5957

REVISIONS:
1-02-01 ADDED AS-BUILTS FOR PHASE IVC AND UPDATED SURVEY NOTES.

LINER SYSTEM - SUBGRADE PHASES IIIC AND IVC

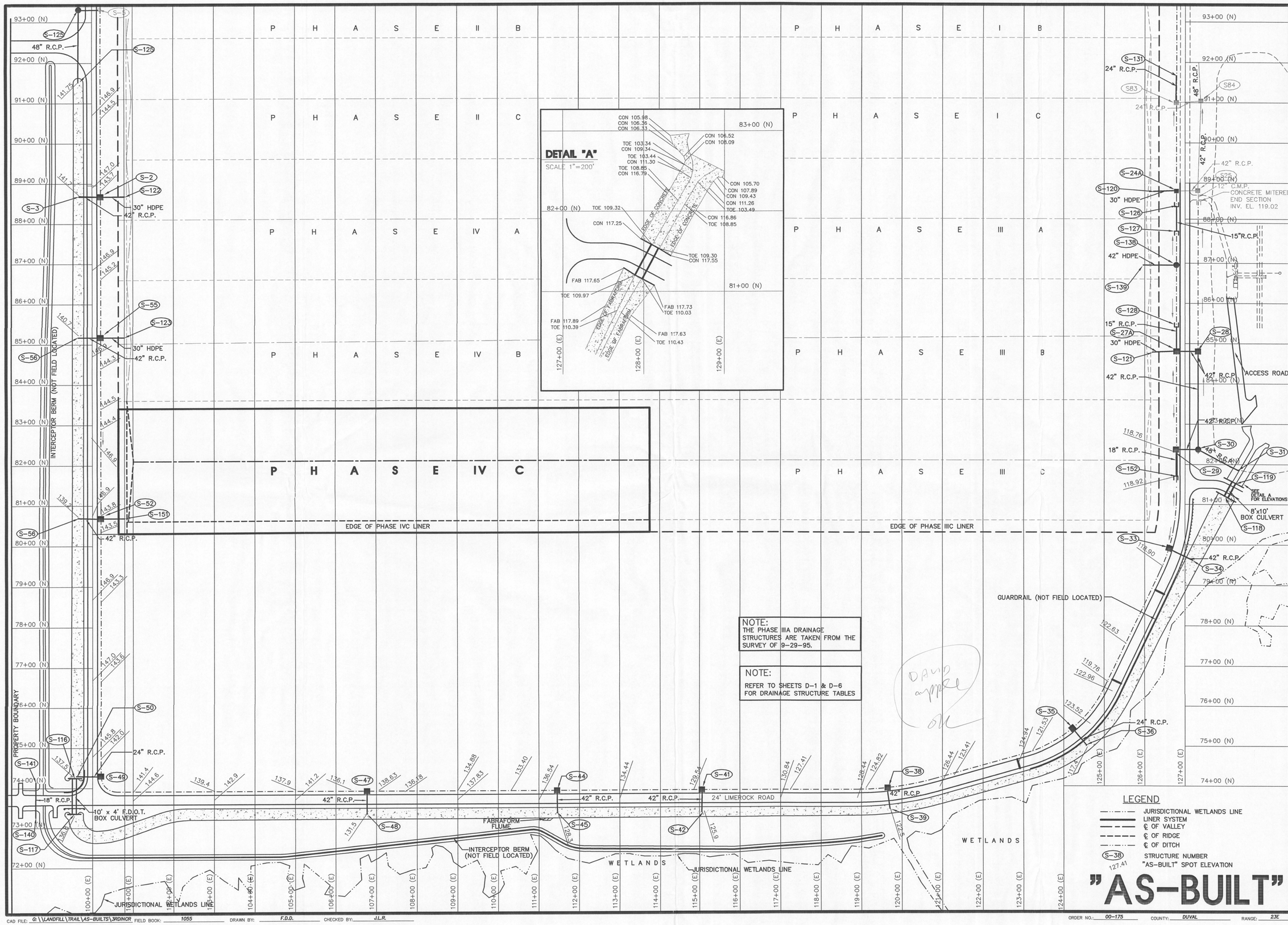
TRAIL RIDGE LANDFILL
FOR TRAIL RIDGE LANDFILL, INC. AND
CITY OF JACKSONVILLE

(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-7

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



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, IVB.
12/20/00	ADDED DRAINAGE STRUCTURE S-152 FOR PHASE IIIC.
01/05/01	ADDED DRAINAGE STRUCTURE S-151 FOR PHASE IVC.

DRAINAGE STRUCTURES PHASES IIIA, IIIB, IIIC, IVA, IVB AND IVC

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-5

CAD FILE: G:\LANDFILL\TRAIL\AS-BUILTS\3RDINOR 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

AS-BUILT DRAINAGE STRUCTURE TABLE

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	118.78 (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) 128+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)	118.26 (42" R.C.P. E) 118.26 (42" C.M.P. W)	118.46 (42" R.C.P. E) 115.50 (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)	118.26 (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+30.69 (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 111.98 (42" R.C.P. SE)	79+91.26 (N) 128+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+81.92 (N) 127+19.07 (E)	79+83.30 (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.~~	—	—	—	—	~~103.80 (42" C.M.P. E)~~	~~103.76 (42" C.M.P. E)~~	~~82+52.50 (N) 123+39.00 (E)~~	~~82+52.55 (N) 123+38.99 (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+82.80 (E)~~	~~82+52.55 (N) 124+82.44 (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) 125+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) 125+78.77 (E)	87+87.18 (N) 128+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) 125+78.77 (E)	85+54.74 (N) 126+78.47 (E)

PHASES IIIB, IVA AND IVB

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+87.00 (N) 99+88.00 (E)	88+88.68 (N) 99+88.45 (E)
S-24A	MOD. FDOT TYPE "E" INLET (DETAIL A)	121.50	121.45	118.78 (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+43.58 (N) 124+21.39 (E)	75+47.14 (N) 12418.7658 (E)
S-36	CONST. MITERED END INTO DITCH PAVING	–	–	–	–	117.20 (24" R.C.P. NW)	117.28 (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+34.85 (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+20.58 (E)
S-53	CONST. MITERED END INTO DITCH PAVING	–	–	–	–	138.74 (42" R.C.P. E)	138.70 (42" R.C.P. E)	80+88.00 (N) 99+83.00 (E)	80+89.06 (N) 99+84.43 (E)
S-55	MOD. FDOT TYPE "E" INLET (DETAIL B)	146.50	146.56	143.78 (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+85.74 (E)	85+19.10 (N) 99+86.77 (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+56.67 (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+67.68 (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 EXST. 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+66.37 (E)
S-131	15" FDOT MITERED END SECTION	–		–	–	118.75 (15" R.C.P. S)	118.01 (15" R.C.P. S)	91+50.00 (N) 126+78.77 (E)	91+65.67 (N) 126+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)	94+44.48 (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+83.58 (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+94.81 (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)

PHASES IIIC AND IVC

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)
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)

"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. 5917

REVISIONS:
12/16/96 ADDED DRAINAGE STRUCTURES FOR PHASES IIIB, IVA AND IVB.
12/20/00 ADDED DRAINAGE STRUCTURE DATA FOR PHASE IIIC.
01/05/01 ADDED DRAINAGE STRUCTURE DATA FOR PHASE IVC.

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

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

G:\LANDFILL\TRAIL\AS-BUILTS\3rdincr.dwg 5/01/01 9:59:44 AM JaspsF

"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	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)

"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)

"AS-BUILT" SAND BLANKET 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)

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

REVISIONS:
1-03-01 ADDED AS-BUILTS FOR PHASE IVC

AS-BUILT LOCATION TABLE
PHASES IIIA, IIIB, IIIC, IVA, IVB AND IVC

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"AS-BUILT"

SHEET LS-9

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