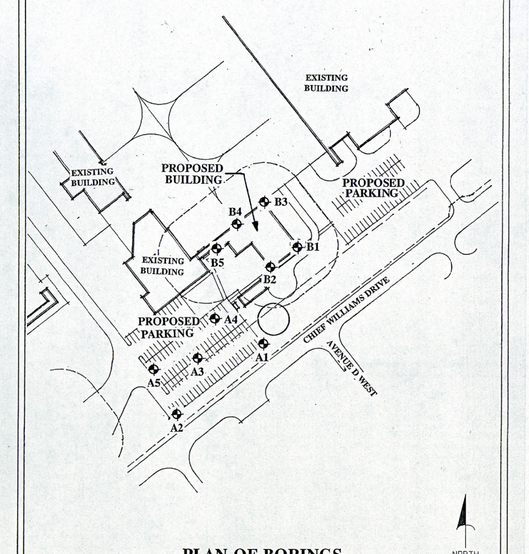
ANDERSON ENGINEERING CONSULTANTS, INC.
10205 ROCKWOOD ROAD, LITTLE ROCK, ARKANSAS 72204

NOT DRAWN TO SCALE.



PLAN OF BORINGS

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Geotechnical Engineering - Environmental Assessments - Quality Control Of Construction Materials

PLATE 2

ANDERSON ENGINEERING CONSULTANTS, INC.
10205 ROCKWOOD ROAD, LITTLE ROCK, ARKANSAS 72204

LOG OF BORING

PROJECT: PROPOSED FUSELAGE TRAINER - LRAFB JACKSONVILLE, ARKANSAS
FOR: ATKINS BENHAM - ARKANSAS DIVISION
DATE: 08/12/02
DRILLER: MOYERS CME 55
BORING NO: A1
LOCATION: SEE PLAN OF BORINGS
JOB NO: 8617
BORING TYPE: AUGER W/SPT
GEOTECHNICIAN: MCCAULEY
GROUND ELEVATION: NOT FURNISHED

LEGEND: S Shelby Tube; Core; Static Water Table; NX Diamond Core; Standard Penetration; Hydrostatic Water Table; P Penetration Test; J-Jar; No Recovery

Depth In Meters	Sample Type & No.	N-Blows Per 0.3 Meter	Sample Symbol	VISUAL DESCRIPTION OF STRATUM
0	P1	8		LOOSE MOIST BROWN CLAYEY SAND (SC) WITH GRAVEL (FILL)
1	P2	5		SHALE/CONSTRUCTION DEBRIS (FILL) (TREATED WOOD/COOPER WIRE)
2	P3	13		SHALE/CONSTRUCTION DEBRIS (FILL) (TREATED WOOD/COOPER WIRE)
3	P4	4		SHALE/CONSTRUCTION DEBRIS (FILL) (TREATED WOOD/COOPER WIRE)
4	P5	50/0.08		HARD WEATHERED GRAY SHALE
5				BOTTOM OF HOLE AT 3.20 METERS. BORING REMAINED OPEN. NO WATER WAS ENCOUNTERED DURING DRILLING. WATER LEVEL AT 1.22 METERS UPON COMPLETION OF DRILLING.
6				
7				

Geotechnical Engineering-Environmental Assessments-Quality Control Of Construction Materials

PLATE 8

ANDERSON ENGINEERING CONSULTANTS, INC.
10205 ROCKWOOD ROAD, LITTLE ROCK, ARKANSAS 72204

LOG OF BORING

PROJECT: PROPOSED FUSELAGE TRAINER - LRAFB JACKSONVILLE, ARKANSAS
FOR: ATKINS BENHAM - ARKANSAS DIVISION
DATE: 08/12/02
DRILLER: MOYERS CME 55
BORING NO: A2
LOCATION: SEE PLAN OF BORINGS
JOB NO: 8617
BORING TYPE: AUGER W/SPT
GEOTECHNICIAN: MCCAULEY
GROUND ELEVATION: NOT FURNISHED

LEGEND: S Shelby Tube; Core; Static Water Table; NX Diamond Core; Standard Penetration; Hydrostatic Water Table; P Penetration Test; J-Jar; No Recovery

Depth In Meters	Sample Type & No.	N-Blows Per 0.3 Meter	Sample Symbol	VISUAL DESCRIPTION OF STRATUM
0	P1	20		MEDIUM DENSE MOIST BROWN CLAYEY SAND (SC) WITH SHALE (FILL)
1	P2	50/0.13		MODERATELY HARD WEATHERED GRAY SHALE
2	P3	50/0.15		HARD WEATHERED GRAY SHALE
3	P4	50/0.00		HARD WEATHERED GRAY SHALE
4	P5	50/0.00		HARD WEATHERED GRAY SHALE
5				BOTTOM OF HOLE AT 3.20 METERS. BORING REMAINED OPEN. NO WATER WAS ENCOUNTERED DURING DRILLING. WATER LEVEL AT 1.22 METERS UPON COMPLETION OF DRILLING.
6				
7				

Geotechnical Engineering-Environmental Assessments-Quality Control Of Construction Materials

PLATE 9

ANDERSON ENGINEERING CONSULTANTS, INC.
10205 ROCKWOOD ROAD, LITTLE ROCK, ARKANSAS 72204

LOG OF BORING

PROJECT: PROPOSED FUSELAGE TRAINER - LRAFB JACKSONVILLE, ARKANSAS
FOR: ATKINS BENHAM - ARKANSAS DIVISION
DATE: 08/12/02
DRILLER: MOYERS CME 55
BORING NO: A3
LOCATION: SEE PLAN OF BORINGS
JOB NO: 8617
BORING TYPE: AUGER W/SPT
GEOTECHNICIAN: MCCAULEY
GROUND ELEVATION: NOT FURNISHED

LEGEND: S Shelby Tube; Core; Static Water Table; NX Diamond Core; Standard Penetration; Hydrostatic Water Table; P Penetration Test; J-Jar; No Recovery

Depth In Meters	Sample Type & No.	N-Blows Per 0.3 Meter	Sample Symbol	VISUAL DESCRIPTION OF STRATUM
0	P1	45		DENSE MOIST BROWN CLAYEY SAND (SC) WITH SHALE (FILL)
1	P2	50/0.00		HARD WEATHERED GRAY SHALE
2	P3	50/0.00		HARD WEATHERED GRAY SHALE
3	P4	50/0.00		HARD WEATHERED GRAY SHALE
4				BOTTOM OF HOLE AT 3.44 METERS. BORING REMAINED OPEN. NO WATER WAS ENCOUNTERED DURING DRILLING. WATER LEVEL AT 1.52 METERS UPON COMPLETION OF DRILLING.
5				
6				
7				

Geotechnical Engineering-Environmental Assessments-Quality Control Of Construction Materials

PLATE 10

ANDERSON ENGINEERING CONSULTANTS, INC.
10205 ROCKWOOD ROAD, LITTLE ROCK, ARKANSAS 72204

LOG OF BORING

PROJECT: PROPOSED FUSELAGE TRAINER - LRAFB JACKSONVILLE, ARKANSAS
FOR: ATKINS BENHAM - ARKANSAS DIVISION
DATE: 08/12/02
DRILLER: MOYERS CME 55
BORING NO: A4
LOCATION: SEE PLAN OF BORINGS
JOB NO: 8617
BORING TYPE: AUGER W/SPT
GEOTECHNICIAN: MCCAULEY
GROUND ELEVATION: NOT FURNISHED

LEGEND: S Shelby Tube; Core; Static Water Table; NX Diamond Core; Standard Penetration; Hydrostatic Water Table; P Penetration Test; J-Jar; No Recovery

Depth In Meters	Sample Type & No.	N-Blows Per 0.3 Meter	Sample Symbol	VISUAL DESCRIPTION OF STRATUM
0	P1	40		DENSE MOIST BROWN CLAYEY SAND (SC) WITH GRAVEL (FILL)
1	P2	8		LOOSE MOIST BROWN CLAYEY SAND (SC) WITH SHALE (FILL)
2	P3	50/0.23		MODERATELY HARD WEATHERED GRAY SHALE
3	P4	50/0.05		HARD WEATHERED GRAY SHALE
4	P5	50/0.05		HARD WEATHERED GRAY SHALE
5				BOTTOM OF HOLE AT 3.20 METERS. BORING REMAINED OPEN. NO WATER WAS ENCOUNTERED DURING DRILLING. WATER LEVEL AT 1.37 METERS UPON COMPLETION OF DRILLING.
6				
7				

Geotechnical Engineering-Environmental Assessments-Quality Control Of Construction Materials

PLATE 11

ANDERSON ENGINEERING CONSULTANTS, INC.
10205 ROCKWOOD ROAD, LITTLE ROCK, ARKANSAS 72204

LOG OF BORING

PROJECT: PROPOSED FUSELAGE TRAINER - LRAFB JACKSONVILLE, ARKANSAS
FOR: ATKINS BENHAM - ARKANSAS DIVISION
DATE: 05/22/02
DRILLER: MOYERS CME 55
BORING NO: A5
LOCATION: SEE PLAN OF BORINGS
JOB NO: 8617
BORING TYPE: AUGER W/SPT
GEOTECHNICIAN: MCCAULEY
GROUND ELEVATION: NOT FURNISHED

LEGEND: S Shelby Tube; Core; Static Water Table; NX Diamond Core; Standard Penetration; Hydrostatic Water Table; P Penetration Test; J-Jar; No Recovery

Depth In Meters	Sample Type & No.	N-Blows Per 0.3 Meter	Sample Symbol	VISUAL DESCRIPTION OF STRATUM
0	P1	29		MEDIUM DENSE MOIST BROWN CLAYEY SAND (SC) WITH SHALE (FILL)
1	P2	27		MEDIUM DENSE MOIST BROWN CLAYEY SAND (SC) WITH SHALE (FILL)
2	P3	35		DENSE MOIST GRAY CLAYEY SAND (SC) WITH SHALE (FILL)
3	P4	50/0.02		HARD WEATHERED GRAY SHALE
4	P5	50/0.05		HARD WEATHERED GRAY SHALE
5				BOTTOM OF HOLE AT 3.20 METERS. BORING REMAINED OPEN. NO WATER WAS ENCOUNTERED DURING DRILLING. WATER LEVEL AT 0.91 METER UPON COMPLETION OF DRILLING.
6				
7				

Geotechnical Engineering-Environmental Assessments-Quality Control Of Construction Materials

PLATE 12

ANDERSON ENGINEERING CONSULTANTS, INC.
10205 ROCKWOOD ROAD, LITTLE ROCK, ARKANSAS 72204

LOG OF BORING

PROJECT: PROPOSED FUSELAGE TRAINER - LRAFB JACKSONVILLE, ARKANSAS
FOR: ATKINS BENHAM - ARKANSAS DIVISION
DATE: 05/22/02
DRILLER: MOYERS CME 55
BORING NO: B1
LOCATION: SEE PLAN OF BORINGS
JOB NO: 8617
BORING TYPE: AUGER W/SPT
GEOTECHNICIAN: MCCAULEY
GROUND ELEVATION: NOT FURNISHED

LEGEND: S Shelby Tube; Core; Static Water Table; NX Diamond Core; Standard Penetration; Hydrostatic Water Table; P Penetration Test; J-Jar; No Recovery

Depth In Meters	Sample Type & No.	N-Blows Per 0.3 Meter	Sample Symbol	VISUAL DESCRIPTION OF STRATUM
0	P1	12		127 MILLIMETERS OF ASPHALT WITH 51 MILLIMETERS OF GRAVEL BASE MEDIUM DENSE MOIST BROWN CLAYEY SAND (SC) WITH GRAVEL (FILL)
1	P2	14		MEDIUM DENSE MOIST BROWN CLAYEY SAND (SC) WITH SHALE (FILL)
2	P3	50/0.30		HARD WEATHERED GRA' SHALE
3	P4	50/0.00		HARD WEATHERED GRA' SHALE
4	P5	50/0.00		HARD WEATHERED GRA' SHALE
5	P6	50/0.00		HARD WEATHERED DARE GRAY SHALE
6				BOTTOM OF HOLE AT 4.72 METERS. BORING REMAINED OPEN. NO WATER WAS ENCOUNTERED IN THIS BORING.
7				

Geotechnical Engineering-Environmental Assessments-Quality Control Of Construction Materials

PLATE 3

ANDERSON ENGINEERING CONSULTANTS, INC.
10205 ROCKWOOD ROAD, LITTLE ROCK, ARKANSAS 72204

LOG OF BORING

PROJECT: PROPOSED FUSELAGE TRAINER - LRAFB JACKSONVILLE, ARKANSAS
FOR: ATKINS BENHAM - ARKANSAS DIVISION
DATE: 05/22/02
DRILLER: MOYERS CME 55
BORING NO: B2
LOCATION: SEE PLAN OF BORINGS
JOB NO: 8617
BORING TYPE: AUGER W/SPT
GEOTECHNICIAN: MCCAULEY
GROUND ELEVATION: NOT FURNISHED

LEGEND: S Shelby Tube; Core; Static Water Table; NX Diamond Core; Standard Penetration; Hydrostatic Water Table; P Penetration Test; J-Jar; No Recovery

Depth In Meters	Sample Type & No.	N-Blows Per 0.3 Meter	Sample Symbol	VISUAL DESCRIPTION OF STRATUM
0	P1	10		127 MILLIMETERS OF ASPHALT WITH 51 MILLIMETERS OF GRAVEL BASE LOOSE MOIST BROWN CLAYEY SAND (SC) WITH SHALE (FILL)
1	P2	24		MEDIUM DENSE MOIST BROWN CLAYEY SAND (SC) WITH SHALE (FILL)
2	P3	50/0.00		HARD WEATHERED GRAY SHALE
3	P4	50/0.00		HARD WEATHERED GRAY SHALE
4	P5	50/0.00		HARD WEATHERED GRAY SHALE
5	P6	50/0.00		HARD WEATHERED DARK GRAY SHALE
6				BOTTOM OF HOLE AT 4.72 METERS. BORING REMAINED OPEN. NO WATER WAS ENCOUNTERED IN THIS BORING.
7				

Geotechnical Engineering-Environmental Assessments-Quality Control Of Construction Materials

PLATE 4

ANDERSON ENGINEERING CONSULTANTS, INC.
10205 ROCKWOOD ROAD, LITTLE ROCK, ARKANSAS 72204

LOG OF BORING

PROJECT: PROPOSED FUSELAGE TRAINER - LRAFB JACKSONVILLE, ARKANSAS
FOR: ATKINS BENHAM - ARKANSAS DIVISION
DATE: 05/22/02
DRILLER: MOYERS CME 55
BORING NO: B3
LOCATION: SEE PLAN OF BORINGS
JOB NO: 8617
BORING TYPE: AUGER W/SPT
GEOTECHNICIAN: MCCAULEY
GROUND ELEVATION: NOT FURNISHED

LEGEND: S Shelby Tube; Core; Static Water Table; NX Diamond Core; Standard Penetration; Hydrostatic Water Table; P Penetration Test; J-Jar; No Recovery

Depth In Meters	Sample Type & No.	N-Blows Per 0.3 Meter	Sample Symbol	VISUAL DESCRIPTION OF STRATUM
0	P1	33		127 MILLIMETERS OF ASPHALT WITH 51 MILLIMETERS OF GRAVEL BASE DENSE MOIST BROWN CLAYEY SAND (SC) WITH SHALE (FILL)
1	P2	50/0.18		MODERATELY HARD WEATHERED BROWN SHALE
2	P3	50/0.10		HARD WEATHERED BROWN SHALE
3	P4	50/0.10		HARD WEATHERED GRAY SHALE
4	P5	50/0.05		HARD WEATHERED GRAY SHALE
5	P6	50/1.00		HARD WEATHERED DARK GRAY SHALE
6				BOTTOM OF HOLE AT 4.72 METERS. BORING REMAINED OPEN. NO WATER WAS ENCOUNTERED IN THIS BORING.
7				

Geotechnical Engineering-Environmental Assessments-Quality Control Of Construction Materials

PLATE 5

ANDERSON ENGINEERING CONSULTANTS, INC.
10205 ROCKWOOD ROAD, LITTLE ROCK, ARKANSAS 72204

LOG OF BORING

PROJECT: PROPOSED FUSELAGE TRAINER - LRAFB JACKSONVILLE, ARKANSAS
FOR: ATKINS BENHAM - ARKANSAS DIVISION
DATE: 05/22/02
DRILLER: MOYERS CME 55
BORING NO: B4
LOCATION: SEE PLAN OF BORINGS
JOB NO: 8617
BORING TYPE: AUGER W/SPT
GEOTECHNICIAN: MCCAULEY
GROUND ELEVATION: NOT FURNISHED

LEGEND: S Shelby Tube; Core; Static Water Table; NX Diamond Core; Standard Penetration; Hydrostatic Water Table; P Penetration Test; J-Jar; No Recovery

Depth In Meters	Sample Type & No.	N-Blows Per 0.3 Meter	Sample Symbol	VISUAL DESCRIPTION OF STRATUM
0	P1	39		127 MILLIMETERS OF ASPHALT WITH 51 MILLIMETERS OF GRAVEL BASE DENSE MOIST BROWN CLAYEY SAND (SC) WITH SHALE (FILL)
1	P2	50/0.18		MODERATELY HARD WEATHERED BROWN SHALE
2	P3	50/0.05		HARD WEATHERED BROWN SHALE
3	P4	50/0.05		HARD WEATHERED GRAY SHALE
4	P5	50/0.02		HARD WEATHERED GRAY SHALE
5	P6	50/0.02		HARD WEATHERED DARK GRAY SHALE
6				BOTTOM OF HOLE AT 4.72 METERS. BORING REMAINED OPEN. NO WATER WAS ENCOUNTERED IN THIS BORING.
7				

Geotechnical Engineering-Environmental Assessments-Quality Control Of Construction Materials

PLATE 6

ANDERSON ENGINEERING CONSULTANTS, INC.
10205 ROCKWOOD ROAD, LITTLE ROCK, ARKANSAS 72204

LOG OF BORING

PROJECT: PROPOSED FUSELAGE TRAINER - LRAFB JACKSONVILLE, ARKANSAS
FOR: ATKINS BENHAM - ARKANSAS DIVISION
DATE: 05/22/02
DRILLER: MOYERS CME 55
BORING NO B5
LOCATION: SEE PLAN OF BORINGS
JOB NO: 8617
BORING TYPE: AUGER W/SPT
GEOTECHNICIAN: MCCAULEY
GROUND ELEVATION: NOT FURNISHED

LEGEND: S Shelby Tube; Core; Static Water Table; NX Diamond Core; Standard Penetration; Hydrostatic Water Table; P Penetration Test; J-Jar; No Recovery

Depth In Meters	Sample Type & No.	N-Blows Per 0.3 Meter	Sample Symbol	VISUAL DESCRIPTION OF STRATUM
0	P1	50/0.18		127 MILLIMETERS OF ASPHALT WITH 51 MILLIMETERS OF GRAVEL BASE MODERATELY HARD WEATHERED BROWN AND GRAY SHALE (FILL)
1	P2	50/0.15		MODERATELY HARD WEATHERED BROWN AND GRAY SHALE
2	P3	50/0.05		HARD WEATHERED GRAY SHALE
3	P4	50/0.02		HARD WEATHERED GRAY SHALE
4	P5	50/0.02		HARD WEATHERED GRAY SHALE
5	P6	50/0.02		HARD WEATHERED DARK GRAY SHALE
6				BOTTOM OF HOLE AT 4.72 METERS BORING REMAINED OPEN. NO WATER WAS ENCOUNTERED IN THIS BORING.
7				

Geotechnical Engineering-Environmental Assessments-Quality Control Of Construction Materials

PLATE 7

U.S. ARMY CORPS OF ENGINEERS
LITTLE ROCK DISTRICT

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.

Contract Date:
File Name: 8310018-100
Plot date: 02/04/03
Plot scale: 1:1
Contract No: DACA03-03-B-

Drawn by:
Dwg. Code:

Designed by:
Reviewed by:

Submitted by: Atkins Benham, Inc.
Invitation No: DACA03-03-R-0021

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
LITTLE ROCK DISTRICT
LITTLE ROCK, ARKANSAS

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a wholly owned subsidiary of Atkins group of companies
WS ATKINS

ADAL C-130J AIRCREW FUSELAGE TRAINER
LRAFB, LITTLE ROCK AR.
Project No. NKAK 043005

SOIL BORING LOG

Sheet Reference Number:
B-100
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