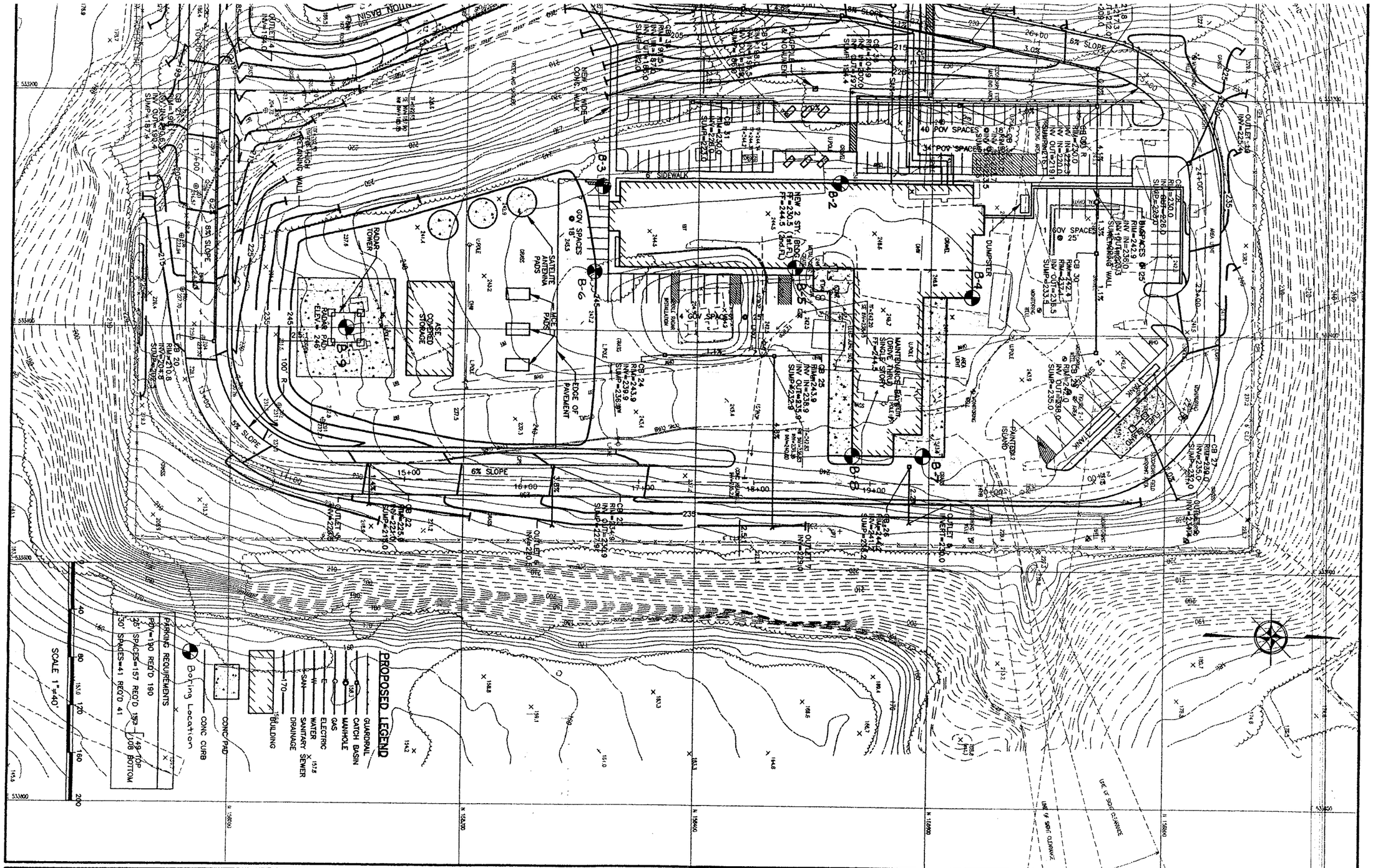


Dwg. No. C-5	Proj. No. 14881	103RD AIR CONTROL SQUADRON ORANGE, CONNECTICUT GRADING AND UTILITIES PLAN	Proj. Mgr.: P.M. Designed : J.M.Mc. Drawn : J.M.M. Checked : J.K.M. Scale : NOTED Date : 12/11/98	Maguire Group Inc. Architects/Engineers/Planners One Court Street New Britain, Ct. 06051	BORING LOCATION PLAN Revisions : Figure - 1 Approved :

NOTES:

1. APPROXIMATE PROPERTY LINE INFORMATION OBTAINED FROM "SITE BR-15 ORANGE-WEST HAVEN,CT CONTROL AREA" LAYOUT PLAN, SHEET NO. 2 OF 15, SUPPLIED TO CHAS H. SELLS,INC. BY L-C ASSOCIATES, AUGUST 31, 1998.
2. APPROXIMATE EASEMENT LINE INFORMATION OBTAINED FROM "SITE BR-15 ORANGE-WEST HAVEN,CT CONTROL AREA" ACCESS ROAD PLAN AND PROFILE, SHEET NO. 4 OF 15, SUPPLIED TO CHAS. H. SELLS,INC. BY L-C ASSOCIATES, AUGUST 31, 1998.
3. ALL BUILDING NUMBERS AND DESCRIPTIONS OBTAINED FROM "RECONDUCTOR OVERHEAD LINE-ORANGE" SITE PLAN ELEC. SHEET NO. 1 OF 1, SUPPLIED TO CHAS. H. SELLS,INC. BY L-C ASSOCIATES, AUGUST 31, 1998.
4. APPROXIMATE IRP AREAS OBTAINED FROM "EXISTING AND PROPOSED INVESTIGATION LOCATIONS, 103 TCS ORANGE ANGS, ORANGE AND WEST HAVEN,CT" FIGURES 2-1 AND 2-2, SUPPLIED TO CHAS. H. SELLS,INC. BY L-C ASSOCIATES, AUGUST 31, 1998.
5. LINE OF SIGHT CLEARANCE LINES OBTAINED FROM "VOL 160 PAGE 239" EXHIBIT "B" SUPPLIED TO CHAS. H. SELLS,INC. BY L-C ASSOCIATES, NOVEMBER 3, 1998.
6. MASKING AREA LINES OBTAINED FROM "VOL 160 PAGE 239" EXHIBIT "B" SUPPLIED TO CHAS. H. SELLS,INC. BY L-C ASSOCIATES, NOVEMBER 3, 1998.

MAGUIRE GROUP

Project Air National Guard - Orange, Conn. Acc. No. 14551
Subject Generalized Soil Profile Legend and Scale Sheet No. 1 of 9
Date March 19 99
Comp. NBT Check DRS Cont. No.

Figure - 3

LEGEND

- Boring Location
- Existing Ground Surface
- Approximate Strata Change
- Approximate Bedrock Surface
- Cobbles and Boulders
- Reported Groundwater
- Bottom of Boring
- Proposed Footing
- Proposed Ground Surface

SCALE

Horizontal : 1" = 40'

Vertical : 1 = 10'

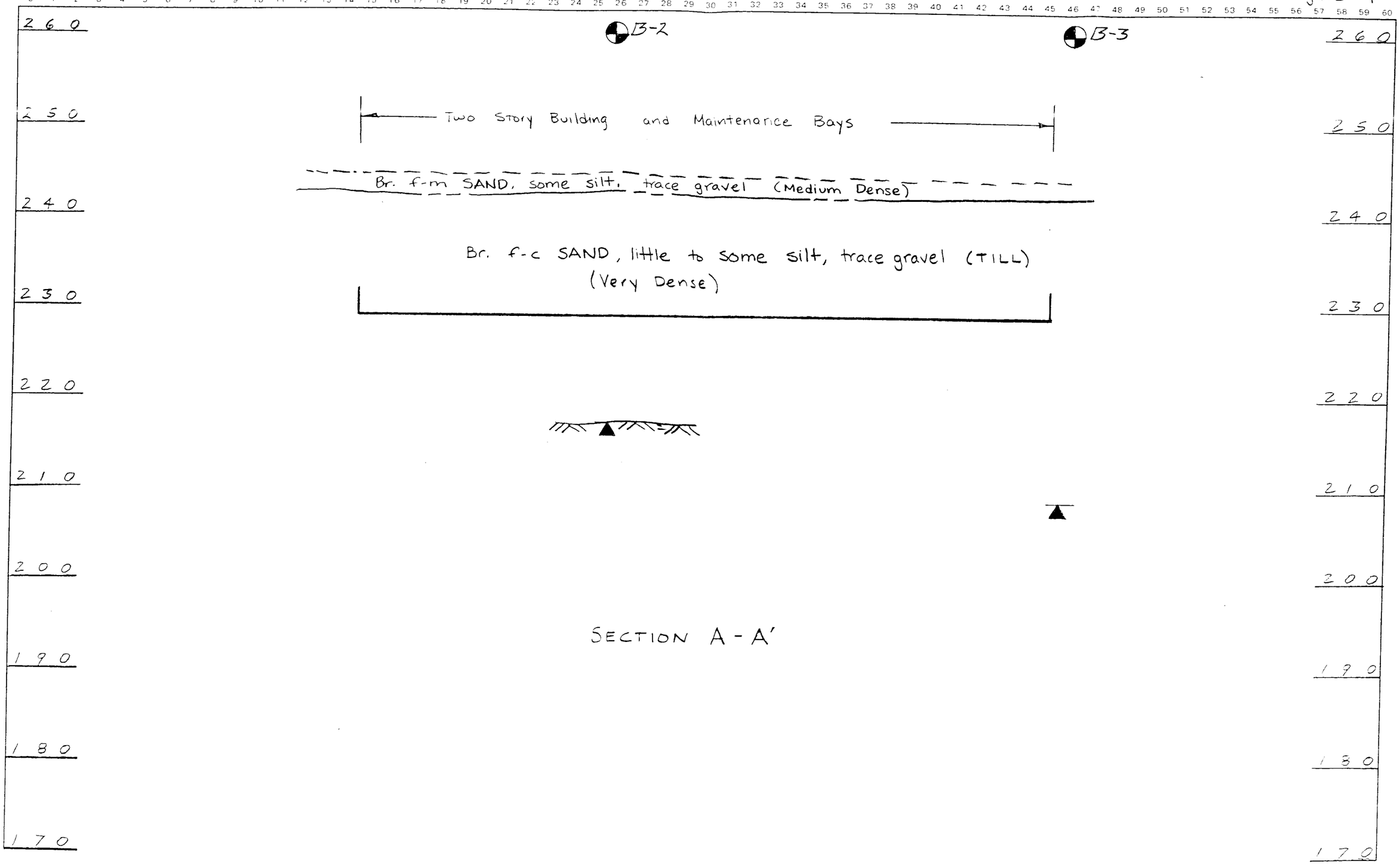
MAGUIRE GROUP

Job Air National Guard - Orange, Conn Sheet No. 2 of 9

Generalized Soil Profile Date March, 1999

By NBT/CCC Checked DRS Job No. 14881

Figure - 4



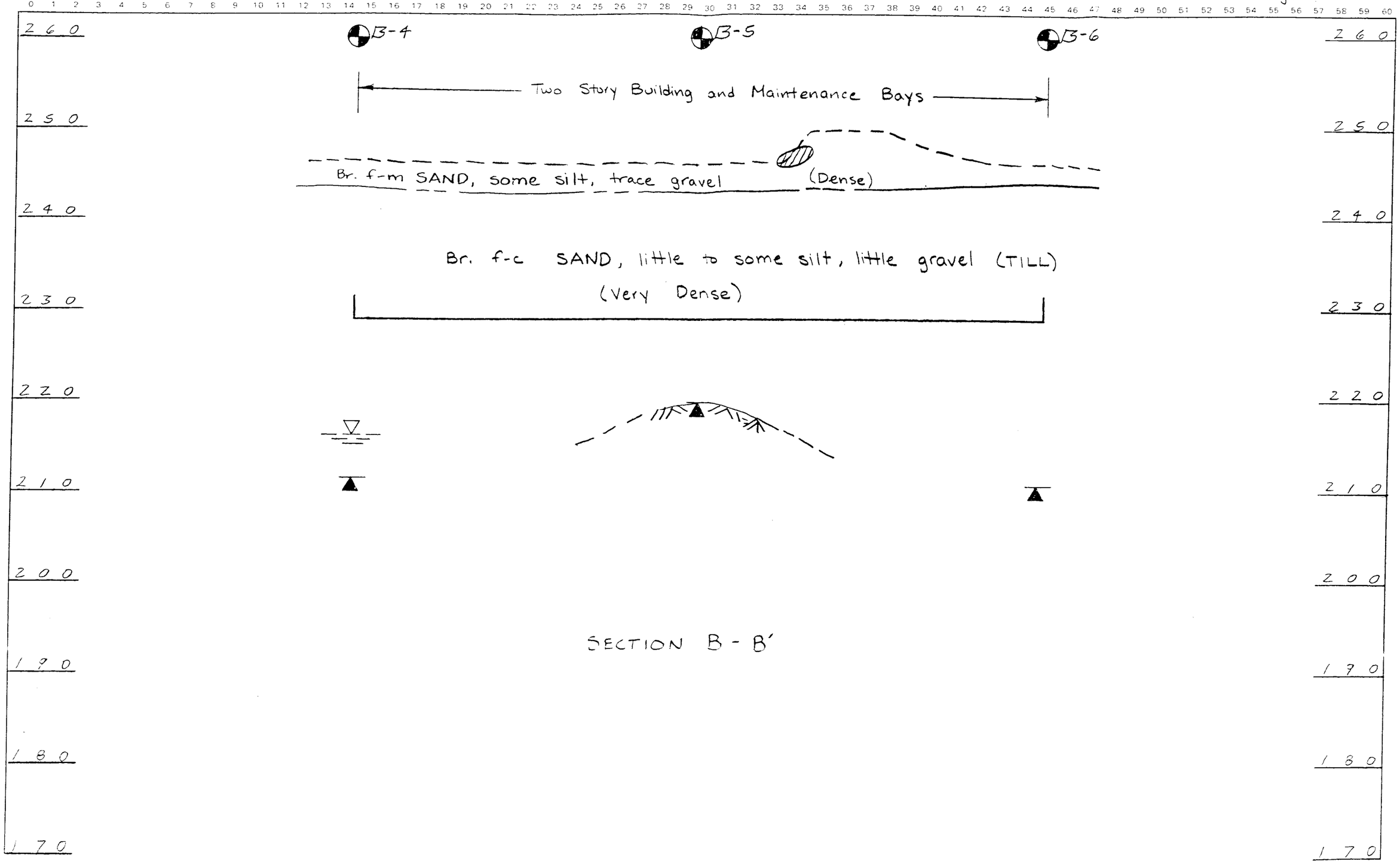
MAGUIRE GROUP

Job Air National Guard - Orange, Conn Sheet No. 3 of 9

Generalized Soil Profile Date March, 1999

By NBJ/CCC Checked DRS Job No. 14881

Figure - 5

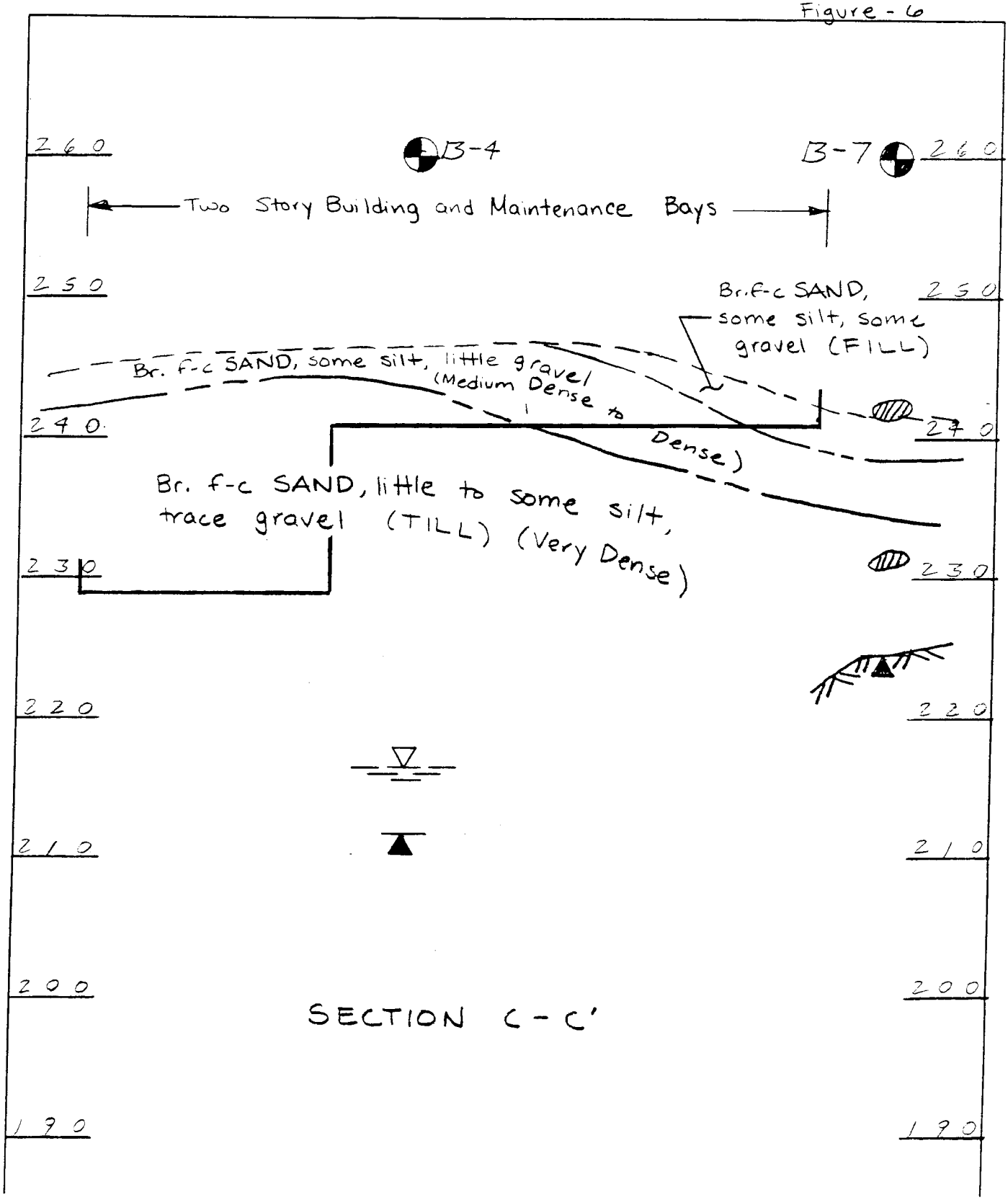


SECTION B - B'

MAGUIRE GROUP

Project Air National Guard – Orange, Conn. Acc. No. 14881
Subject Generalized Soil Profile Sheet No. 4 of 9
Two Story Bldg and Maintenance Bays Date March 19 99
Comp. NBJ/CCC Check DRS Cont. No.

Figure - 6

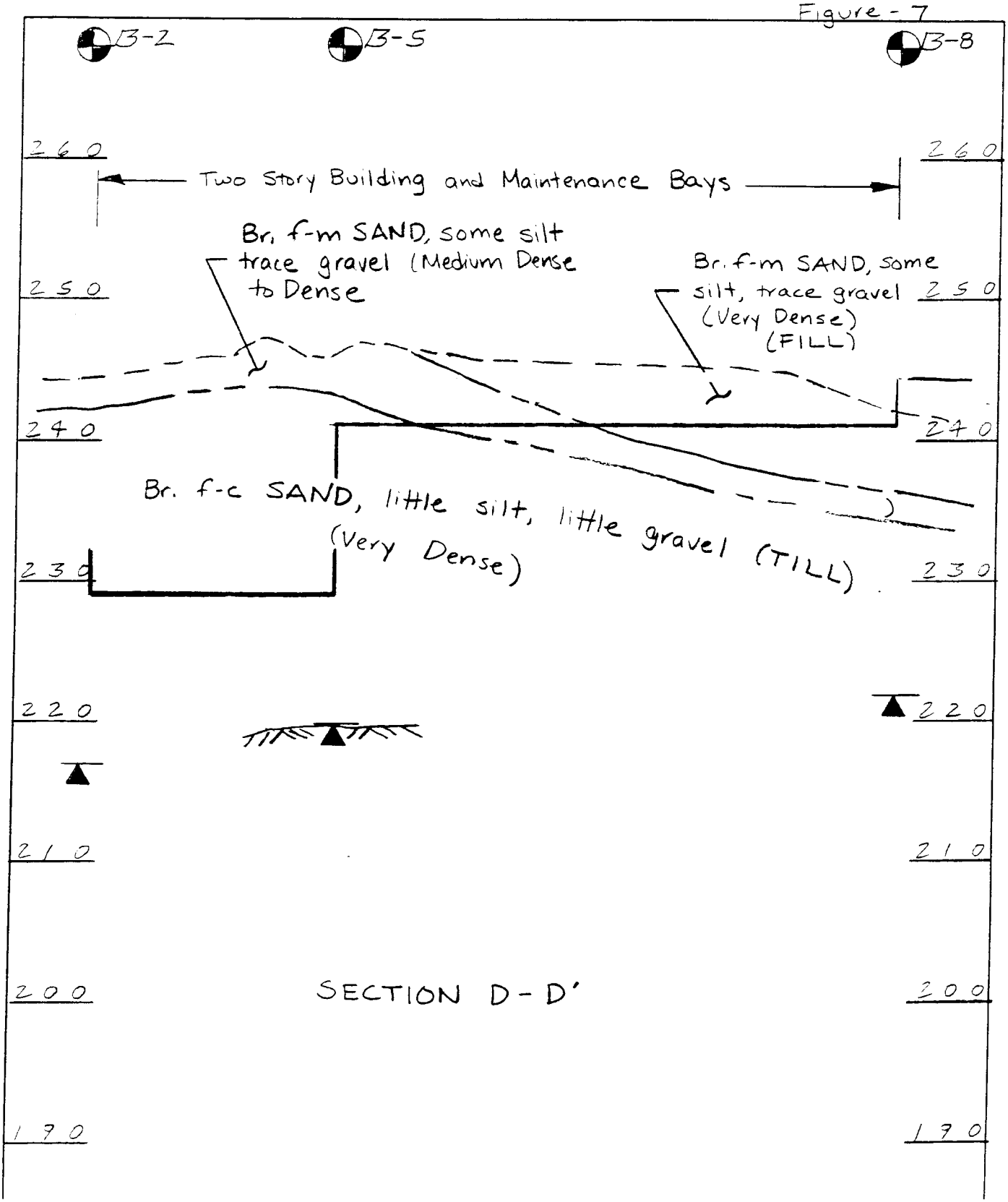


SECTION C – C'

MAGUIRE GROUP

Project Air National Guard - Orange, Conn. Acc. No. 14881
Subject Generalized Soil Profile Sheet No. 5 of 9
Two Story Bldg and Maintenance Bays Date March 19 99
Comp. NBJ/CCC Check DRS Cont. No.

Figure - 7

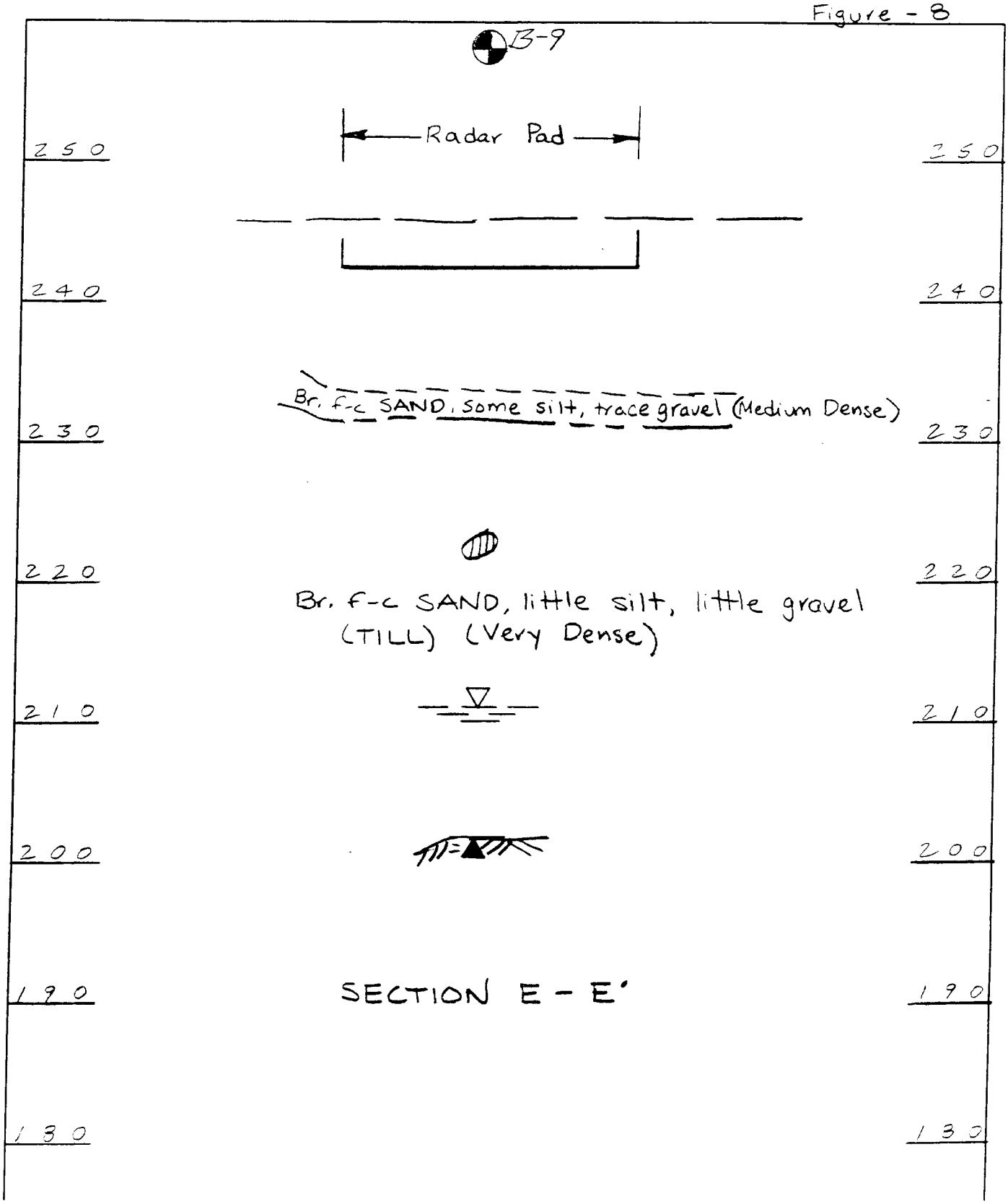


SECTION D-D'

MAGUIRE GROUP

Project Air National Guard - Orange, Conn. Acc. No. 14881
Subject Generalized Soil Profile Sheet No. 6 of 9
Radar Pad Date March 19 99
Comp. NBJ / CCC Check DRS Cont. No.

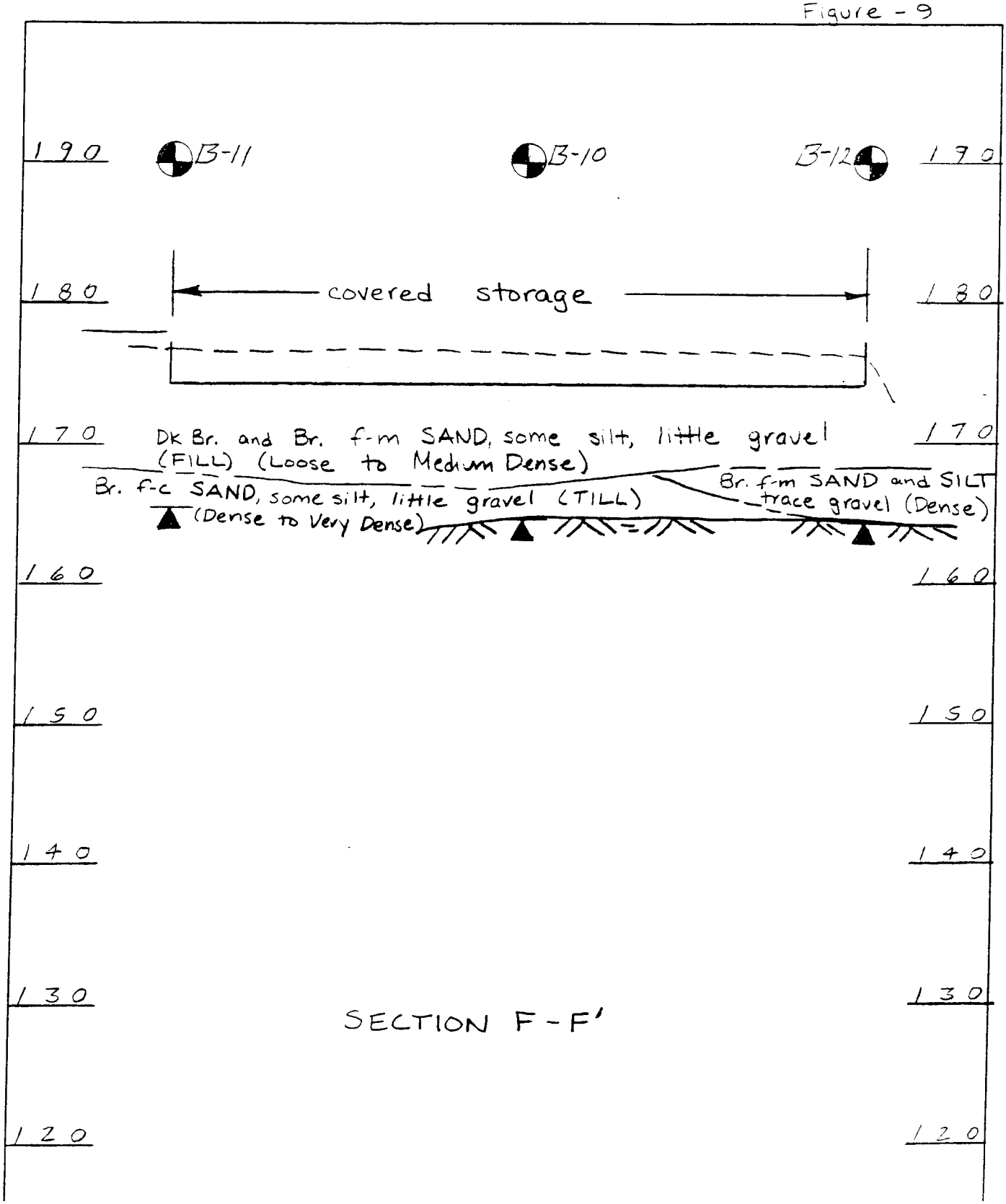
Figure - 8



MAGUIRE GROUP

Project Air National Guard - Orange, Conn. Acc. No. 14881
Subject Generalized Soil Profiles Sheet No. 7 of 9
Date March 19 99
Comp. NBJ/CCC Check DRS Cont. No.

Figure - 9



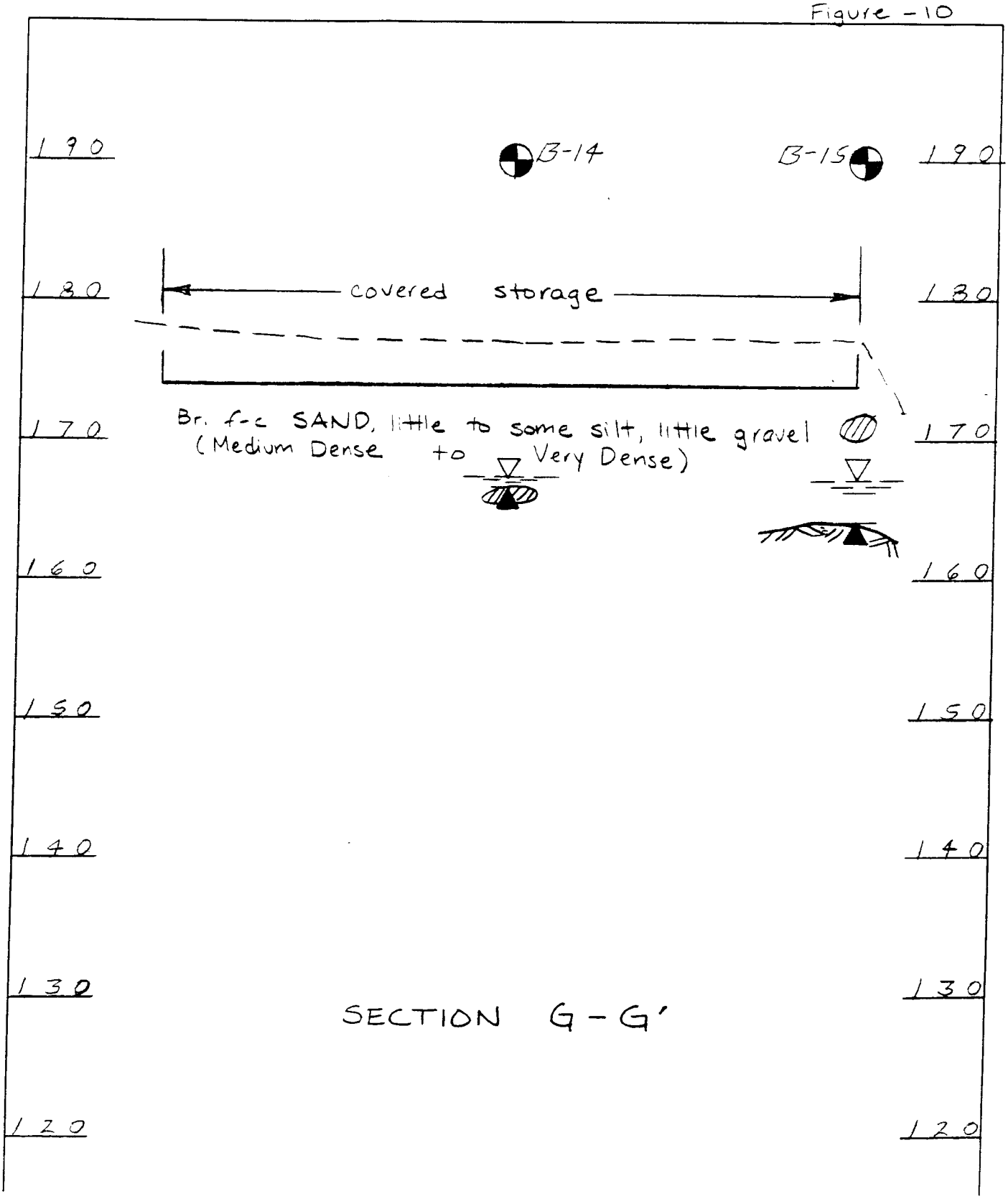
SECTION F-F'

MAGUIRE GROUP

Project Air National Guard - Orange, Conn
Subject Generalized Soil Profile
Covered Storage
Comp. NBJ/CCC Check DRS

Acc. No. 14881
Sheet No. 8 of 9
Date March 19 99
Cont. No.

Figure -10

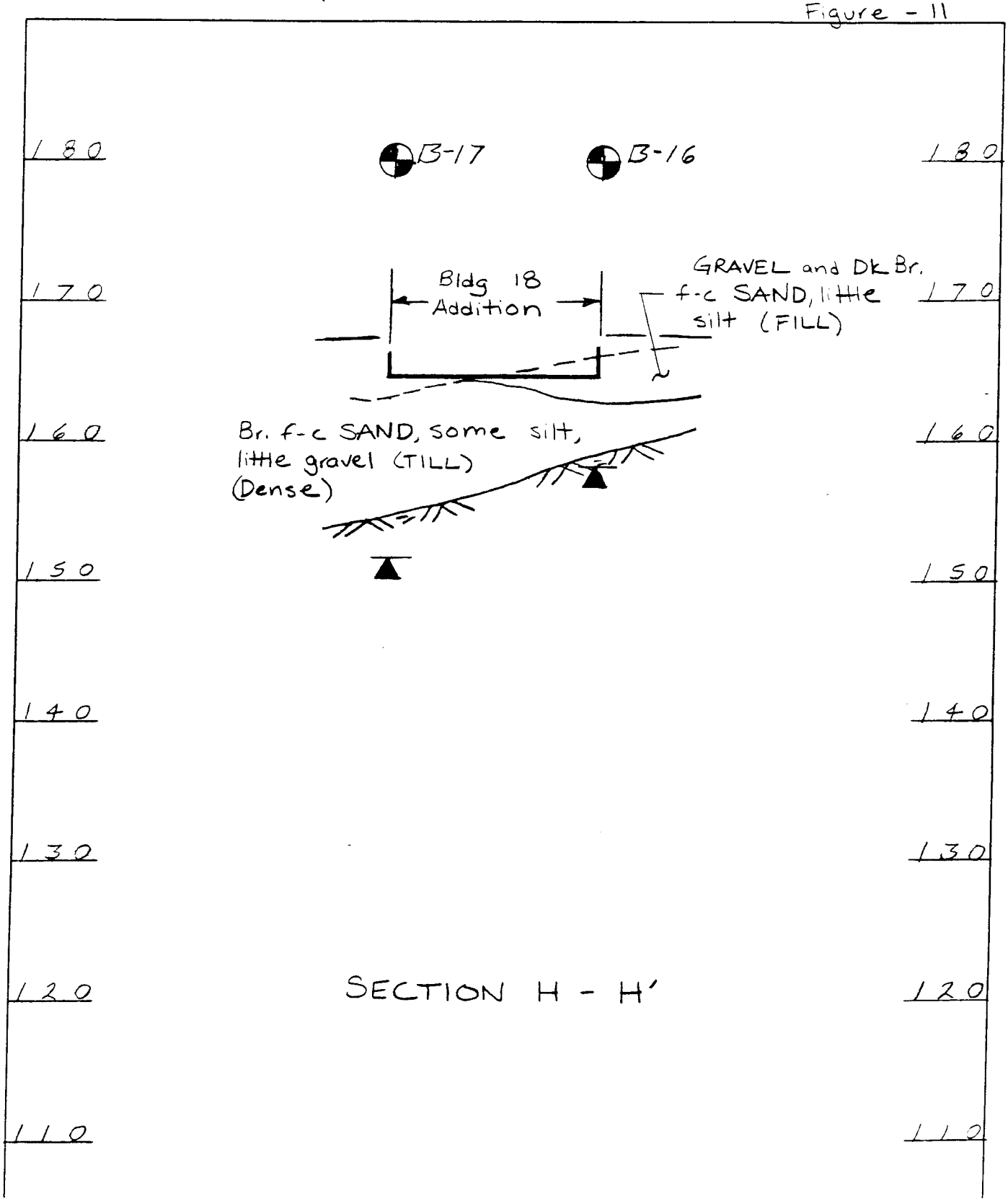


MAGUIRE GROUP

Project Air National Guard - Orange, Conn
Subject Generalized Soil Profile
Comp. NBJ/CCC Check DRS

Acc. No. 14881
Sheet No. 9 of 9
Date March 19 97
Cont. No.

Figure - 11



BORING CONTRACTOR: General Borings, Inc.

LOG PREPARED BY: CONTR. TM MGI CC

MAGUIRE GROUP INC.
ARCHITECTS-ENGINEERS-PLANNERS

BORING LOG

TOWN, STATE: Orange, CT
PROJECT NAME: Air National Guard
MGI NO. 14881 OFFICE: New Britain

SHEET 1 OF 1
LOCATION:
HOLE NO: B-2
BORING TYPE: B
LINE & STA.:
OFFSET:

GROUND WATER OBSERVATIONS
AT Dry FT. AFTER 0 HOURS
AT ___ FT. AFTER ___ HOURS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HS		SS	
SIZE, I.D.	3 1/4		1 3/8	
HAMMER WT.			140	BIT
HAMMER FALL			30	

SURFACE ELEV. 244.5
DATE STARTED-FINISHED: 2-10-99
BORING FOREMAN: M. Jenett
INSPECTOR: C.C. Crisuolo
SOILS ENGR.: D.R. Stock

LOCATION OF BORING:

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE DEPTH FROM – TO	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER FROM – TO 0-6	6-12	12-18	STRATA CHANGE DEPTH / ELEV.	FIELD IDENTIFICATION OF SOIL & ROCK INCL. COLOR, LOSS OF WASH WATER, JOINTS IN ROCK, ETC.	SAMPLE NO.	PEN.	REC.
		0.0-1.5	D	6	7	13	Moist Medium Dense 2.0	Br. f-m SAND, some silt, trace gravel	1	18	12
							242.5				
5		5.0-6.5	D	17	26	43	Moist Very Dense	Br. f-m SAND, little silt, trace gravel (TILL)	2	18	16
10		10.0-10.75	D	47	50/3"		Dry Very Dense	Br. f-c SAND, some silt, trace gravel (TILL)	3	9	7
15		15.0-15.5	D	50/6"			Dry Very Dense	Br. f-c SAND, some silt, trace gravel (TILL)	4	6	6
20		20.0-20.5	D	50/6"			Dry Very Dense	Br. f-c SAND, little silt, little gravel (TILL)	5	6	6
25		25.0-	D	50/0"			Very Dense 27.5	No Penetration	–	0	–
							217.0	Refusal on Augers at 27.5'			
30								NOTE: Very Dense drilling from 7.0' to 27.5'			
35											

GROUND SURFACE TO ___ FT., USED ___ "CASING: THEN ___ "CASING TO ___ FT.
D=DRY W=WASHED C=CORED P=PIT A=AUGER V=VANE TEST
UP=UNDISTURBED, PISTON UB=UNDISTURBED, BALL CHECK OER=OPEN END ROD
PROPORTIONS USED: TRACE=0-10%, LITTLE=10-20%, SOME=20-35%, AND 35-50%

FOOTAGE IN EARTH		27.5
FOOTAGE IN ROCK		0.0
NO. OF SAMPLES		5
HOLE NO. B-2	TYPE	B

BORING CONTRACTOR: General Borings, Inc.	MAGUIRE GROUP INC. ARCHITECTS-ENGINEERS-PLANNERS BORING LOG	SHEET 1 OF 1
LOG PREPARED BY: CONTR. RP MGI CC	TOWN, STATE: Orange, CT PROJECT NAME: Air National Guard MGI NO. 14881 OFFICE: New Britain	LOCATION: HOLE NO: B-3 BORING TYPE: B LINE & STA.: OFFSET:

GROUND WATER OBSERVATIONS		AUGER	CASING	SAMPLER	CORE BAR.	
AT Dry FT. AFTER 0 HOURS	TYPE	HS		SS		SURFACE ELEV. 244.0
	SIZE, I.D.	4 1/4		1 3/8		DATE STARTED-FINISHED: 2-12-99
AT ___ FT. AFTER ___ HOURS	HAMMER WT.			140	BIT	BORING FOREMAN: E. Pelkey
	HAMMER FALL			30		INSPECTOR: C. C. Crisuolo
						SOILS ENGR.: D. R. Stock

LOCATION OF BORING:

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE DEPTH FROM – TO	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER FROM – TO 0-6	6-12	12-18	STRATA CHANGE DEPTH / ELEV.	FIELD IDENTIFICATION OF SOIL & ROCK INCL. COLOR, LOSS OF WASH WATER, JOINTS IN ROCK, ETC.	SAMPLE NO.	PEN.	REC.
		0.0-1.5	D	7	10	11	Dry Medium Dense 2.0 / 242.0	Br. f-m SAND, some silt, trace gravel	1	18	12
5		5.0-6.5	D	11	15	24	Dry Dense	Br. f-m SAND, some silt, trace gravel (TILL)	2	18	18
10		10.0-10.92	D	23	50/5"		Dry Very Dense	Br. f-c SAND, some silt, trace gravel / Fractured Boulder (TILL)	3	11	18
15		15.0-15.33	D	50/4"			Dry Very Dense	Br. f-c SAND, little silt, trace gravel (TILL)	4	4	4
20		20.0-20.25	D	50/3"			Dry Very Dense	Br. f-c SAND, little silt, trace gravel (TILL)	5	3	3
25		25.0-25.33	D	50/4"			Dry Very Dense	Br. f-m SAND, little silt, trace gravel (TILL)	6	4	4
30		30.0-	D	50/0"			Very Dense	No Penetration	—	0	—
35		35.0-35.42	D	50/5"			Dry Very Dense 35.42 / 208.58	Br. f-m SAND, little silt, little gravel (TILL)	7	5	5
								Refusal on Spoon at 35.42' NOTE: Very dense drilling from 9.0' to 35.42'.			

GROUND SURFACE TO ___ FT., USED ___ "CASING: THEN ___ "CASING TO ___ FT.

D = DRY W = WASHED C = CORED P = PIT A = AUGER V = VANE TEST

UP = UNDISTURBED, PISTON UB = UNDISTURBED, BALL CHECK OER = OPEN END ROD

PROPORTIONS USED: TRACE = 0-10%, LITTLE = 10-20%, SOME = 20-35%, AND 35-50%

FOOTAGE IN EARTH		35.42
FOOTAGE IN ROCK		0.0
NO. OF SAMPLES		7
HOLE NO. B-3	TYPE	B

BORING CONTRACTOR: General Borings, Inc.

LOG PREPARED BY: CONTR. TM MGI CC

MAGUIRE GROUP INC.
ARCHITECTS-ENGINEERS-PLANNERS

BORING LOG

TOWN, STATE: Orange, CT
PROJECT NAME: Air National Guard
MGI NO. 14881 OFFICE: New Britain

SHEET 1 OF 1
LOCATION:
HOLE NO: B-4
BORING TYPE: B
LINE & STA.:
OFFSET:

GROUND WATER OBSERVATIONS
AT 30.0 FT. AFTER 0 HOURS
Drillwater
AT ___ FT. AFTER ___ HOURS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HS		SS	
SIZE, I.D.	3 1/4		1 3/8	
HAMMER WT.			140	BIT
HAMMER FALL			30	

SURFACE ELEV. 246.3
DATE STARTED-FINISHED: 2-9/2-10-99
BORING FOREMAN: M. Jenett
INSPECTOR: C.C. Crisuolo
SOILS ENGR.: D.R. Stock

LOCATION OF BORING:

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE DEPTH FROM – TO	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER FROM – TO 0-6	6-12	12-18	STRATA CHANGE DEPTH ELEV.	FIELD IDENTIFICATION OF SOIL & ROCK INCL. COLOR, LOSS OF WASH WATER, JOINTS IN ROCK, ETC.	SAMPLE NO.	PEN.	REC
		0.0 - 1.5	D	12	14	16	Dry Dense 3.0	Br. f-m SAND, some silt, trace gravel (Strong Odor)	1	18	10
5		5.0 - 6.5	D	39	50	61	243.3 Dry Very Dense	Br. f-c SAND, little silt, trace gravel (TILL)	2	18	12
10		10.0 - 10.42	D	100/5"			Dry Very Dense	Br. f-c SAND, little silt, trace gravel (TILL) (Strong Odor)	3	5	5
15		15.0 - 15.5	D	50/6"			Dry Very Dense	Br. f-c SAND, little silt, little gravel (TILL)	4	6	5
20		20.0 -	D	50/0"			Very Dense	No Penetration	–	0	–
25		25.0 - 25.08	D	50/1"			Very Dense	No Recovery	–	1	0
30		30.0 - 30.5	D	50/6"			Wet Very Dense	Br. f-m SAND, some silt trace gravel (TILL)	5	6	6
35		35.0 -	D	50/0"			Very Dense 35.0' 211.3	No Penetration Refusal on spoon at 35.0' NOTE: Very dense drilling from 8.0' to 35.0'. Used Rollerbit from 15.0' to 35.0'	–	0	–

GROUND SURFACE TO ___ FT., USED ___ "CASING: THEN ___ "CASING TO ___ FT.

D=DRY W=WASHED C=CORED P=PIT A=AUGER V=VANE TEST
UP=UNDISTURBED, PISTON UB=UNDISTURBED, BALL CHECK OER=OPEN END ROD
PROPORTIONS USED: TRACE=0-10%, LITTLE=10-20%, SOME=20-35%, AND 35-50%

FOOTAGE IN EARTH	35.0
FOOTAGE IN ROCK	0.0
NO. OF SAMPLES	5
HOLE NO. B-4 TYPE	B

BORING CONTRACTOR: General Borings, Inc.

LOG PREPARED BY: CONTR. TM MGI CC

MAGUIRE GROUP INC.
ARCHITECTS-ENGINEERS-PLANNERS

BORING LOG

TOWN, STATE: Orange, CT
PROJECT NAME: Air National Guard
MGI NO. 14881 OFFICE: New Britain

SHEET 1 OF 1
LOCATION:
HOLE NO: B-5
BORING TYPE: B
LINE & STA.:
OFFSET:

GROUND WATER OBSERVATIONS
AT Dry FT. AFTER 0 HOURS
AT ___ FT. AFTER ___ HOURS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HS		SS	
SIZE, I.D.	3 1/4		1 3/8	
HAMMER WT.			140	BIT
HAMMER FALL			30	

SURFACE ELEV. 246.0
DATE STARTED-FINISHED: 2-10-99
BORING FOREMAN: M. Jenett
INSPECTOR: C.C. Crisuolo
SOILS ENGR.: D.R. Stock

LOCATION OF BORING:

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE DEPTH FROM – TO	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER FROM – TO 0-6	6-12	12-18	STRATA CHANGE DEPTH / ELEV.	FIELD IDENTIFICATION OF SOIL & ROCK INCL. COLOR, LOSS OF WASH WATER, JOINTS IN ROCK, ETC.	SAMPLE NO.	PEN.	REC
		0.5 - 2.0	D	21	24	28	Moist Very Dense 2.5	3" Asphalt Br. f-m SAND, some silt, trace gravel (FILL)	1	18	15
							243.5				
5		5.0 - 6.0	D	34	50/6"		Dry Very Dense	Br. f-c SAND, some silt, little gravel (TILL)	2	12	9
10		10.0 - 10.75	D	49	50/3"		Dry Very Dense	Br. f-c SAND, some silt little gravel (TILL)	3	9	9
15		15.0 - 15.42	D	50/5"			Dry Very Dense	Br. f-c SAND, little silt, little gravel (TILL)	4	5	5
20		20.0 - 20.17	D	50/2"			Dry Very Dense	Br. f-c SAND, little silt, little gravel (TILL)	5	2	2
25		25.0 - 25.17	D	50/2"			Very Dense 26.5	No Recovery	—	2	0
							219.5	Refusal on Augers at 26.5'			
30								NOTE: Very dense drilling from 7.0' to 26.5'			
35											

GROUND SURFACE TO ___ FT., USED ___ "CASING: THEN ___ "CASING TO ___ FT.

D=DRY W=WASHED C=CORED P=PIT A=AUGER V=VANE TEST
UP=UNDISTURBED, PISTON UB=UNDISTURBED, BALL CHECK OER=OPEN END ROD
PROPORTIONS USED: TRACE=0-10%, LITTLE=10-20%, SOME=20-35%, AND 35-50%

FOOTAGE IN EARTH	26.5
FOOTAGE IN ROCK	0.0
NO. OF SAMPLES	5
HOLE NO. B-5 TYPE	B

BORING CONTRACTOR: General Borings, Inc.

LOG PREPARED BY: CONTR. RP MGI CC

MAGUIRE GROUP INC.
ARCHITECTS-ENGINEERS-PLANNERS

BORING LOG

TOWN, STATE: Orange, CT
PROJECT NAME: Air National Guard
MGI NO. 14881 OFFICE: New Britain

SHEET 1 OF 1
LOCATION:
HOLE NO: B-6
BORING TYPE: B
LINE & STA.:
OFFSET:

GROUND WATER OBSERVATIONS
AT Dry FT. AFTER 0 HOURS
AT ___ FT. AFTER ___ HOURS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HS		SS	
SIZE, I.D.	4 1/4		1 3/8	
HAMMER WT.			140	BIT.
HAMMER FALL			30	

SURFACE ELEV. 245.9
DATE STARTED-FINISHED: 2-11-99
BORING FOREMAN: E. Pelkey
INSPECTOR: C.C. Crisuolo
SOILS ENGR.: D.R. Stock

LOCATION OF BORING:

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE DEPTH FROM – TO	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER FROM – TO 0-6	6-12	12-18	STRATA CHANGE DEPTH / ELEV.	FIELD IDENTIFICATION OF SOIL & ROCK INCL. COLOR, LOSS OF WASH WATER, JOINTS IN ROCK, ETC.	SAMPLE NO.	PEN.	REC.
		0.0 – 1.5	D	18	13	23	Dry Dense	Br. f-m SAND, some silt, trace gravel	1	18	11
5		5.0 – 5.25	D	50/3"			Moist Very Dense	Br. f-c SAND, some silt, trace gravel (TILL)	2	3	3
10		10.0 – 10.25	D	50/3"			Dry Very Dense	Br. f-c SAND, some silt, trace gravel (TILL)	3	3	3
15		15.0 – 15.17	D	50/2"			Dry Very Dense	No Recovery	–	2	0
20		20.0 – 20.83	D	27	50/4"		Dry Very Dense	Br. f-c SAND, little silt, little gravel (TILL)	4	10	8
25		25.0 – 25.42	D	50/5"			Dry Very Dense	Br. f-c SAND, little silt, little gravel/fractured boulder (TILL)	5	5	5
30		30.0 – 30.42	D	50/5"			Dry Very Dense	Br. f-c SAND, little silt, little gravel/fractured boulder (TILL)	6	5	3
35		35.0 – 35.25	D	50/3"			Dry Very Dense 35.25	Br. f-c SAND, little silt, little gravel/fractured boulder (TILL)	7	3	3
							210.65	Refusal on Spoon at 35.25' NOTE: Very Dense drilling from 4.5' to 35.25'			

GROUND SURFACE TO ___ FT., USED ___ "CASING: THEN ___ "CASING TO ___ FT.

D=DRY W=WASHED C=CORED P=PIT A=AUGER V=VANE TEST
UP=UNDISTURBED, PISTON UB=UNDISTURBED, BALL CHECK OER=OPEN END ROD
PROPORTIONS USED: TRACE=0-10%, LITTLE=10-20%, SOME=20-35%, AND 35-50%

FOOTAGE IN EARTH	35.25
FOOTAGE IN ROCK	0.0
NO. OF SAMPLES	7
HOLE NO. B-6 TYPE	B

BORING CONTRACTOR: General Borings, Inc.

LOG PREPARED BY: CONTR. TM MGI CC

MAGUIRE GROUP INC.
ARCHITECTS - ENGINEERS - PLANNERS

BORING LOG

TOWN, STATE: Orange, CT
PROJECT NAME: Air National Guard
MGI NO. 14881 OFFICE: New Britain

SHEET 1 OF 1
LOCATION:
HOLE NO: B-7
BORING TYPE: B
LINE & STA.:
OFFSET:

GROUND WATER OBSERVATIONS
AT Dry FT. AFTER 0 HOURS
AT ___ FT. AFTER ___ HOURS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HS		SS	
SIZE, I.D.	3 1/4		1 3/8	
HAMMER WT.			140	BIT
HAMMER FALL			30	

SURFACE ELEV. 242.3
DATE STARTED-FINISHED: 2-9-99
BORING FOREMAN: M. Jenett
INSPECTOR: C. C. Crisuolo
SOILS ENGR.: D.R. Stock

LOCATION OF BORING:

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE DEPTH FROM – TO	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER FROM – TO 0-6	6-12	12-18	STRATA CHANGE DEPTH / ELEV.	FIELD IDENTIFICATION OF SOIL & ROCK INCL. COLOR, LOSS OF WASH WATER, JOINTS IN ROCK, ETC.	SAMPLE NO.	PEN.	REC
		0.0 - 1.5	D	14	17	28	Dry Dense 3.5	Br. f-c SAND, some silt, some gravel (FILL)	1	18	7
5		5.0 - 6.5	D	3	6	9	238.8 Moist Medium Dense 7.0	Br. f-m SAND, some silt, trace gravel	2	18	12
							235.3				
10		10.0 - 11.5	D	16	18	21	Moist Dense	Br. f-c SAND, some silt, trace gravel (TILL)	3	18	18
15		15.0 - 15.7	D	50/2"			Moist Very Dense 17.0	Br. f-c SAND, some silt, little gravel/fractured rock	4	2	1
							225.3	Refusal on Augers at 17.0'			
20											
								NOTE: Augered till and cobbles from 7.0 to 17.0.			
25											
30											
35											

GROUND SURFACE TO ___ FT., USED ___ "CASING: THEN ___ "CASING TO ___ FT.
D=DRY W=WASHED C=CORED P=PIT A=AUGER V=VANE TEST
UP=UNDISTURBED, PISTON UB=UNDISTURBED, BALL CHECK OER=OPEN END ROD
PROPORTIONS USED: TRACE=0-10%, LITTLE=10-20%, SOME=20-35%, AND 35-50%

FOOTAGE IN EARTH		17.0
FOOTAGE IN ROCK		0.0
NO. OF SAMPLES		4
HOLE NO. B-7	TYPE	B

BORING CONTRACTOR: General Borings, Inc.

LOG PREPARED BY: CONTR. TM MGI CC

MAGUIRE GROUP INC.
ARCHITECTS-ENGINEERS-PLANNERS

BORING LOG

TOWN, STATE: Orange, CT
PROJECT NAME: Air National Guard
MGI NO. 14881 OFFICE: New Britain

SHEET 1 OF 1
LOCATION:
HOLE NO: B-8
BORING TYPE: B
LINE & STA.:
OFFSET:

GROUND WATER OBSERVATIONS
AT Dry FT. AFTER 0 HOURS
AT ___ FT. AFTER ___ HOURS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HS		SS	
SIZE, I.D.	3 1/4		1 3/8	
HAMMER WT.			140	BIT
HAMMER FALL			30	

SURFACE ELEV. 242.0
DATE STARTED-FINISHED: 2-9-99
BORING FOREMAN: M. Jenett
INSPECTOR: C.C. Crisuolo
SOILS ENGR.: D.R. Stock

LOCATION OF BORING:

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE DEPTH FROM – TO	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER FROM – TO 0-6	6-12	12-18	STRATA CHANGE DEPTH / ELEV.	FIELD IDENTIFICATION OF SOIL & ROCK INCL. COLOR, LOSS OF WASH WATER, JOINTS IN ROCK, ETC.	SAMPLE NO.	PEN.	REC.
		0.0 - 1.5	D	14	28	28	Moist Very Dense	1" Top Soil Br. f-m SAND, some silt, some vegetation (Pushed cobble) (FILL)	1	18	1
5		5.0 - 6.5	D	6	10	37	Dense 6.0 / 236.0	No Recovery (FILL)	–	18	0
10		10.0 - 11.5	D	24	26	35	Moist Very Dense	Br. f-c SAND, some silt, little gravel (TILL)	2	18	6
15		15.0 - 16.5	D	29	43	55	Dry Very Dense	Br. f-c SAND, some silt, trace gravel (TILL)	3	18	18
20		20.0 - 20.25	D	50/3"			Dry Very Dense 20.25 / 221.75	Br. f-c SAND, little silt trace gravel (TILL) Refusal on Spoon at 20.25'	4	3	3
25											
30											
35											

GROUND SURFACE TO ___ FT., USED ___ "CASING: THEN ___ "CASING TO ___ FT.
D=DRY W=WASHED C=CORED P=PIT A=AUGER V=VANE TEST
UP=UNDISTURBED, PISTON UB=UNDISTURBED, BALL CHECK OER=OPEN END ROD
PROPORTIONS USED: TRACE=0-10%, LITTLE=10-20%, SOME=20-35%, AND 35-50%

FOOTAGE IN EARTH		20.25
FOOTAGE IN ROCK		0.0
NO. OF SAMPLES		4
HOLE NO. B-8	TYPE	B

BORING CONTRACTOR: General Borings, Inc.	MAGUIRE GROUP INC. ARCHITECTS-ENGINEERS-PLANNERS BORING LOG	SHEET 1 OF 1
LOG PREPARED BY: CONTR. ____ MGI CC	TOWN, STATE: Orange, CT PROJECT NAME: Air National Guard MGI NO. 14881 OFFICE: New Britain	LOCATION: HOLE NO: B-9 BORING TYPE: B LINE & STA.: OFFSET:

GROUND WATER OBSERVATIONS					
AT 22.5 FT. AFTER 0 HOURS		AUGER	CASING	SAMPLER	CORE BAR.
	TYPE	HS		SS	
	SIZE, I.D.	4 1/4		1 3/8	
AT ____ FT. AFTER ____ HOURS	HAMMER WT.			140	BIT
	HAMMER FALL			30	

SURFACE ELEV. 234.0
DATE STARTED-FINISHED: 2-11-99
BORING FOREMAN: E. Pelkey
INSPECTOR: C.C. Crisuolo
SOILS ENGR.: D.R. Stock

LOCATION OF BORING:

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE DEPTH FROM – TO	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER FROM – TO 0-6	6-12	12-18	STRATA CHANGE DEPTH ELEV.	FIELD IDENTIFICATION OF SOIL & ROCK INCL. COLOR, LOSS OF WASH WATER, JOINTS IN ROCK, ETC.	SAMPLE NO.	PEN.	REC.
		0.0-1.5	D	7	10	15	Dry Medium Dense 2.0	Br. f-c SAND, some silt, trace gravel	1	18	14
							232.0				
5		5.0-5.92	D	27	50/5"		Dry Very Dense	Br. f-c SAND, some silt, little gravel (TILL)	2	11	10
10		10.0-10.25	D	50/3"			Dry Very Dense	Fractured BOULDER, little f-c sand, little silt, (TILL)	3	3	3
15		15.0-15.5	D	50/6"			Dry Very Dense	Br. f-c SAND, little silt, little gravel (TILL)	4	6	5
20		20.0-20.5	D	50/6"			Dry Very Dense	Br. f-c SAND, little silt, little gravel (TILL)	5	6	5
25		25.0-25.42	D	50/5"			Dry Very Dense	Br. f-c SAND, some silt, little gravel (TILL)	6	5	5
30		30.0-	D	50/0"			Very Dense	No Penetration	–	0	–
							32.0				
							202.0	Refusal on Augers at 32.0'			
35								Note: Very dense drilling from 6.5' to 32.0'			

GROUND SURFACE TO ____ FT., USED ____ "CASING: THEN ____ "CASING TO ____ FT.

D=DRY W=WASHED C=CORED P=PIT A=AUGER V=VANE TEST

UP=UNDISTURBED, PISTON UB=UNDISTURBED, BALL CHECK OER=OPEN END ROD

PROPORTIONS USED: TRACE=0-10%, LITTLE=10-20%, SOME=20-35%, AND 35-50%

FOOTAGE IN EARTH		32.0
FOOTAGE IN ROCK		0.0
NO. OF SAMPLES		6
HOLE NO. B-9	TYPE	B

BORING CONTRACTOR: General Borings, Inc.

LOG PREPARED BY: CONTR. TM MGI CC

MAGUIRE GROUP INC.
ARCHITECTS-ENGINEERS-PLANNERS

BORING LOG

TOWN, STATE: Orange, CT
PROJECT NAME: Air National Guard
MGI NO. 14881 OFFICE: New Britain

SHEET 1 OF 1
LOCATION:
HOLE NO: B-10
BORING TYPE: B
LINE & STA.:
OFFSET:

GROUND WATER OBSERVATIONS
AT Dry FT. AFTER 0 HOURS
AT ___ FT. AFTER ___ HOURS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HS		SS	
SIZE, I.D.	3 1/4		1 3/8	
HAMMER WT.			140	BIT
HAMMER FALL			30	

SURFACE ELEV. 177.0
DATE STARTED-FINISHED: 2-8-99
BORING FOREMAN: M. Jenett
INSPECTOR: C.C. Crisuolo
SOILS ENGR.: D.R. Stock

LOCATION OF BORING:

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE DEPTH FROM – TO	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER FROM – TO 0-6	6-12	12-18	STRATA CHANGE DEPTH / ELEV.	FIELD IDENTIFICATION OF SOIL & ROCK INCL. COLOR, LOSS OF WASH WATER, JOINTS IN ROCK, ETC.	SAMPLE NO.	PEN.	REC.
		0.0 - 1.5	D	1	13	15	Dry Medium Dense	6" Topsoil Br. f-c SAND, some silt, trace gravel, trace vegetation	1	18	8
5		5.0 - 6.5	D	3	5	3	Moist Loose	Br. f-m SAND, some silt, trace gravel	2	18	6
							9.0				
10		10.0 - 11.5	D	16	23	30	Moist Very Dense 12.0	Br. f-c SAND, some silt, little gravel (TILL)	3	18	15
								Refusal on Augers at 12.0'			
15											
20											
25											
30											
35											

GROUND SURFACE TO ___ FT., USED ___ "CASING: THEN ___ "CASING TO ___ FT.

D=DRY W=WASHED C=CORED P=PIT A=AUGER V=VANE TEST
UP=UNDISTURBED, PISTON UB=UNDISTURBED, BALL CHECK OER=OPEN END ROD
PROPORTIONS USED: TRACE=0-10%, LITTLE=10-20%, SOME=20-35%, AND 35-50%

FOOTAGE IN EARTH	12.0
FOOTAGE IN ROCK	0.0
NO. OF SAMPLES	3
HOLE NO. B-10 TYPE	B

BORING CONTRACTOR: General Borings, Inc.

LOG PREPARED BY: CONTR. TM MGI CC

MAGUIRE GROUP INC.
ARCHITECTS-ENGINEERS-PLANNERS

BORING LOG

TOWN, STATE: Orange, CT
PROJECT NAME: Air National Guard
MGI NO. 14881 OFFICE: New Britain

SHEET 1 OF 1
LOCATION:
HOLE NO: B-11
BORING TYPE: B
LINE & STA.:
OFFSET:

GROUND WATER OBSERVATIONS
AT Dry FT. AFTER 0 HOURS
AT ___ FT. AFTER ___ HOURS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HS		SS	
SIZE, I.D.	3 1/4		1 3/8	
HAMMER WT.			140	BIT.
HAMMER FALL			30	

SURFACE ELEV. 177.0
DATE STARTED-FINISHED: 2-8-99
BORING FOREMAN: M. Jennett
INSPECTOR: C.C. Crisuolo
SOILS ENGR.: D.R. Stock

LOCATION OF BORING:

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE DEPTH FROM – TO	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER FROM – TO 0-6	6-12	12-18	STRATA CHANGE DEPTH / ELEV.	FIELD IDENTIFICATION OF SOIL & ROCK INCL. COLOR, LOSS OF WASH WATER, JOINTS IN ROCK, ETC.	SAMPLE NO.	PEN.	REC.
		0.0-1.5	D	3	4	13	Dry Medium Dense	10" Topsoil Br. f-m SAND, some silt, trace gravel trace vegetation	1	18	12
5		5.0-6.5	D	7	8	8	Dry Medium Dense	Dk Br. f-m SAND, some silt trace gravel, trace debris (FILL)	2	18	18
							9.0 / 168.0				
10		10.0-11.5	D	25	19	19	Dry Dense	Red Br. f-m SAND, some silt, little gravel	3	18	10
							11.5 / 165.5	Bottom of Boring at 11.5'			
15											
20											
25											
30											
35											

GROUND SURFACE TO ___ FT., USED ___ "CASING: THEN ___ "CASING TO ___ FT.
D=DRY W=WASHED C=CORED P=PIT A=AUGER V=VANE TEST
UP=UNDISTURBED, PISTON UB=UNDISTURBED, BALL CHECK OER=OPEN END ROD
PROPORTIONS USED: TRACE=0-10%, LITTLE=10-20%, SOME=20-35%, AND 35-50%

FOOTAGE IN EARTH		11.5
FOOTAGE IN ROCK		0.0
NO. OF SAMPLES		3
HOLE NO. B-11	TYPE	B

BORING CONTRACTOR: General Borings, Inc.

LOG PREPARED BY: CONTR. TM MGI CC

MAGUIRE GROUP INC.
ARCHITECTS-ENGINEERS-PLANNERS

BORING LOG

TOWN, STATE: Orange, CT
PROJECT NAME: Air National Guard
MGI NO. 14881 OFFICE: New Britain

SHEET 1 OF 1
LOCATION:
HOLE NO: B-12
BORING TYPE: B
LINE & STA.:
OFFSET:

GROUND WATER OBSERVATIONS
AT Dry FT. AFTER 0 HOURS
AT ___ FT. AFTER ___ HOURS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HS		SS	
SIZE, I.D.	3 1/4		1 3/8	
HAMMER WT.			140	BIT
HAMMER FALL			30	

SURFACE ELEV. 176.0
DATE STARTED-FINISHED: 2-8-99
BORING FOREMAN: M. Jenett
INSPECTOR: C.C. Crisuolo
SOILS ENGR.: D.R. Stock

LOCATION OF BORING:

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE DEPTH FROM – TO	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER FROM – TO 0-6	6-12	12-18	STRATA CHANGE DEPTH / ELEV.	FIELD IDENTIFICATION OF SOIL & ROCK INCL. COLOR, LOSS OF WASH WATER, JOINTS IN ROCK, ETC.	SAMPLE NO.	PEN.	REC
		0.0-1.5	D	3	26	15	Dry Dense	3" Top Soil Br. f-c SAND, some silt trace gravel, trace vegetation	1	18	8
5		5.0-6.5	D	20	22	14	Dry Dense 8.0 / 168.0	Br. f-c SAND, little silt, some gravel / fractured boulder	2	18	6
10		10.0-11.5	D	21	19	19	Moist Dense 12.0 / 164.0	Br. f-m SAND and SILT	3	18	6
								Refusal on Augers at 12.0'			
15											
20											
25											
30											
35											

GROUND SURFACE TO ___ FT., USED ___ "CASING: THEN ___ "CASING TO ___ FT.
D=DRY W=WASHED C=CORED P=PIT A=AUGER V=VANE TEST
UP=UNDISTURBED, PISTON UB=UNDISTURBED, BALL CHECK OER=OPEN END ROD
PROPORTIONS USED: TRACE=0-10%, LITTLE=10-20%, SOME=20-35%, AND 35-50%

FOOTAGE IN EARTH		12.0
FOOTAGE IN ROCK		0.0
NO OF SAMPLES		3
HOLE NO. B-12	TYPE	B

BORING CONTRACTOR: General Borings, Inc.	MAGUIRE GROUP INC. ARCHITECTS-ENGINEERS-PLANNERS BORING LOG	SHEET 1 OF 1
LOG PREPARED BY: CONTR. TM MGI CC	TOWN, STATE: Orange, CT PROJECT NAME: Air National Guard MGI NO. 14881 OFFICE: New Britain	LOCATION: HOLE NO: B-14 BORING TYPE: B LINE & STA.: OFFSET:

GROUND WATER OBSERVATIONS					
AT 9.75' FT. AFTER 0 HOURS		AUGER	CASING	SAMPLER	CORE BAR.
	TYPE	HS		SS	
	SIZE, I.D.	3 1/4		1 3/8	
AT ___ FT. AFTER ___ HOURS	HAMMER WT.			140	BIT.
	HAMMER FALL			30	

SURFACE ELEV 176.8
DATE STARTED-FINISHED: 2-8-99
BORING FOREMAN: M. Jenett
INSPECTOR: C.C. Crisuolo
SOILS ENGR.: D.R. Stock

LOCATION OF BORING:

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE DEPTH FROM – TO	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER FROM – TO 0-6	6-12	12-18	STRATA CHANGE DEPTH / ELEV.	FIELD IDENTIFICATION OF SOIL & ROCK INCL. COLOR, LOSS OF WASH WATER, JOINTS IN ROCK, ETC.	SAMPLE NO.	PEN.	REC.
		0.0 - 0.75	D	9	50/3"		Dry Very Dense	2" Topsoil Br. f-c SAND, some silt, little gravel, trace vegetation	1	9	3
5		5.0 - 6.5	D	20	10	5	Dry Medium Dense	Br. f-c SAND, some silt, little gravel	2	18	2
10		10.0 - 10.58	D	9	50/1"		Wet Very Dense 10.58 / 166.22	Br. f-c SAND and Fractured ROCK, little silt Refusal on Spoon at 10.58'	3	7	2
15											
20											
25											
30											
35											

GROUND SURFACE TO ___ FT., USED ___ "CASING: THEN ___ "CASING TO ___ FT.

D=DRY W=WASHED C=CORED P=PIT A=AUGER V=VANE TEST

UP=UNDISTURBED, PISTON UB=UNDISTURBED, BALL CHECK OER=OPEN END ROD

PROPORTIONS USED: TRACE=0-10%, LITTLE=10-20%, SOME=20-35%, AND 35-50%

FOOTAGE IN EARTH		10.58
FOOTAGE IN ROCK		0.0
NO. OF SAMPLES		3
HOLE NO. B-14	TYPE	B

BORING CONTRACTOR: General Borings, Inc.	MAGUIRE GROUP INC. ARCHITECTS-ENGINEERS-PLANNERS BORING LOG	SHEET 1 OF 1
LOG PREPARED BY: CONTR. TM MGI CC	TOWN, STATE: Orange, CT PROJECT NAME: Air National Guard MGI NO. 14881 OFFICE: New Britain	LOCATION: HOLE NO: B-15 BORING TYPE: B LINE & STA.: OFFSET:

GROUND WATER OBSERVATIONS
9.83' AT ___ FT. AFTER 0 HOURS
AT ___ FT. AFTER ___ HOURS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HS		SS	
SIZE, I.D.	3 1/4		1 3/8	
HAMMER WT.			140	BIT.
HAMMER FALL			30	

SURFACE ELEV. 177.0
DATE STARTED-FINISHED: 2-8-99
BORING FOREMAN: M. Jenett
INSPECTOR: C.C. Crisuolo
SOILS ENGR.: D.R. Stock

LOCATION OF BORING:

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE DEPTH FROM – TO	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER FROM – TO 0-6	6-12	12-18	STRATA CHANGE DEPTH / ELEV.	FIELD IDENTIFICATION OF SOIL & ROCK INCL. COLOR, LOSS OF WASH WATER, JOINTS IN ROCK, ETC.	SAMPLE NO.	PEN.	REC
		0.0 - 1.5	D	2	5	14	Dry Medium Dense	6" Top Soil Br. f-m SAND, some silt, trace gravel, trace vegetation	1	18	14
5		5.0 - 6.5	D	41	7	11	Dry Medium Dense	Weathered and Fractured BOULDER and Br. f-c SAND, little silt	2	18	3
10		10.0 - 11.5	D	8	7	7	Wet Medium Dense	Br. f-c SAND, little silt, some gravel	3	18	6
							13.0 164.0	Refusal on Augers at 13.0'			
15											
20											
25											
30											
35											

GROUND SURFACE TO ___ FT., USED ___ "CASING: THEN ___ "CASING TO ___ FT.
D=DRY W=WASHED C=CORED P=PIT A=AUGER V=VANE TEST
UP=UNDISTURBED, PISTON UB=UNDISTURBED, BALL CHECK OER=OPEN END ROD
PROPORTIONS USED: TRACE=0-10%, LITTLE=10-20%, SOME=20-35%, AND 35-50%

FOOTAGE IN EARTH		13.0
FOOTAGE IN ROCK		0.0
NO. OF SAMPLES		3
HOLE NO. B-15	TYPE	B

BORING CONTRACTOR: General Borings, Inc.

LOG PREPARED BY: CONTR. TM MGI CC

MAGUIRE GROUP INC.
ARCHITECTS-ENGINEERS-PLANNERS

BORING LOG

TOWN, STATE: Orange, CT
PROJECT NAME: Air National Guard
MGI NO. 14881 OFFICE: New Britain

SHEET 1 OF 1
LOCATION:
HOLE NO: B-16
BORING TYPE: B
LINE & STA.:
OFFSET:

GROUND WATER OBSERVATIONS
AT Dry FT. AFTER 0 HOURS
AT ___ FT. AFTER ___ HOURS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HS		SS	
SIZE, I.D.	3 1/4		1 3/8	
HAMMER WT.			140	BIT
HAMMER FALL			30	

SURFACE ELEV. 166.0
DATE STARTED-FINISHED: 2-8-99
BORING FOREMAN: M. Jenett
INSPECTOR: C. C. Crisuolo
SOILS ENGR.: D.R. Stock

LOCATION OF BORING:

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE DEPTH FROM – TO	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER FROM – TO 0-6	6-12	12-18	STRATA CHANGE DEPTH / ELEV.	FIELD IDENTIFICATION OF SOIL & ROCK INCL. COLOR, LOSS OF WASH WATER, JOINTS IN ROCK, ETC.	SAMPLE NO.	PEN.	REC.
		0.0 - 1.5	D	8	15	17	Dry Dense 4.0	2" Road Base GRAVEL and Dk Br. f-c SAND, little silt (FILL)	1	18	8
5		5.0 - 6.5	D	30	26	16	162.0 Dry Dense 8.0	Br. f-c SAND, some silt, little gravel (TILL)	2	18	10
							158.0	Refusal on Augers at 8.0'			
10											
15											
20											
25											
30											
35											

ROUND SURFACE TO ___ FT., USED ___ "CASING: THEN ___ "CASING TO ___ FT.
D=DRY W=WASHED C=CORED P=PIT A=AUGER V=VANE TEST
UP=UNDISTURBED, PISTON UB=UNDISTURBED, BALL CHECK OER=OPEN END ROD
PROPORTIONS USED: TRACE=0-10%, LITTLE=10-20%, SOME=20-35%, AND 35-50%

FOOTAGE IN EARTH	8.0
FOOTAGE IN ROCK	0.0
NO. OF SAMPLES	2
HOLE NO. B-16 TYPE	

BORING CONTRACTOR: General Borings, Inc.

LOG PREPARED BY: CONTR. TM MGI CC

MAGUIRE GROUP INC.
ARCHITECTS-ENGINEERS-PLANNERS

BORING LOG

TOWN, STATE: Orange, CT
PROJECT NAME: Air National Guard
MGI NO. 14881 OFFICE: New Britain

SHEET 1 OF 1
LOCATION:
HOLE NO: B-17
BORING TYPE: B
LINE & STA.:
OFFSET:

GROUND WATER OBSERVATIONS
AT Dry FT. AFTER 0 HOURS
AT ___ FT AFTER ___ HOURS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HS		SS	
SIZE, I.D.	3 1/4		1 3/8	
HAMMER WT.			140	BIT.
HAMMER FALL			30	

SURFACE ELEV. 163.5
DATE STARTED-FINISHED: 2-9-99
BORING FOREMAN: M. Jenett
INSPECTOR: C. C. Crisuolo
SOILS ENGR.: D.R. Stock

LOCATION OF BORING:

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE DEPTH FROM – TO	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER FROM – TO 0-6	6-12	12-18	STRATA CHANGE DEPTH / ELEV.	FIELD IDENTIFICATION OF SOIL & ROCK INCL. COLOR, LOSS OF WASH WATER, JOINTS IN ROCK, ETC.	SAMPLE NO.	PEN.	REC.
		0.0 – 1.5	D	12	14	13	Moist Medium Dense	Br. f-m SAND, some silt trace gravel	1	18	9
5		5.0 – 6.5	D	13	16	25	Dry Dense	Br. f-c SAND, some silt, little gravel	2	18	11
10		10.0 –	D	50/0"			Dry Very Dense 11.5	No Penetration	–	0	–
								Refusal on Augers at 11.5'			
15											
20											
25											
30											
35											

GROUND SURFACE TO ___ FT., USED ___ "CASING: THEN ___ "CASING TO ___ FT.
D=DRY W=WASHED C=CORED P=PIT A=AUGER V=VANE TEST
UP=UNDISTURBED, PISTON UB=UNDISTURBED, BALL CHECK OER=OPEN END ROD
PROPORTIONS USED: TRACE=0-10%, LITTLE=10-20%, SOME=20-35%, AND 35-50%

FOOTAGE IN EARTH		11.5
FOOTAGE IN ROCK		0.0
NO. OF SAMPLES		2
HOLE NO. B-17	TYPE	B