



City of Austin

PUBLIC WORKS DEPARTMENT

Project Management Division

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August 28, 2014

PROJECT: FAA Ductbank Relocation Re-Bid

CIP ID: 6000.064

IFB# 6100 CLMC494A

SUBJECT: Summary of Questions from Pre-Bid Meeting, Dated 08/19/2014

The following are answers to Bidder's questions received on the above project. These answers do not modify the Contract. Any modifications to the Contract will be through Addenda.

Q-1: Is there information available on the existing ductbank at the tie-in locations?

A-1: No additional information is available. The lateral location shown in the plans is based on survey data performed during design, as well as record drawings.

Q-2: The gate to the staging area has a concrete drive. Is a construction entrance still required?

A-2: Yes. A construction entrance is still required behind the concrete drive at the staging area entrance.

Q-3: Allowance 1 is for a gas line relocation. How does this work?

A-3: The gas line is owned by Texas Gas Service (TGS) and as such, coordination with TGS is required for the relocation of the gas line. The Airport has begun this coordination and is awaiting a notification from TGS. Once this is received, the Contractor shall coordinate the physical relocation with TGS and pay for the relocation out of this Allowance (See Section 01020 Allowances).

Q-4: Is there any geotechnical information available?

A-4: Borings were not performed for this project. However, attached is boring data taken from two previous projects within the vicinity of this project. This information is for reference only.

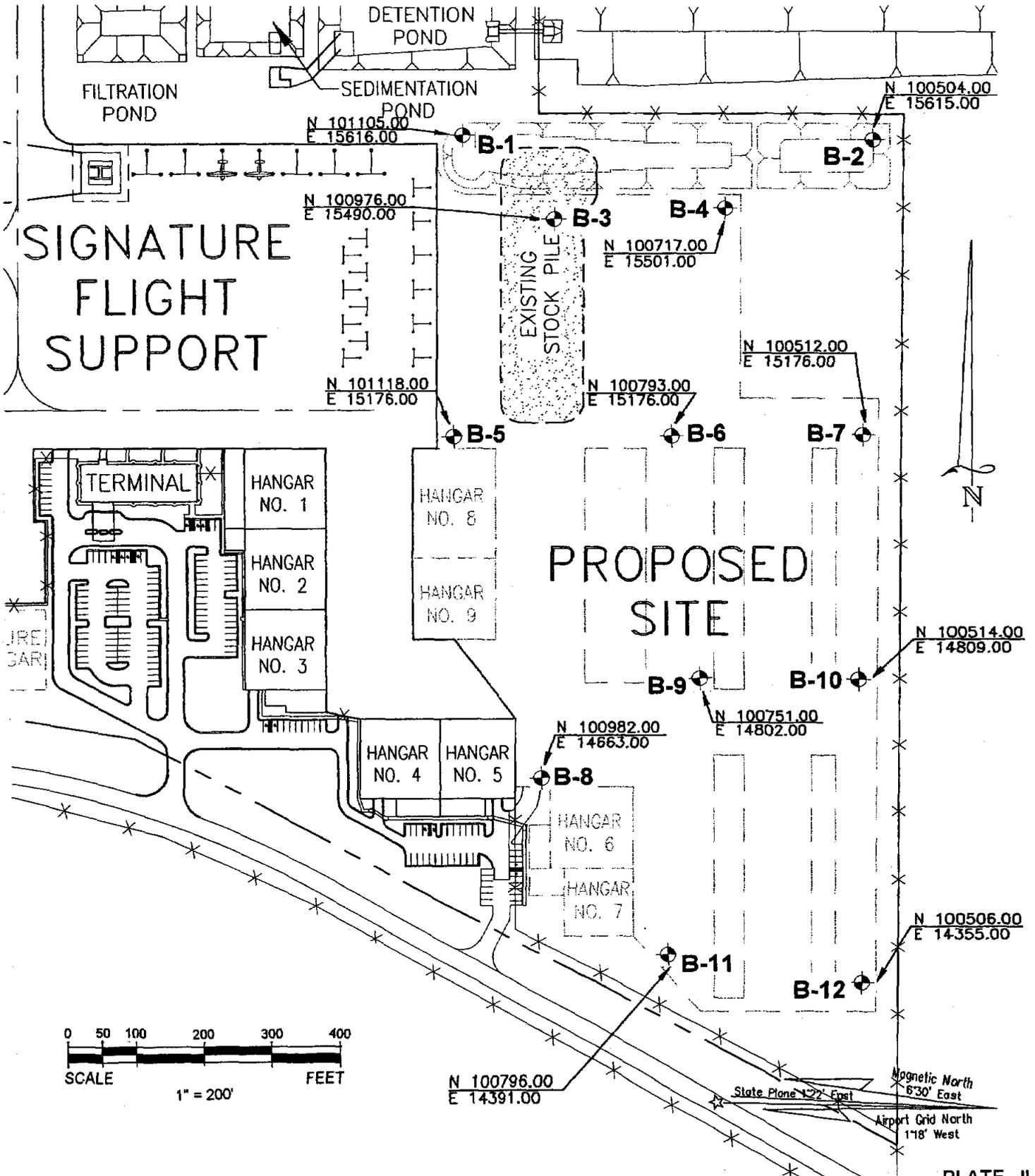
Alison Von Stein
Project Manager

SUBSURFACE INFORMATION DISCLAIMER

THE FOLLOWING SUBSURFACE BORING LOG SHEETS HAVE BEEN PREPARED, BY THE OWNER, FOR PAST PROJECTS AT AUSTIN-BURGSTROM INTERNATIONAL AIRPORT WHICH ARE LOCATED ADJACENT TO THE PROJECT SITE. HOWEVER, SUCH INFORMATION IS SPECIFICALLY NOT MADE A PART OF THE CONTRACT DOCUMENTS. IT HAS BEEN INCLUDED FOR GENERAL REFERENCE PURPOSES ONLY, AND THE OWNER DOES NOT GUARANTEE THE ACCURACY, ADEQUACY, OR COMPLETENESS THEREOF. THESE BORINGS WERE NOT TAKEN UNDER THE DIRECTION OF THIS PROJECT'S ENGINEER OF RECORD AND WERE NOT USED FOR DESIGN PURPOSES ON THIS PROJECT. THIS INFORMATION IS MADE AVAILABLE SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR WHO MAY PERFORM HIS OWN SUBSURFACE TESTING AND NOT TO RELY IN ANY MANNER UPON THIS INFORMATION IN FORMULATING HIS BID OR PERFORMING THE WORK. SUCH INFORMATION IS NOT INTENDED TO PROVIDE POSITIVE ASSERTIONS OF FACT AND THE CONTRACTOR, OR AFFILIATED SUBCONTRACTORS, SHOULD NOT USE THIS INFORMATION FOR BID OR DESIGN PURPOSES ON THIS PROJECT. ACTUAL SITE CONDITIONS MAY VARY FROM THOSE SHOWN IN THE ATTACHED BORING LOGS. NO ASSERTIONS OR STATEMENTS CONTAINED IN THE ATTACHED INFORMATION SHOULD BE RELIED UPON BY THE CONTRACTOR AS POSITIVE STATEMENTS OF FACT, AND THE OWNER SPECIFICALLY DISCLAIMS ANY RESPONSIBILITY OR LIABILITY FOR THE SAME, IF ANY, THEREIN.

**GENERAL AVIATION
 APRON EXPANSION - A B I A
 AUSTIN, TEXAS**

BORING LOCATIONS



EXPLANATION OF SYMBOLS AND TERMS USED ON LOGS OF BORINGS

DEPTH FEET	SYMBOL	SAMPLE TEST	RESULTS	MATERIAL DESCRIPTION	ROCK CORE REC./RQD%	ELEV. 823.5'	DEPTH
5	(SEE SYMBOLS BELOW)		----- INTACT PUSH TUBE SAMPLE				
			----- DISTURBED PUSH TUBE SAMPLE				
			----- SPLIT SPOON SAMPLE		10 MINUTE GROUNDWATER OBSERVATION ----- ▽		
			----- DISTURBED AUGER OR WASH SAMPLE				
			----- NO SAMPLE				
			p3.0 -----	POCKET PENETROMETER (tsf)			
			LL 27 -----	LIQUID LIMIT			
			PI 12 -----	PLASTICITY INDEX			
			F 59% -----	PERCENT FINES (PASSING NO. 200 SIEVE)	INITIAL GROUNDWATER OBSERVATION ----- ▽		
			N35 -----	STANDARD PENETRATION RESISTANCE			
			----- ROCK CORE SAMPLE (4" LONG, WRAPPED)				
			----- ROCK CORE SAMPLE (< 4" LONG, UNWRAPPED)		93/23		
		q169 -----	UNCONFINED COMPRESSION (tsf)				
		T100/2.5' -----	TEXAS CONE PENETRATION				

TYPICAL SOIL AND ROCK SYMBOLS (USCS CLASSIFICATION)

 Lean Clay (CL)  Fat Clay (CH)  Silt (ML)  Elastic Silt (MH)  Silty Sand (SM)  Clayey Sand (SC)	 Poorly-Graded Sand (SP)  Well-Graded Sand (SW)  Poorly-Graded Gravel (GP)  Well-Graded Gravel (GW)  Clayey Gravel (GC)  Silty Gravel (GM)	 Severely Weathered Limestone  Weathered Limestone  Limestone / Dolomitic Limestone  Marl / Marly Limestone  Base Material  Fill Material
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DEGREE OF WEATHERING

Unweathered.....	Rock in its natural state without visible sign of decomposition or discoloration
Weathered.....	Complete discoloration with zones of slightly decomposed rock
Severely Weathered.....	Complete discoloration and decomposition, approaching soil texture and appearance

SOIL STRUCTURE

Calcareous.....	Containing calcium carbonate
Slickensided.....	The presence of planes of weakness having a slick and glossy appearance
Interbedded.....	Alternating layers of varying material

The Log of Boring is a representation of the subsurface materials at the specific boring location within the depth explored. The transition between strata may be gradual and variations in material types and depths between borings can be expected. Water level observations represent those conditions at the time of exploration and may vary with time and location on the site.

LOG OF BORING

Project: General Aviation Apron Expansion - ABIA

Location: Austin, Texas

Date: 1 - 24 - 00 **Type:** Push Tube/Auger **Boring No:** 2

DEPTH FEET	SYMBOL	SAMPLE	TEST RESULTS	MATERIAL DESCRIPTION	ROCK CORE REC./ROD %	ELEV.	DEPTH
5		•	LL 55 PI 36 F 84% p 3.75	FAT CLAY; dark grayish-brown with scattered calcareous nodules			
		•	q 4.32 p 4.5+				
		•	p 4.5+				
		•	p 4.5+				
10		•	LL 43 PI 27 F %90 p 4.5+	LEAN CLAY; yellow-brown to olive-brown with scattered calcareous nodules			
				CLAYEY SAND with GRAVEL; yellow-brown to olive			
15			N 87/11.5"				
				<i>Total Depth of Boring = 14.5 Feet</i>			
				<i>Boring was advanced to 14.5 feet below the ground surface without using drilling fluid and ground water was not encountered above that depth.</i>			
20							

LOG OF BORING

Project: General Aviation Apron Expansion - ABIA

Location: Austin, Texas

Date: 1 - 25 - 00 **Type:** Push Tube/Auger **Boring No:** 7

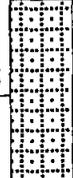
DEPTH FEET	SYMBOL	SAMPLE	TEST RESULTS	MATERIAL DESCRIPTION	ROCK CORE REC./ROD%	ELEV.	DEPTH
			LL 51 PI 32 F 61% q 2.23 p 3.75	SANDY FAT CLAY; dark grayish-brown, with scattered gravel --- 3.7' - 4.0'; becoming olive-brown			
5			N 85/10"	SAND with GRAVEL; brownish-yellow --- 9.0'; becoming olive-brown			
10			N 90/9"				
15			N 100/5"	CLAYEY SAND with GRAVEL; olive-brown			
20			F 42% p 4.5+	Total Depth of Boring = 20.0 Feet Boring was advanced to 20.0 feet below the ground surface without using drilling fluid and ground water was not encountered above that depth.			

LOG OF BORING

Project: General Aviation Apron Expansion - ABIA

Location: Austin, Texas

Date: 1 - 25 - 00 Type: Push Tube/Auger Boring No: 10

DEPTH FEET	SYMBOL	SAMPLE	TEST RESULTS	MATERIAL DESCRIPTION	ROCK CORE REC./ROD%	ELEV.	DEPTH
5			p 4.0 p 4.5+	FAT CLAY; dark grayish-brown with scattered calcareous nodules			
10			p 4.5+ q 7.97 p 4.5+ p 4.5+	LEAN CLAY; yellow-brown to olive-brown with scattered calcareous nodules			
15			PI < 5 F 37% p 2.5	SILTY SAND; yellowish-brown			
20			p 4.5+	FAT CLAY; olive			
				<p>Total Depth of Boring = 20.0 Feet</p> <p>Boring was advanced to 20.0 feet below the ground surface without using drilling fluid and ground water was not encountered above that depth.</p>			

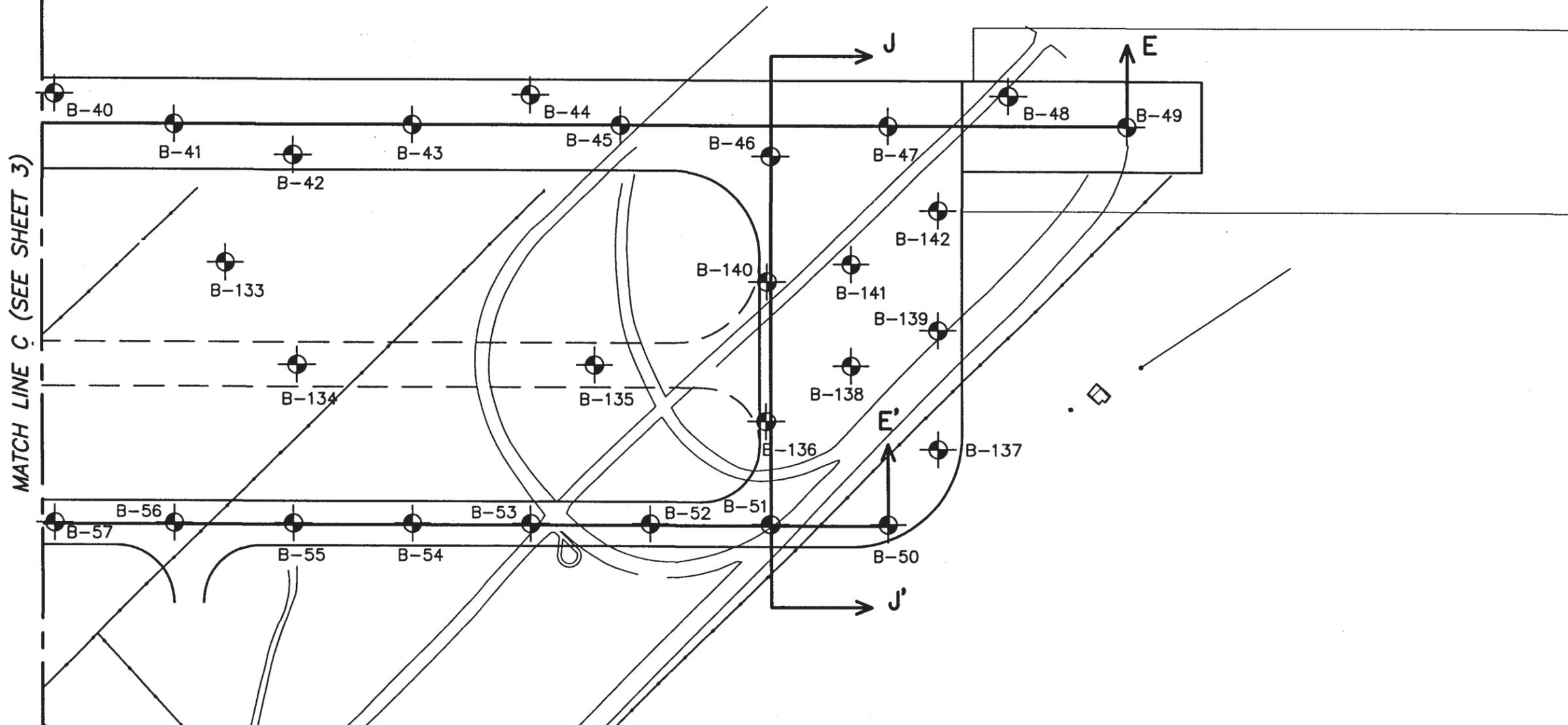
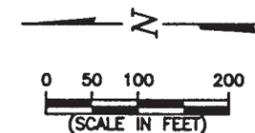
LOG OF BORING

Project: General Aviation Apron Expansion - ABIA

Location: Austin, Texas

Date: 1 - 25 - 00 **Type:** Push Tube/Auger **Boring No:** 12

DEPTH FEET	SYMBOL	SAMPLE	TEST RESULTS	MATERIAL DESCRIPTION	ROCK CORE REC./ROD%	ELEV.	DEPTH
				LEAN CLAY; dark brown to brown			
			p 2.5				
5			LL 26 PI 11 F 43% p 4.5+	CLAYEY SAND; brown to yellowish-brown			
			p 4.5+				
			q 4.45 p 4.5+				
10			p 4.5+				
				--- 10.0'; scattered gravel			
15			LL 40 PI 27 F 35%				
			N 91/9"				
20				Total Depth of Boring = 19.2 Feet Boring was advanced to 19.2 feet below the ground surface without using drilling fluid and ground water was not encountered above that depth.			



LEGEND:

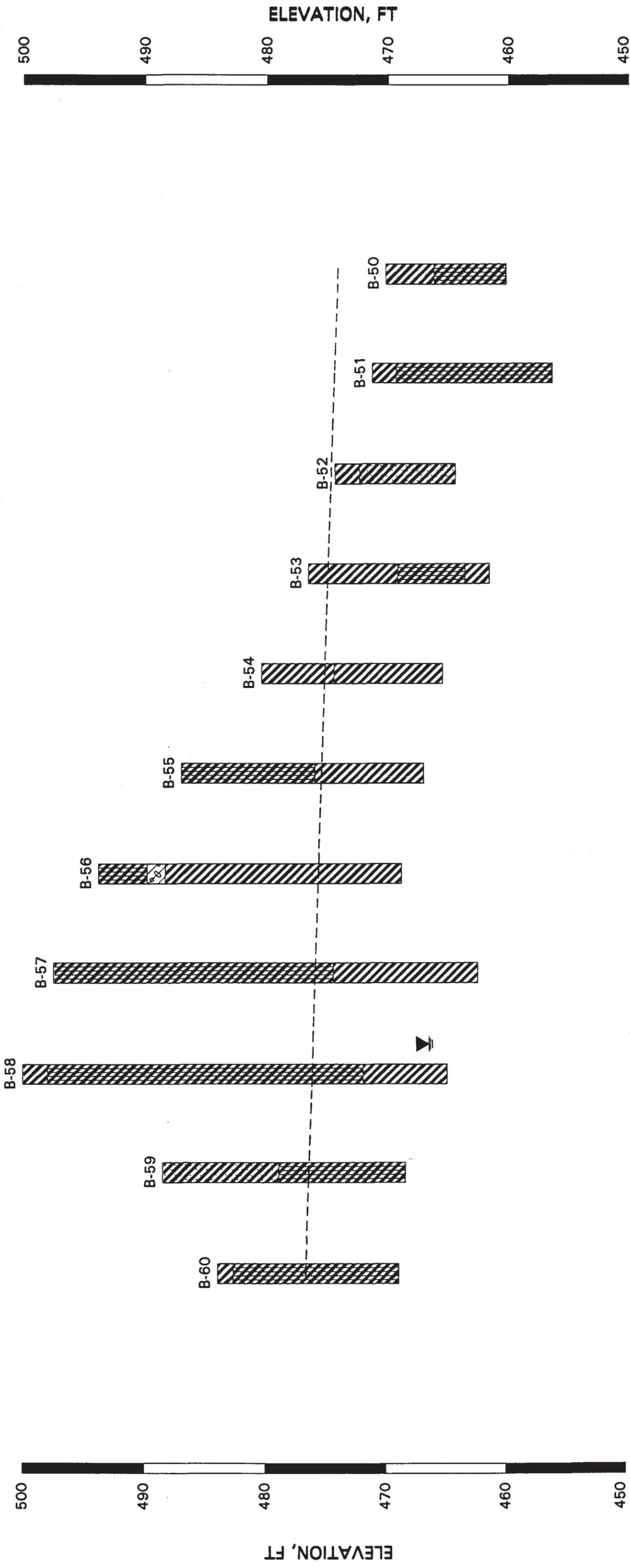
-  B-71 BORING LOCATIONS
-  A' LEGEND FOR SUBSURFACE PROFILES
-  EXISTING BUILDINGS
-  EXISTING CONCRETE PAVED AREAS
-  EXISTING ASPHALT PAVED AREAS

NOTE: THIS FIGURE WAS DEVELOPED FROM A CADD FILE PROVIDED BY THE CITY OF AUSTIN, BORING LOCATIONS WERE PROVIDED BY MACIAS & ASSOCIATES

BORING LAYOUT - SHEET 4

Task C.1 - NEW EAST RUNWAY
New Austin Airport at Bergstrom
Austin, Texas

SwL Project No. 25-93266



Legend

- Clay
- Silty Clay
- Sandy Clay
- Clayey Gravel
- Clayey Sand
- Silty Sand
- Concrete, Asphalt, Base Material
- Fill

▲ - Observed Groundwater Level

----- Planned Finished Pavement Grade

Note: Subsurface conditions between borings may vary from those illustrated.

SUBSURFACE PROFILE D' - E'

Task C.1 - New East Runway
New Austin Airport at Bergstrom
Austin, Texas

SwL Project No. 25-93266

LOG OF BORING NO. B-53

PROJECT: New Austin Airport at Bergstrom
 Task C.1 - New East Runway
 CLIENT: City of Austin - Department of Aviation
 Austin, Texas

PROJECT NO.: 25-93266
 DATE: 2/8/94
 SURFACE ELEV.: 476.5 ft
 X COORDINATE: 16033 ft (BACS)
 Y COORDINATE: 100261 ft (BACS)

FIELD DATA				LABORATORY DATA							DRILLING METHOD(S): Dry Augered 0-15 ft.			
SOIL & ROCK SYMBOL	DEPTH (FT)	SAMPLE TYPE	N: BLOWS/FT TC: THD CONE PENETRATION RESISTANCE P: POCKET PENETROMETER RESISTANCE R: PERCENTAGE OF ROCK CORE RECOVERY RQD: ROCK QUALITY DESIGNATION	MOISTURE CONTENT, %	DRY DENSITY POUNDS/CU.FT	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %	MINUS NO. 200 SIEVE, %	COMPRESSIVE STRENGTH, TSF	FAILURE STRAIN, %	PID READING, PPM	GROUNDWATER INFORMATION: No groundwater observed during drilling. Boring backfilled after drilling was completed.	
													DESCRIPTION OF STRATUM	
5	P = 1.5	39	83	24	59					5.53	2		Very stiff to hard dark gray clay (CH) -brown, with calcareous 5-7' <div style="text-align: right;">Stratum I</div>	
	P = 4.5 +	29	93											
	P = 4.5 +	26												
	P = 4.5 +	20												
10	P = 4.0	18											Stiff to very stiff tan silty clay (CL) with calcareous nodules <div style="text-align: right;">Stratum II</div>	
15	P = 1.25	21											Stiff tan and gray clay (CH) with ferrous stains <div style="text-align: right;">Stratum IV</div>	
20													Boring Terminated at 15 ft	
25														
30														
35														
40													REMARKS:	
N - STANDARD PENETRATION TEST RESISTANCE TC - THD CONE PENETRATION RESISTANCE P - POCKET PENETROMETER RESISTANCE R - PERCENTAGE OF ROCK CORE RECOVERY RQD - ROCK QUALITY DESIGNATION														

LOG OF BORING NO. B-54

PROJECT: New Austin Airport at Bergstrom
Task C.1 - New East Runway
CLIENT: City of Austin - Department of Aviation
 Austin, Texas

PROJECT NO.: 25-93266
DATE: 2/8/94
SURFACE ELEV.: 480.4 ft
X COORDINATE: 16033 ft (BACS)
Y COORDINATE: 100461 ft (BACS)

FIELD DATA			LABORATORY DATA							DRILLING METHOD(S): Dry Augered 0-15 ft.				
SOIL & ROCK SYMBOL	DEPTH (FT)	SAMPLE TYPE N: BLOWS/FT TC: BLOWS/FT P: TONS/SQ FT R: PERCENT RQD: PERCENT	MOISTURE CONTENT, %	DRY DENSITY POUNDS/CU.FT	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %	MINUS NO. 200 SIEVE, %	COMPRESSIVE STRENGTH, TSF	FAILURE STRAIN, %	PID READING, PPM	GROUNDWATER INFORMATION: No groundwater observed during drilling. Boring backfilled after drilling was completed.		
DESCRIPTION OF STRATUM														
5	P = 1.0 P = 2.75 P = 4.5 +	30 24 20	109	73	18	55		8.37	15			Very stiff to hard dark gray clay (CH) -stiff 0-2' Stratum I		
10	P = 3.75 P = 2.75	21 25										Stiff to very stiff tan clay (CH) Stratum IV		
15	P = 3.25	23										Boring Terminated at 15 ft		
40	N - STANDARD PENETRATION TEST RESISTANCE TC - THD CONE PENETRATION RESISTANCE P - POCKET PENETROMETER RESISTANCE R - PERCENTAGE OF ROCK CORE RECOVERY RQD - ROCK QUALITY DESIGNATION										REMARKS:			

LOG OF BORING NO. B-55

PROJECT: New Austin Airport at Bergstrom
Task C.1 - New East Runway
CLIENT: City of Austin - Department of Aviation
 Austin, Texas

PROJECT NO.: 25-93266
DATE: 2/8/94
SURFACE ELEV.: 486.9 ft
X COORDINATE: 16033 ft (BACS)
Y COORDINATE: 100661 ft (BACS)

FIELD DATA				LABORATORY DATA							DRILLING METHOD(S): Dry Augered 0-20 ft.		
SOIL & ROCK SYMBOL	DEPTH (FT)	SAMPLE TYPE	N: BLOWS/FT TC: BLOWS/FT P: TONS/SQ.FT R: PERCENT ROD: PERCENT	MOISTURE CONTENT, %	DRY DENSITY POUNDS/CU.FT	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %	MINUS NO. 200 SIEVE, %	COMPRESSIVE STRENGTH, TSF	FAILURE STRAIN, %	PID READING, PPM	GROUNDWATER INFORMATION: No groundwater observed during drilling. Boring backfilled after drilling was completed.
													DESCRIPTION OF STRATUM
5	P = 3.0 P = 4.5 P = 4.5 + N = 50/4"	12 17 12 9	112	36	11	25							Very stiff to hard tan and gray silty clay (CL) with calcareous pockets -hard below 4'
10	N = 51 N = 52	12 13											Stratum II
15	P = 4.5 +	20	110	60	17	43		4.00	4				Hard tan and gray clay (CH)
20	P = 4.5 +	21											Stratum IV
25													Boring Terminated at 20 ft
30													
35													
40													
N - STANDARD PENETRATION TEST RESISTANCE TC - THD CONE PENETRATION RESISTANCE P - POCKET PENETROMETER RESISTANCE R - PERCENTAGE OF ROCK CORE RECOVERY RQD - ROCK QUALITY DESIGNATION												REMARKS:	