



COLLIN COUNTY

Office of the Purchasing Agent
2300 Bloomdale Road
Suite 3160
McKinney, Texas 75071
www.collincountytx.gov

COLLIN COUNTY, TEXAS

ADDENDUM NO. ONE (1)

IFB NO. 2024-282

INVITATION FOR BID

FOR

CONSTRUCTION, EMERGENCY GENERATOR FUELING SYSTEM REPLACEMENT

DATE: JUNE 4, 2024

NOTICE TO ALL PROSPECTIVE BIDDERS:

PLEASE MAKE THE FOLLOWING CHANGES TO THE INVITATION FOR BID:

CHANGE FROM: BID CLOSE DATE 6/13/2024 AT 2:00 PM
CHANGE TO: BID CLOSE DATE 6/27/2024 AT 2:00 PM

CHANGE: BID QUESTION CUT-OFF DATE
FROM: 6/7/2024 AT 5:00 PM
TO: 6/14/2024 AT 5:00 PM

ADD: ADDITIONAL MANDATORY PRE-BID MEETING DATE & TIME
6/11/2024 AT 1:30 PM
(Please note this is an additional opportunity for all vendors, but attendance is only mandatory for ONE of the three meetings)

ADD DOCUMENT: PRE-BID MEETING ATTENDANCE RECORDS – ATTACHMENT A
5/28/2024 & 5/30/2024 ATTENDANCE RECORDS

ADD DOCUMENT: GEOTECH REPORT – ATTACHMENT B

ADD ATTRIBUTE: ATTRIBUTE NO. TWENTY-FOUR (24) - ADDENDUM NO. ONE (1)
ACKNOWLEDGEMENT

ALL OTHER TERMS AND CONDITIONS OF THE SOLICITATION AND SPECIFICATIONS REMAIN THE SAME.

SINCERELY,
MICHELLE CHARNOSKI, NIGP-CPP, CPPB
PURCHASING AGENT

/SLH

ATTACHMENT A



IFB # 2024-282
MANDATORY PRE-BID CONFERENCE SIGN IN SHEET

Project:	Construction, Emergency Generator Fueling System Replacement	Meeting Date:	May 28, 2024
Facilitator:	Susan Hayes	Place/Room:	Central Plant Conference Room

Name	Company	Phone	E-Mail
STUART Holloway	HWS	214-578-9279	STUART@HollowayWUP.com
Kevin Holloway	HWP	214-878-9275	Kevin@hollowayWUP.COM
Nathaniel P. Ritzclett	Collin County EQ-SVC	972-548-3729	nritzclett@co.collin.tx.us
Darron Marzett	Collin County	972-548-3712	dmarzett@co.collin.tx.us
MICHAEL SMITH	MD ENGINEERING	469-467-0200	msmith@md-eng.com
CHRISTOPHER PEREPIZHU	Collin County Sheriff's Office	972-547-5216	C.PEREPIZHU@COLLINCOUNTYTX.GOV
Shay Purser	Collin County Purchasing	972 547 4104	spurser@co.collin.tx.us
Ricky Thomas	Facilities Maint	214 733-6032	rthomas2@co.collin.tx.us

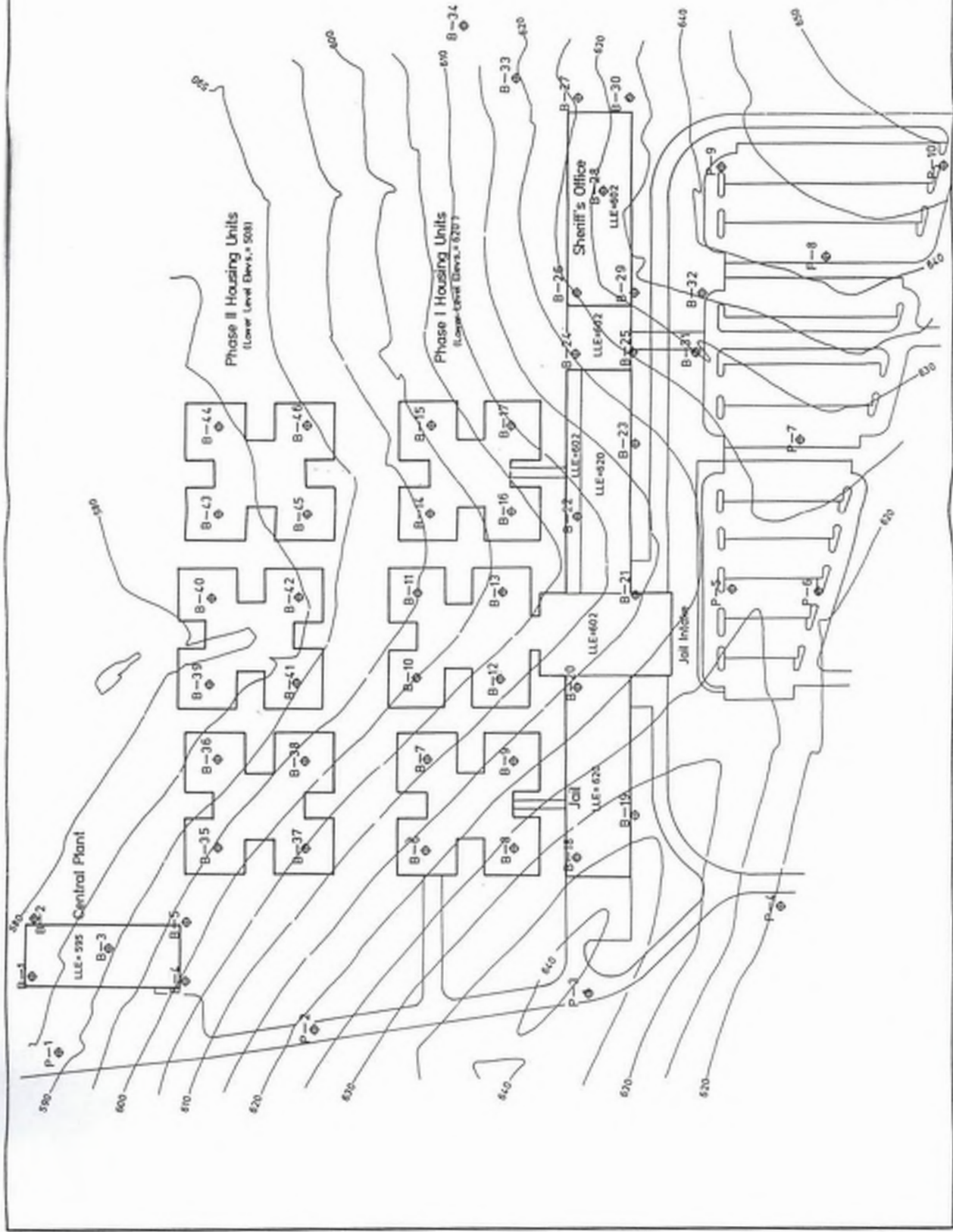


IFB # 2024-282 MANDATORY PRE-BID CONFERENCE SIGN IN SHEET

Project:	Construction, Emergency Generator Fueling System Replacement	Meeting Date:	May 30, 2024
Facilitator:	Susan Hayes	Place/Room:	Central Plant Conference Room

Name	Company	Phone	E-Mail
Michael Ward	JF Petroleum Group	469-580-0496	mward@jfpetrogroup.com
Chad Muri	JF Petro/Colton	817-845-1200	chad@carbonenviro.com
LAZ VADASZ	C.C.	972-547-5332	lvadasz@co.collin.tx.us
George King	C.C.	972-547-5363	gking@collincountytx.gov
Nathaniel Pritchett	CC	972-548-3729	npritchett@co.collin.tx.us
Darron Marzett	Collin County	972-548-3712	dmarzett@co.collin.tx.us
MICHAEL SMITH	MD ENGINEERING	469-467-0200	msmith@md-eng.com
CHRISTOPHER PEREZCHU	Collin County Sherice's Office	972-547-5216	cperezchu@collincountytx.gov
LISA MARIE BATTIS	cc	972-548-4543	LISA LBATTIS@co.collin.tx.us

Scale: 1" = 150'



LOG OF BORING NO. B-1

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF	
				SURF. EL. 581.8									
5				Very stiff brown clay (CH), with roots and calcareous particles (Terrace Deposit) - with some fine gravel and limestone fragments below 2.0' - tan below 6.0' - stiff below 14.0'		16						2.7 (P)	
							16						2.7 (P)
							18						2.7 (P)
							19						2.7 (P)
							20						2.7 (P)
15						21						1.6 (P)	
20						30						1.9 (P)	
25				Stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	558.8 23.0								
						27						1.2 (P)	
30			100/ 1.25"	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) - highly weathered 26.0' to 27.0'	555.8 26.0 553.8 28.0								
				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)									
35			100/ 0.6"										
40			100/ 0.4"										
					538.8 43.0								

COMPLETION DEPTH: 43.0' DEPTH TO WATER: 17.8

DATE: 6-20-90

DATE: 7-6-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-2

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 581.4								
				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	533.4	14					123	423(U)
				-shale seam at 47.7'	48.0							
50												
55												
60												
65												
70												
75												
80												
85												

COMPLETION DEPTH: 48.0'

DEPTH TO WATER: 163

DATE: 6-25-90

DATE: 7-6-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-3

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 589.3								
				Stiff brown clay (CH), with limestone fragments (Residual Soil)	587.3							
				Stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	2.0 585.3							
5			100 (42)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -steep, iron stained fracture at 7.5'	4.0							
			98 (54)									
10				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan limestone seam at 12.1' -steep fracture at 16.7'	577.3	13					125	65.0 (U)
			96 (46)			12.0						
15						14					122	53.8 (U)
			90 (74)									
20						12					128	63.9 (U)
			100 (100)									
25						11					115	68.4 (U)
			90 (90) 98 (74)									
30						80					78	118 (U)
				-bentonitic seam at 33.0'								
35					555.3 34.0							

COMPLETION DEPTH: 34.0'

DEPTH TO WATER: 23.1

U=Unconfined P=Pocket Penetrometer

DATE: 6-25-90

DATE: 7-6-90

Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-4

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 601.3								
5				Hard brown clay (CH), with limestone fragments and fine gravel (Residual Soil)	595.3	12						2.7 (P)
					6.0	11					123	11.9 (U)
					593.8	16						2.7 (P)
				Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	7.5	19						2.7 (P)
10			92 (68)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -steep to moderate fractures from 9.0' to 11.0'	590.1	13					126	111 (U)
15			98 (98)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan weathered limestone layer 12.8' to 13.4'		12					127	138 (U)
20			98 (92)			12					130	101 (U)
25			96 (92)			12					126	65.7 (U)
30					572.3 29.0							

COMPLETION DEPTH: 29.0'

DEPTH TO WATER: 28.0

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

DATE: 6-28-90

DATE: 7-6-90

LOG OF BORING NO. B-5

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 597.8								
				Very stiff to hard brown clay (CH), with calcareous particles and roots (Residual Soil)	595.2	14						2.7 (P)
					2.6	17						2.7 (P)
5			100/ 9.6"	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	590.9							
			100/ 0.75"	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	6.9							
10												
15												
20												
			100/ 0.4"		575.4							
					22.4							
25												
30												
35												
40												
COMPLETION DEPTH: 22.4'						U=Unconfined P=Pocket Penetrometer Q=Unconsolidated-Undrained Triaxial T=Torvane						
DATE: 6-20-90												

LOG OF BORING NO. B-6

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 618.4								
				Very stiff to hard brown clay (CH), with calcareous particles and iron deposits (Residual Soil)	616.4	14	53	19	34			2.7 (P)
					2.0	15						2.7 (P)
5			98 (54)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)								
				-highly weathered 2.0' to 4.0'								
				-steep, iron stained fracture 2.0' to 5.0'								
			96 (74)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	611.9							
10					6.5	12					121	110 (U)
				-steep, iron stained fracture at 11.5'								
			96 (96)									
15						12					121	91.5 (U)
			98 (94)									
20						12					122	157 (U)
			94 (78)									
25						12					122	136 (U)
			100 (100)									
30					588.4							
					30.0							

COMPLETION DEPTH: 30.0'

DEPTH TO WATER: 26.3

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

DATE: 6-18-90

DATE: 7-6-90

LOG OF BORING NO. B-7

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 609.4								
				Very stiff to hard brown clay (CH), with roots (Residual Soil) -light brown below 2.0'		13						2.7 (P)
					604.9	19						2.7 (P)
5				Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	4.5	21						2.7 (P)
					602.9							
					6.5	20						2.7 (P)
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -highly weathered 6.5' to 7.5'	600.9							
10			100/3.5"		8.5							
				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)								
15			100/0.6"									
20												
			100/0.25"		585.9							
25					23.5							
30												
35												
40												

COMPLETION DEPTH: 23.5'

DATE: 6-20-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B- 8

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 627.8								
				Very stiff brown clay (CH), with calcareous nodules and roots (Residual Soil)	626.3	16						2.7 (P)
					1.5							
				Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	624.9	21						2.7 (P)
5			100/0.9"		2.9							
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	619.6							
10				-highly weathered 2.9' to 4.2'	8.2							
				-with unweathered layers below 6.0'								
			100/0.75"	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)								
15												
20												
			100/0.4"		604.1							
25					23.7							
30												
35												
40												

COMPLETION DEPTH: 23.7'

DATE: 6-19-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-9

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 618.6								
				Very stiff brown clay (CH), with calcareous particles and roots (Residual Soil)	616.6	16	54	20	34			2.7 (P)
					2.0	20						
				Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group)	614.6	17						2.7 (P)
5			87 (42)		4.0							
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)								
10			94 (38)	-steep, iron stained fracture 4.0' to 8.0'								
					606.6	13					117	107 (U)
				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	12.0							
15			98 (98)			13					121	93.7 (U)
				-steep fracture at 16.7'								
20			96 (86)			13					121	111 (U)
25			98 (78)			12					122	139 (U)
30			90 (56)		587.6	13					120	112 (U)
					31.0							
35												
40												

COMPLETION DEPTH: 31.0'

DEPTH TO WATER: 29.0

U=Unconfined P=Pocket Penetrometer
 O=Unconsolidated-Undrained Triaxial T=Torvane

DATE: 6-18-90

DATE: 7-6-90

LOG OF BORING NO. B-10

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 600.4								
				Very stiff brown clay (CH), with limestone fragments (Residual Soil)		14						2.7 (P)
					596.4	17						2.7 (P)
5			100 (40)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	4.0	18						2.7 (P)
			94 (46)	-highly weathered 4.0' to 5.0' -with fewer clay seams below 8.0'								
10				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	589.4							
			96 (72)	-with tan, moderately weathered seams 13.0' to 18.0'	11.0	12					123	120 (U)
15												
			98 (80)									
20						13					118	89.7 (U)
			100 (100)									
25						12					123	82.3 (U)
			100 (100)									
30					570.4	13					123	94.1 (U)
					30.0							

COMPLETION DEPTH: 30.0'

DEPTH TO WATER: 25.7

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated- Undrained Triaxial T=Torvane

DATE: 6-19-90

DATE: 7-18-90

LOG OF BORING NO. B-11

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 594.4								
5				Very stiff dark brown clay (CH), with some calcareous particles (Terrace Deposit)		21						2.7 (P)
				-with some shell fragments and fine gravel below 5.0'		19						2.7 (P)
						18						2.7 (P)
						19						2.7 (P)
						20						2.7 (P)
10												
				-stiff, light brown below 12.5'								
15						24						1.8 (P)
20						25						1.8 (P)
25						24						2.4 (P)
30				-with slickensided fissures below 30.0'		32						2.1 (P)
35				Stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	560.9 33.5							
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	558.7 35.7	21						2.7 (P)
			100/ 0.5"	-highly weathered 35.7' to 36.5'	557.3 37.1							
40				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)								
			100/ 0.4"									

COMPLETION DEPTH: 52.3' DEPTH TO WATER: 18.0

DATE: 6-21-90

DATE: 6-22-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-11

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 594.4								
50			100/ 0.25'	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	542.1							
55					52.3							
60												
65												
70												
75												
80												
85												

COMPLETION DEPTH: 52.3' DEPTH TO WATER: 18.0

DATE: 6-21-90

DATE: 6-22-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated- T=Torvane
Undrained Triaxial

LOG OF BORING NO. B-12

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 608.0								
				Very stiff brown silty clay (CL), with limestone fragments (Residual Soil)		13						2.7 (P)
				-with calcareous particles below 4.0'		17	48	22	26		111	3.8 (U)
5					601.8							
				Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	6.2	19						2.7 (P)
					600.0							
					8.0	19						2.7 (P)
10			100/ 5.75'	Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group)	597.7							
					10.3							
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	594.3							
15					13.7							
				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)								
20				-tan, moderately weathered layer 19.7' to 21.2'								
25			100/ 0.6'									
			100/ 0.5'		579.3							
30					28.7							
35												
40												

COMPLETION DEPTH: 28.7'

DATE: 6-21-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-13

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 601.7								
				Very stiff dark brown clay (CH), with roots (Terrace Deposit)		23						2.7 (P)
						20	56	23	33			2.7 (P)
5				-light brown with shell fragments and calcareous particles below 4.0'		19						2.7 (P)
						20						2.7 (P)
				-stiff to very stiff below 8.0'		22						2.1 (P)
10												
15				-with limestone fragments and iron staining below 15.0'		24					91	1.6 (U)
20						24	59	21	38			2.5 (P)
25						26						2.4 (P)
30				-with slickensided fissures below 30.0'		26						1.9 (P)
					567.7							
35				Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group)	34.0							
			74 (36)	-iron staining at 39.8'	561.9							
40				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	39.8	13					125	104 (U)
			94 (94)									

COMPLETION DEPTH: 56.0'

DEPTH TO WATER: 25.2

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated Undrained Triaxial T=Torvane

DATE: 6-13-90

DATE: 7-6-90

LOG OF BORING NO. B-13

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 601.7								
50			100 (98)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)		13					124	143 (U)
55			100 (100)			14					119	60.6 (U)
					545.7 56.0							
60												
65												
70												
75												
80												
85												
COMPLETION DEPTH: 56.0' DEPTH TO WATER: 25.2						U=Unconfined P=Pocket Penetrometer						
DATE: 6-13-90 DATE: 7-6-90						Q=Unconsolidated-Undrained Triaxial T=Torvane						

LOG OF BORING NO. B-14

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 595.6								
5				Very stiff brown and dark brown silty clay (CL), with some limestone fragments (Terrace Deposit)		16	33	20	13			2.7 (P)
				-with some calcareous particles and iron staining below 5.0'		22						2.7 (P)
				-light brown with some fine gravel below 8.0'		19						2.7 (P)
				-stiff below 15.0'		19						2.7 (P)
				-firm below 20.0'		20					107	2.9 (U)
15												
						23	46	20	26		94	1.2 (P)
20												
						27	44	20	24		95	0.9 (P)
25												
						25						0.9 (P)
30			89 (25)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	566.6 29.0							
35			69 (51)		560.6 35.0							
				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)								
40			96 (96)			13					124	108 (U)
						12					126	157 (U)

COMPLETION DEPTH: 50.0'

DEPTH TO WATER: 20.9

U=Unconfined P=Pocket Penetrometer

DATE: 6-12-90

DATE: 7-6-90

Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-14

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 595.6								
			92 (92)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	545.6 50.0							
50			100 (100)				13					122
55												
60												
65												
70												
75												
80												
85												

COMPLETION DEPTH: 50.0'

DEPTH TO WATER: 20.9

DATE: 6-12-90

DATE: 7-6-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-15

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 600.8								
				Very stiff brown and dark brown clay (CH), with calcareous particles (Residual Soil)		16						2.7 (P)
						19						2.7 (P)
5				Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	596.3							
					4.5	20						2.7 (P)
					593.6							
					7.2	23						2.7 (P)
10			100/ 3.5"	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)								
				-highly weathered 7.2' to 9.0'	589.7							
					11.1							
15				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)								
				-shallow, iron stained fracture at 13.9'								
20			100/ 0.25"	-tan, moderately weathered layer 19.5' to 20.0'								
				-wide, horizontal joints below 20.0'								
25			100/ 0.3"									
					574.8							
					26.0							
30												
35												
40												
COMPLETION DEPTH: 26.0'						U=Unconfined P=Pocket Penetrometer O=Unconsolidated- T=Torvane Undrained Triaxial						
DATE: 6-12-90												

LOG OF BORING NO. B-16

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 603.2								
5				Very stiff brown and dark brown clay (CH), with some shell fragments and calcareous particles (Terrace Deposit)		17						2.7 (P)
						17						2.7 (P)
				-light brown below 4.5'		17						2.7 (P)
						18						2.7 (P)
						20						2.7 (P)
15						22						2.7 (P)
					585.7							
				Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	17.5							
20			100/11.25"	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	583.7	18						2.7 (P)
					19.5							
25					577.9							
				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	25.3							
				-shallow fracture at 27.0'								
30			100/0.25"	-vertical, healed fractures 28.0' to 28.6' and 29.5' to 30.3'								
35			100/0.4"									
					563.9							
40					39.3							
COMPLETION DEPTH: 39.3'						U=Unconfined P=Pocket Penetrometer O=Unconsolidated- T=Torvane Undrained Triaxial						
DATE: 6-11-90												



LOG OF BORING NO. B-17

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 610.0								
				Very stiff to hard brown and dark brown silty clay (CL), with some calcareous particles (Residual Soil)	606.5	15	48	25	23			2.7 (P)
						21						2.7 (P)
5			100 (55)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	3.5	21						2.7 (P)
				- highly weathered layer 7.0' to 7.5'							116	80.1 (U)
			94 (84)	- steep fracture at 8.6'	600.7	14						
10				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	9.3	15					120	84.1 (U)
			96 (92)	- tan, moderately weathered seams 12.5' to 17.5'								
15											115	78.4 (U)
			94 (92)									
20				- tan limestone layer at 20.5								
			100 (100)									
25					584.5	12					127	115 (U)
					25.5							

COMPLETION DEPTH: 25.5'

DATE: 6-10-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane



LOG OF BORING NO. B-18

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 632.8								
				Very stiff brown silty clay (CL), with limestone fragments (Residual Soil)		18						2.7 (P)
					628.8	18						2.7 (P)
5			100 (45)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	4.0							
			96 (80)	-moderate fracture at 6.7'								
10			96 (80)	-highly weathered with iron staining 6.7' to 9.0'	623.8	13					124	423 (U)
			96 (80)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	9.0							
			96 (80)	-bentonitic seam at 13.0'		11					130	128 (U)
15			98 (98)	-iron staining at 15.0'								
			98 (98)			12					128	143 (U)
20			100 (54)									
			90 (90)			19					119	124 (U)
25												
30					601.8							
					31.0							

COMPLETION DEPTH: 31.0'

DEPTH TO WATER: 26.9

U=Unconfined P=Pocket Penetrometer

DATE: 6-15-90

DATE: 7-6-90

Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-19

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 629.0								
				Very stiff to hard brown silty clay (CL), with roots and limestone fragments (Residual Soil)	627.5	13						2.7 (P)
					1.5							
				Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	626.0	16						2.7 (P)
5			100/10.25"		3.0							
				Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group)	624.0							
			100/4.4"		5.0							
10				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)								
			100/0.9"		616.5							
				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	12.5							
15												
20												
25												
			100/0.25"		601.0							
					28.0							
30												
35												
40												

COMPLETION DEPTH: 28.0'

DATE: 6-20-90

U=Unconfined P=Pocket Penetrometer
 Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-20

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 616.6								
				Very stiff to hard brown silty clay (CL), with roots and some limestone fragments (Residual Soil)	613.1	12	45	23	22			2.7 (P)
					3.5	20						2.7 (P)
5			100/5.75"	Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group)	610.1							
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	6.5							
10					608.5							
				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	8.1							
15			100/0.75"									
20												
			100/0.4"									
25					593.5							
					23.1							
30												
35												
40												

COMPLETION DEPTH: 23.1'

DEPTH TO WATER: 19.2

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

DATE: 6-20-90

DATE: 7-6-90

LOG OF BORING NO. B-21

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF	
				SURF. EL. 613.5									
				Very stiff dark brown and brown clay (CH), with some gravel and calcareous particles (Terrace Deposit) -light brown with limestone and shell fragments below 4.5'		17						2.7 (P)	
						30							2.7 (P)
5						20							2.7 (P)
						21							2.7 (P)
						23	59	23	36		101		2.6 (P)
10													
15													
							26						2.4 (P)
20													
						23	54	23	31	100		3.0 (U)	
25					588.5								
				Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	25.0	26						2.1 (P)	
30			100		582.5								
			(50)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -occasional gray limestone seams below 34.3' -moderate to steep, iron stained fractures below 35.3'	31.0								
35			92 (54)										
40			94 (94)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan limestone seam 39.1'	575.2	14					117	60.7 (U)	
					38.3								
			96 (96)										
						12					122	85.0 (U)	
						12					126	115 (U)	

COMPLETION DEPTH: 53.0'

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated- Undrained Triaxial T=Torvane

DATE: 6-19-90



LOG OF BORING NO. B-21

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSP
				SURF. EL. 613.5								
50			98 (78)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -shallow fracture at 48.0' -bentonitic seam at 52.1'	560.5 53.0	13					118	83.7 (U)
55						14					117	136 (U)
60												
65												
70												
75												
80												
85												
COMPLETION DEPTH: 53.0'						U=Unconfined P=Pocket Penetrometer Q=Unconsolidated- T=Torvane Undrained Triaxial						
DATE: 6-19-90												

LOG OF BORING NO. B-22

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 607.8								
5				Very stiff dark brown and brown clay (CH), with calcareous particles (Terrace Deposit) -light brown below 4.0'		17						2.7 (P)
						18						2.7 (P)
						18						2.7 (P)
						19						2.7 (P)
						22						2.4 (P)
						25						2.4 (P)
					591.3							
			100/6.25"	Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group)	16.5							
			100/1.75"	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -thin bedded 18.0' to 20.3'	589.8							
			100/0.4"		18.0							
					574.6							
					33.2							

COMPLETION DEPTH: 33.2'

DATE: 6-12-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-23

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 617.0								
				Very stiff brown and dark brown clay (CH), with limestone fragments (Residual Soil)	615.0	19						2.7 (P)
					2.0	18						2.7 (P)
5			100/8.25 98 (92)	Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	613.0							
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	609.6							
10			99 (99)	-highly weathered 4.0' to 5.0'	7.4							
				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)								
15			100 (100)	-tan, moderately weathered seam at 14.5'								
20			98 (98)	-tan, moderately weathered, vertical, healed fracture at 18.4'								
25			100 (100)									
30				-steep fracture at 29.0'	587.5							
					29.5							

COMPLETION DEPTH: 29.5'

DATE: 6-12-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-24

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH T _{9F}
				SURF. EL. 619.7								
				Very stiff to hard brown silty clay (CL), with limestone fragments and iron staining (Residual Soil)		11	48	23	25		104	2.7 (P)
					615.7							
5			92 (54)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -moderate fracture at 7.6'	4.0							2.7 (P)
10			92 (72)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	609.2	13					122	52.8 (U)
15			96 (92)	-tan, moderately weathered layer at 14.5'	10.5							
20			92 (52)	-tan, moderately weathered layer 18.8' to 19.6'								
25			98 (72)									
30				-moderate fracture at 28.3'	589.7							
					30.0							
35												
40												

COMPLETION DEPTH: 30.0'

DEPTH TO WATER: 26.6

DATE: 6-20-90

DATE: 7-6-90

U=Unconfined P=Pocket Penetrometer
 O=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-25

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./ROD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSP
				SURF. EL. 624.7								
				Very stiff brown clay (CH), with calcareous particles (Residual Soil)	622.7	20						2.7 (P)
				Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	2.0 621.2	15						2.7 (P)
5			100/ 12"	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	3.5							
				-highly weathered 3.5' to 4.5'								
10			100/ 0.5"	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	616.7							
				-vertical fracture 8.7' to 9.8'								
				-with few calcite veins 9.0' to 13.0'	8.0							
30			100/ 0.25"		594.2 30.5							

COMPLETION DEPTH: 30.5'

DATE: 6-13-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-26

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./ROD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 623.7								
				Very stiff brown clay (CH), with calcareous particles (Residual Soil)	621.7	18						27 (P)
				Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	2.0 619.7	19						27 (P)
5				Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group)	4.0	12						27 (P)
				-moderately weathered below 6.5'								
			100/ 1.75"	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	616.7	14						27 (P)
10				-sandy calcite seams along shallow fractures 7.0' to 8.0'								
				-pyrite crystals at 13.0'	7.0							
20			100/ 0.3"									
30			100/ 0.2"		593.6 30.1							

COMPLETION DEPTH: 30.1'

DATE: 6-13-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-27

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSP
				SURF. EL. 624.5								
	[Hatched]			Very stiff brown silty clay (CL), with calcareous particles, iron staining and shell fragments (Residual Soil)		18						2.7 (P)
					620.5							
5	[Wavy]		78 (0)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	4.0							
					615.5							
10	[Horizontal lines]		94 (78)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	9.0	11					125	115 (U)
15	[Horizontal lines]		92 (78)									
20	[Horizontal lines]		86 (80)									
25	[Horizontal lines]		100 (36)									
30	[Horizontal lines]		100 (94)									
35	[Horizontal lines]		100 (42)									
40	[Horizontal lines]		100 (28)									
					579.5							

COMPLETION DEPTH: 45.0'

DATE: 6-19-90

U=Unconfined P=Pocket Penetrometer
 Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-28

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 631.2								
				Very stiff to hard brown silty clay (CL), with limestone fragments (Residual Soil)	629.2	8						2.7 (P)
					2.0							
				Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group)	627.2	16						2.7 (P)
5			92 (60)		4.0							
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)								
10			94 (32)	-iron stained 9.2' to 10.6'	620.6							
				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	10.6							
15			92 (92)			11					129	81.2 (U)
						12					125	79.9 (U)
20			96 (88)									
						12					127	145 (U)
25			90 (80)									
						12					128	96.8 (U)
30			100 (100)									
						13					124	156 (U)
35			100 (100)									
40			92 (5)									
			100 (75)			11					131	94.1 (U)
					586.2							

COMPLETION DEPTH: 45.0'

DATE: 6-20-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane



LOG OF BORING NO. B-29

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOIS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 632.0								
				Very stiff to hard brown silty clay (CL), with limestone fragments (Residual Soil)	629.0	8						2.7 (P)
					3.0	17						2.7 (P)
5			92 (0)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -highly weathered 3.0' to 4.0'								
10			94 (32)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	623.0							
					9.0	12					125	78.2 (U)
15			92 (92)									
						11					130	82.8 (U)
20			96 (88)									
						11					129	91.5 (U)
25			90 (80)									
						8					132	89.0 (U)
30			100 (90)									
						12					129	82.9 (U)
35			100 (90)									
						13					126	117 (U)
40			100 (64)									
						12					127	91.3 (U)
					587.0							

COMPLETION DEPTH: 45.0'

DATE: 6-14-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-30

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 632.5								
				Very stiff to hard tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	630.0	16	47	24	23		111	2.7 (P)
					2.5	15						2.7 (P)
5			100/4.5	Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group)	628.0							
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	623.5							
10				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	9.0							
15			100/0.5									
25			100/0.25									
30												
					600.7							
					31.8							

COMPLETION DEPTH: 31.8'

DATE: 6-15-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-31

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 629.5								
				Very stiff brown and tan silty clay (CL), calcareous particles (Residual Soil)		16						2.7 (P)
					625.5	18						2.7 (P)
5			87 (65)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	4.0	16					120	35.3 (U)
10			94 (76)	-steep fracture at 9.7'	618.5	12					128	90.0 (U)
15			96 (84)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -steep fracture at 12.0'	11.0							
20			90 (82)			14					123	37.9 (U)
25			96 (90)			12					127	105 (U)
30			100 (50) 100 (93)			12					127	133 (U)
35			98 (96)			12					127	87.8 (U)
40			98 (48)									
			98 (40)									

COMPLETION DEPTH: 46.5'

DEPTH TO WATER: 27.6

DATE: 6-14-90

DATE: 7-6-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane



LOG OF BORING NO. B-31

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSP
				SURF. EL. 629.5								
50				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	583.0 46.5							
55												
60												
65												
70												
75												
80												
85												
COMPLETION DEPTH: 46.5' DEPTH TO WATER: 27.6						U=Unconfined P=Pocket Penetrometer						
DATE: 6-14-90 DATE: 7-6-90						Q=Unconsolidated- Undrained Triaxial T=Torvane						

LOG OF BORING NO. B-32

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./REQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 635.3								
				Very stiff to hard brown and tan silty clay (CL), with limestone fragments (Residual Soil)	632.8	12						2.7 (P)
				Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group)	2.5 630.7	13						2.7 (P)
5			100/ 10.75"	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	4.6 628.2							
10				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	7.1							
15				-tan, moderately weathered seam at 13.3'								
20				-bentonitic layer 15.5' to 15.8'								
25			100/ 0.4"									
30			100/ 0.25"		605.2 30.1							

COMPLETION DEPTH: 30.1'

DATE: 6-13-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated- T=Torvane
Undrained Triaxial

LOG OF BORING NO. B-33

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSP
				SURF. EL. 618.7								
				Very stiff to hard brown and light brown silty clay (CL), with calcareous particles (Residual Soil)	616.5	14						2.7 (P)
					2.2	20						2.7 (P)
				Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	614.5							
5			100/3.6		4.2	18						2.7 (P)
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	610.7							
10				-highly weathered 4.2' to 5.2'	8.0							
				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)								
15			100/0.4		603.5							
					15.2							

COMPLETION DEPTH: 15.2'

DATE: 6-16-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-34

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 614.2								
				Very stiff brown silty clay (CL), with limestone fragments (Residual Soil)	613.2	15						27 (P)
			100/8.75'	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	1.0							
5				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	609.4							
				-tan, moderately weathered layer 7.0' to 7.8'	4.8							
10				-shallow, iron stained fracture at 11.3'								
15			100/0.3'		598.4							
					15.8							
20												
25												
30												
35												
40												

COMPLETION DEPTH: 15.8'

DATE: 6-16-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-35

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 597.0								
				Hard brown (CH), with some limestone fragments (Residual Soil)		13	51	26	25			2.7 (P)
					593.0	18					109	10.7 (U)
5				Stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	4.0	17						2.7 (P)
			100 (50)		591.5							
			98 (0)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	5.5	13					125	89.9 (U)
10				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	87.5							
			98 (80)	-tan limestone layer with moderate fracture at 10.3'	9.5							
15				-shaley, iron stained layer at 16.6'								
20			92 (80)			12					127	137 (U)
25			96 (80)	-steep fracture at 24.9' to 25.2'		13					127	77.8 (U)
30			100 (100)		567.0	11					128	84.5 (U)
					30.0							

COMPLETION DEPTH: 30.0'

DEPTH TO WATER: 27.5

U=Unconfined P=Pocket Penetrometer

DATE: 6-28-90

DATE: 7-6-90

Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-36

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSP
				SURF. EL. 588.2								
				Very stiff dark brown and brown clay (CH), with some calcareous particles (Terrace Deposit)		16						2.7 (P)
						17						2.7 (P)
5						18						2.7 (P)
						19						2.7 (P)
				-light brown with some limestone fragments below 8.0'		21						2.6 (P)
10												
				-stiff to very stiff below 14.0'		24	52	22	30			1.8 (P)
15												
						26						2.4 (P)
20												
				-with sand below 24.0'								
25												
					562.2							
				Stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	26.0							
					561.2							
					27.0							
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	559.7							
30			100/ 3.9"		28.5							
				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)								
35												
40												
					544.7							
					43.5							

COMPLETION DEPTH: 43.5'

DEPTH TO WATER: 16.6

DATE: 6-19-90

DATE: 7-6-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-37

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH T _{9F}
				SURF. EL. 606.7								
				Very stiff brown clay (CH), with calcareous particles (Residual Soil)	605.2	31						27 (P)
					1.5							
			100/4.5'	Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	604.5	17						27 (P)
5					2.2							
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -highly weathered 2.2' to 3.0'	601.2							
10					5.5							
			100/0.7'	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)								
15												
20			100/0.5'									
					585.7							
					21.0							
25												
30												
35												
40												

COMPLETION DEPTH: 21.0'

DATE: 6-19-90

U=Unconfined P=Pocket Penetrometer
G=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-38

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 598.0								
5				Very stiff dark brown and brown clay (CH) with some limestone and shell fragments (Terrace Deposit)		16	58	26	32			2.7 (P)
				-light brown below 4.5'		16	54	24	30			2.7 (P)
						19						2.7 (P)
						18						2.7 (P)
						23						2.7 (P)
10				-with slickensided fissures 8.0' to 10.0'								
15				-hard at 15.0'								
						25	64	27	37		100	4.1 (U)
20					578.0							
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	20.0	21						2.7 (P)
		90 (90)			577.0							
				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	21.0	17					112	33.8 (U)
25		94 (86)										
		98 (98)				13					119	93.9 (U)
30												
		98 (90)										
						14					117	125 (U)
35												
				-bentonitic seam at 37.8'	560.0							
40					38.0							

COMPLETION DEPTH: 38.0'

DEPTH TO WATER: 31.2

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

DATE: 6-20-90

DATE: 7-6-90

LOG OF BORING NO. B-39

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 582.4								
				Very stiff dark brown and brown clay (CH), with some calcareous particles (Terrace Deposit)		19						27 (P)
						20						27 (P)
5				-light brown with iron staining and some fine gravel below 4.5'		19						27 (P)
						19						21 (P)
						21						21 (P)
10												
15				-stiff to very stiff below 15.0'		23						13 (P)
20						23						22 (P)
25						24						21 (P)
30				-with slickensided fissures below 30.0'		37						15 (P)
35					547.4							
			97 (37)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	35.0							
					545.4							
					37.0							
			98 (94)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)		13					121	105 (U)
40				-tan moderately weathered seams 37.0' to 39.0'								
						14					116	74.5 (U)

COMPLETION DEPTH: 54.0'

DEPTH TO WATER: 14.9

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

DATE: 6-27-90

DATE: 7-6-90

LOG OF BORING NO. B-39

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 582.4								
50			98 (98)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)								
			98 (98)									
55					528.4 54.0	13					121	54.5 (U)
60												
65												
70												
75												
80												
85												

COMPLETION DEPTH: 54.0'

DEPTH TO WATER: 14.9

DATE: 6-27-90

DATE: 7-6-90

U=Unconfined P=Pocket Penetrometer
 G=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-40

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 582.2								
				Stiff dark brown and brown clay (CH), with some calcareous particles (Terrace Deposit) -very stiff below 2.0'		28						1.9 (P)
						27						2.1 (P)
5						46	55	19	36		85	1.1 (U)
						21						1.5 (P)
				-light brown below 8.5'		21						2.0 (P)
10												
						24						1.8 (P)
15												
				-with some shell fragments below 17.6'		25						1.3 (P)
20												
						26	58	20	38		100	1.2 (U)
25												
				-with numerous calcareous particles below 27.6'		28						1.6 (P)
30												
					548.7	33						1.2 (P)
					33.5							
				Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	547.2	22						2.7 (P)
35			100/10"		35.0							
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	544.2							
				-highly weathered 35.0' to 36.5'	38.0							
40			100/0.6"									
				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)								

COMPLETION DEPTH: 53.0' DEPTH TO WATER: 7.0

DATE: 6-18-90

DATE: 6-22-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-40

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 582.2								
50				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	529.2							
55					53.0							
60												
65												
70												
75												
80												
85												

COMPLETION DEPTH: 53.0' DEPTH TO WATER: 7.0

DATE: 6-18-90 DATE: 6-22-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane



LOG OF BORING NO. B-41

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF	
				SURF. EL. 589.4									
5				Very stiff to hard dark brown and brown clay (CH), with some shell fragments and calcareous particles (Terrace Deposit)		18						2.7 (P)	
						17	53	21	32				2.7 (P)
						18							2.7 (P)
						19							2.7 (P)
10				Stiff light brown silty clay (CL), with some fine gravel and shell fragments (Terrace Deposit) -tan with some limestone fragments below 14.0'	580.4	21						2.7 (P)	
					9.0								
15						26							1.3 (P)
						23	46	23	23		102		1.1 (U)
25				Stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	565.4	28						1.9 (P)	
					24.0								
30			100/ 3.75"	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -highly weathered 29.5' to 31.5'	559.9	24						2.7 (P)	
					29.5								
35				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	555.7								
					33.7								
40													

COMPLETION DEPTH: 48.7'

DEPTH TO WATER: 15.7

DATE: 6-18-90

DATE: 7-6-90

U=Unconfined P=Pocket Penetrometer
 Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-41

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 589.4								
50			100/ 0.5'	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	540.7 48.7							
55												
60												
65												
70												
75												
80												
85												

COMPLETION DEPTH: 48.7'

DEPTH TO WATER: 15.7

DATE: 6-18-90

DATE: 7-6-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-42

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF	
				SURF. EL. 584.8									
5				Very stiff dark brown and brown clay (CH), with some calcareous particles and trace of sand (Terrace Deposit)		18						2.7 (P)	
							19						2.7 (P)
							17						2.7 (P)
							19						2.7 (P)
							21						2.7 (P)
15				-stiff to very stiff, light brown below 15.0'									
							24						1.5 (P)
							25						1.8 (P)
							26						2.4 (P)
30				Tan limestone, moderately weathered, low to moderately hardness, thin bedded, with some clay seams. (Austin Group) -highly weathered 32.0' to 33.0' -moderate to steep, iron stained fracture at 32.0' -occasional gray limestone seams below 36.0'									
						552.8							2.7 (P)
						32.0							
			100 (0) 88 (56)										
						546.8							111 28.3 (U)
40													
			94 (78)			38.0							116 71.3 (U)
			94 (78)									116 49.8 (U)	

COMPLETION DEPTH: 53.0'

DEPTH TO WATER: 14.0

U=Unconfined P=Pocket Penetrometer

DATE: 6-27-90

DATE: 7-6-90

Q=Unconsolidated- Undrained Triaxial T=Torvane

LOG OF BORING NO. B-42

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 584.8								
50			88 (76)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -shallow, iron stained fracture at 42.0'	531.8 53.0	13					116	82.7 (U)
55												
60												
65												
70												
75												
80												
85												
COMPLETION DEPTH: 53.0' DEPTH TO WATER: 14.0						U=Unconfined P=Pocket Penetrometer						
DATE: 6-27-90 DATE: 7-6-90						Q=Unconsolidated-Undrained Triaxial T=Torvane						

LOG OF BORING NO. B-43

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH T _{SP}
				SURF. EL. 583.3								
5				Very stiff dark brown and brown clay (CH), with some calcareous particles (Terrace Deposit) -stiff, light brown below 4.0'		22						27 (P)
						25						20 (P)
						23						19 (P)
						21						21 (P)
						23						15 (P)
10												
15												
						26						1.2 (P)
20				-firm below 20.0'								
						26						0.9 (P)
25					558.3							
				Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group)	25.0	19						
			100 (75)		555.8							
			98 (74)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	27.5	16					117	73.3 (U)
30				-moderate fracture at 29.5' -gray limestone layer 30.0' to 30.7' -moderate fracture at 31.0'	552.3							
			98 (68)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	31.0							
				-tan limestone layer 34.0' to 34.5' -tan limestone layer 36.6' to 36.9'								
35						13					126	114 (U)
40			96 (92)									
						15					117	53.6 (U)
						12					121	92.4 (U)

COMPLETION DEPTH: 49.0'

DEPTH TO WATER: 7.8

DATE: 6-21-90

DATE: 7-6-90

U=Unconfined P=Pocket Penetrometer
O=Unconsolidated- T=Torvane
Undrained Triaxial

LOG OF BORING NO. B-43

Collin County Detention Facility
McKinney, Texas

TYPE: Auger and Rotary Wash

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 583.3								
	[Symbol]		96 (92)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	534.3 49.0	15					117	46.9 (U)
50												
55												
60												
65												
70												
75												
80												
85												

COMPLETION DEPTH: 49.0'

DEPTH TO WATER: 7.8

DATE: 6-21-90

DATE: 7-6-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated- T=Torvane
Undrained Triaxial

LOG OF BORING NO. B-44

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 584.5								
				Very stiff dark brown clay (CH), with calcareous particles (Residual Soil)	583.0	21						2.5 (P)
				Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	1.5	19						2.7 (P)
5				Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group)	579.0	23						2.7 (P)
			100/ 2.9"	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	5.5 577.0	16						2.7 (P)
10				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	7.5							
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	571.5							
15				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	13.0							
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	567.6							
20				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	16.9							
				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	560.0							
25				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	24.5							
			100/ 0.6"									
30												
35												
40			100/ 0.75"		544.5 40.0							

COMPLETION DEPTH: 40.0'

DEPTH TO WATER: 10.3

U=Unconfined P=Pocket Penetrometer

DATE: 6-16-90

DATE: 7-6-90

O=Unconsolidated- Undrained Triaxial
T=Torvane

LOG OF BORING NO. B-45

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 586.8								
5				Stiff to very stiff dark brown clay (CH), with calcareous particles (Terrace Deposit)	580.8	22						2.7 (P)
					6.0	25	59	24	35		97	1.9 (U)
						19						2.7 (P)
				Stiff light brown silty clay (CL), with some limestone fragments, iron staining and calcareous particles (Terrace Deposit)		20						2.2 (P)
10						22						1.8 (P)
				-with some shell fragments below 14.0'								
15						23						1.2 (P)
20						24	43	20	23			1.2 (P)
					563.8							
25				Stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	23.0	22					103	1.9 (U)
					558.8							
30				Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group)	28.0							
			100/2.5"		556.8	19						2.7 (P)
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	30.0							
					554.3							
35				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	32.5							
			100/0.6"									
40												
			100/0.25"									

COMPLETION DEPTH: 47.5'

DEPTH TO WATER: 7.0

DATE: 6-17-90

DATE: 6-22-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated Undrained Triaxial T=Torvane

LOG OF BORING NO. B-45

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH T _{9F}
				SURF. EL. 586.8								
				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	539.3 47.5							
50												
55												
60												
65												
70												
75												
80												
85												

COMPLETION DEPTH: 47.5' DEPTH TO WATER: 7.0

DATE: 6-17-90

DATE: 6-22-90

U=Unconfined P=Pocket Penetrometer
Q=Unconsolidated-Undrained Triaxial T=Torvane

LOG OF BORING NO. B-46

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION: See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV./DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL. 589.8								
				Very stiff brown clay (CH), with calcareous nodules (Residual Soil)	587.8	16	50	23	27			2.7 (P)
				Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	2.0	19						2.7 (P)
5			100 (0)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	585.8							
			94 (70)	-gray limestone seams at 10.5' and 11.6'	4.0							
10						14					123	44.4 (U)
			98 (94)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	577.8							
				-moderate, iron stained fracture at 14.5'	12.0							
15						14					121	79.9 (U)
			98 (92)	-steep, iron stained fracture at 20.8'								
20						13					125	95.6 (U)
			96 (96)									
25						13					125	80.8 (U)
			100 (100)		559.8							
30					30.0	14					123	82.1 (U)
35												
40												

COMPLETION DEPTH: 30.0'

DATE: 6-21-90

U=Unconfined P=Pocket Penetrometer
G=Unconsolidated- T=Torvane
Undrained Triaxial

LOG OF BORING NO. P- 1

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV. / DEPTH, FT	WATER CONTENT, %	LIQUID LIMIT	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL 587.8								
				Very stiff to hard tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	585.1	11	43	22	21			2.7 (P)
					2.7	14						2.7 (P)
5			100/ 3"	Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group) -moderately weathered below 4.5'	582.8							
					5.0							
10												

COMPLETION DEPTH: 5.0

DATE: 6-22-90

U=Unconfined P=Pocket Penetrometer

DEPTH TO WATER: Dry on Completion

DATE: 6-22-90

Q=Unconsolidated- T=Torvane
Undrained Triaxial

LOG OF BORING NO. P- 2

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV. / DEPTH, FT	WATER CONTENT, %	LIQUID LIMIT	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL 623.2								
				Very stiff dark brown and brown clay (CH), with limestone fragments (Residual Soil)	620.2	17						2.7 (P)
					3.0	16						2.7 (P)
5			100/ 9.75"	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -highly weathered 3.0' to 4.0'	618.2							
					5.0							
10												

COMPLETION DEPTH: 5.0

DATE: 6-22-90

U=Unconfined P=Pocket Penetrometer

DEPTH TO WATER: Dry on Completion

DATE: 6-22-90

Q=Unconsolidated- T=Torvane
Undrained Triaxial

LOG OF BORING NO. P- 3

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV. / DEPTH, FT	WATER CONTENT, %	LIQUID LIMIT	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL 638.0								
	▨			Very stiff to hard light brown silty clay (CL), with trace of limestone fragments (Residual Soil)	636.7	10	42	24	18			2.7 (P)
					1.3							
					636.0	14						2.7 (P)
5	▨		100/ 1.25"	Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	2.0							
					633.0							
				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -highly weathered 2.0' to 2.8'	5.0							
10												

COMPLETION DEPTH: 5.0

DATE: 6-22-90

U=Unconfined P=Pocket Penetrometer

DEPTH TO WATER: Dry on Completion

DATE: 6-22-90

Q=Unconsolidated- T=Torvane
Undrained Triaxial

LOG OF BORING NO. P- 4

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV. / DEPTH, FT	WATER CONTENT, %	LIQUID LIMIT	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL 619.0								
	▨			Very stiff to hard tan and light brown silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	616.0	14	48	27	21			2.7 (P)
					3.0							
					614.0	18						2.7 (P)
5	▨		100/ 3.75"	Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group)	5.0							
10												

COMPLETION DEPTH: 5.0

DATE: 6-22-90

U=Unconfined P=Pocket Penetrometer

DEPTH TO WATER: Dry on Completion

DATE: 6-22-90

Q=Unconsolidated- T=Torvane
Undrained Triaxial



LOG OF BORING NO. P- 5

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV. / DEPTH, FT	WATER CONTENT, %	LIQUID LIMIT	PLASTIC LIMIT, %	PLASTICITY INDEX(PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL 622.5								
	[Hatched]			Stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	619.5	15						2.7 (P)
					20	20						2.7 (P)
5	[Diagonal]		100/11.5	Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group)	3.0 617.5 5.0							
10												

COMPLETION DEPTH: 5.0

DATE: 6-22-90

U=Unconfined P=Pocket Penetrometer

DEPTH TO WATER: Dry on Completion

DATE: 6-22-90

Q=Unconsolidated- T=Torvane
Undrained Triaxial

LOG OF BORING NO. P- 6

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV. / DEPTH, FT	WATER CONTENT, %	LIQUID LIMIT	PLASTIC LIMIT, %	PLASTICITY INDEX(PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL 621.8								
	[Hatched]			Very stiff to hard brown clay (CH), with limestone fragments (Residual Soil)	620.3	12						2.7 (P)
					1.5							
5	[Diagonal]		100/11.75	Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	619.8 2.0 616.8 5.0	16						2.7 (P)
10				Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group) -moderately weathered below 4.0'								

COMPLETION DEPTH: 5.0

DATE: 6-22-90

U=Unconfined P=Pocket Penetrometer

DEPTH TO WATER: Dry on Completion

DATE: 6-22-90

Q=Unconsolidated- T=Torvane
Undrained Triaxial

LOG OF BORING NO. P-7

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV. / DEPTH, FT	WATER CONTENT, %	LIQUID LIMIT	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
5			100/-10"	Very stiff to hard brown silty clay (CL), with limestone fragments (Residual Soil)	627.0	11						2.7 (P)
				Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	626.5	17						2.7 (P)
					623.5							
10				Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group) -moderately weathered below 3.7'	5.0							
COMPLETION DEPTH: 5.0					DATE: 6-22-90		U=Unconfined P=Pocket Penetrometer O=Unconsolidated- T=Torvane Undrained Triaxial					
DEPTH TO WATER: Dry on Completion					DATE: 6-22-90							

LOG OF BORING NO. P-8

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV. / DEPTH, FT	WATER CONTENT, %	LIQUID LIMIT	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
5			100/11.75"	Very stiff light brown clay (CH), with limestone fragments (Residual Soil)	640.8							
				Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	640.3							
					637.3							
10				Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group)	5.0							
COMPLETION DEPTH: 5.0					DATE: 6-22-90		U=Unconfined P=Pocket Penetrometer O=Unconsolidated- T=Torvane Undrained Triaxial					
DEPTH TO WATER: Dry on Completion					DATE: 6-22-90							

LOG OF BORING NO. P-9

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV. / DEPTH, FT	WATER CONTENT, %	LIQUID LIMIT	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL 641.2								
			100/8.5'	Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	640.5 0.7							
5				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -highly weathered 0.7' to 2.3'	636.2 5.0							
10												

COMPLETION DEPTH: 5.0

DATE: 6-22-90

U=Unconfined P=Pocket Penetrometer

DEPTH TO WATER: Dry on Completion

DATE: 6-22-90

Q=Unconsolidated- T=Torvane
Undrained Triaxial

LOG OF BORING NO. P-10

Collin County Detention Facility
McKinney, Texas

TYPE: Auger

LOCATION See Plate 2

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYER ELEV. / DEPTH, FT	WATER CONTENT, %	LIQUID LIMIT	PLASTIC LIMIT, %	PLASTICITY INDEX (PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				SURF. EL 646.7								
			100/5.9'	Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	645.2 1.5							
5				Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -highly weathered 1.5' to 3.3'	641.7 5.0							
10												

COMPLETION DEPTH: 5.0

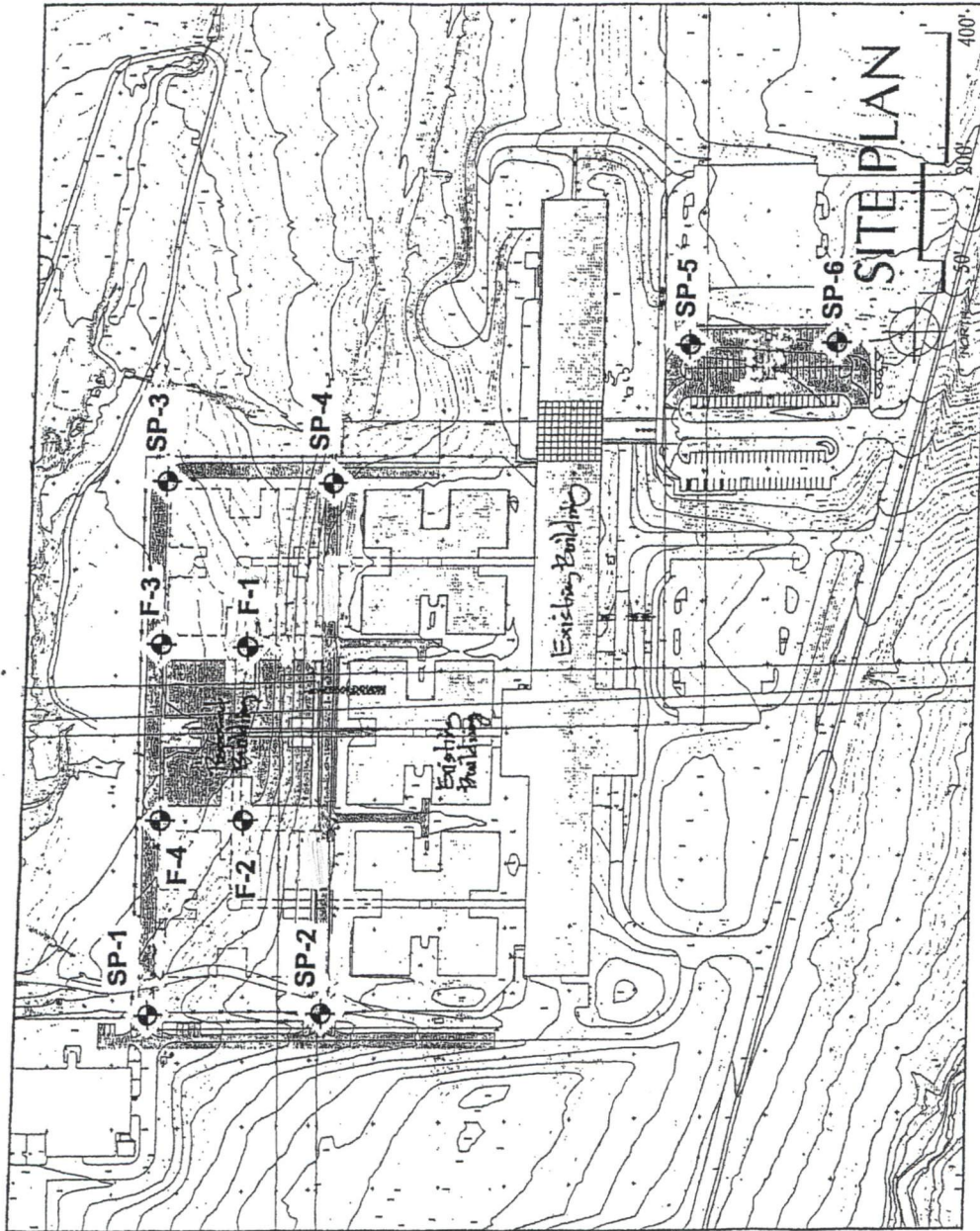
DATE: 6-22-90

U=Unconfined P=Pocket Penetrometer

DEPTH TO WATER: Dry on Completion

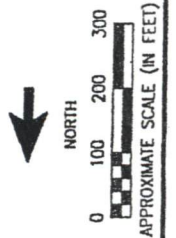
DATE: 6-22-90

Q=Unconsolidated- T=Torvane
Undrained Triaxial



LEGEND

- Approximate Boring Location



TERRA-MAR U.S. LABS
 11050 Ables Lane
 Dallas, TX 75229
 (972) 488-8800

Proposed Adult Detention Center Addition
 Collin County, Texas

Drawn by: AKH
 Date: 07JUN04
 Revised: --

PLAN OF BORINGS

Scale: 1 inch = 300 feet
 Project No. DE04-062 (71789)

FIGURE

1

LOG OF BORING F-1

Project: **Proposed Adult Detention Center - McKinney, Texas**

Project No.: **DE04-062**

Date: **06/16/2004**

Elev.:

Location: **See Figure 1**











Depth to water at completion of boring: **7'**

Depth to water when checked: **During Drilling**

was: **16'**

Depth to caving when checked: **N/A**

was: **N/A**

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %
0		FILL - Hard gray <u>calcareous CLAY</u> w/ limestone layers & rock fragments (CH)	17						4.5+		
		Hard brown <u>CLAY</u> (CH)	24	62	24	38		98.4	4.25		
		Hard light brown <u>CLAY</u> (CH)	20						4.5+		
		Very stiff to hard tan <u>CLAY</u> w/ trace sand (CH)	20						4.25		
		-seepage @ 16'	21	50	18	32		107.0	3.25		
			22	49	20	29		106.1	4.5		
		Hard brown, tan & gray <u>CLAY</u> w/ gravel, calcareous nodules & iron nodules (CH)	23						4.5+		
			26						4.5		
			28	66	26	40		98.0	4.25		
		Gray <u>LIMESTONE</u>									

Notes: **Completion Depth: 60.0'**

FIGURE 2

LOG OF BORING F-1

Project: **Proposed Adult Detention Center - McKinney, Texas**

Project No.: **DE04-062**

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">50/0.25"</div> <div style="margin-bottom: 10px;">50/0.50" 50/0.00"</div> <div style="margin-bottom: 10px;">50/0.50" 50/0.50"</div> <div style="margin-bottom: 10px;">50/0.25" 50/0.25"</div> <div style="margin-bottom: 10px;">50/0.75" 50/0.25"</div> <div style="margin-bottom: 10px;">50/0.50" 50/0.25"</div> </div>		<p>Gray <u>L</u>IMESTONE</p>									
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">40</div> <div style="margin-bottom: 10px;">45</div> <div style="margin-bottom: 10px;">50</div> <div style="margin-bottom: 10px;">55</div> <div style="margin-bottom: 10px;">60</div> <div style="margin-bottom: 10px;">65</div> <div style="margin-bottom: 10px;">70</div> <div style="margin-bottom: 10px;">75</div> </div>											

Notes: **Completion Depth: 60.0'**

FIGURE 3

LOG OF BORING F-2

Project: **Proposed Adult Detention Center - McKinney, Texas**

Project No.: **DE04-062**

Date: **06/11/2004** Elev.: _____

Location: **See Figure 1**

Depth to water at completion of boring: **13.5**

Depth to water when checked: **During Drilling**

was: **22'**

Depth to caving when checked: **N/A**

was: **N/A**

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %
0	[Symbol]	FILL - Very stiff brown <u>CLAY</u> w/ limestone fragments (CH)	24						3.5		
	[Symbol]	Very stiff brown to tan <u>CLAY</u> w/ trace sand (CH)	22						4.0		
-5	[Symbol]	Soft to hard tan <u>CLAY</u> (CH)	19	47	20	27		110.0	4.5+		
-10	[Symbol]		22						2.25		
-15	[Symbol]		21	55	20	35		107.8	4.5+		
-20	[Symbol]		23						3.0		
-25	[Symbol]	- seepage @ 22'	29	50	22	28		94.8	0.25		
-30	[Symbol]	Tan weathered <u>LIMESTONE</u>									
-31	50/0.13"										
-32	50/0.13"										
-33	50/1.75"	Gray <u>LIMESTONE</u>									
-34	50/0.50"										
-35	50/3.00"	- w/ weathered seams from 34 to 36'									
-36	50/1.50"										

Notes: **Completion Depth: 55.0'**

FIGURE 4

LOG OF BORING F-2

Project: Proposed Adult Detention Center - McKinney, Texas

Project No.: DE04-062

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">40</div> <div style="margin-bottom: 10px;">45</div> <div style="margin-bottom: 10px;">50</div> <div style="margin-bottom: 10px;">55</div> <div style="margin-bottom: 10px;">60</div> <div style="margin-bottom: 10px;">65</div> <div style="margin-bottom: 10px;">70</div> <div style="margin-bottom: 10px;">75</div> </div>		<p>Gray LIMESTONE</p>									

Notes: Completion Depth: 55.0'

FIGURE 5

LOG OF BORING F-3

Project: **Proposed Adult Detention Center - McKinney, Texas**

Project No.: **DE04-062**

Date: **06/01/2004** Elev.: _____

Location: **See Figure 1**

Depth to water at completion of boring: **11'**

Depth to water when checked: **During Drilling**

was: **12'**

Depth to caving when checked: **At Completion**

was: **55'**

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %	
0		Medium stiff to very stiff brown & gray <u>CLAY</u> (CH)							1.0			
5			Hard tan & gray <u>CLAY</u> w/ trace calcareous nodules (CH)									
				24	56	21	35		100.6	2.5		
				19					107.7	4.5		
				19	50	18	32		109.6	4.25		
			19					109.0	4.5			
10												
		Very stiff tan <u>CLAY</u> w/ trace calcareous nodules (CH) - seepage @ 12'										
			23	51	18	33		105.9	3.5			
15												
			22					107.7	3.5			
20												
		Very stiff to hard brown and gray <u>CLAY</u> w/ calcareous nodules (CH)										
			24					105.2	4.5+			
25												
			32					92.0	4.0			
30												
35		Tan <u>weathered LIMESTONE</u>										

Notes: **Completion Depth: 57.0'**

FIGURE 6

LOG OF BORING F-3

Project: Proposed Adult Detention Center - McKinney, Texas

Project No.: DE04-062

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">40</div> <div style="margin-bottom: 10px;">45</div> <div style="margin-bottom: 10px;">50</div> <div style="margin-bottom: 10px;">55</div> <div style="margin-bottom: 10px;">60</div> <div style="margin-bottom: 10px;">65</div> <div style="margin-bottom: 10px;">70</div> <div style="margin-bottom: 10px;">75</div> </div>		<p>Gray <u>LIMESTONE</u></p> <p>- w/ weathered seams from 42 to 44'</p>									

Notes: Completion Depth: 57.0'

FIGURE 7

LOG OF BORING F-4

Project: **Proposed Adult Detention Center - McKinney, Texas**

Project No.: **DE04-062**

Date: **05/27/2004** Elev.: _____

Location: **See Figure 1**

Depth to water at completion of boring: **12'**

Depth to water when checked: **During Drilling**

was: **17'**

Depth to caving when checked: **At Completion**

was: **50'**

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %	
0		Hard brown <u>CLAY</u> (CH)	18						4.5+			
			18	53	20	33		102.8	4.5+			
			18						4.5+			
			18						4.5+			
			19	53	20	33		104.5	4.0			
			24						3.0			
			-seepage @ 17'									
			25						2.5			
			29	72	23	49		95.4	3.25			
			27						3.0			
			Tan weathered <u>LIMESTONE</u>									

Notes: **Completion Depth: 60.0'**

FIGURE 8

LOG OF BORING F-4

Project: **Proposed Adult Detention Center - McKinney, Texas**

Project No.: **DE04-062**

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">40</div> <div style="margin-bottom: 10px;">45</div> <div style="margin-bottom: 10px;">50</div> <div style="margin-bottom: 10px;">55</div> <div style="margin-bottom: 10px;">60</div> <div style="margin-bottom: 10px;">65</div> <div style="margin-bottom: 10px;">70</div> <div style="margin-bottom: 10px;">75</div> </div>		<p>Gray <u>L</u>IMESTONE</p>									

Notes: **Completion Depth: 60.0'**

FIGURE 9

LOG OF BORING SP-1

Project: **Proposed Adult Detention Center - McKinney, Texas**

Project No.: **DE04-062**

Date: **05/27/2004** Elev.:

Location: **See Figure 1**


Depth to water at completion of boring: **Dry**

Depth to water when checked: **During Drilling**

was: **Dry**

Depth to caving when checked: **N/A**

was: **N/A**

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	<200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %	
0		Very stiff brown <u>CLAY</u> (CH)							3.5			
4.0		Very stiff tan <u>calcareous CLAY</u> (CH)								4.0		
5.0												
10												
15												
20												
25												
30												
35												

Notes: **Completion Depth: 5.0'**

FIGURE 10

LOG OF BORING SP-2

Project: **Proposed Adult Detention Center - McKinney, Texas**

Project No.: **DE04-062**

Date: **05/27/2004** Elev.: _____

Location: **See Figure 1**


Depth to water at completion of boring: **Dry**

Depth to water when checked: **During Drilling**

was: **Dry**

Depth to caving when checked: **N/A**

was: **N/A**

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %
0		FILL - Very stiff tan, gray & brown <u>CLAY</u> w/ limestone fragments, organics & iron stains (CH)							3.5		
5		Tan severely weathered <u>LIMESTONE</u>									
10											
15											
20											
25											
30											
35											

Notes: **Completion Depth: 5.0'**

LOG OF BORING SP-3

Project: **Proposed Adult Detention Center - McKinney, Texas**

Project No.: **DE04-062**

Date: **05/27/2004** Elev.:

Location: **See Figure 1**

Depth to water at completion of boring: **Dry**

Depth to water when checked: **During Drilling**

was: **Dry**

Depth to caving when checked: **N/A**

was: **N/A**

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %
<div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>0</p> <p>5</p> <p>10</p> <p>15</p> <p>20</p> <p>25</p> <p>30</p> <p>35</p> </div> <div style="flex: 1;"> </div> </div>	<p>Very stiff tan & gray calcareous CLAY w/ limestone fragments (CH)</p> <p>Tan weathered LIMESTONE</p>								2.75		

Notes: **Completion Depth: 5.0'**

FIGURE 12

LOG OF BORING SP-4

Project: **Proposed Adult Detention Center - McKinney, Texas**

Project No.: **DE04-062**

Date: **05/27/2004** Elev.:

Location: **See Figure 1**


Depth to water at completion of boring: **Dry**

Depth to water when checked: **During Drilling**

was: **Dry**

Depth to caving when checked: **N/A**

was: **N/A**

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %
0		FILL - Brown <u>CLAY</u> w/ limestone fragments & organics (CH)									
5		Very stiff brown to tan <u>CLAY</u> w/ tan limestone layers & iron stains (CH)							2.75		
5		Tan <u>severely weathered LIMESTONE</u>									
10											
15											
20											
25											
30											
35											

Notes: **Completion Depth: 5.0'**

FIGURE 13

LOG OF BORING SP-5

Project: **Proposed Adult Detention Center - McKinney, Texas**

Project No.: **DE04-062**

Date: **05/27/2004** Elev.:

Location: **See Figure 1**


Depth to water at completion of boring: **Dry**

Depth to water when checked: **During Drilling**

was: **Dry**

Depth to caving when checked: **N/A**

was: **N/A**

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	-200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %	
0		Hard brown <u>CLAY</u> w/ sand & calcareous nodules (CH)							4.5+			
		Soft brown <u>CLAY</u> w/ limestone fragments (CH)								0.25		
5		Tan <u>weathered LIMESTONE</u>										
10												
15												
20												
25												
30												
35												

Notes: **Completion Depth: 5.0'**

LOG OF BORING SP-6

Project: **Proposed Adult Detention Center - McKinney, Texas**

Project No.: **DE04-062**

Date: **05/27/2004** Elev.:

Location: **See Figure 1**

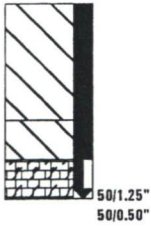
Depth to water at completion of boring: **Dry**

Depth to water when checked: **During Drilling**

was: **Dry**

Depth to caving when checked: **N/A**

was: **N/A**

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %
0		Hard brown <u>CLAY</u> (CH)							4.5+		
5		Hard tan <u>calcareous CLAY</u> (CH)							4.5+		
5		Tan <u>weathered LIMESTONE</u>									
10											
15											
20											
25											
30											
35											

Notes: **Completion Depth: 5.0'**

FIGURE 15