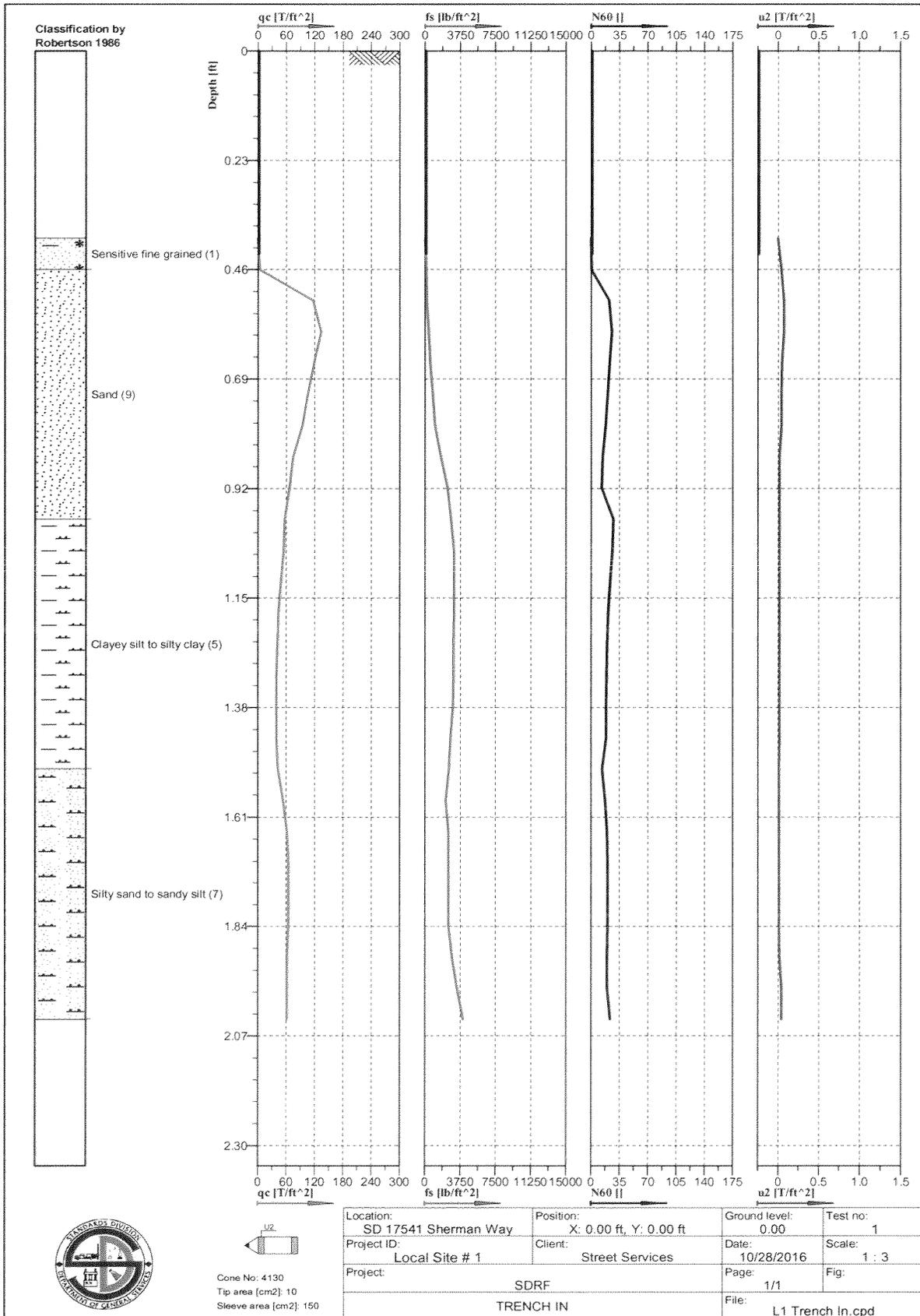
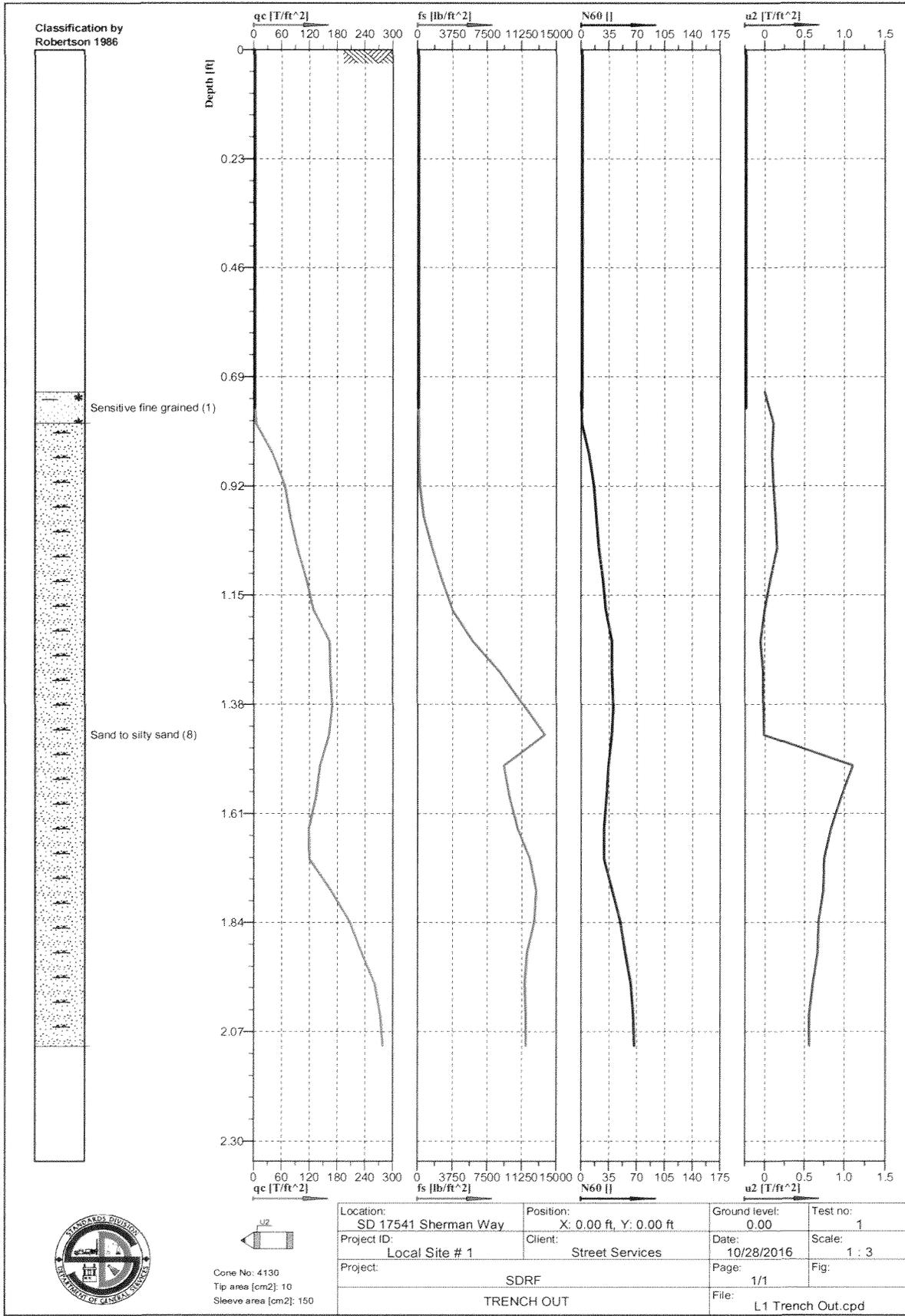


Appendix C
Piezocone Penetration Testing Data

Lab No.: 17-741-031



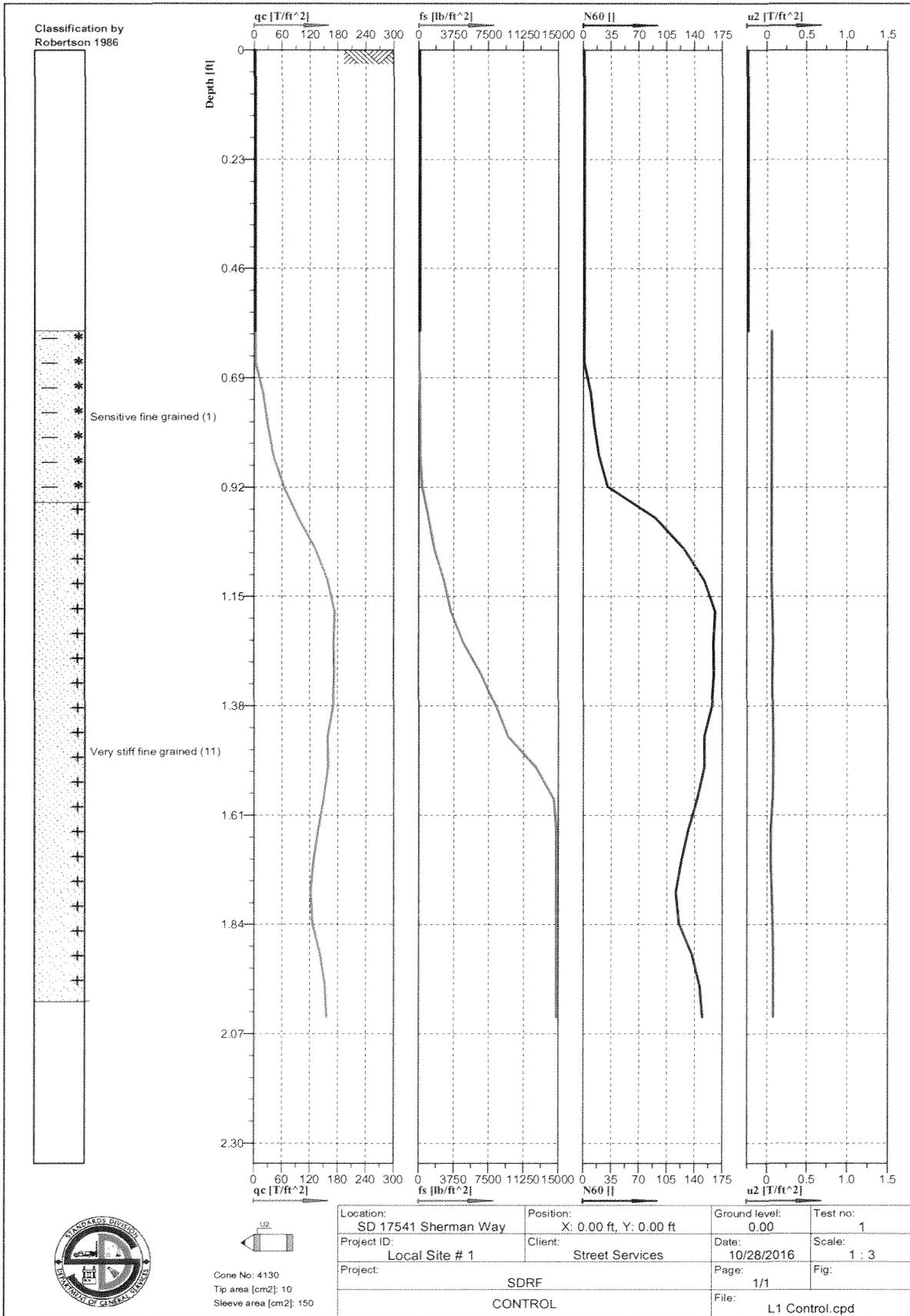
Lab No.: 17-741-032



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: SD 17541 Sherman Way	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 1	Client: Street Services	Date: 10/28/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1
TRENCH OUT		File: L1 Trench Out.cpd	

Lab No.: 17-741-033



Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

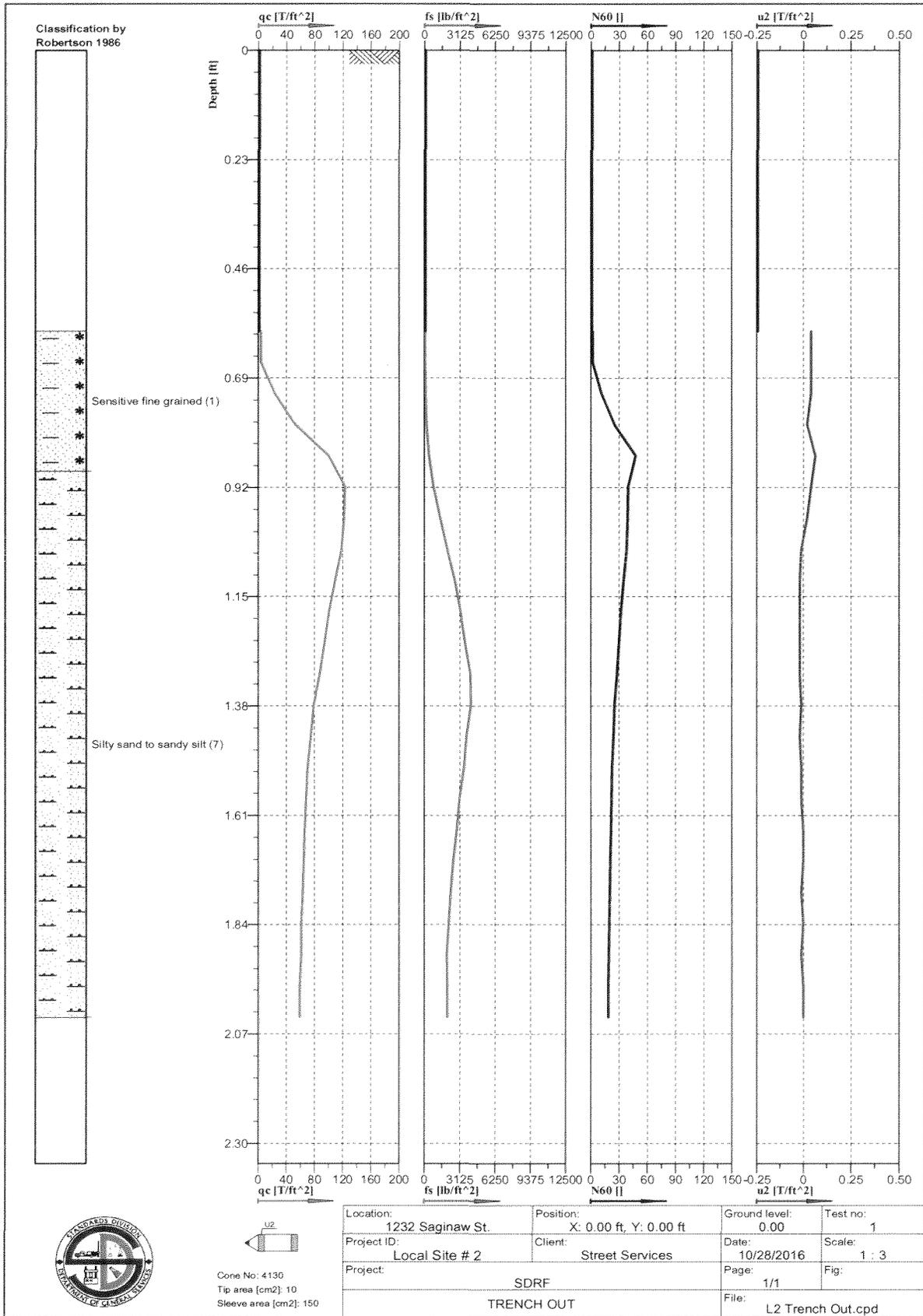
Asphalt thickness = 6.75”.

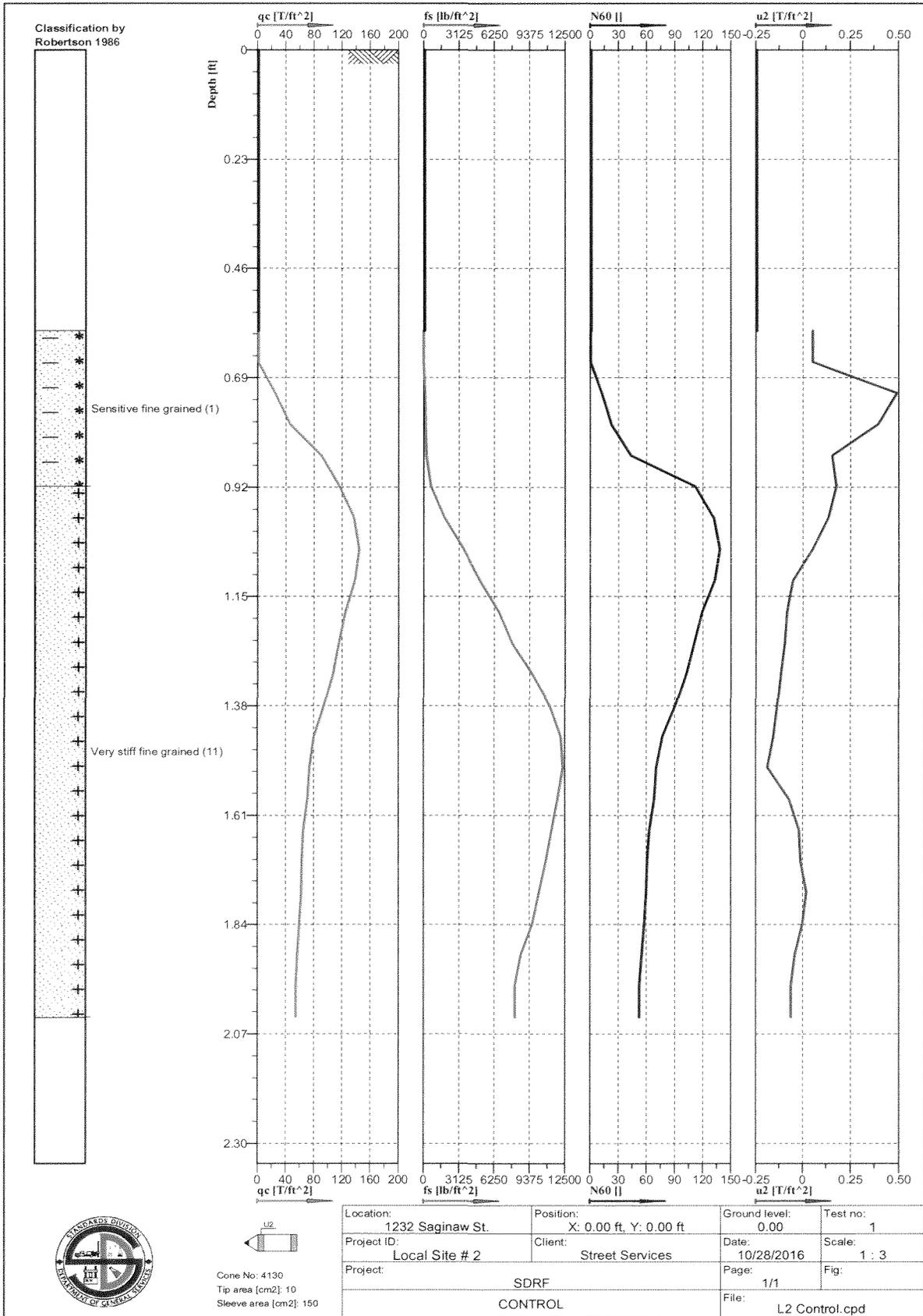


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 1232 Saginaw St.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 2	Client: Street Services	Date: 10/28/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
TRENCH IN		File: L2 Trench In.cpd	

Lab No.: 17-741-035





Lab No.: 17-741-037

Trench backfill consists of cemented sand. No CPTU performed in this trench.

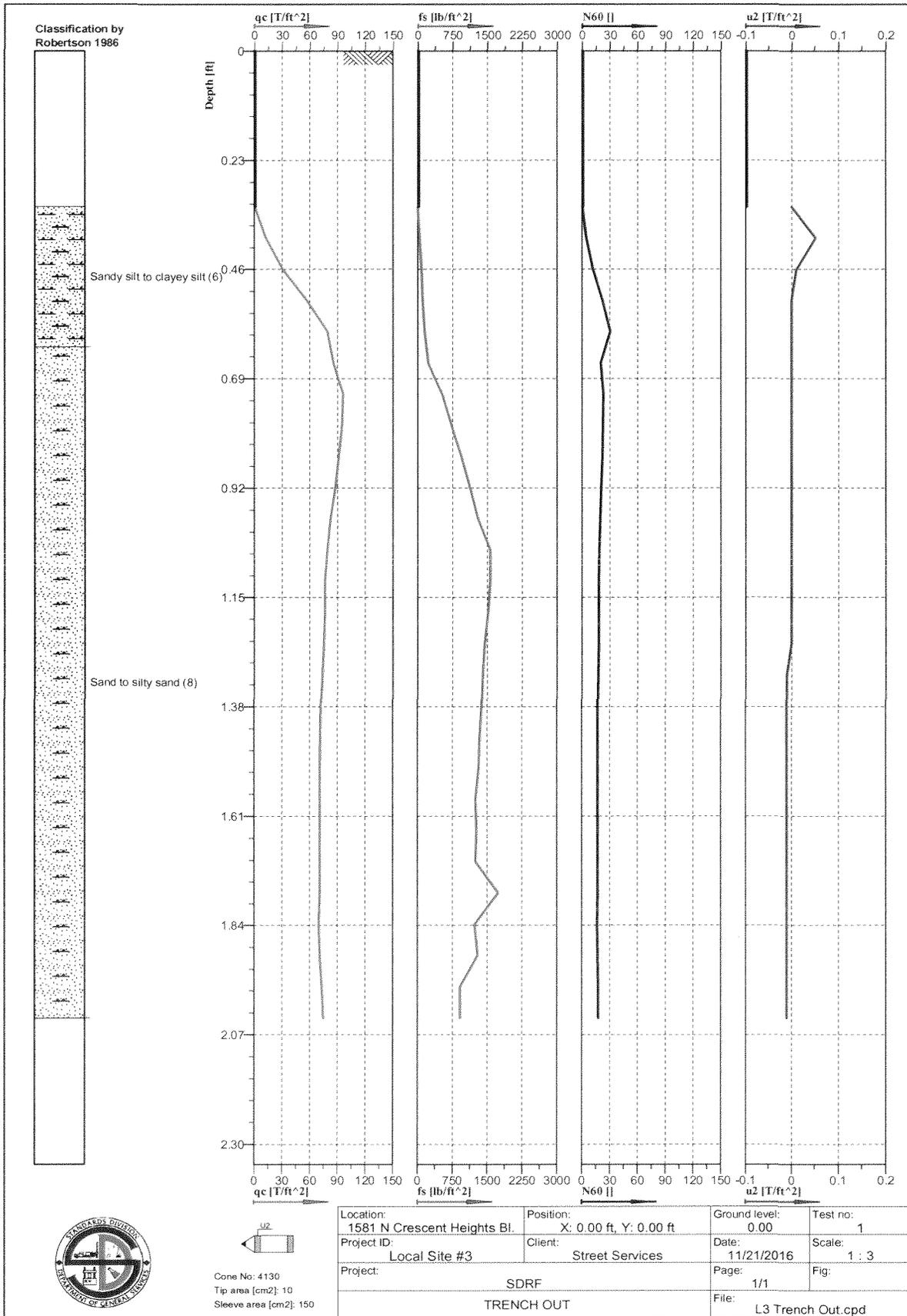
Asphalt thickness = 3.9”.



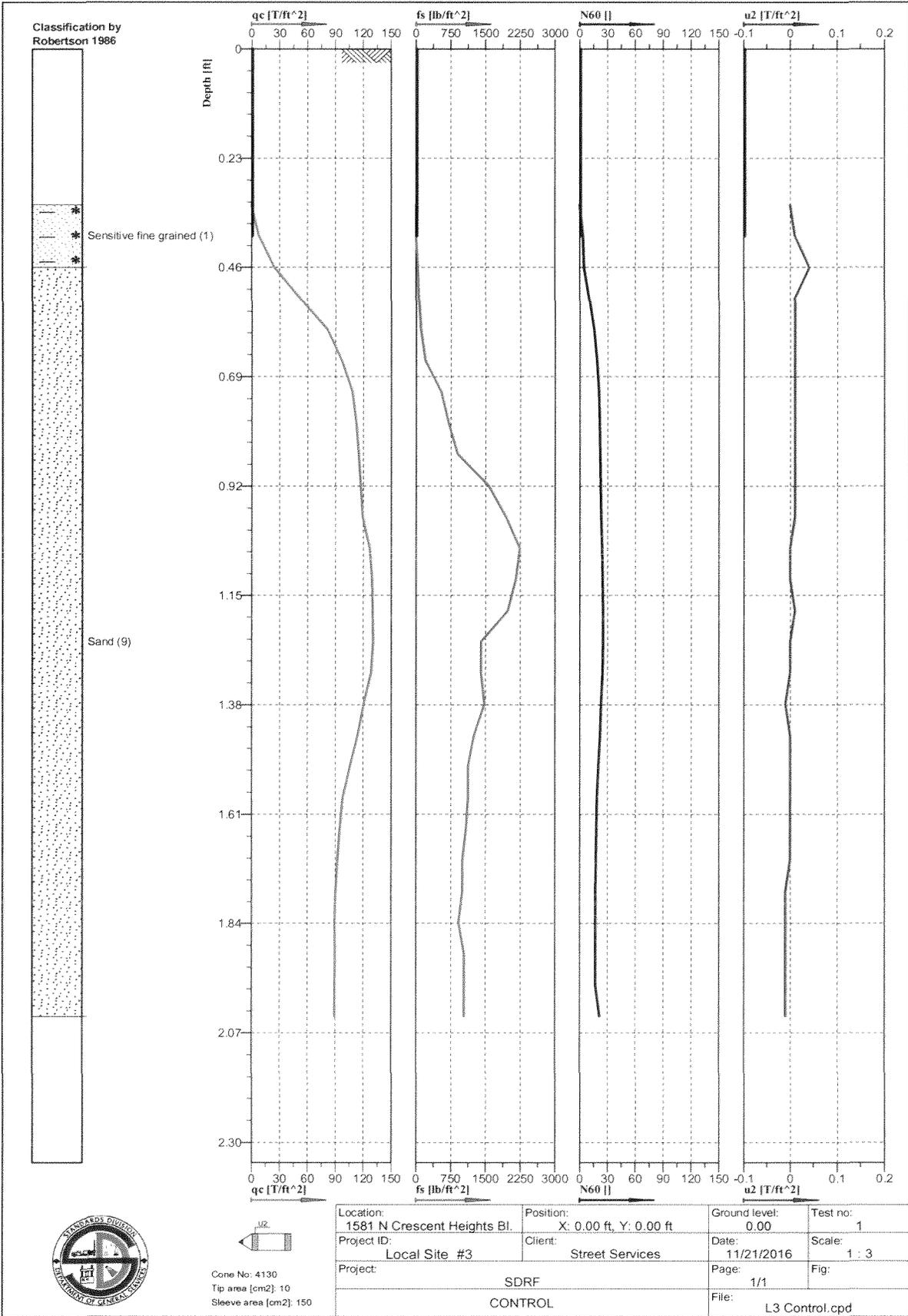
Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

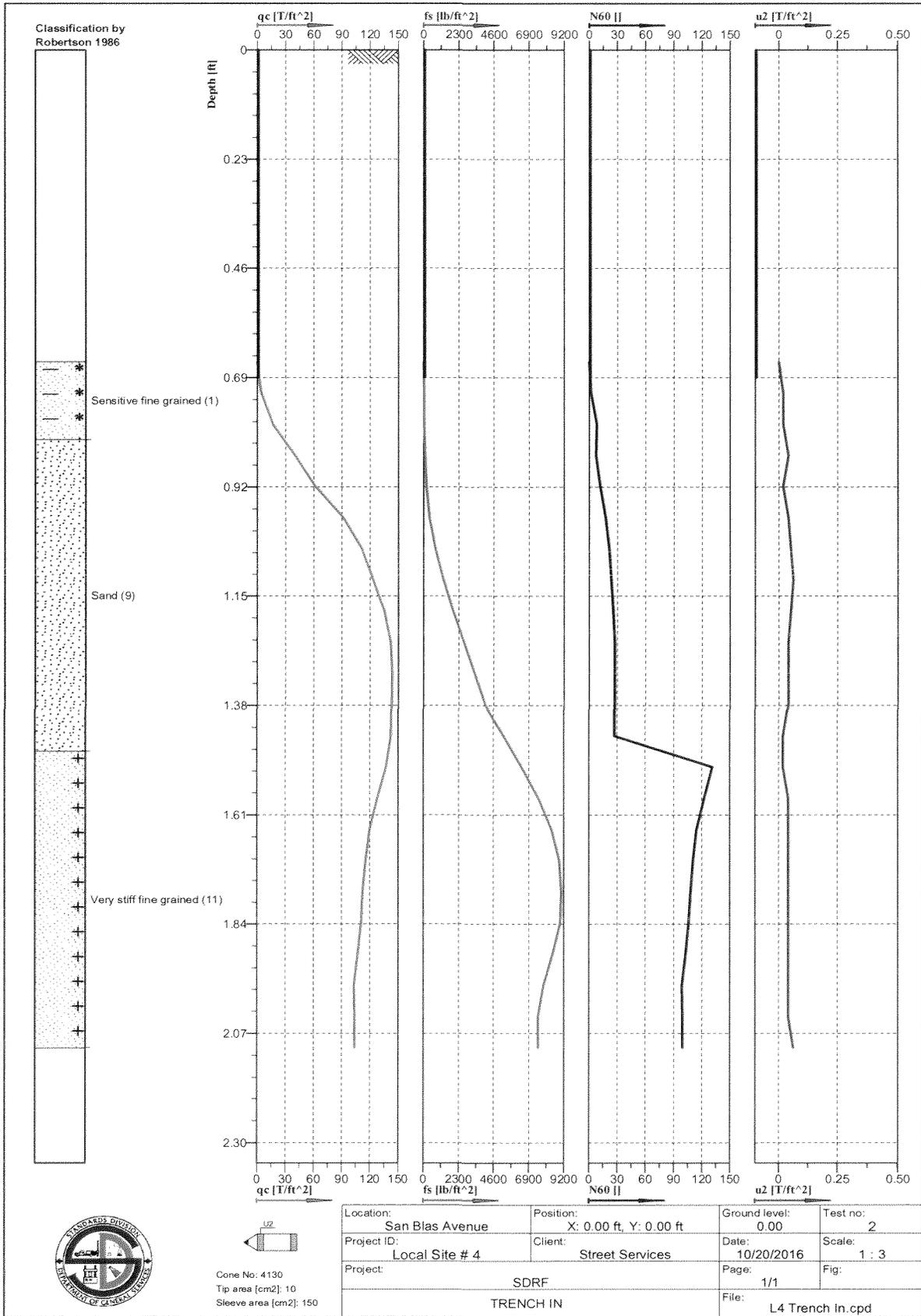
Location: 1581 N Crescent Heights BL.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site #3	Client: Street Services	Date: 11/21/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: L3 Trench In.cpd	

Lab No.: 17-741-038



Lab No.: 17-741-039

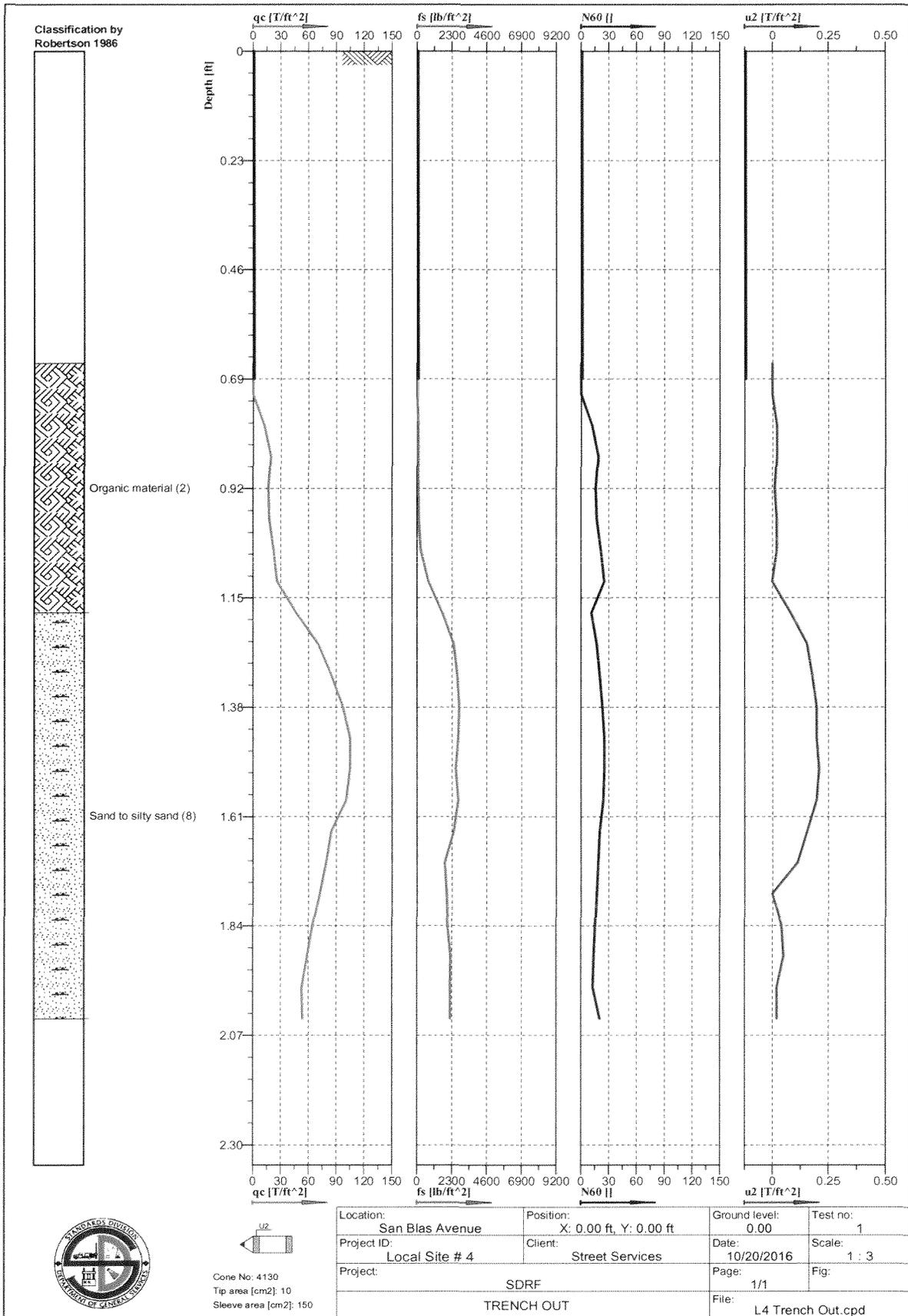




Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: San Blas Avenue	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 2
Project ID: Local Site # 4	Client: Street Services	Date: 10/20/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File:	L4 Trench In.cpd

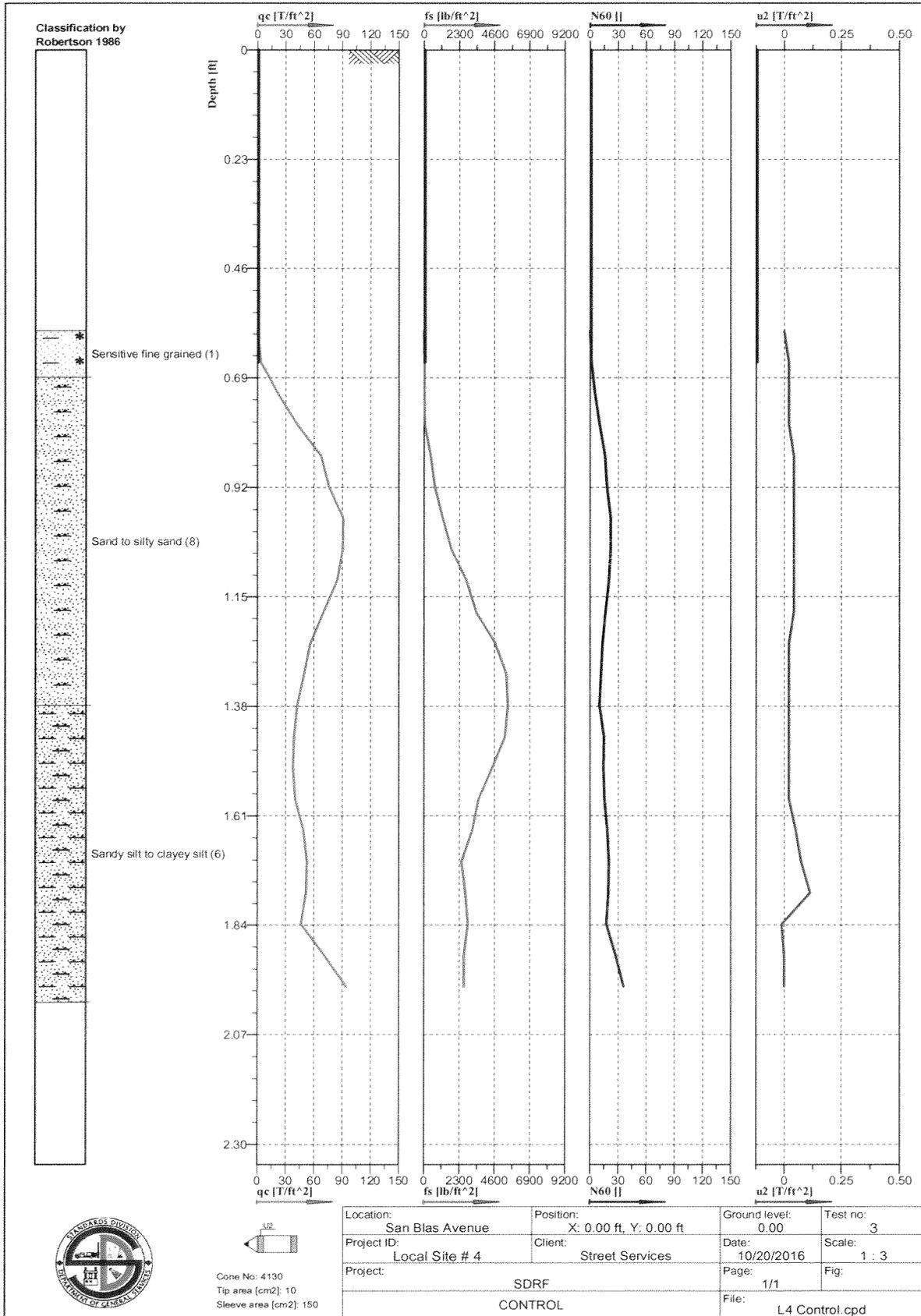
Lab No.: 17-741-041



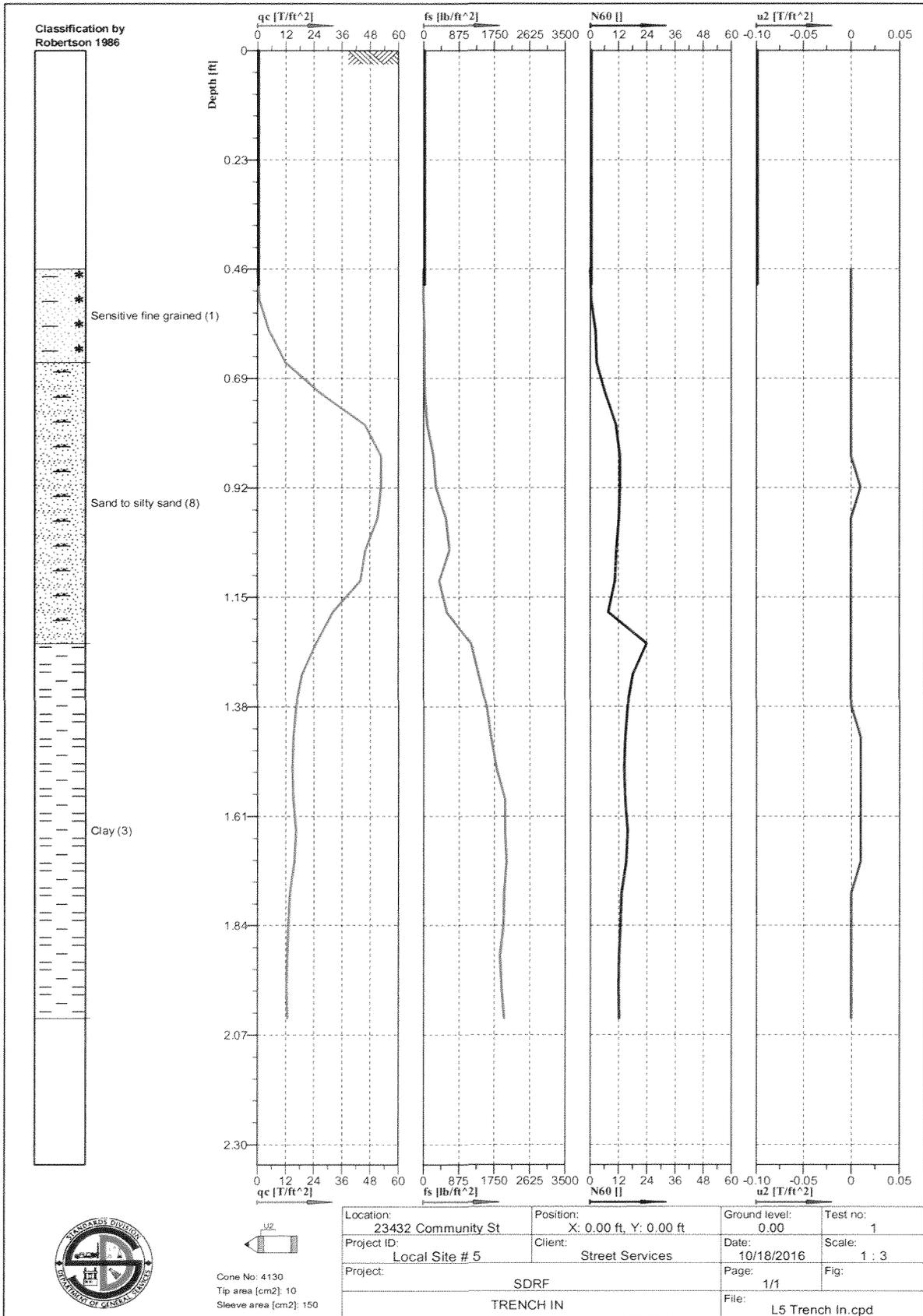
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: San Blas Avenue	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 4	Client: Street Services	Date: 10/20/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH OUT		File: L4 Trench Out.cpd	

Lab No.: 17-741-042

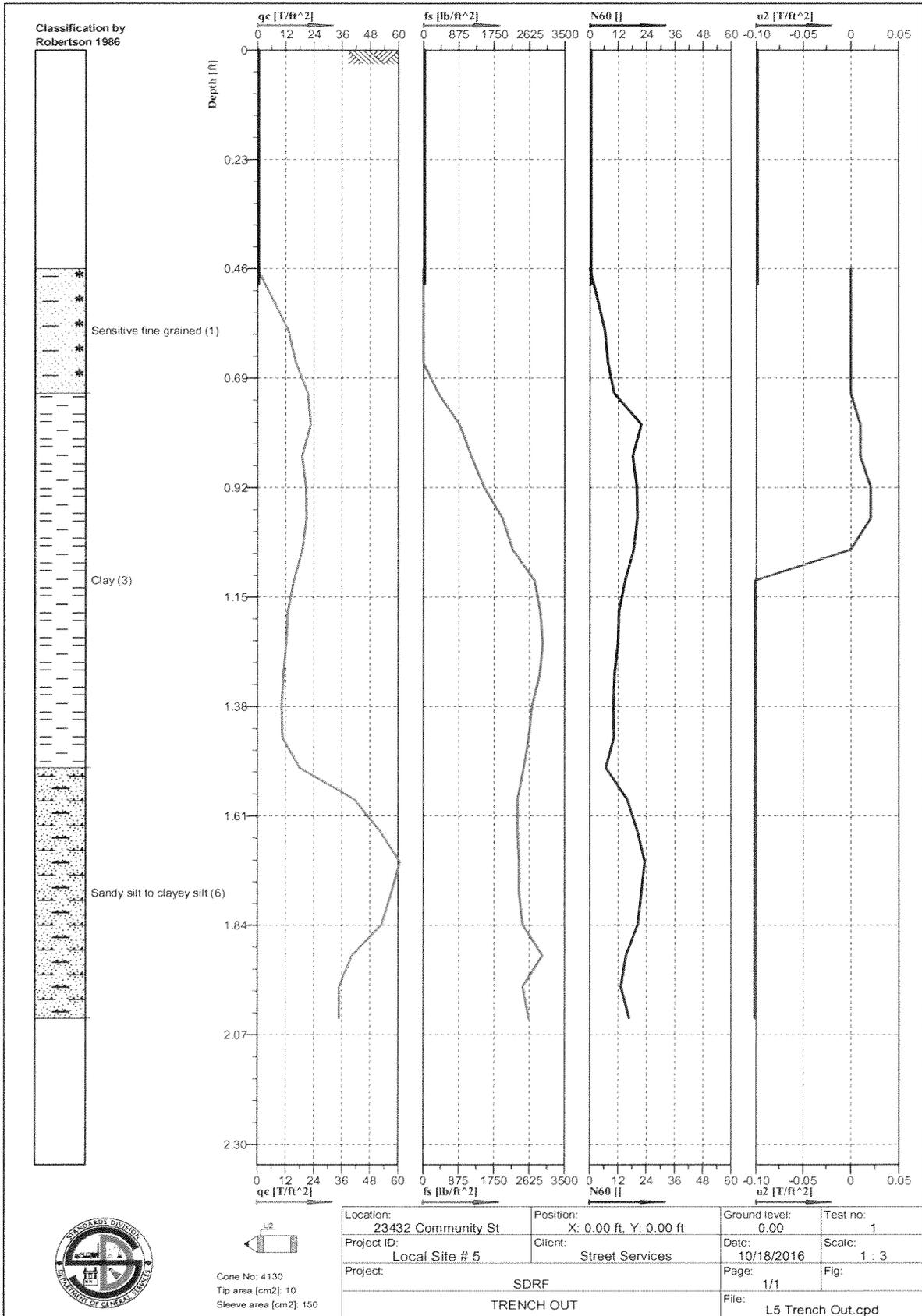


Lab No.: 17-741-043

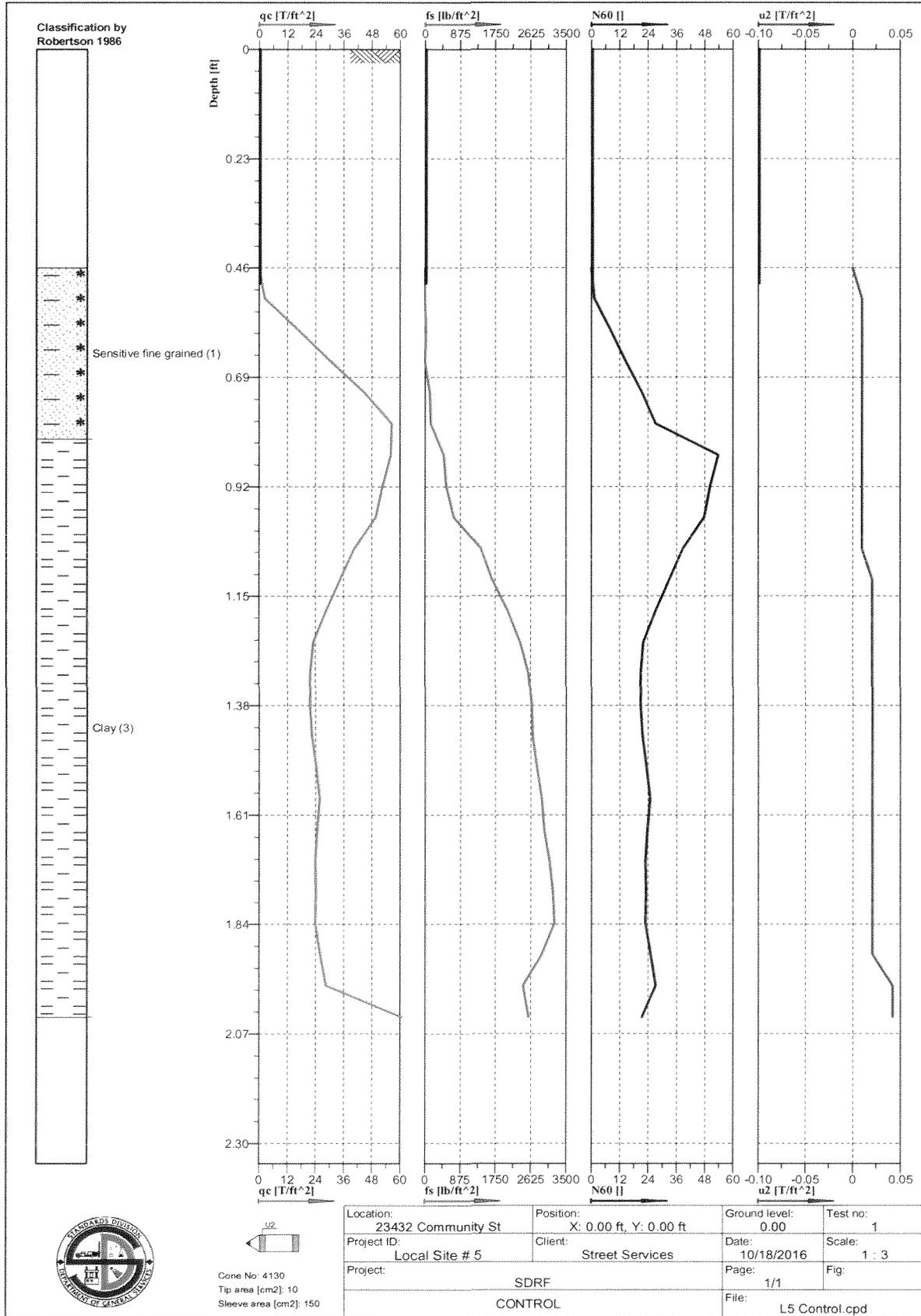


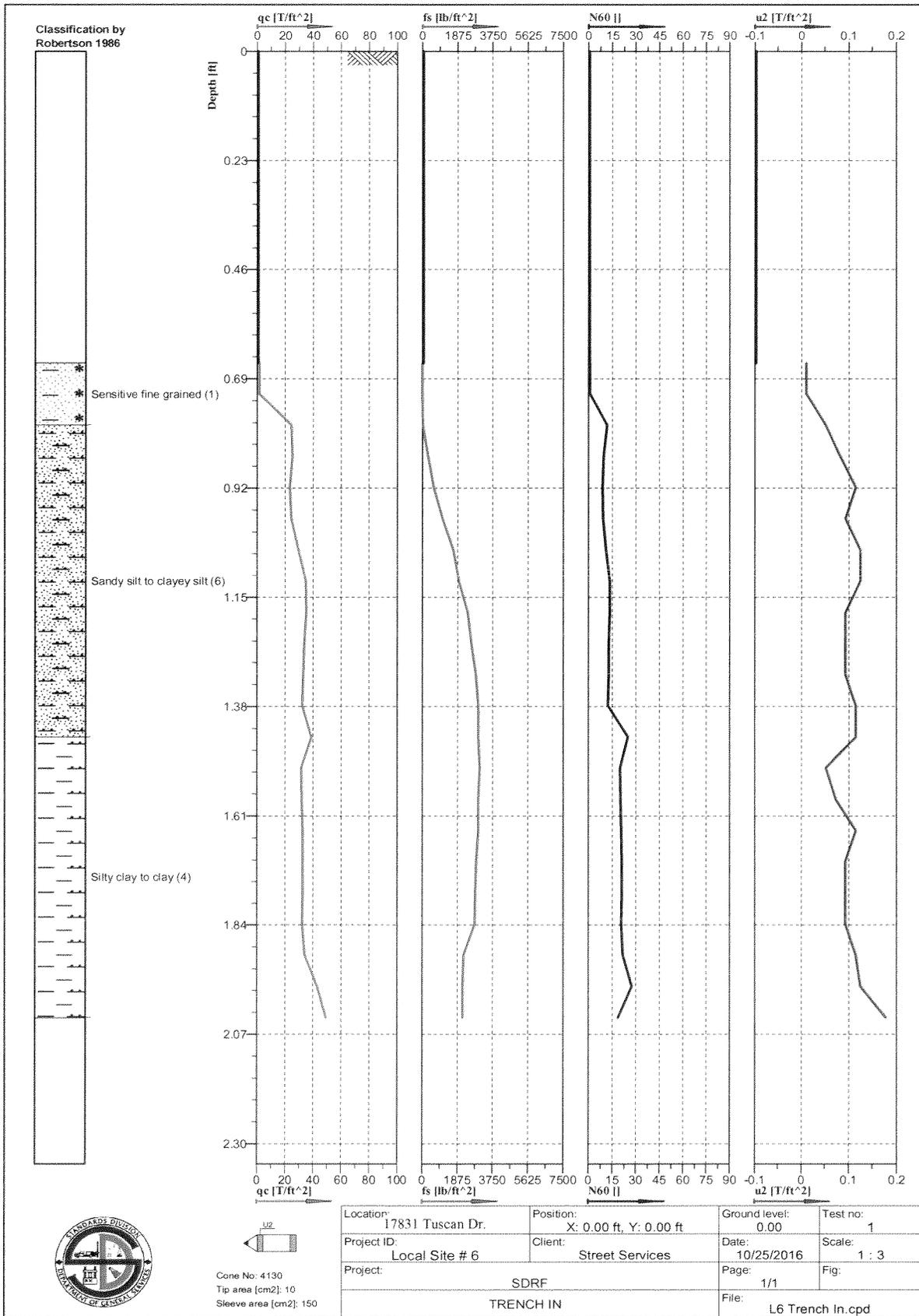
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 23432 Community St	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 5	Client: Street Services	Date: 10/18/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1
TRENCH IN		File: L5 Trench In.cpd	

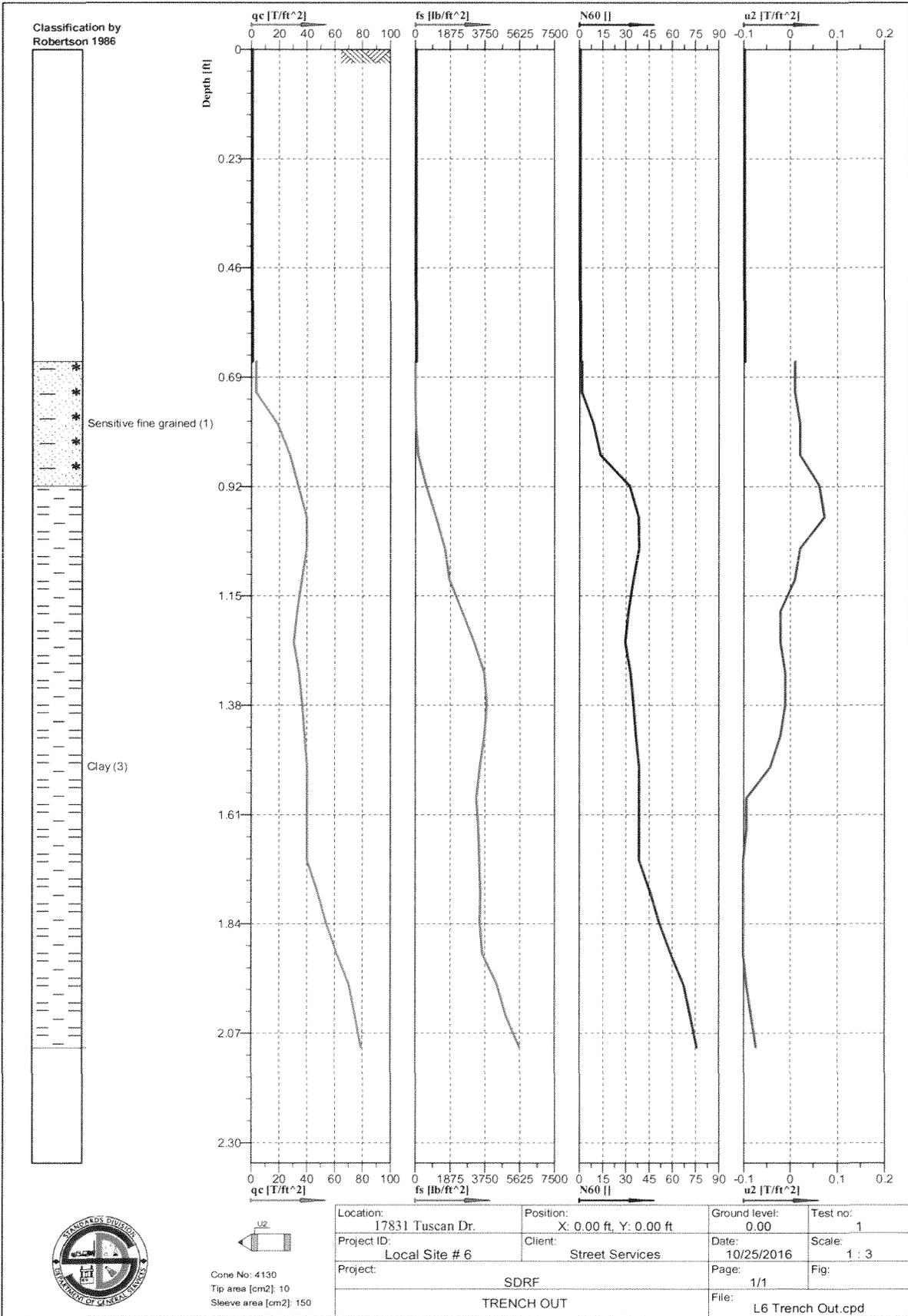


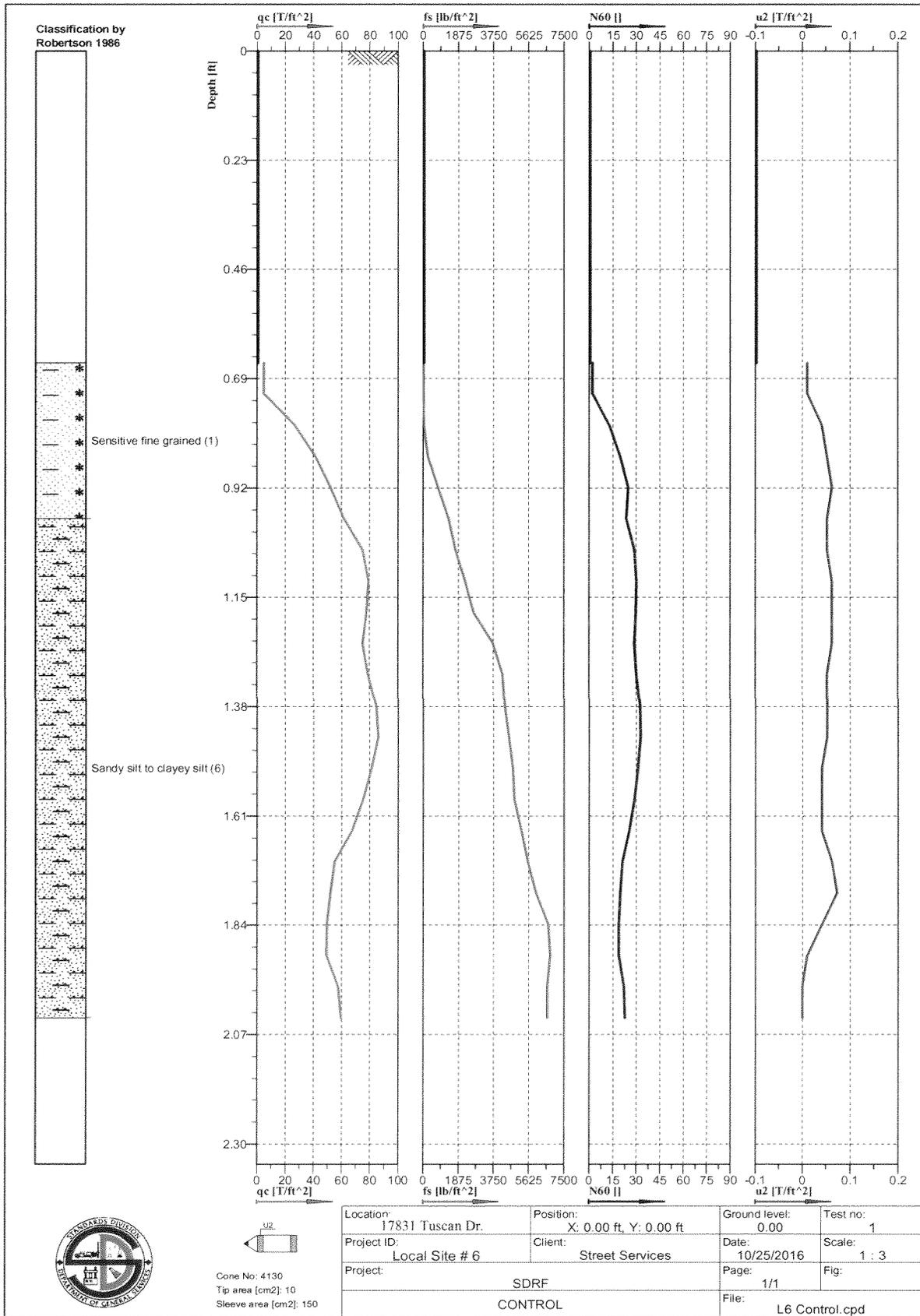
Lab No.: 17-741-045

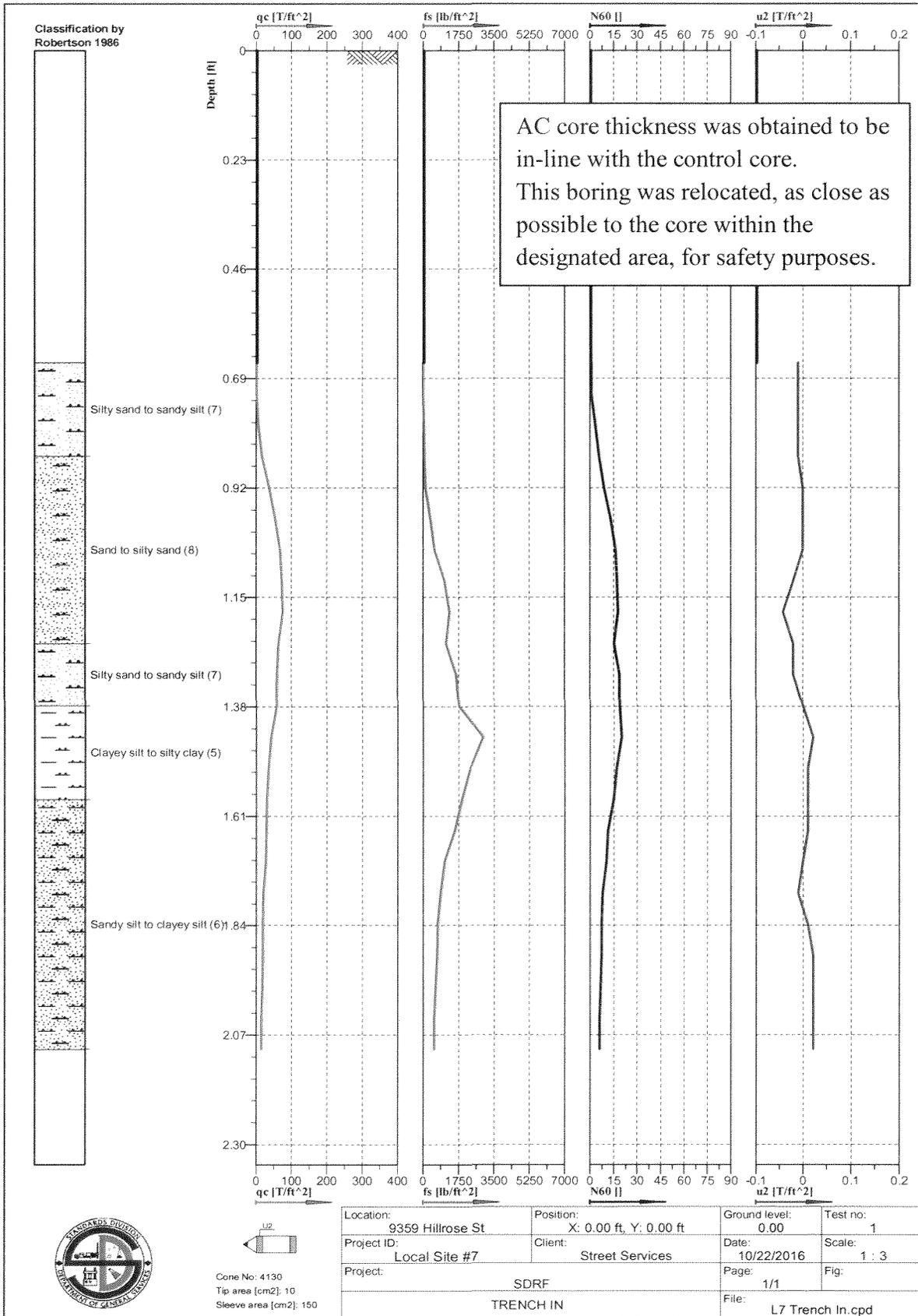




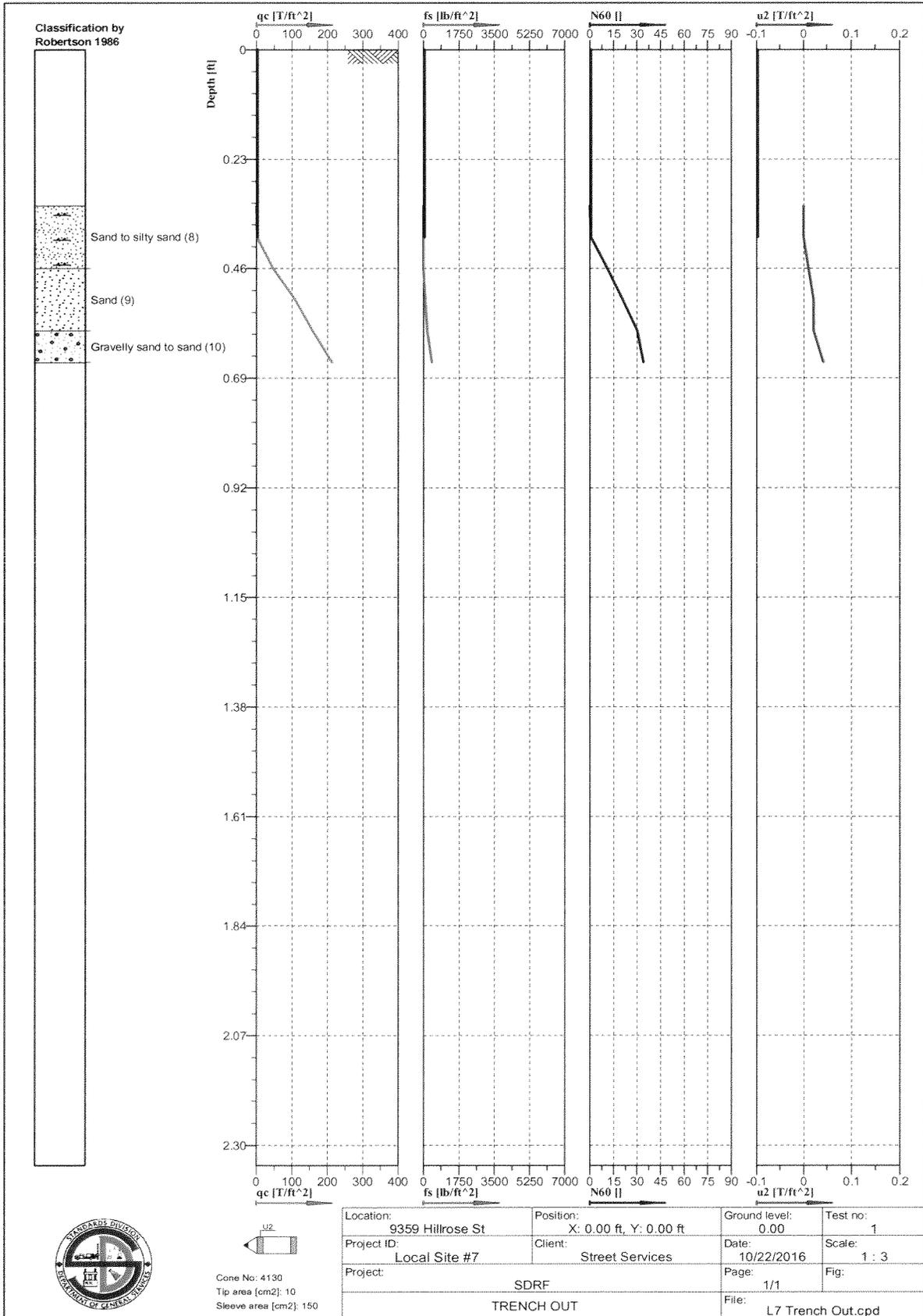
Lab No.: 17-741-047



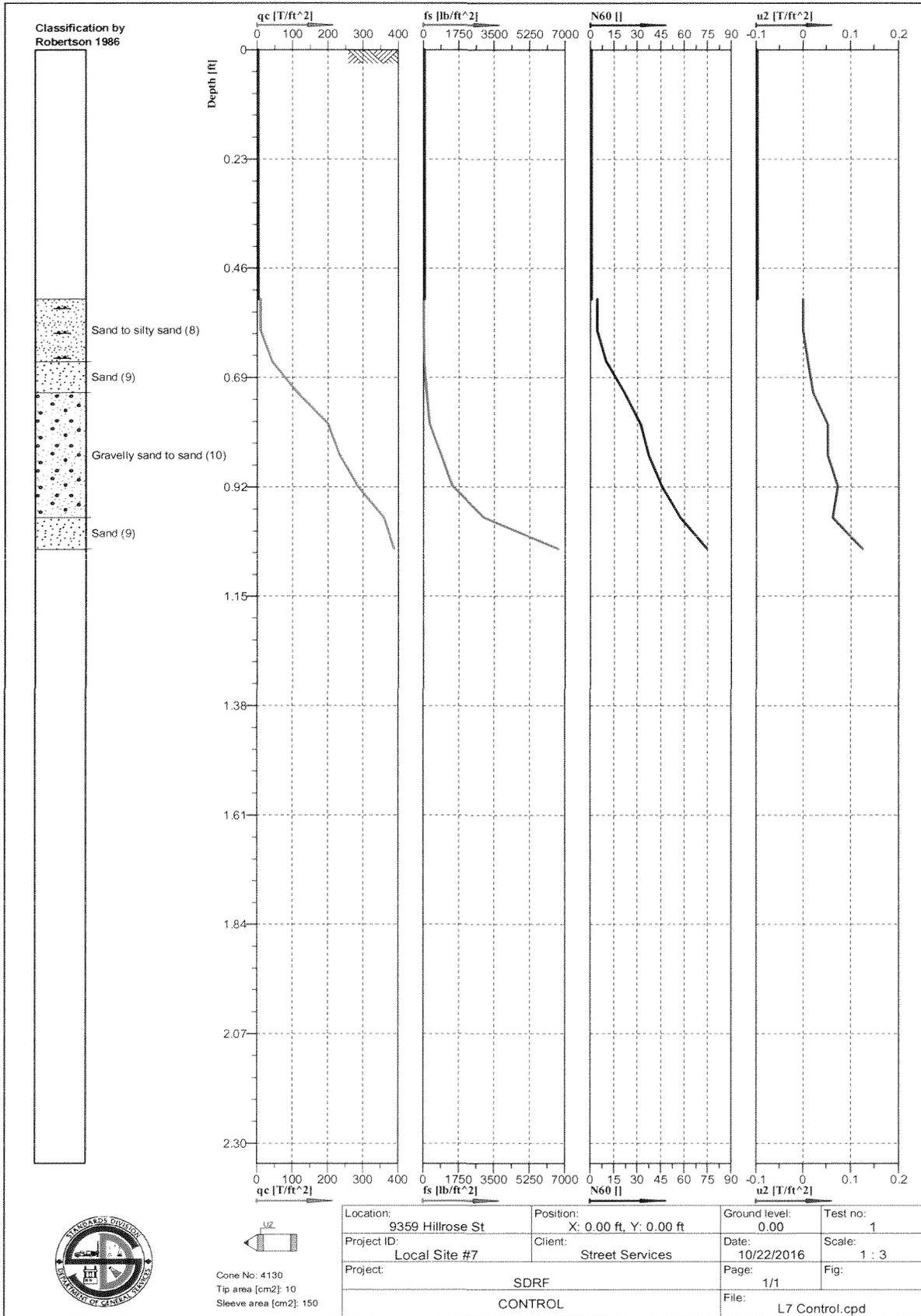




Lab No.: 17-741-050

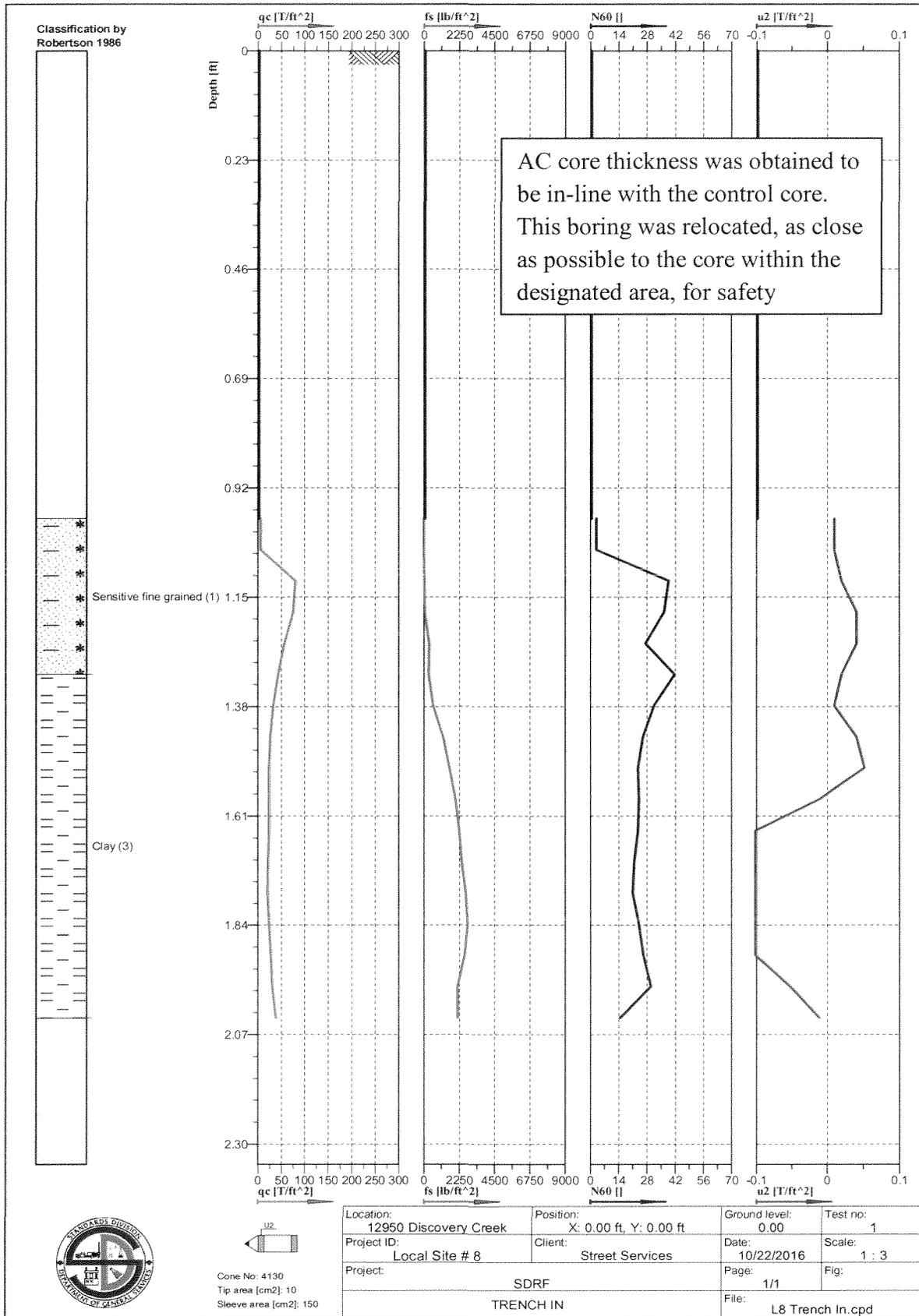


Lab No.: 17-741-051

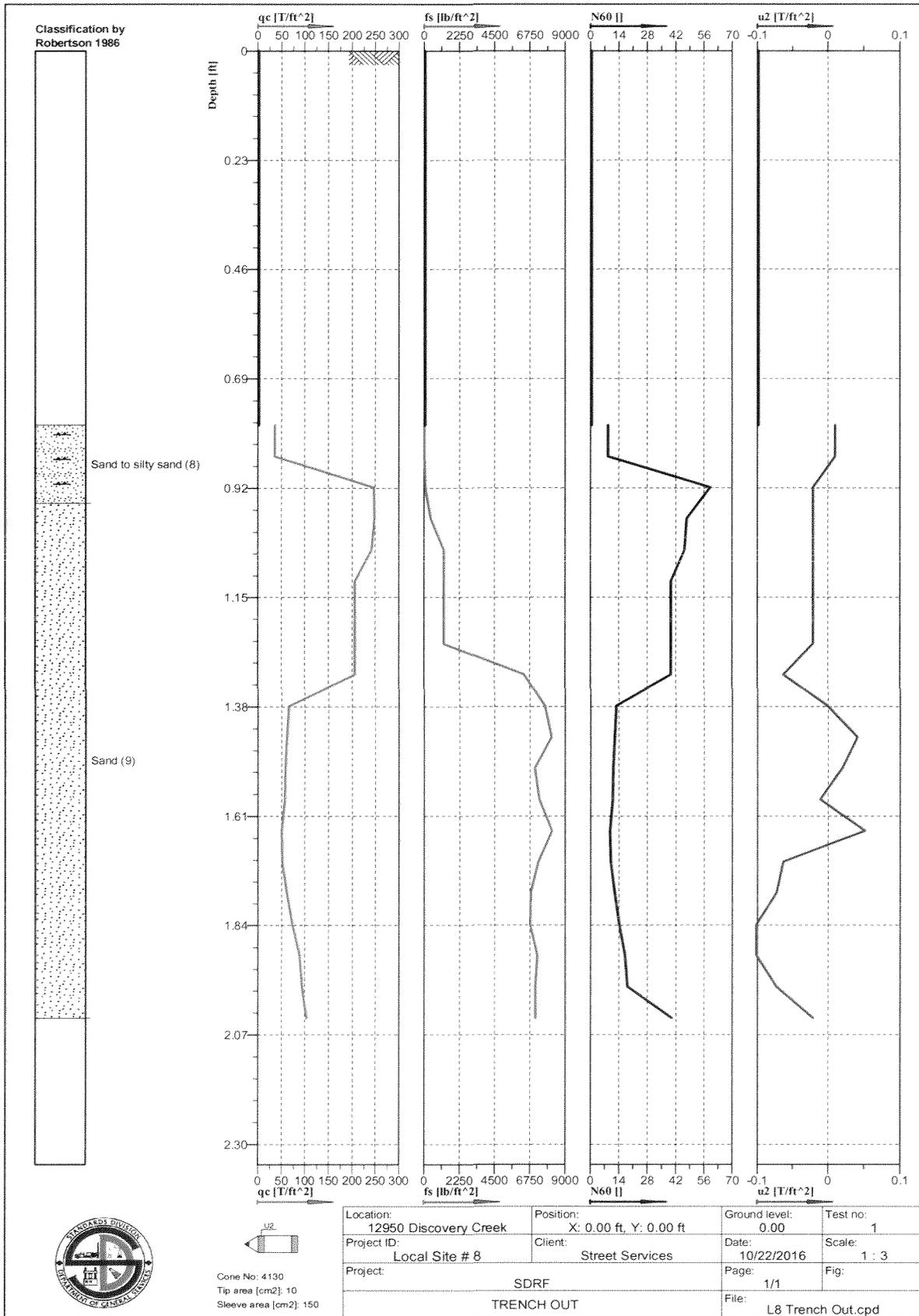


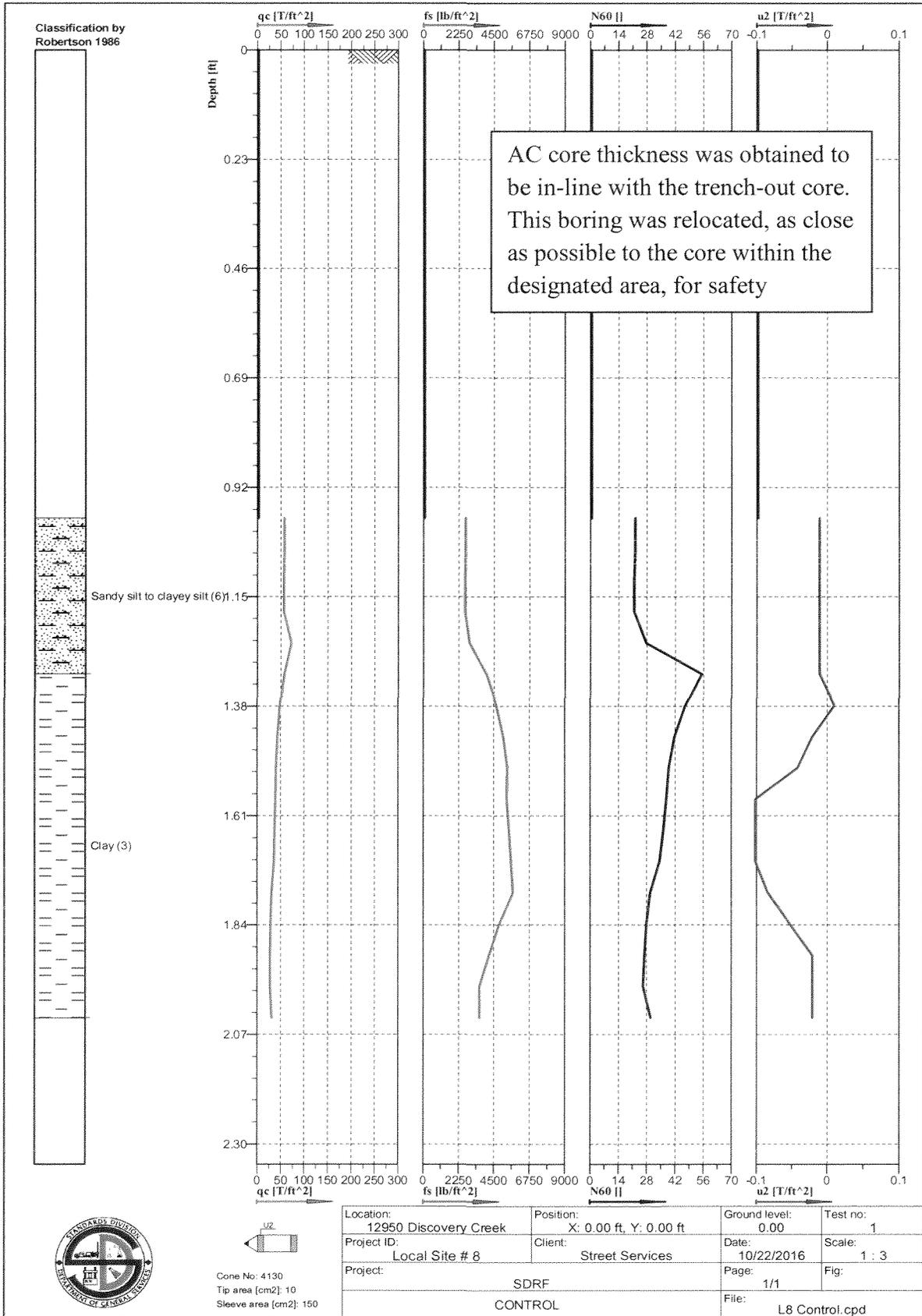
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 9359 Hillrose St	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site #7	Client: Street Services	Date: 10/22/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: L7 Control.cpd	



Lab No.: 17-741-053



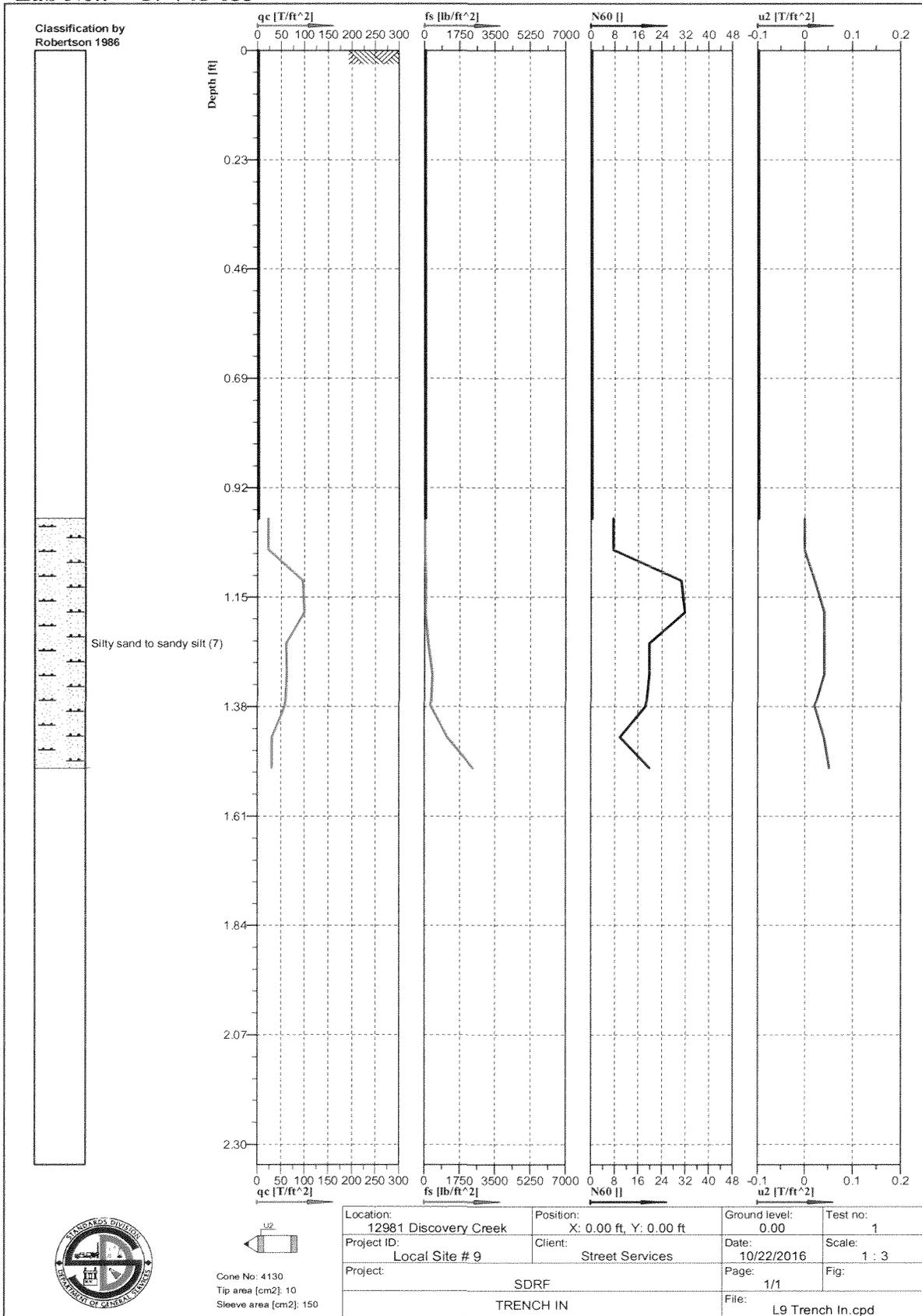


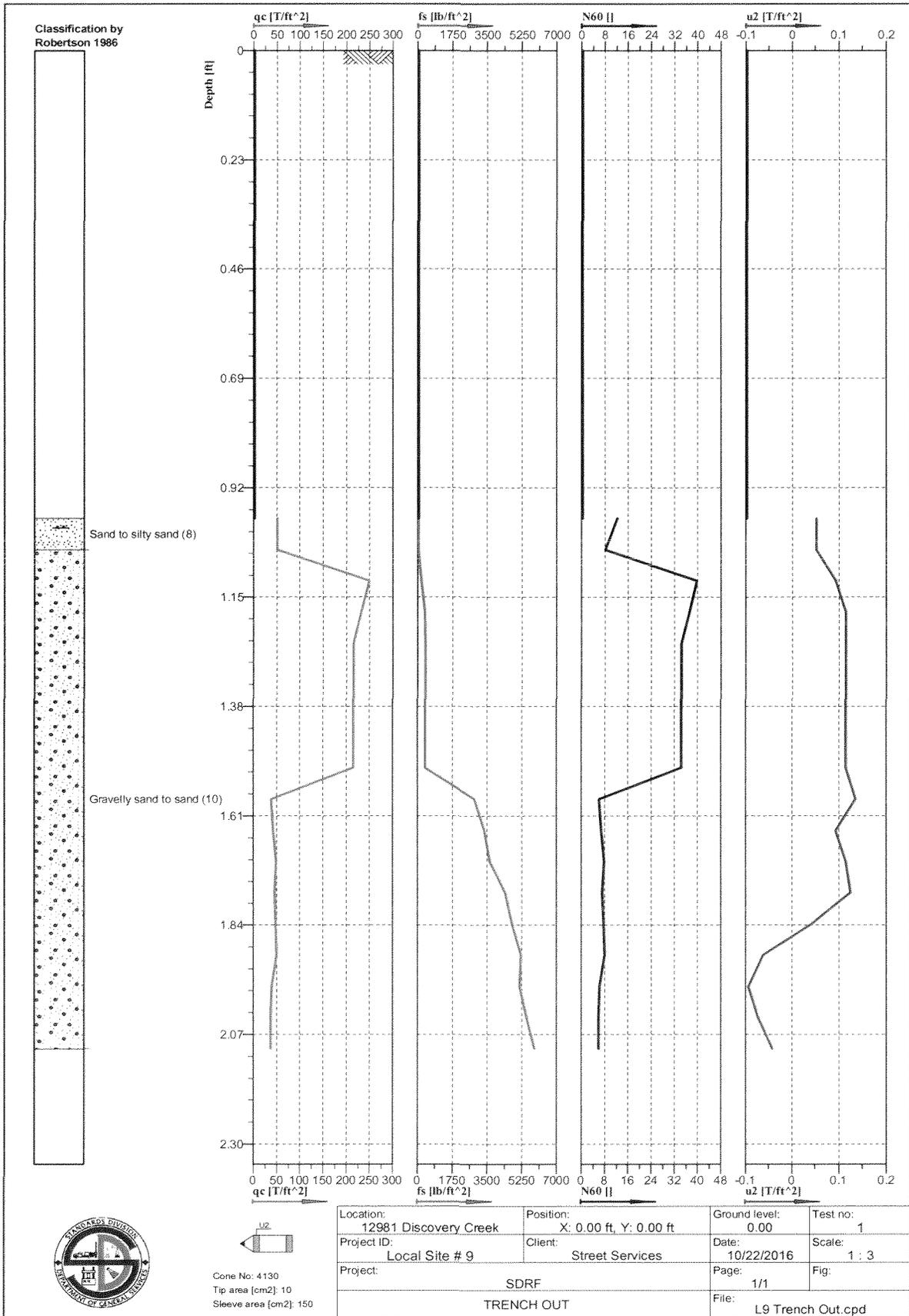
AC core thickness was obtained to be in-line with the trench-out core. This boring was relocated, as close as possible to the core within the designated area, for safety



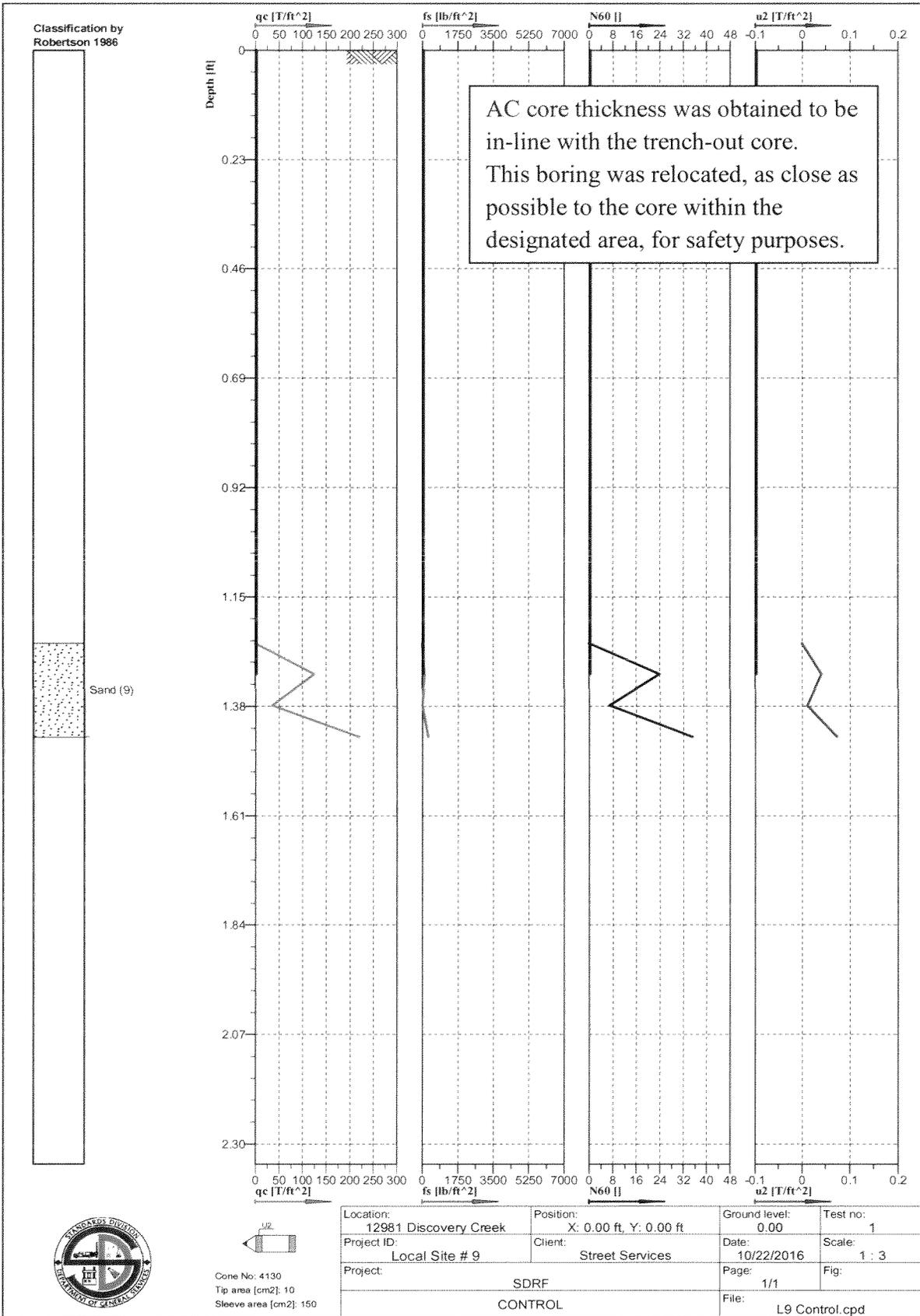
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Lab No.: 17-741-055





Lab No.: 17-741-057



Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

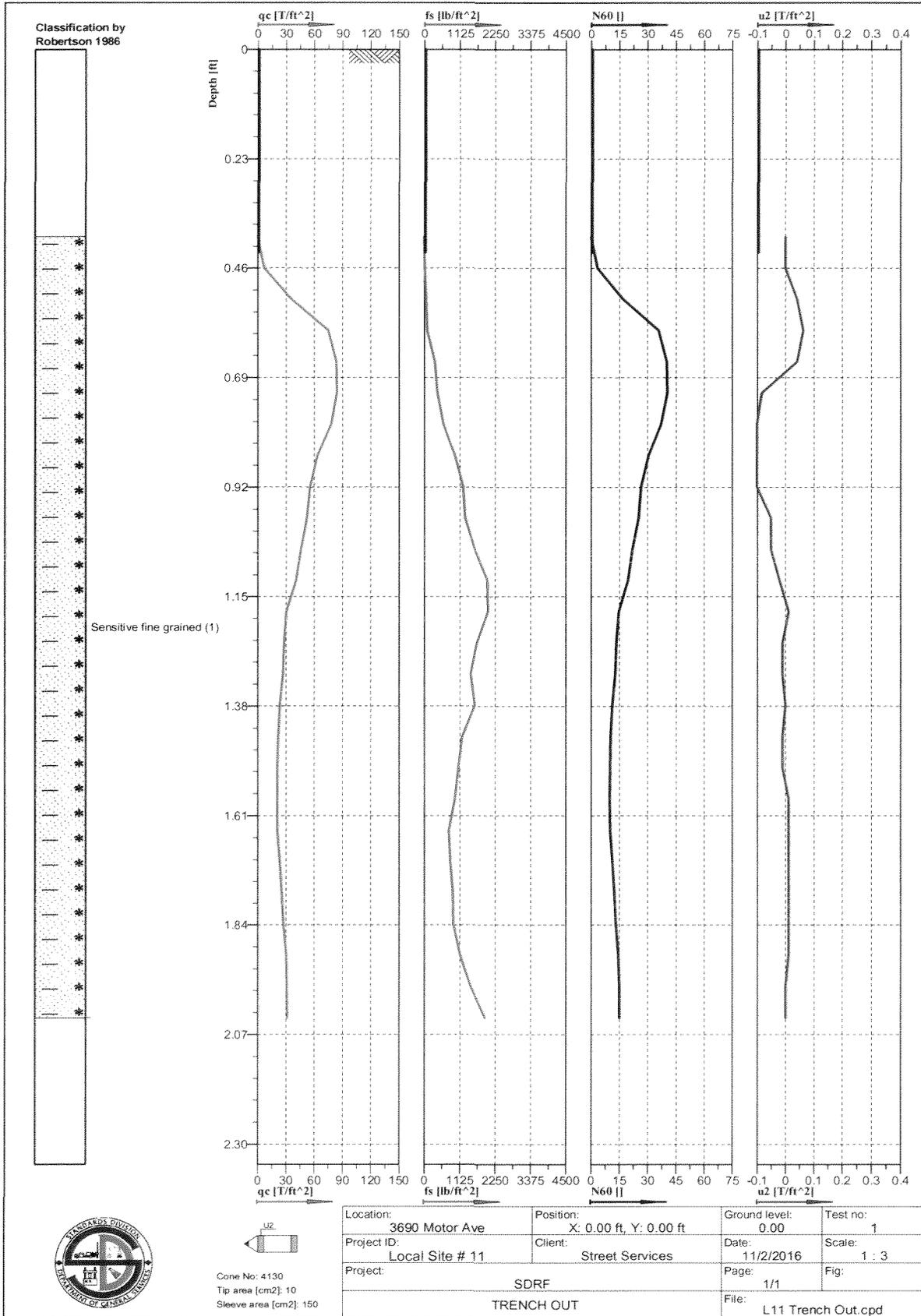
Asphalt thickness = 4.5”.



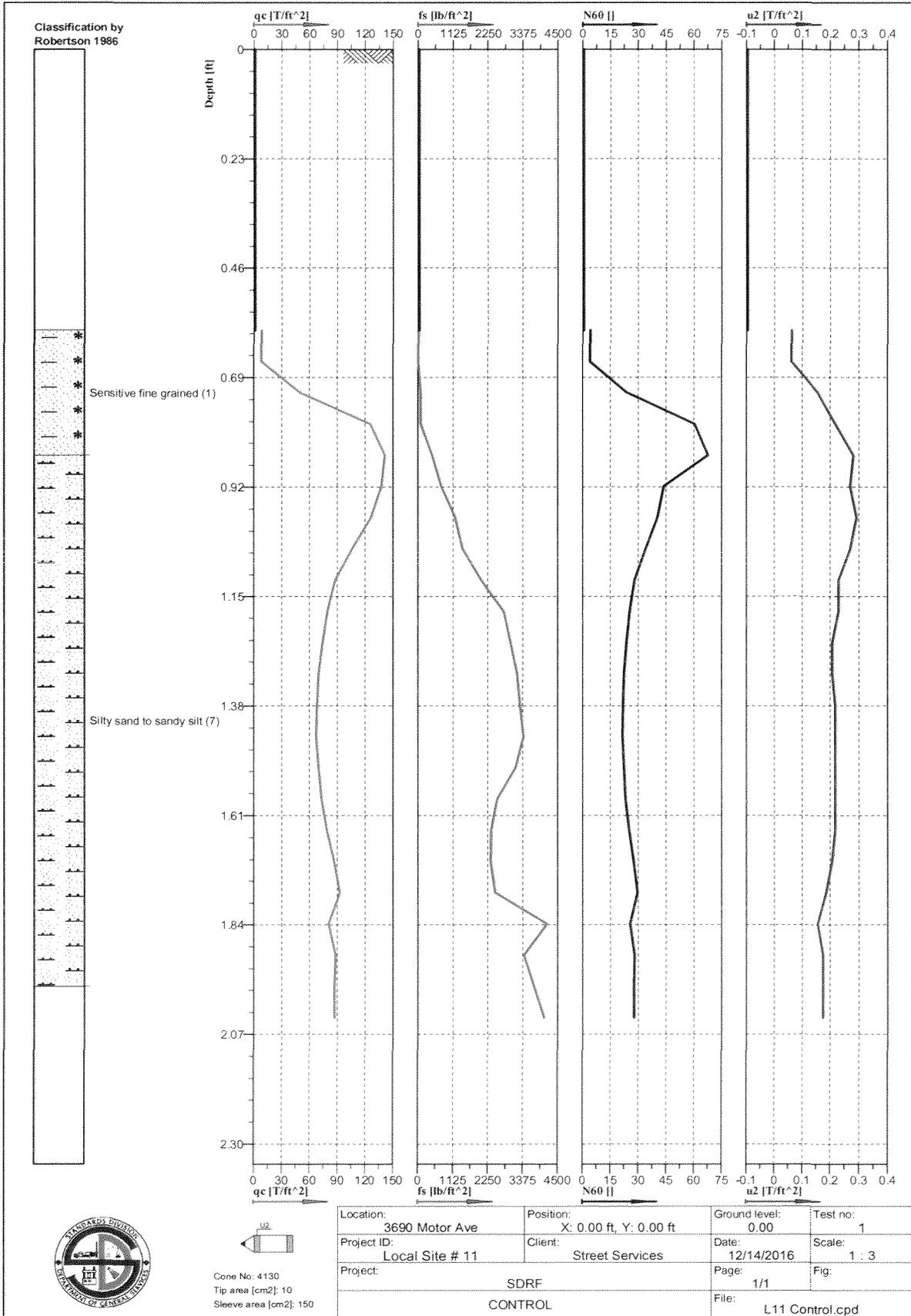
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 3690 Motor Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 11	Client: Street Services	Date: 11/2/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN			File: L11 Trench In.cpd

Lab No.: 17-741-059



Lab No.: 17-741-060



Lab No.: 17-741-061

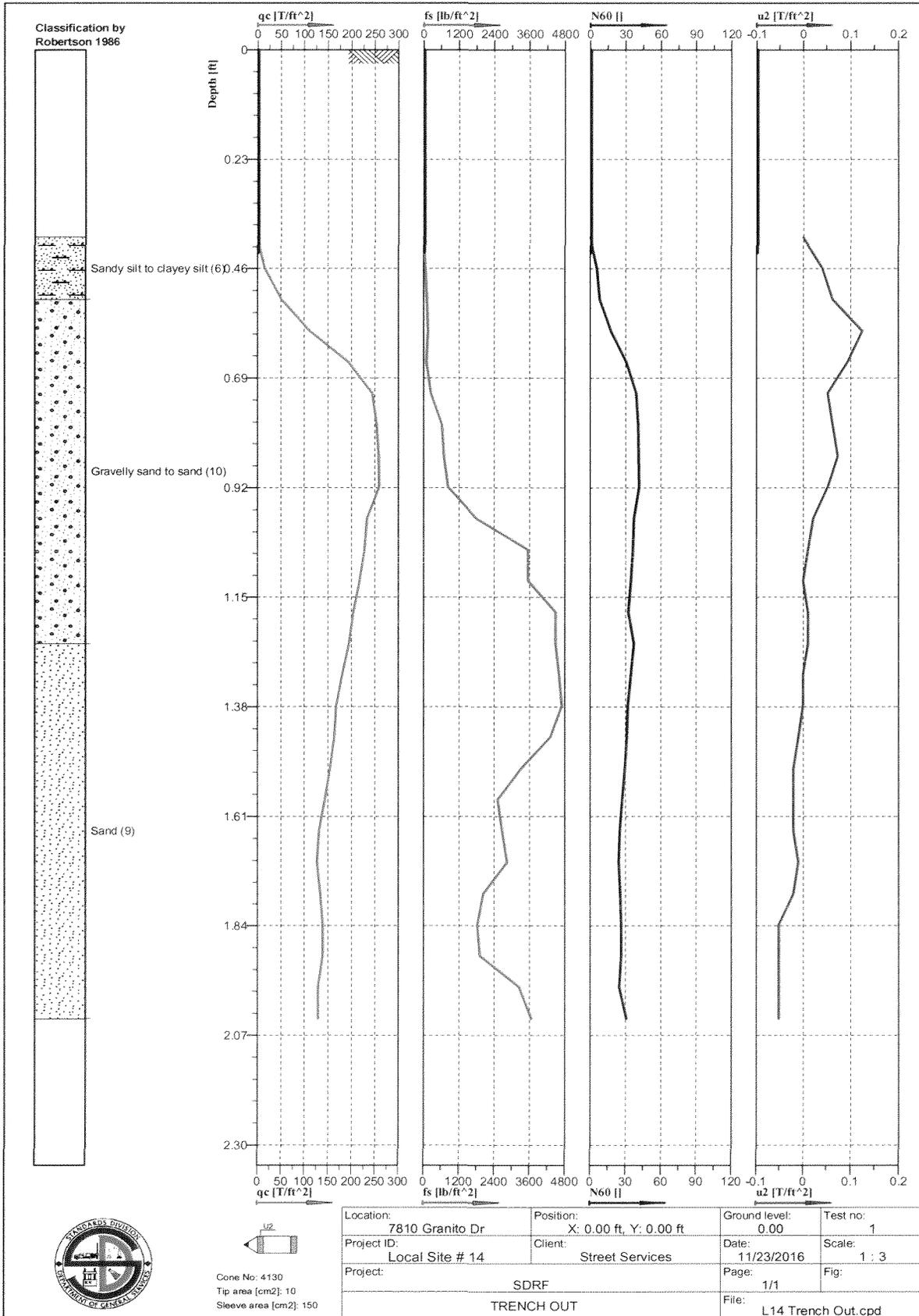
Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

Asphalt thickness = 6.8”.



Cone No: 4130
Tip area [cm2]: 10
Sleeve area [cm2]: 150

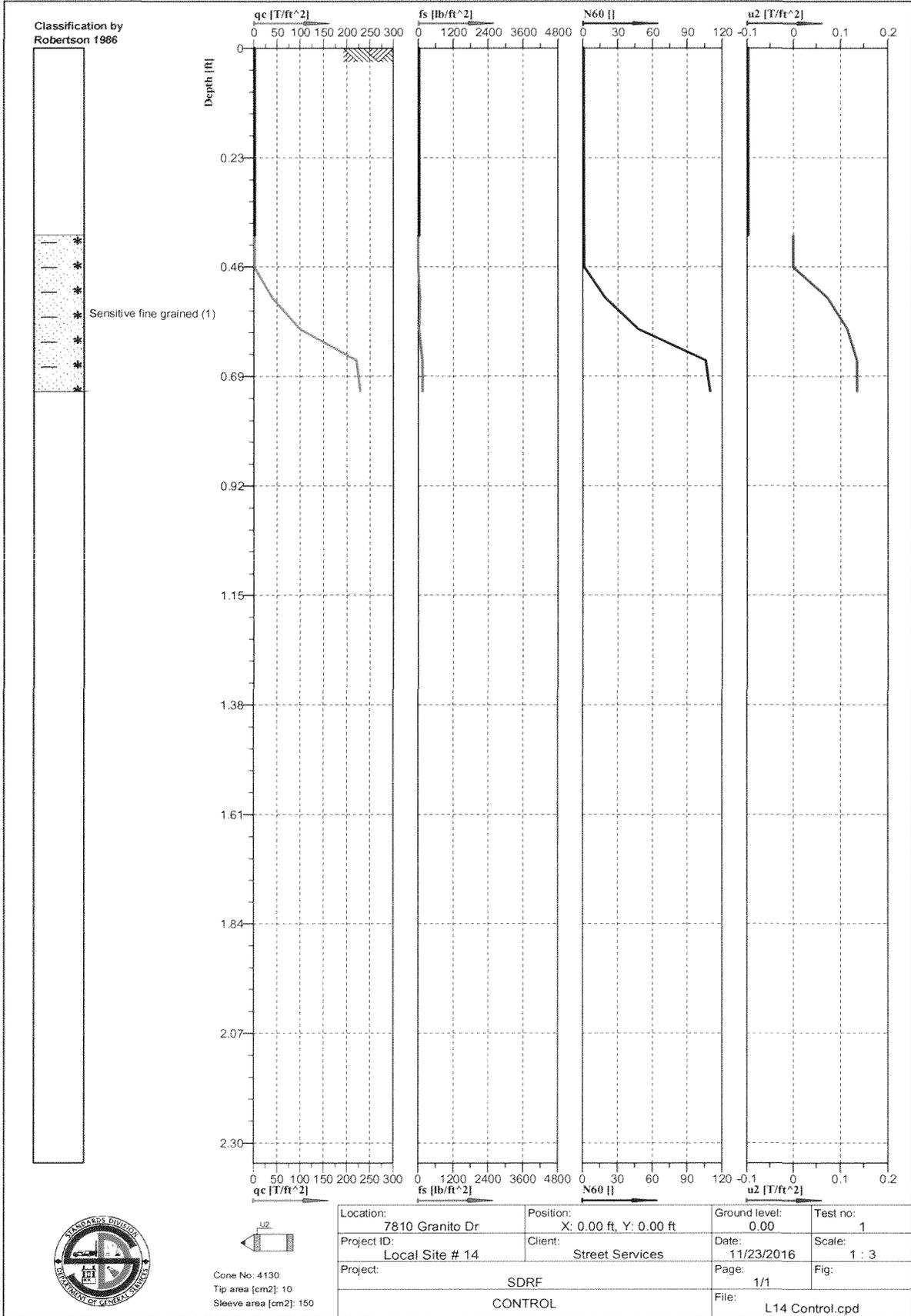
Location: 7810 Granito Dr	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 14	Client: Street Services	Date: 11/23/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: L14 Trench In.cpd	



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 7810 Granito Dr	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 14	Client: Street Services	Date: 11/23/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
TRENCH OUT		File: L14 Trench Out.cpd	

Lab No.: 17-741-063



Trench backfill consists of cemented sand. No CPTU performed in this trench.

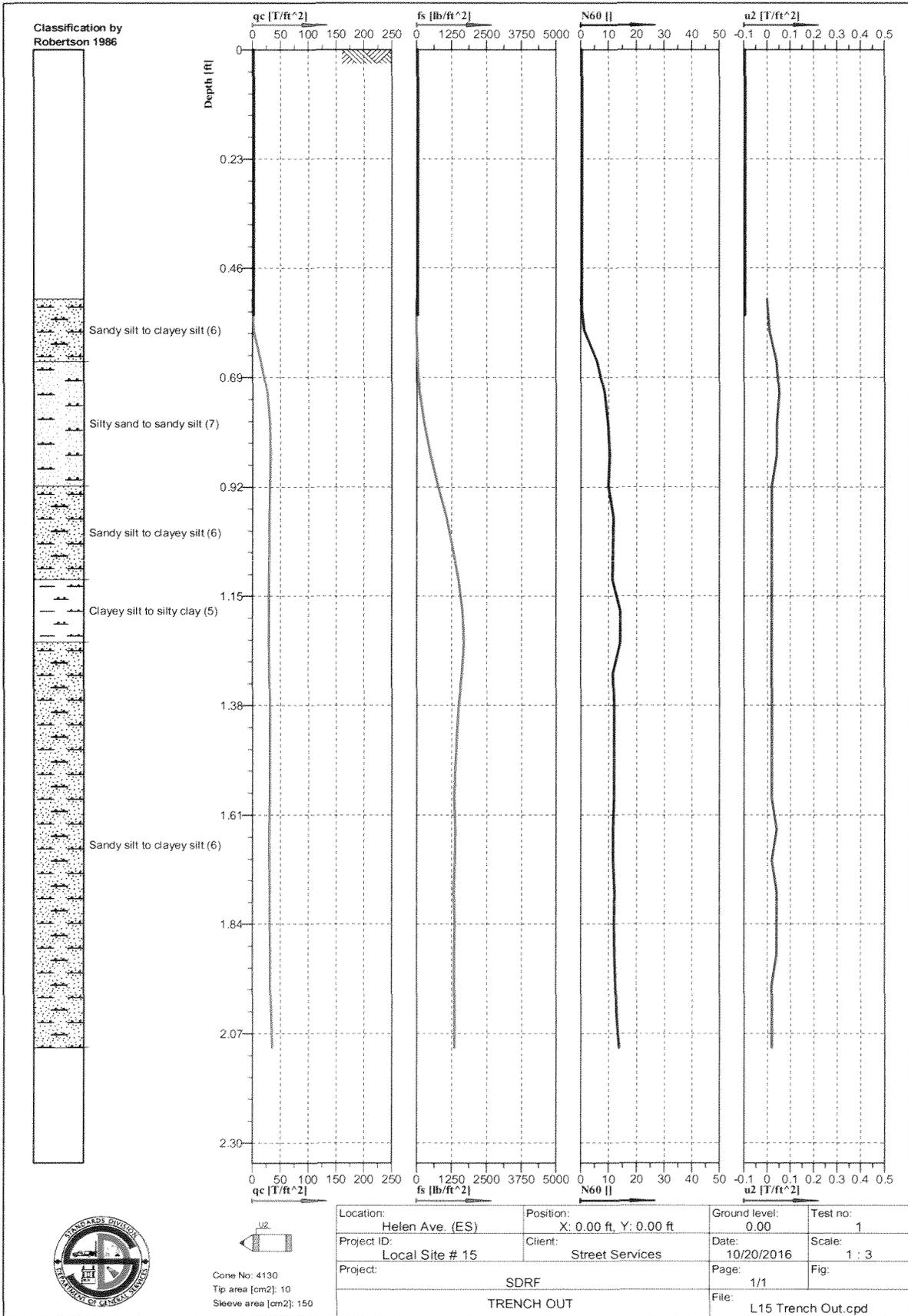
Asphalt thickness = 5.4”.



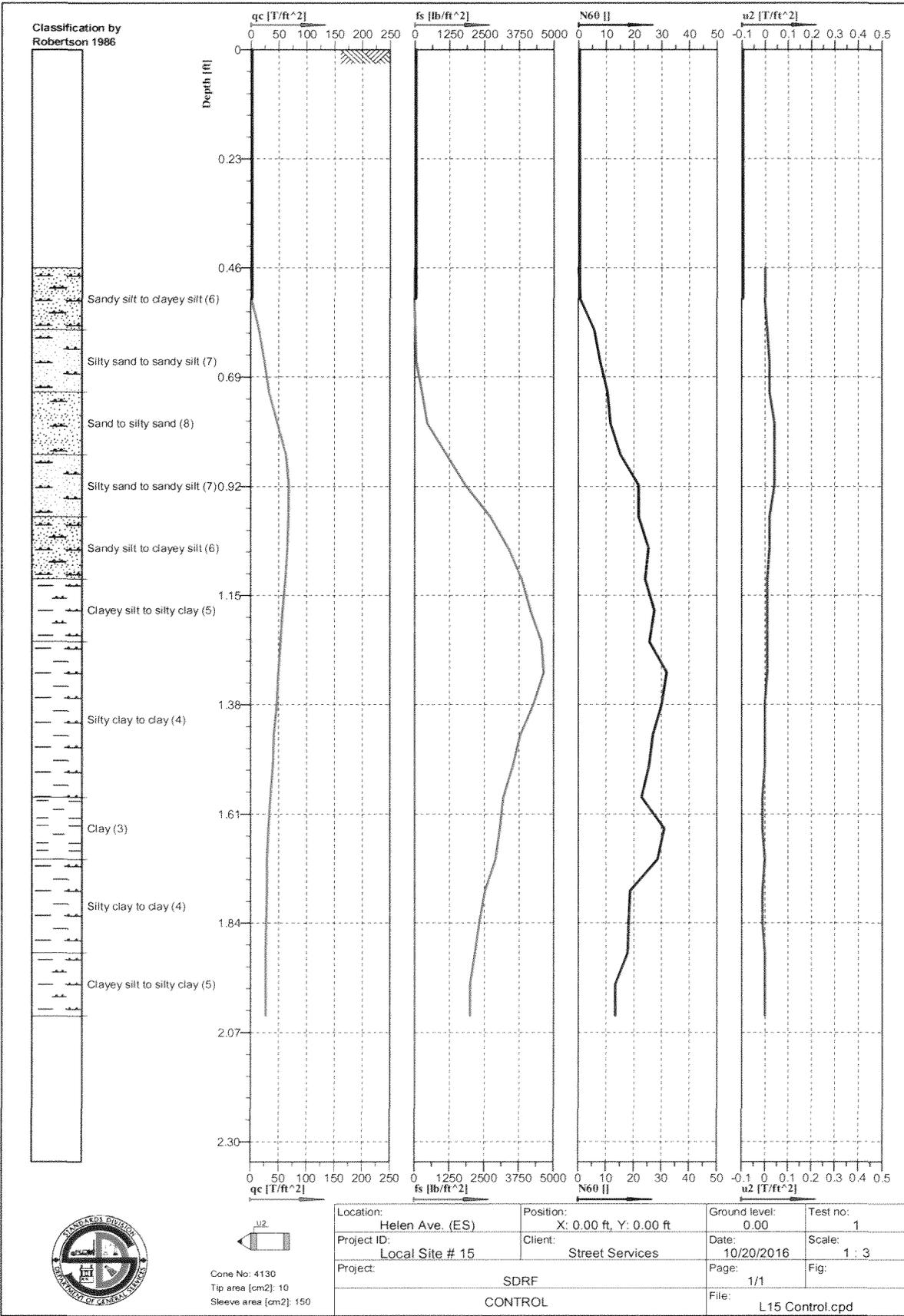
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: Helen Ave. (ES)	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 15	Client: Street Services	Date: 10/20/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: L15 Trench In.cpd	

Lab No.: 17-741-065



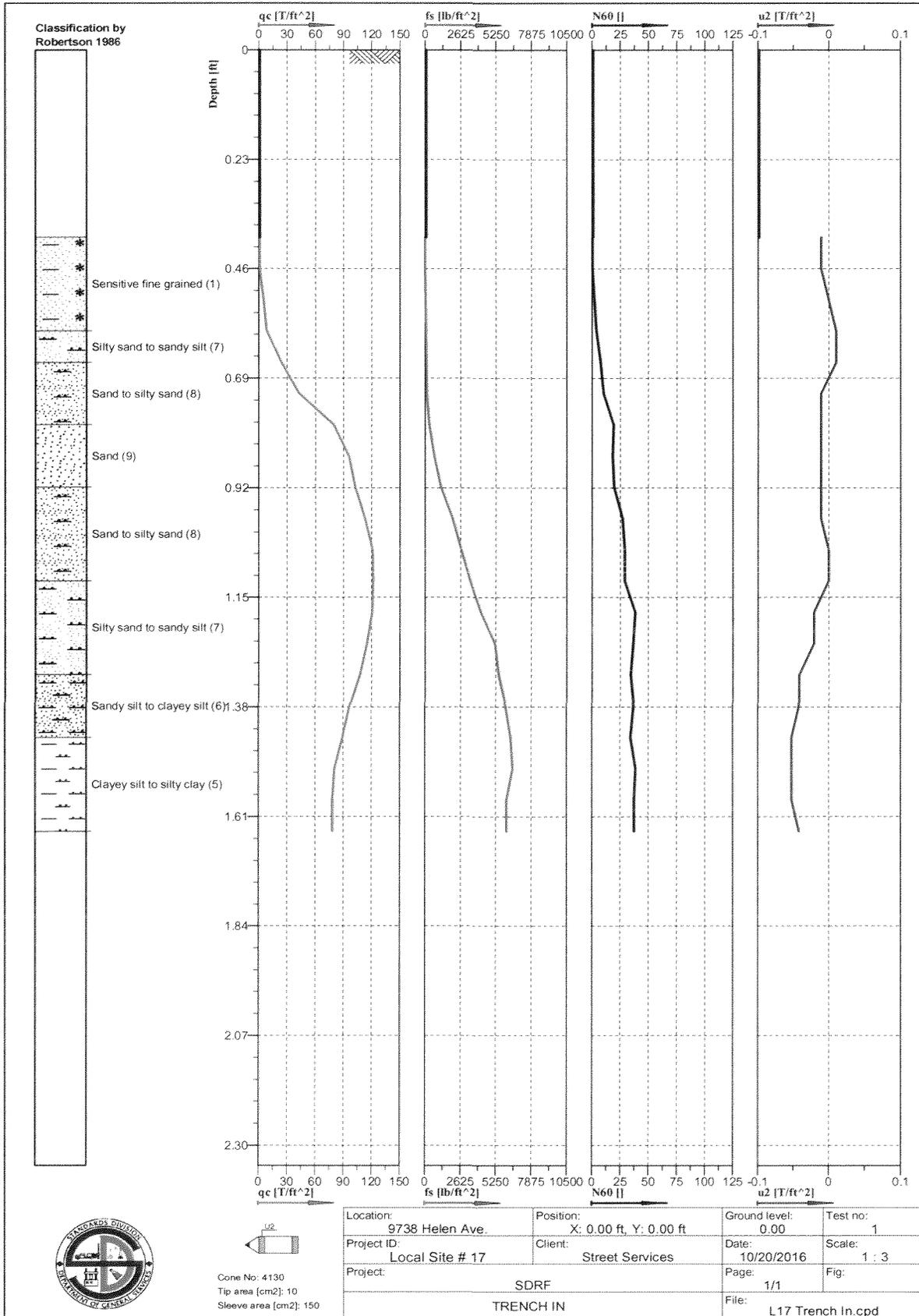
Lab No.: 17-741-066



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: Helen Ave. (ES)	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 15	Client: Street Services	Date: 10/20/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1
CONTROL		File: L15 Control.cpd	

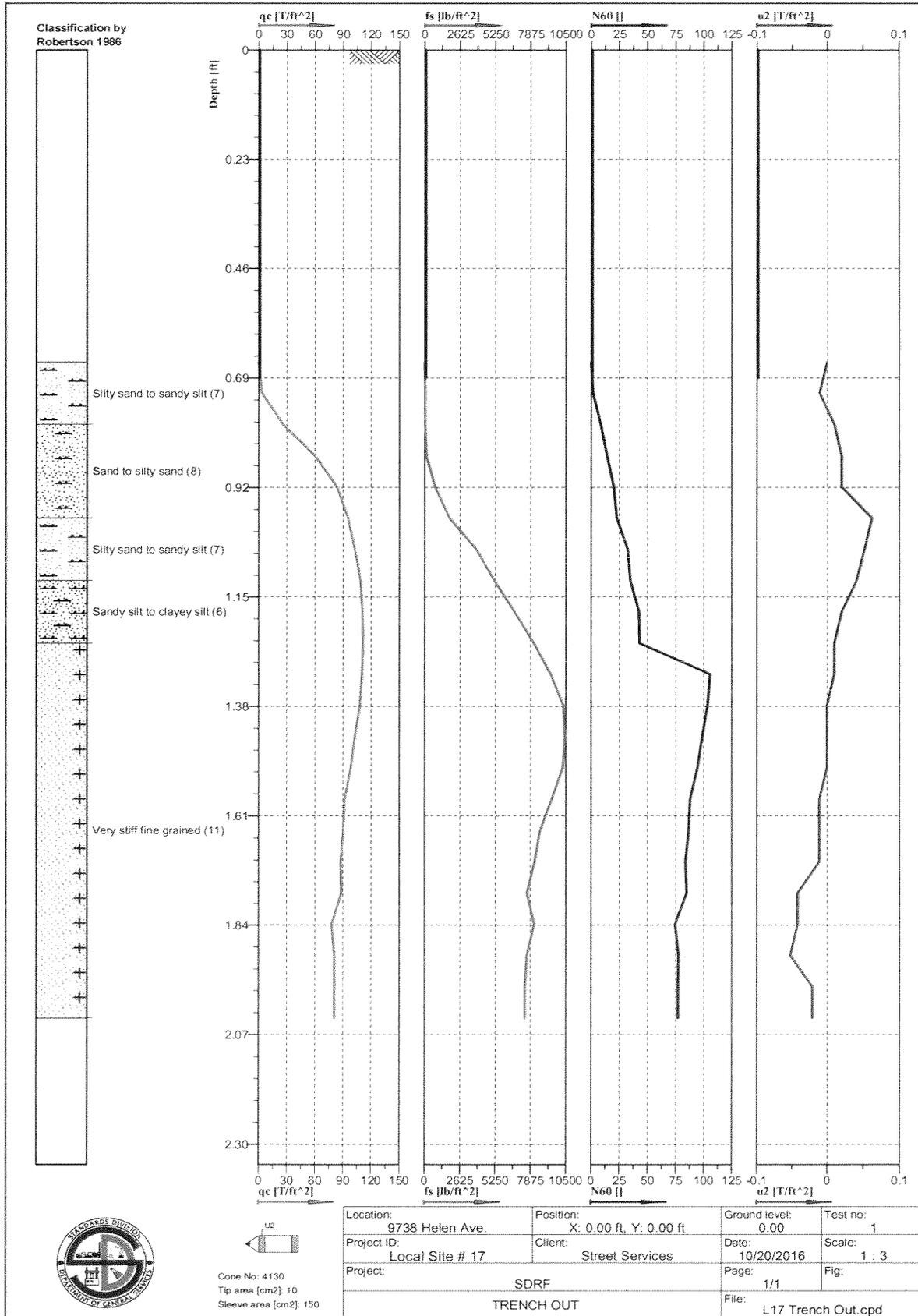
Lab No.: 17-741-067



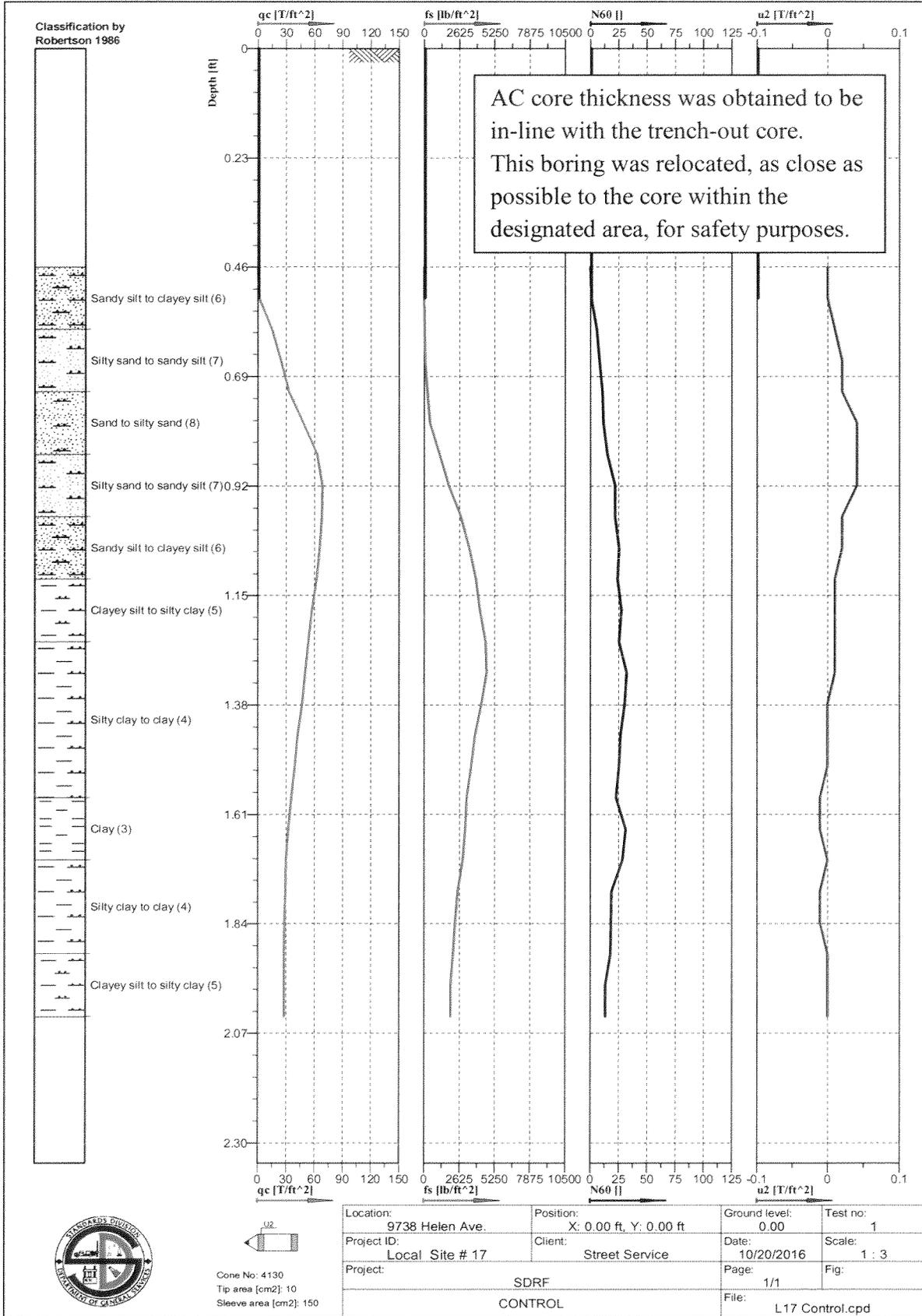
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 9738 Helen Ave.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 17	Client: Street Services	Date: 10/20/2016	Scale: 1 : 3
Project: SDRF TRENCH IN		Page: 1/1	Fig: 1
		File: L17 Trench In.cpd	

Lab No.: 17-741-068

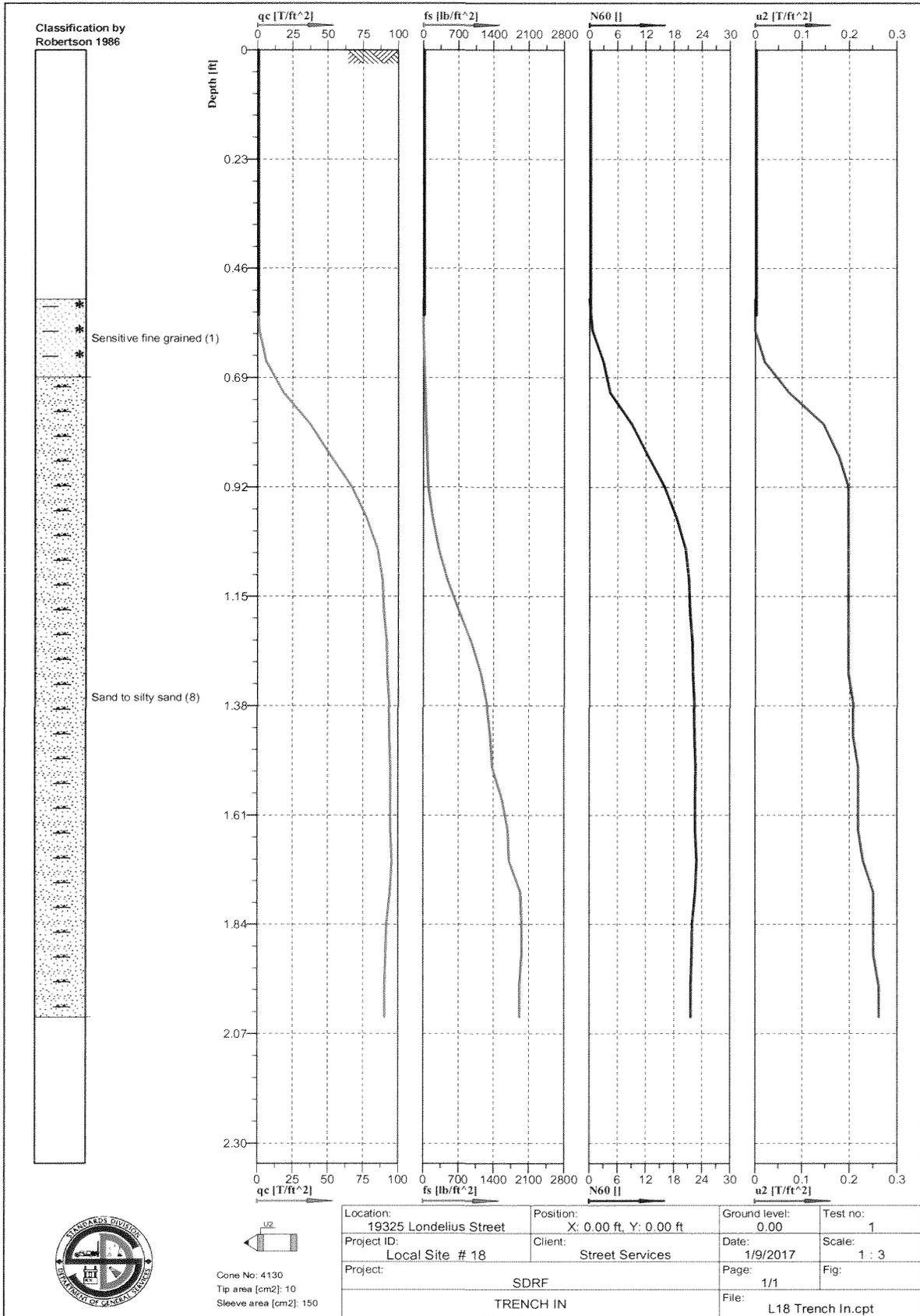


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

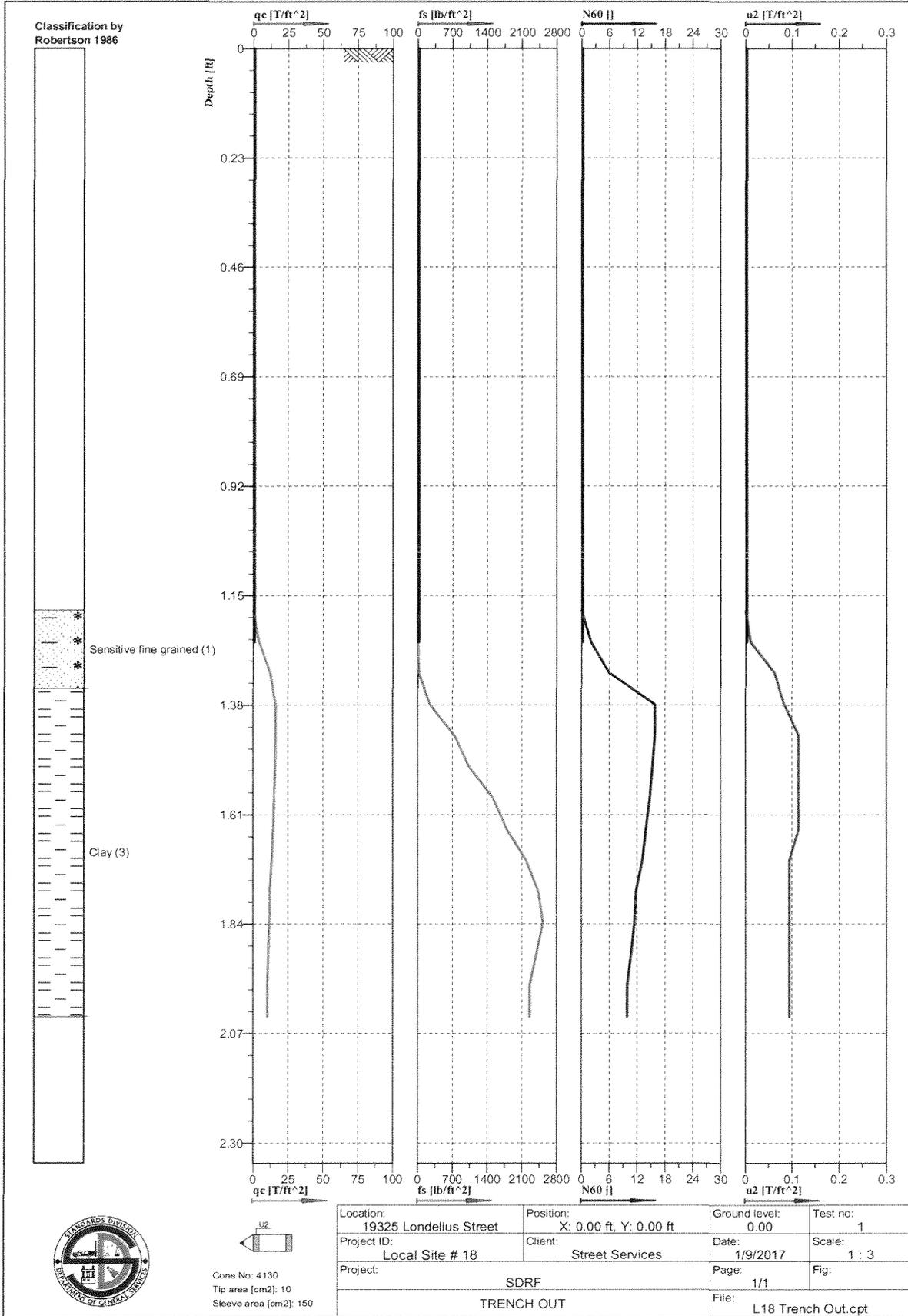


AC core thickness was obtained to be in-line with the trench-out core. This boring was relocated, as close as possible to the core within the designated area, for safety purposes.

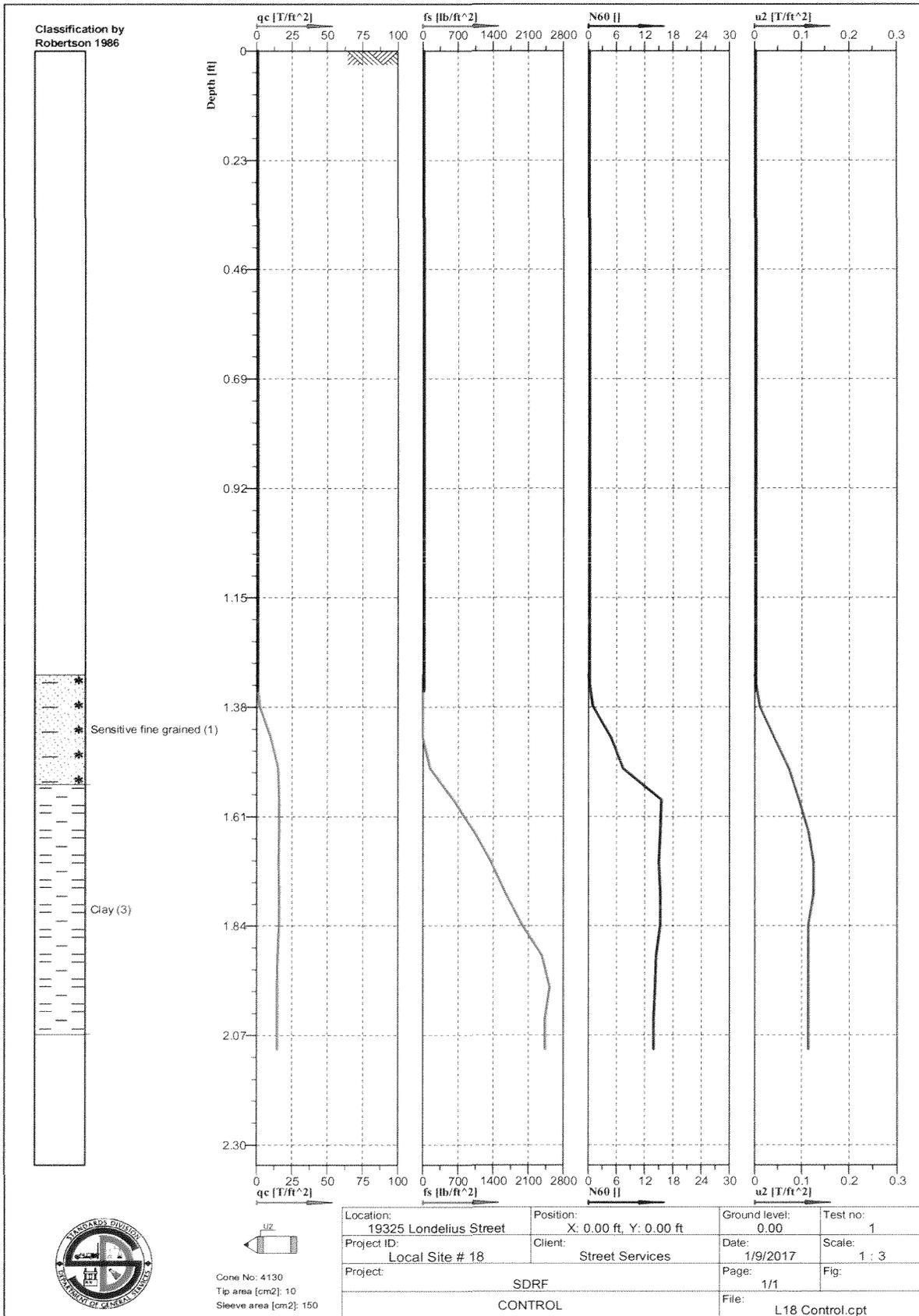
Lab No.: 17-741-070



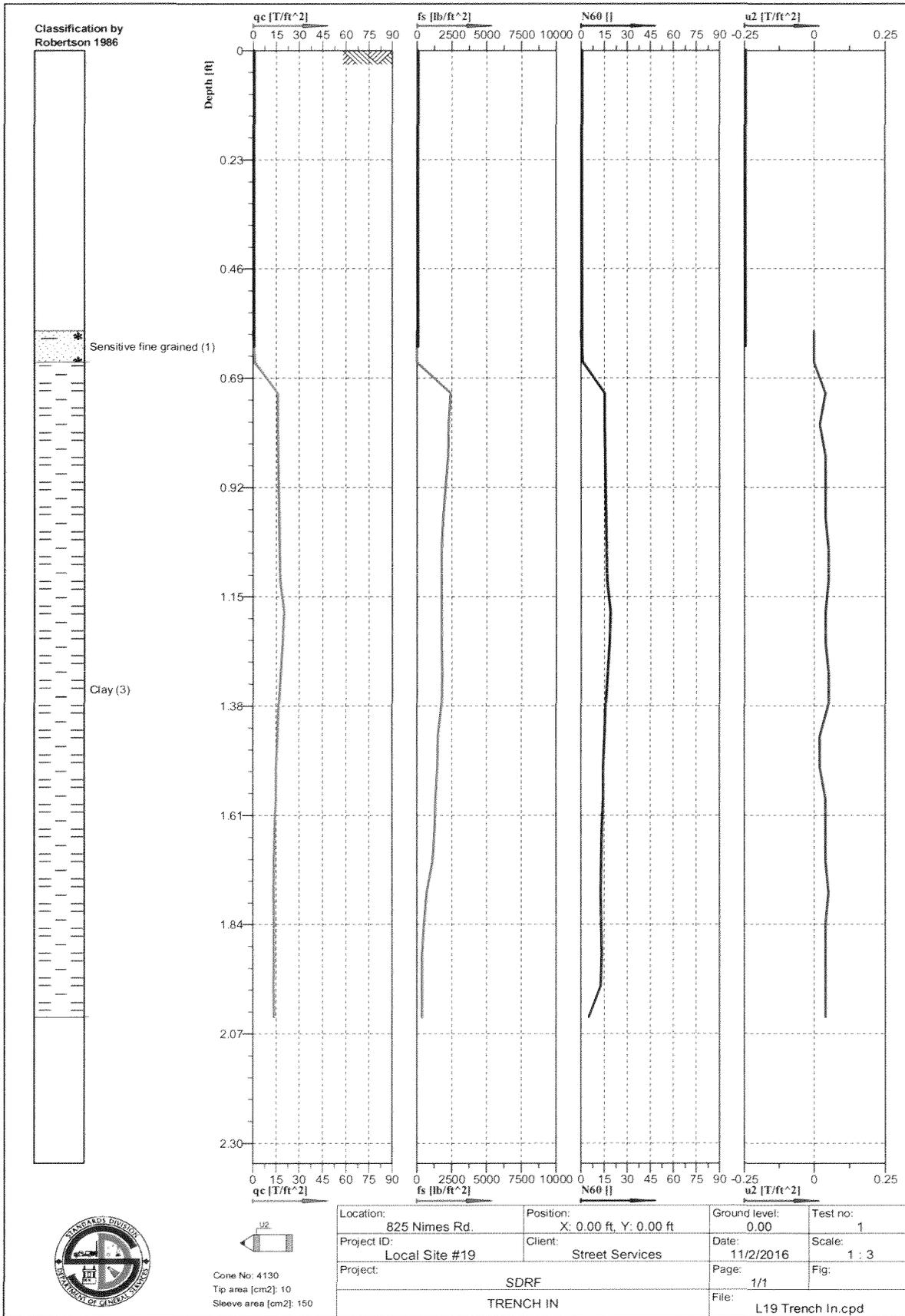
Lab No.: 17-741-071



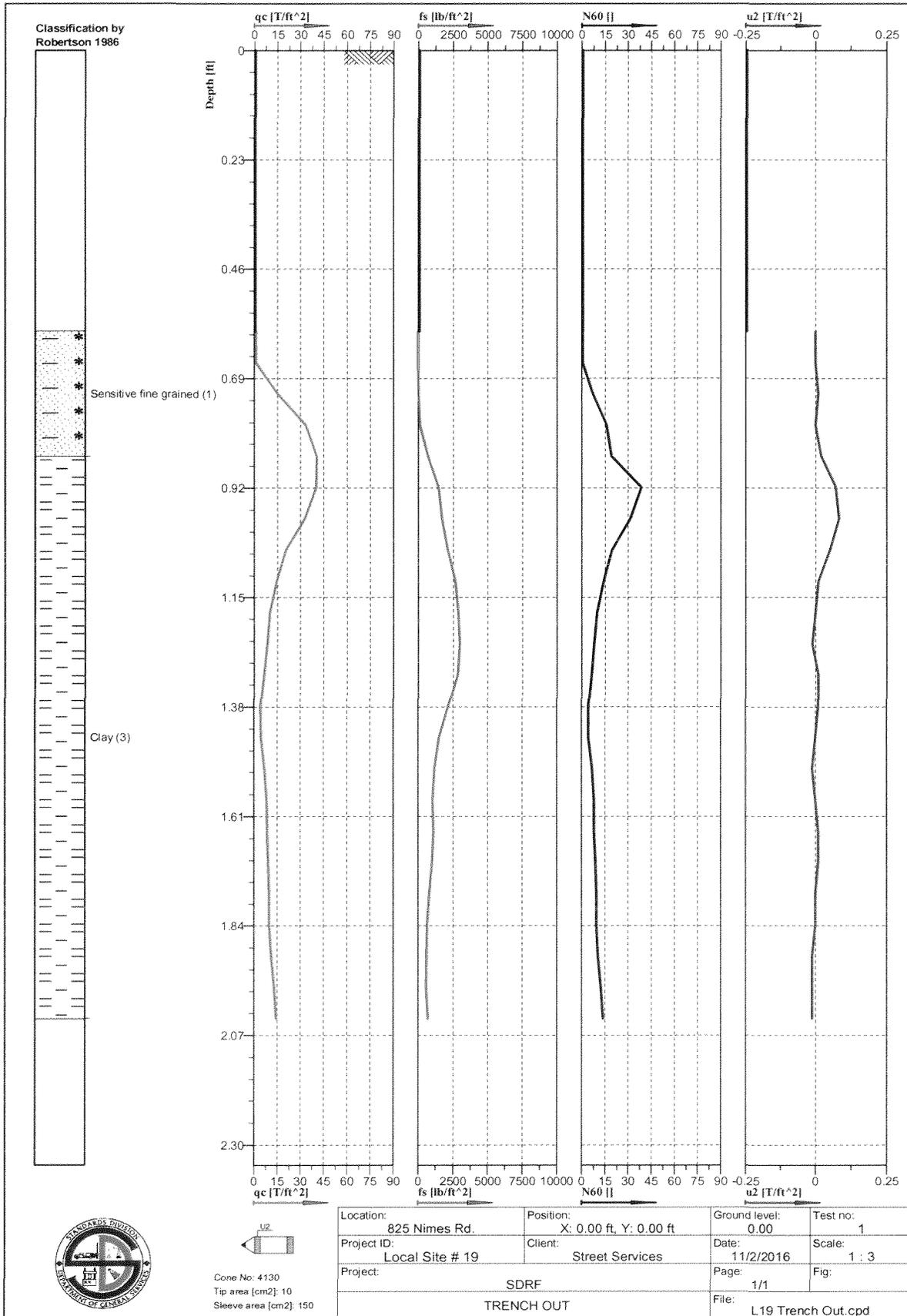
Lab No.: 17-741-072



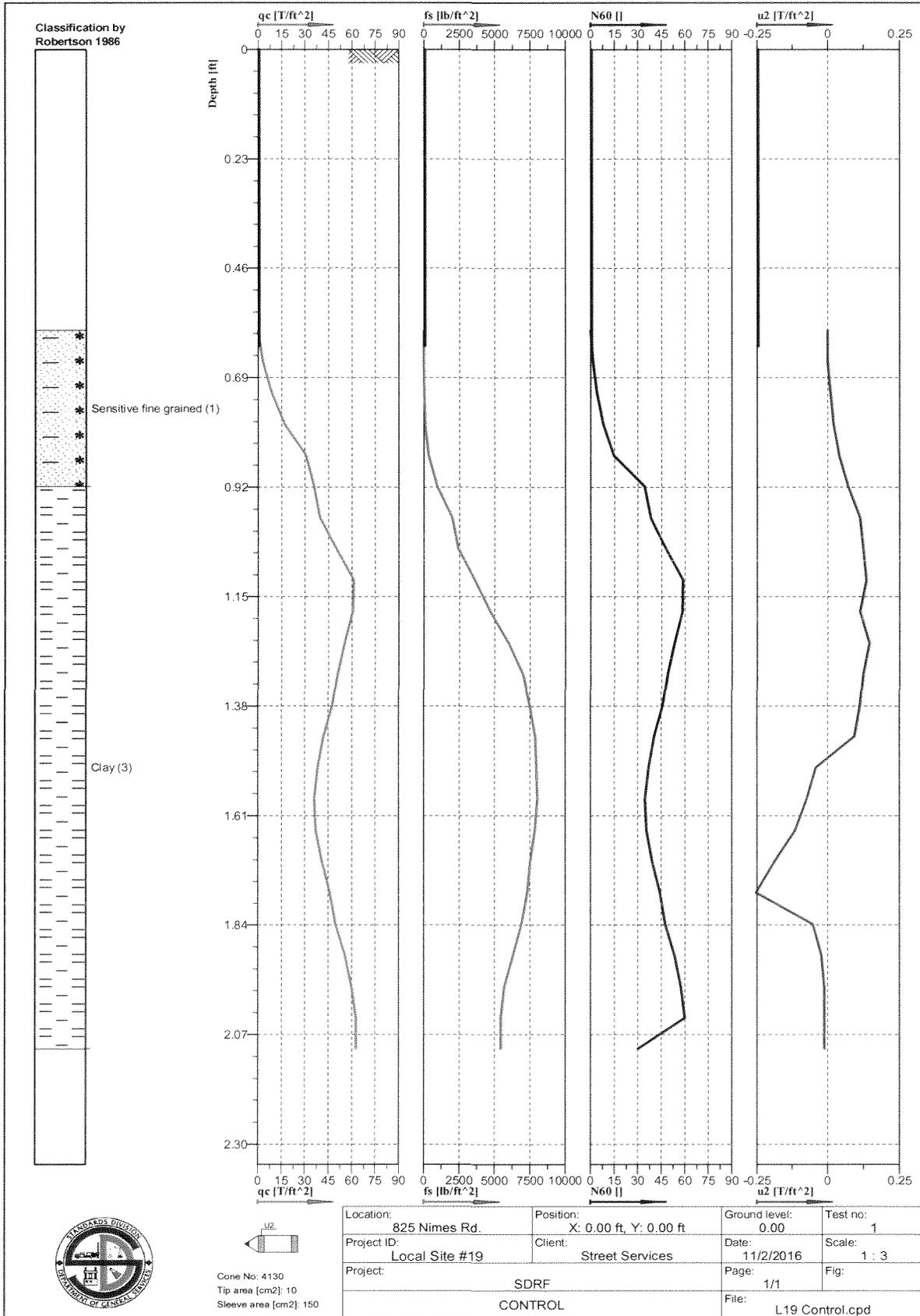
Lab No.: 17-741-073

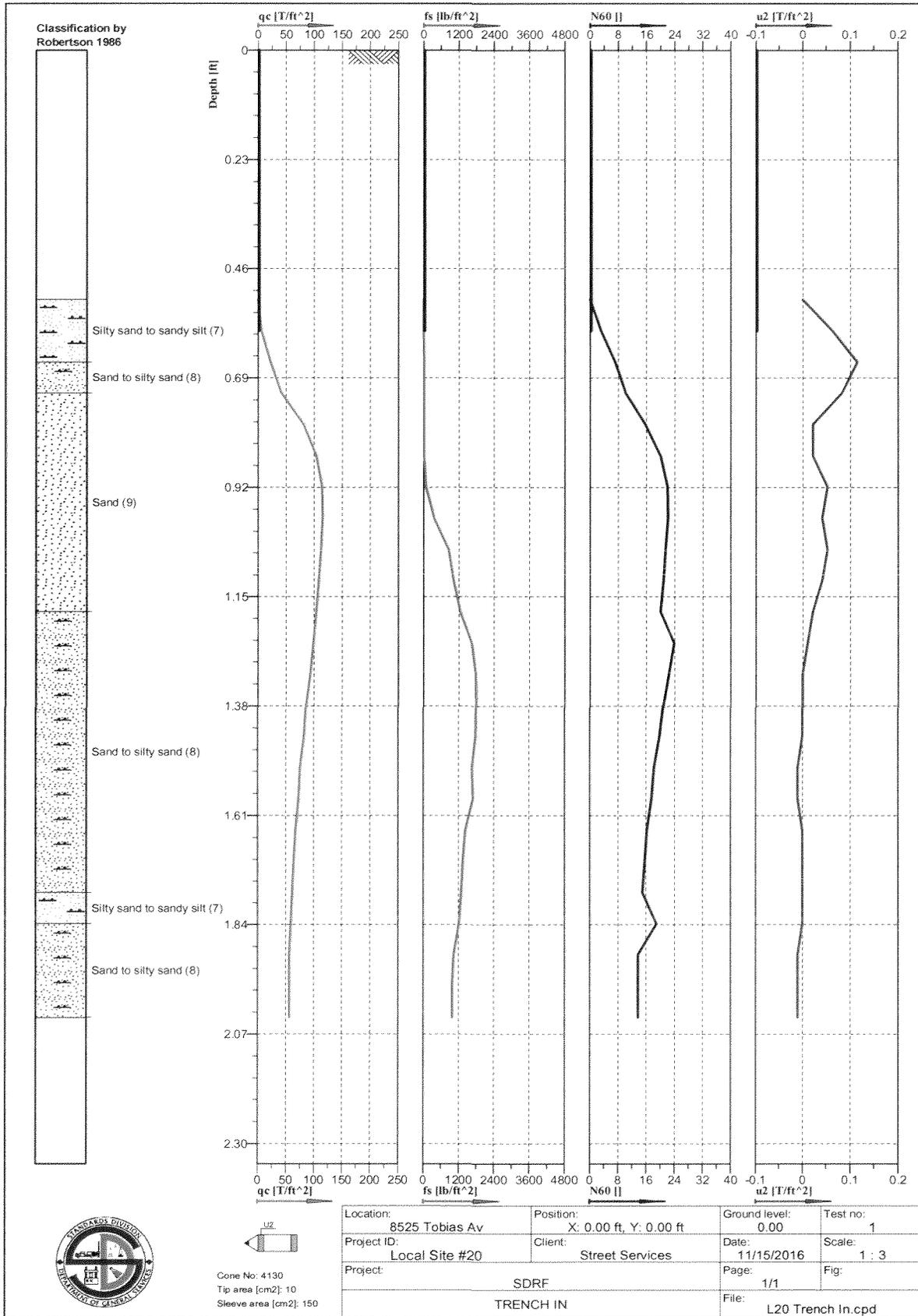


Lab No.: 17-741-074



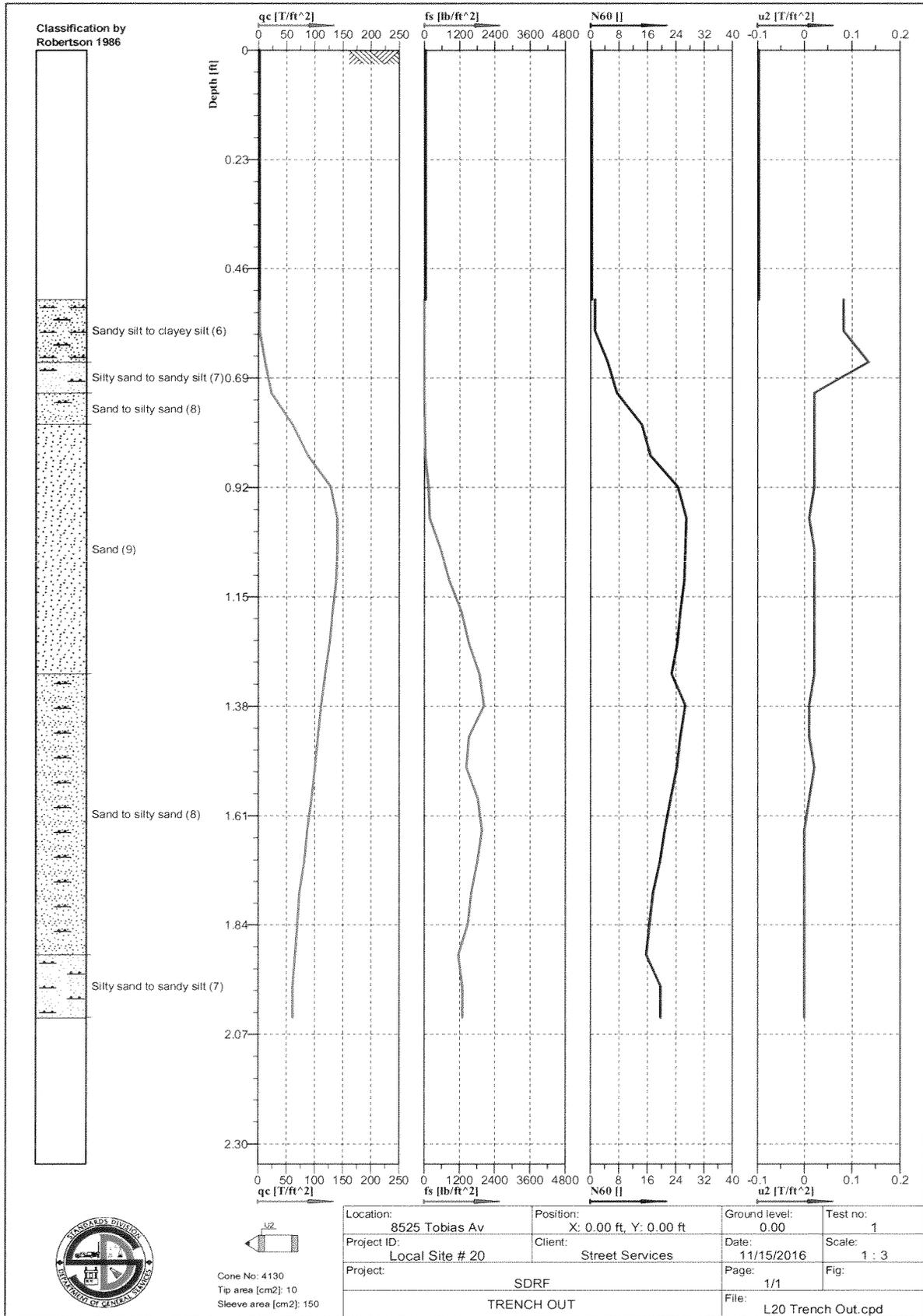
Lab No.: 17-741-075



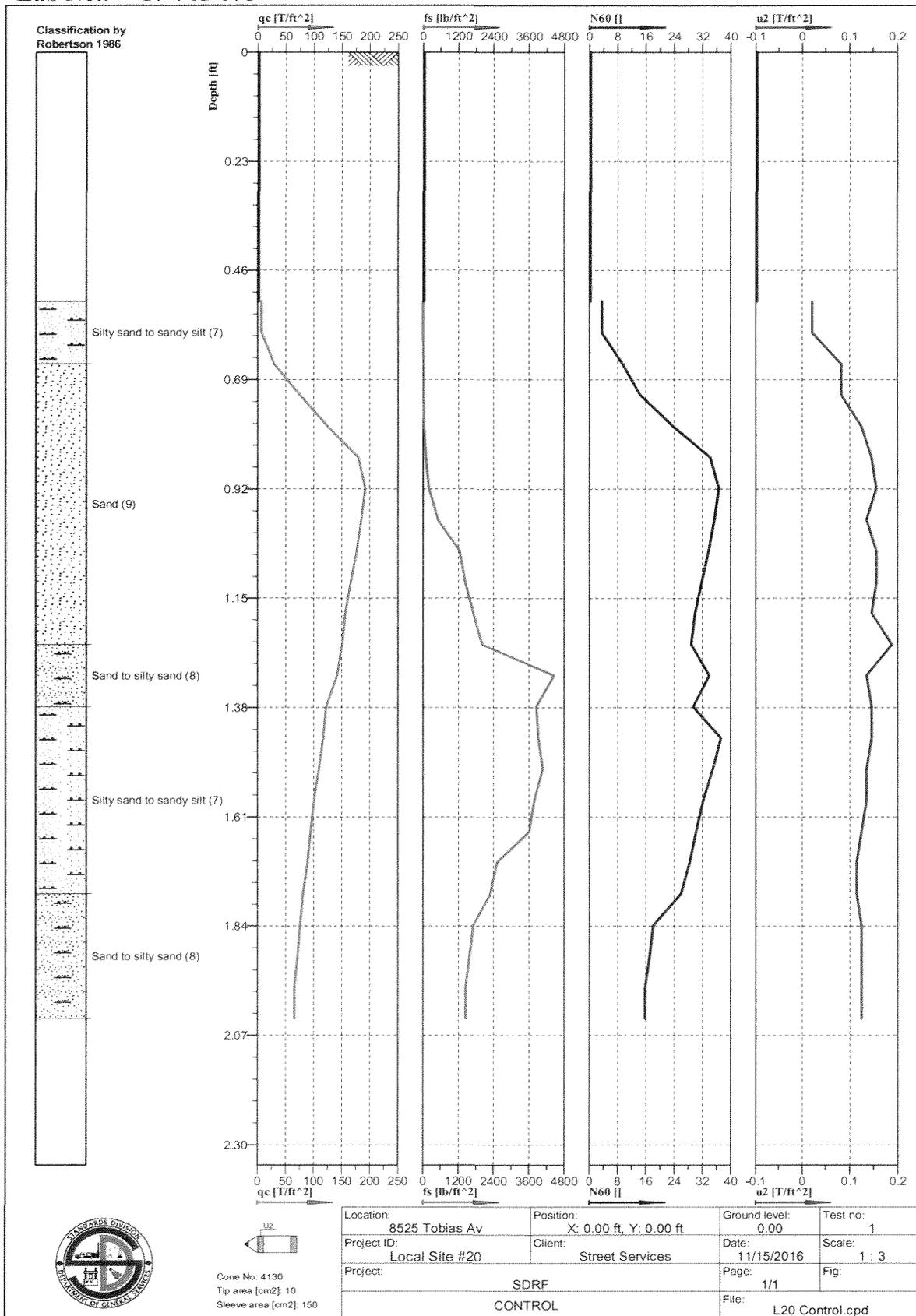


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Lab No.: 17-741-077



Lab No.: 17-741-078



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 8525 Tobias Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site #20	Client: Street Services	Date: 11/15/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1
CONTROL		File: L20 Control.cpd	

Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

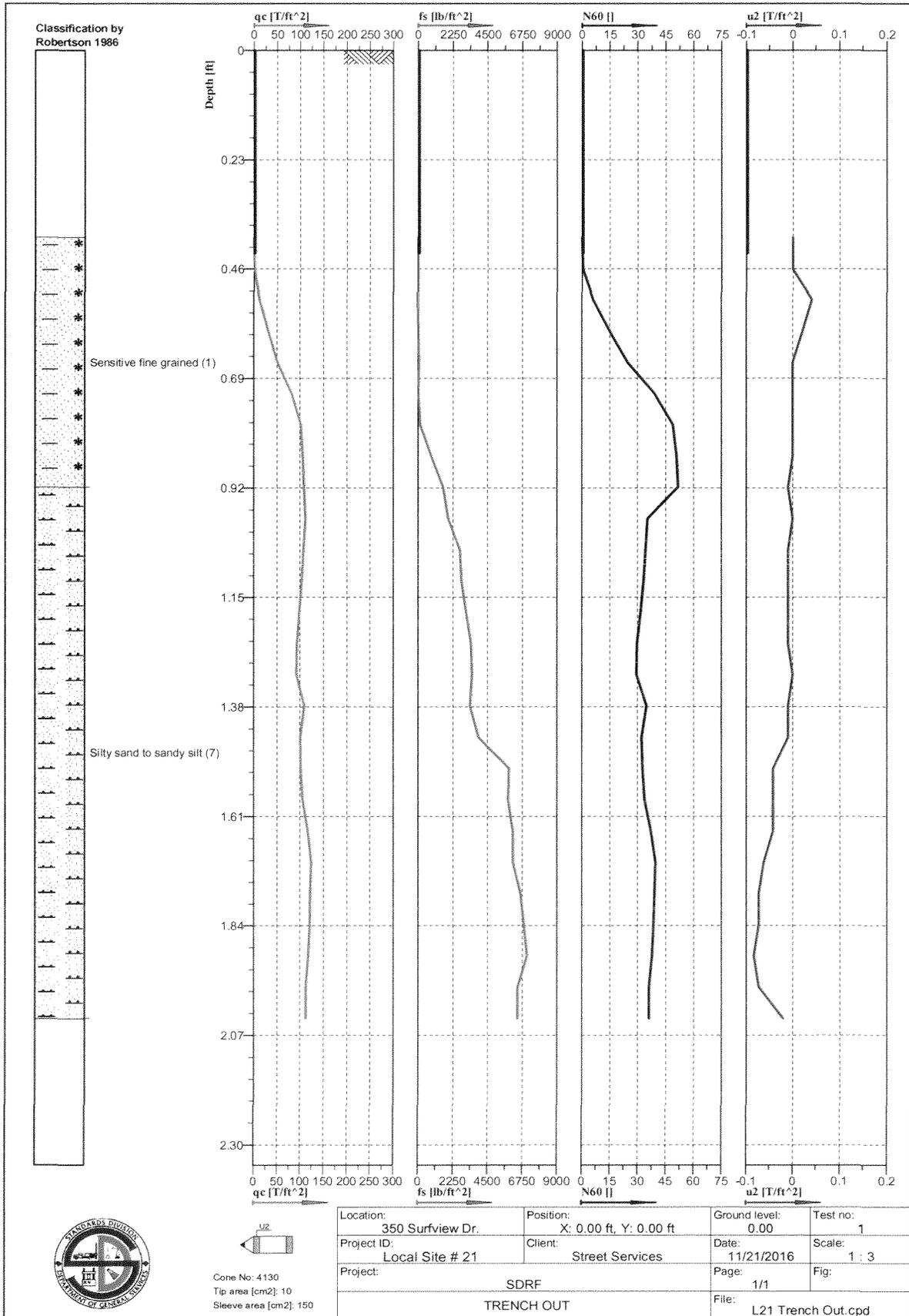
Asphalt thickness = 5.0”.



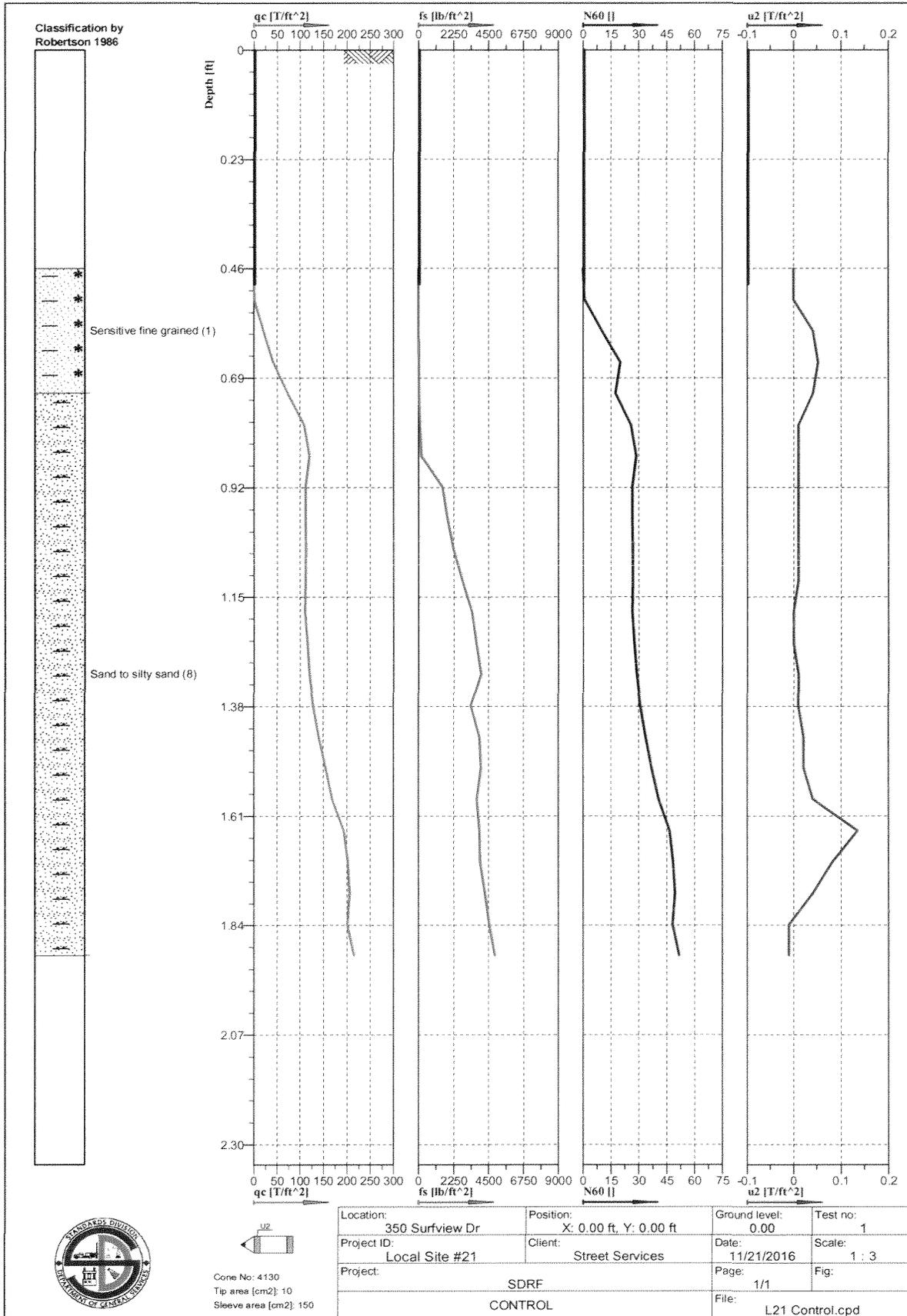
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

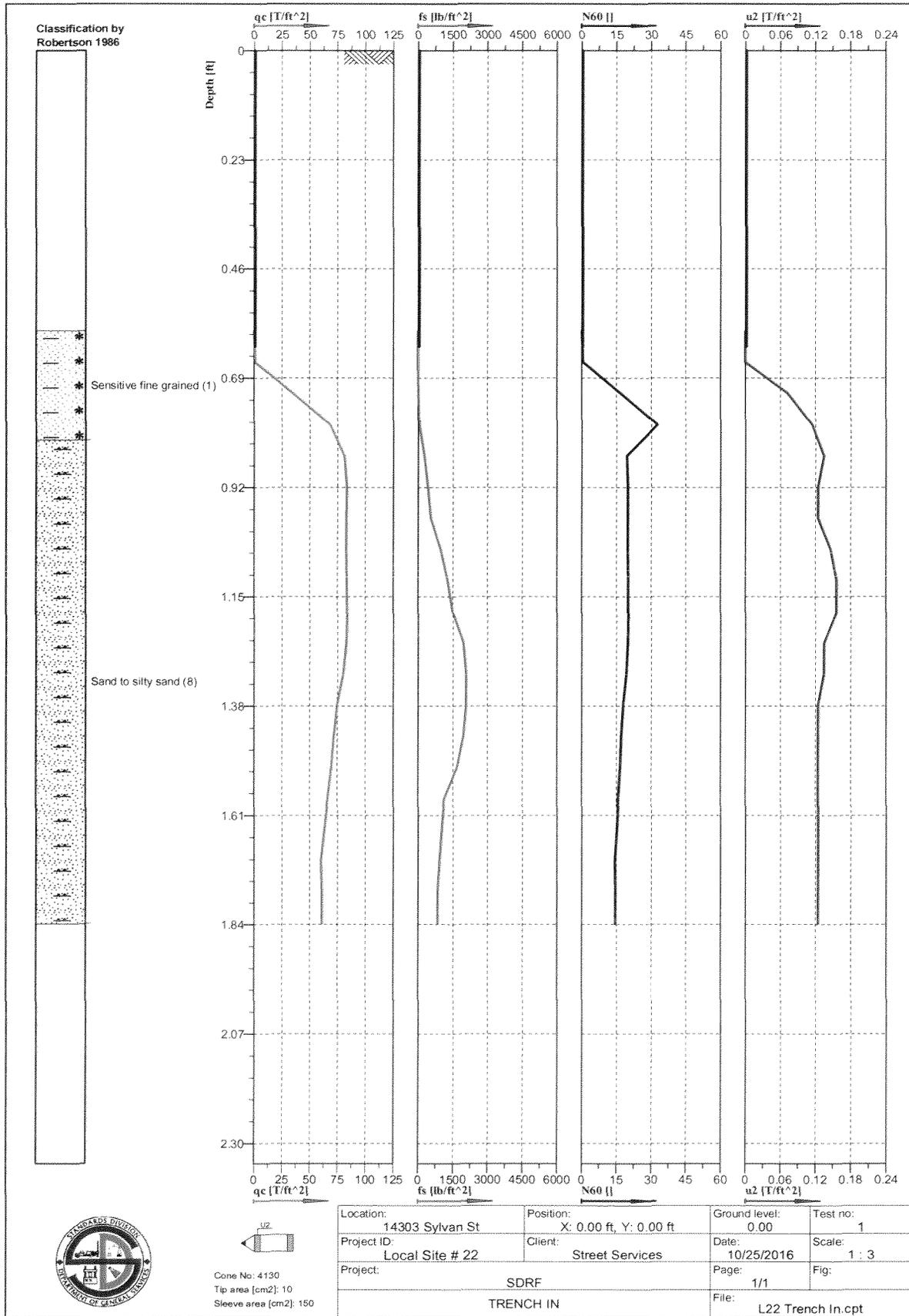
Location:	350 Surfview Dr	Position:	X: 0.00 ft, Y: 0.00 ft	Ground level:	0.00	Test no:	1
Project ID:	Local Site #21	Client:	Street Services	Date:	11/21/2016	Scale:	1 : 3
Project:	SDRF			Page:	1/1	Fig:	
	TRENCH IN			File:	L21 Trench In.cpd		

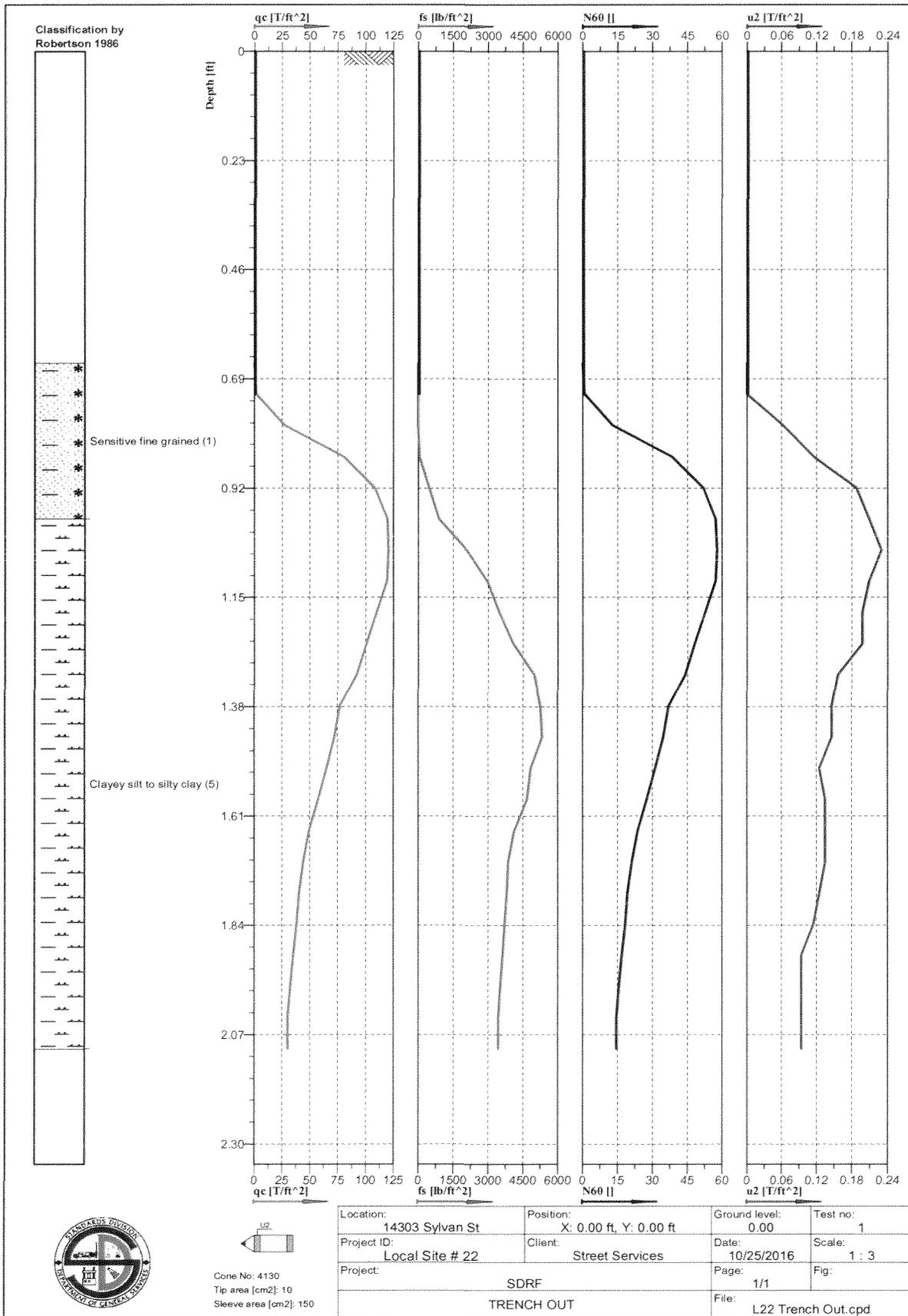
Lab No.: 17-741-080



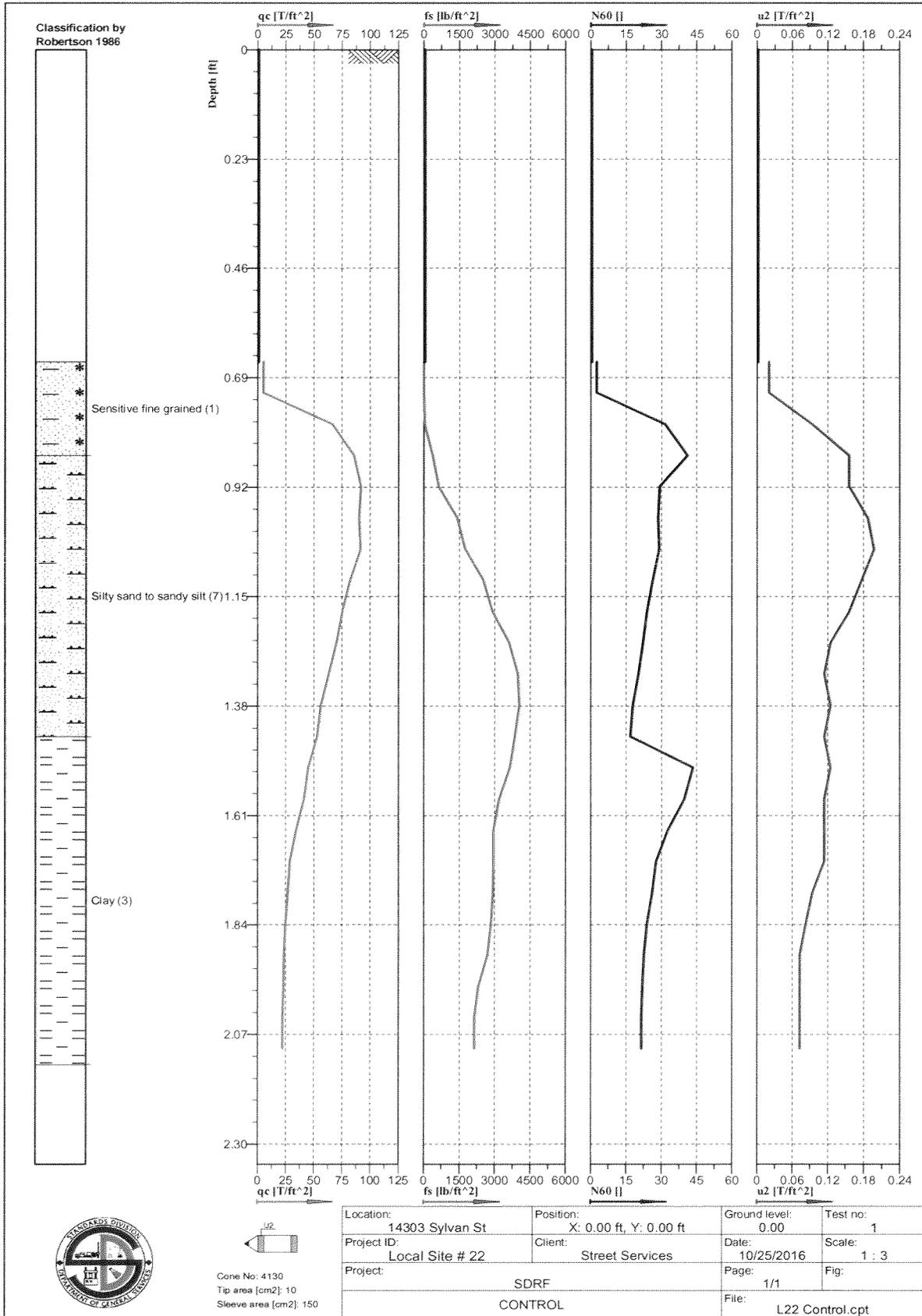
Lab No.: 17-741-081



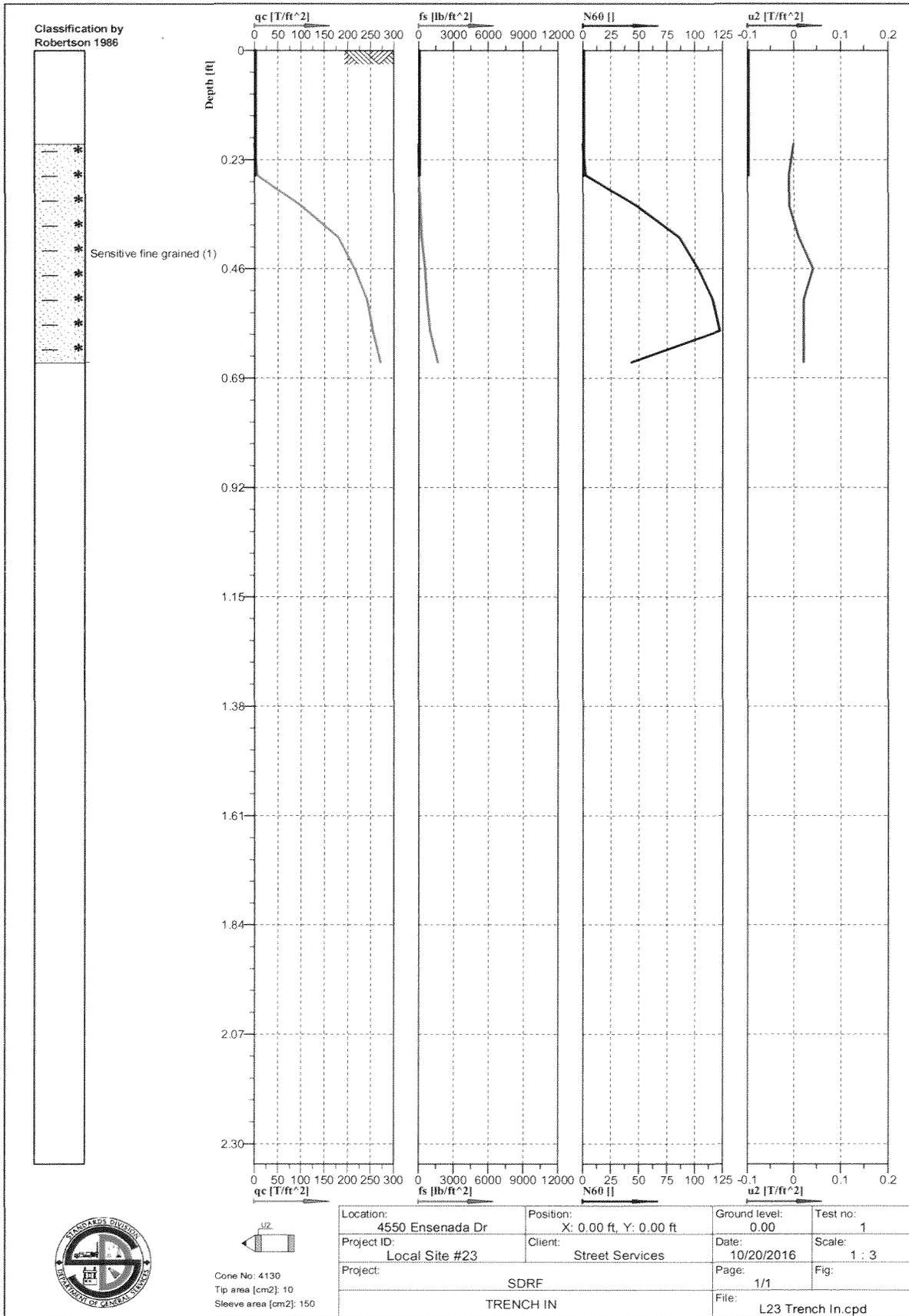


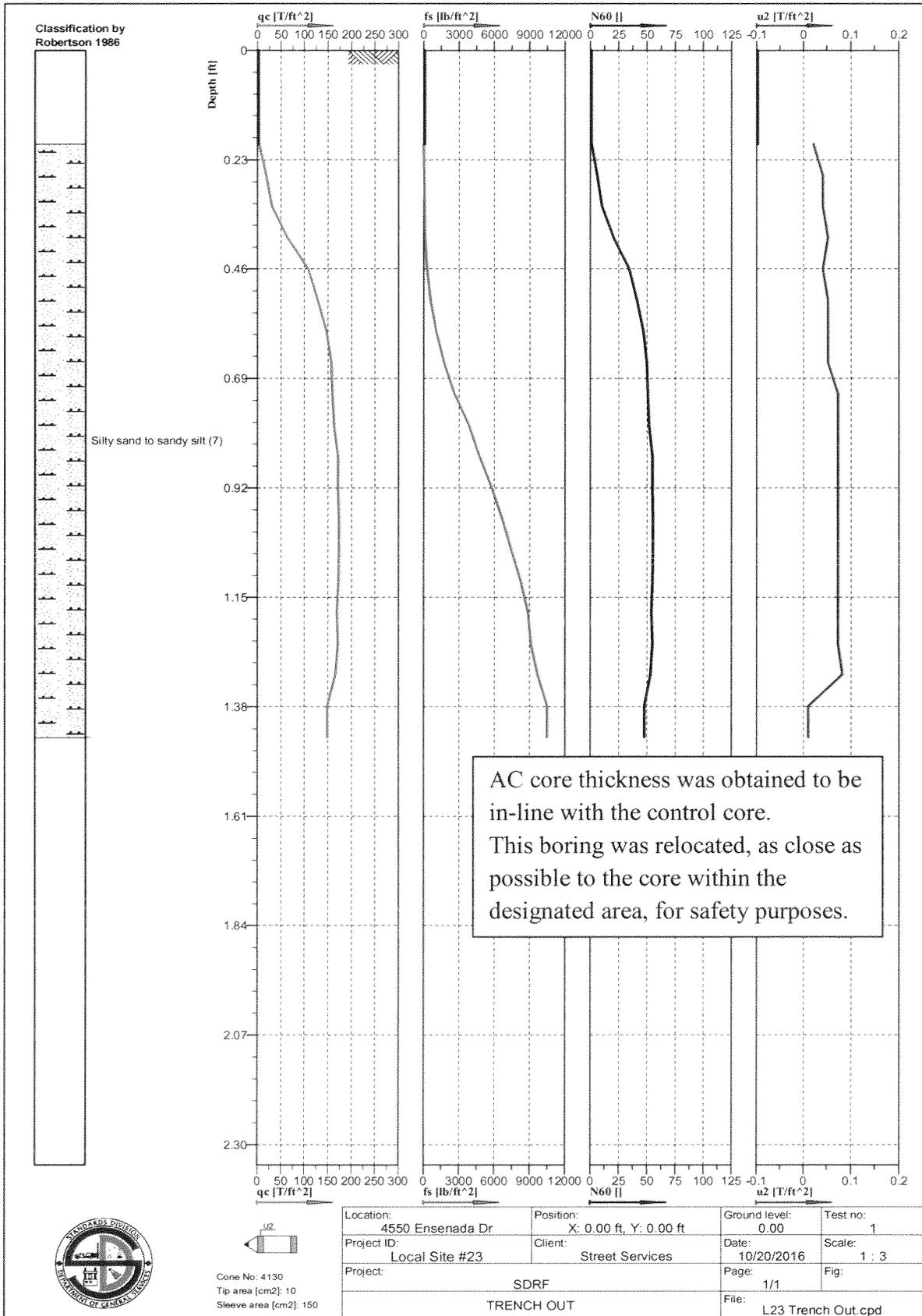


Lab No.: 17-741-084

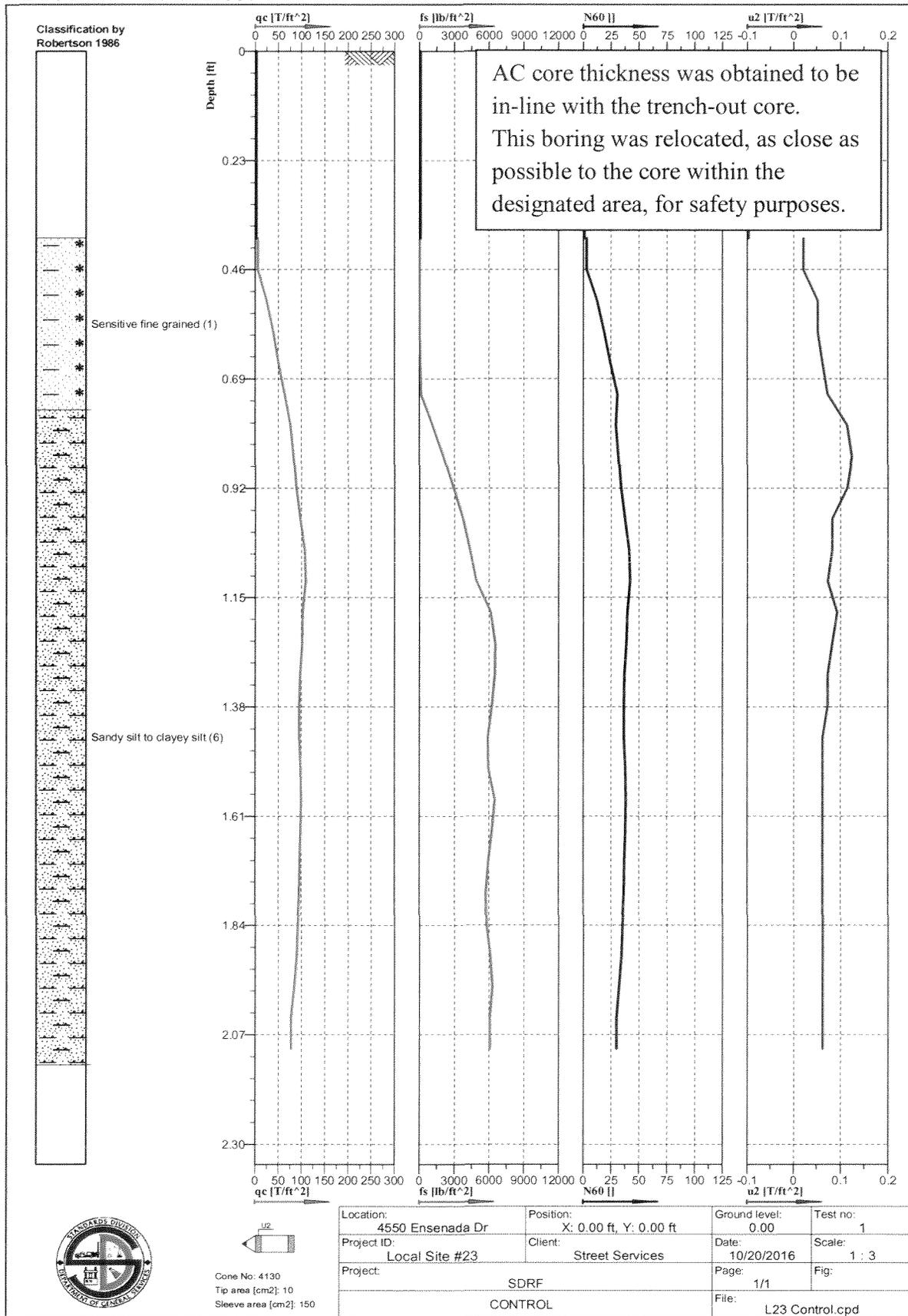


Lab No.: 17-741-085

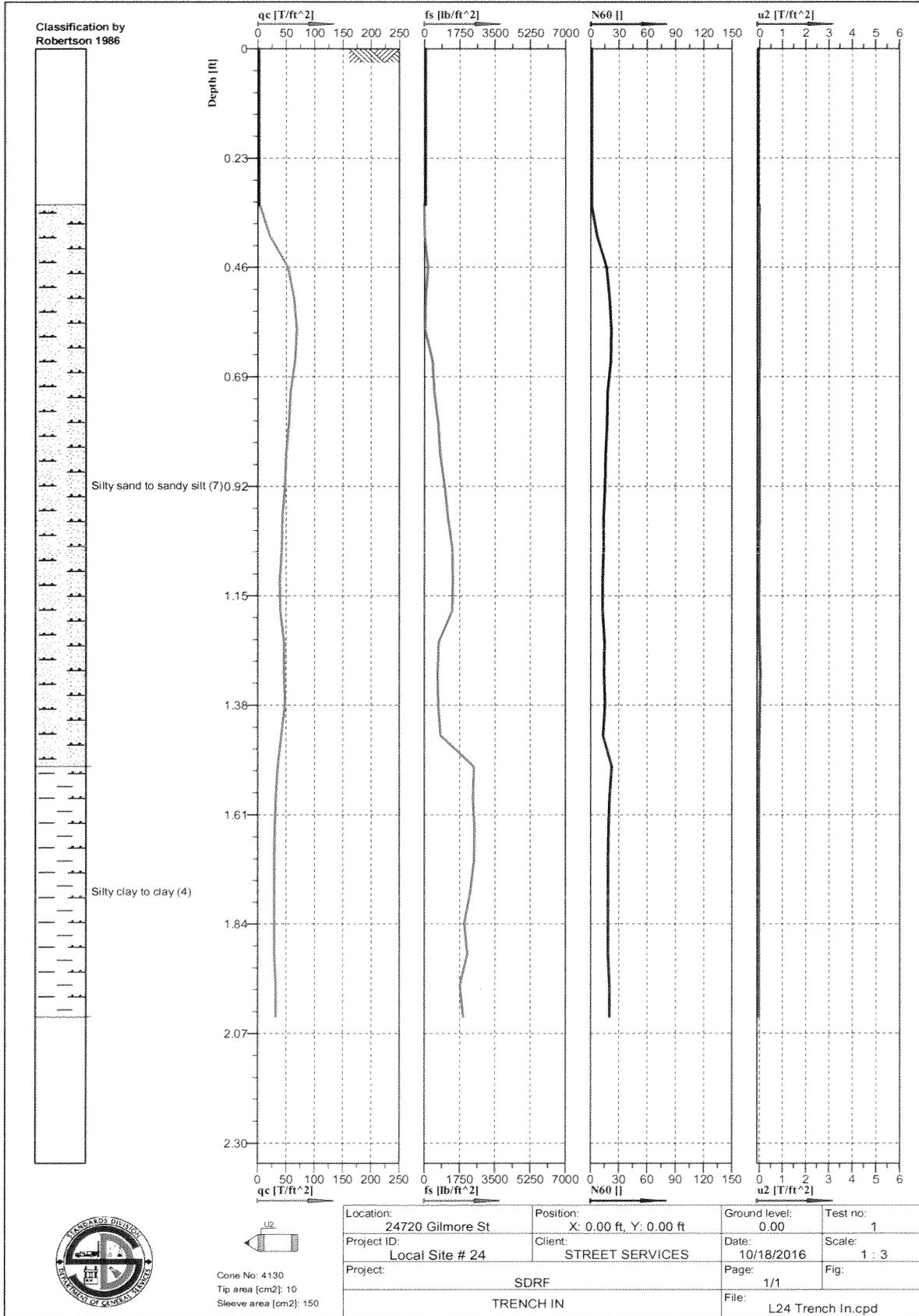




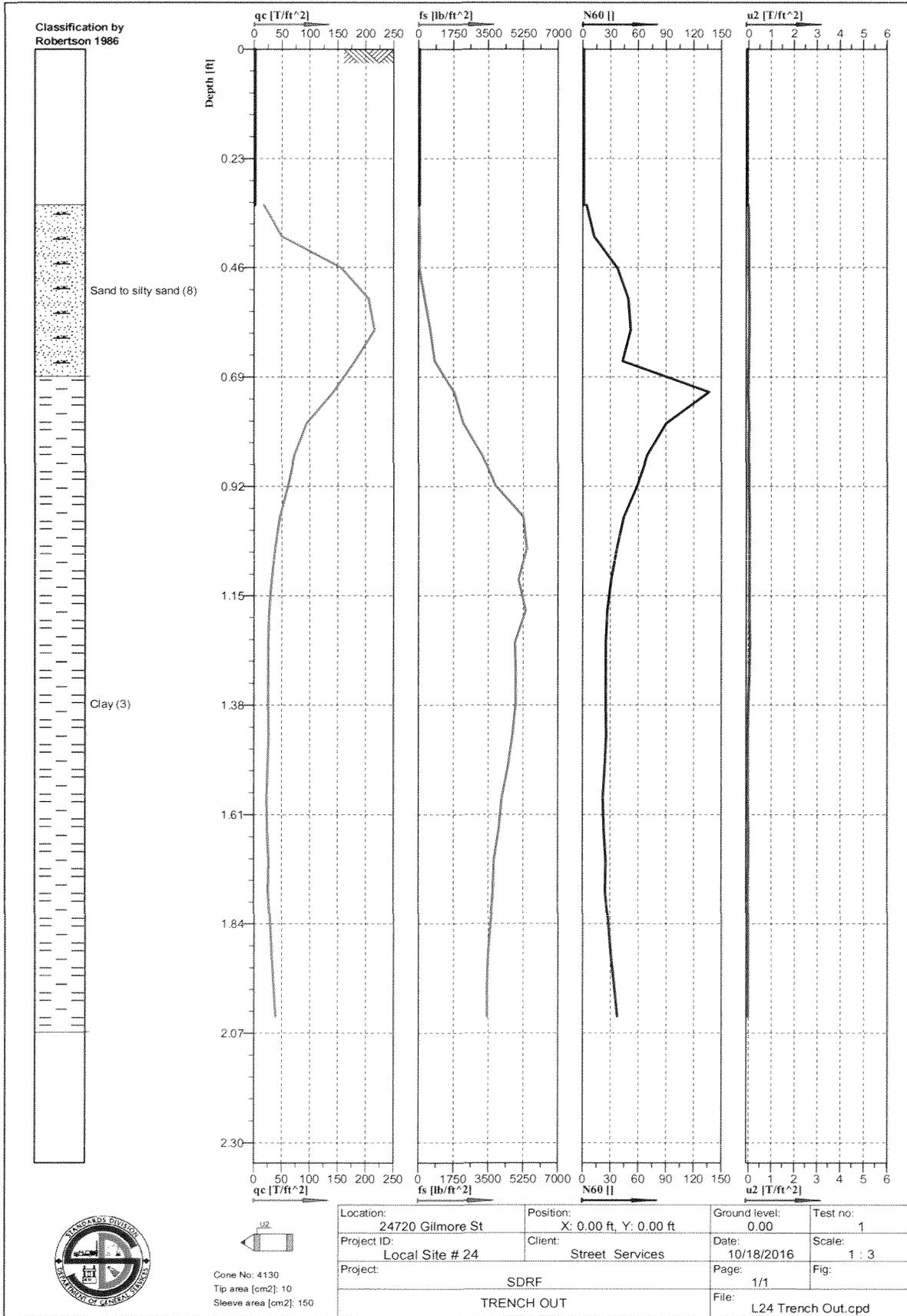
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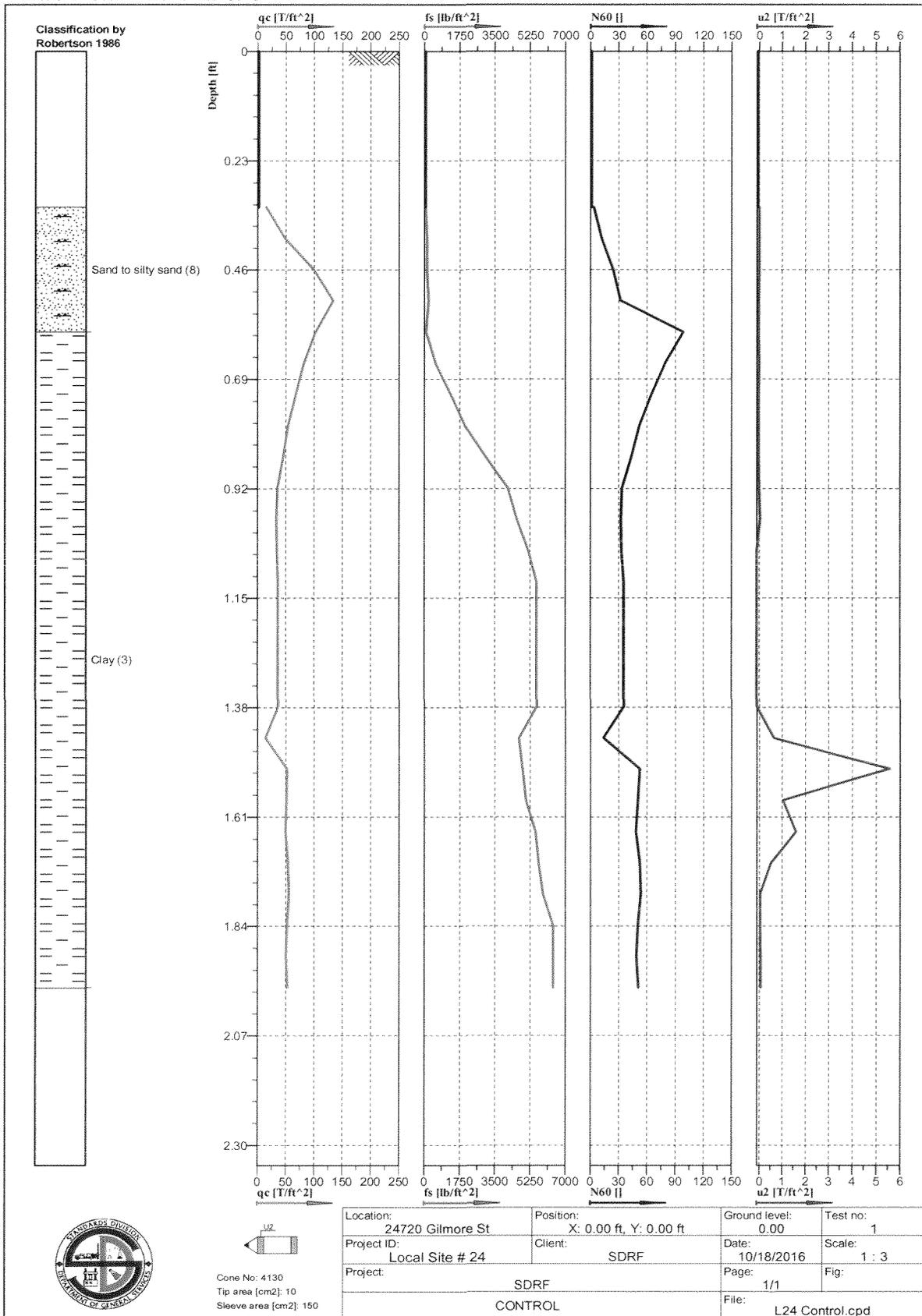
Lab No.: 17-741-088



Lab No.: 17-741-089



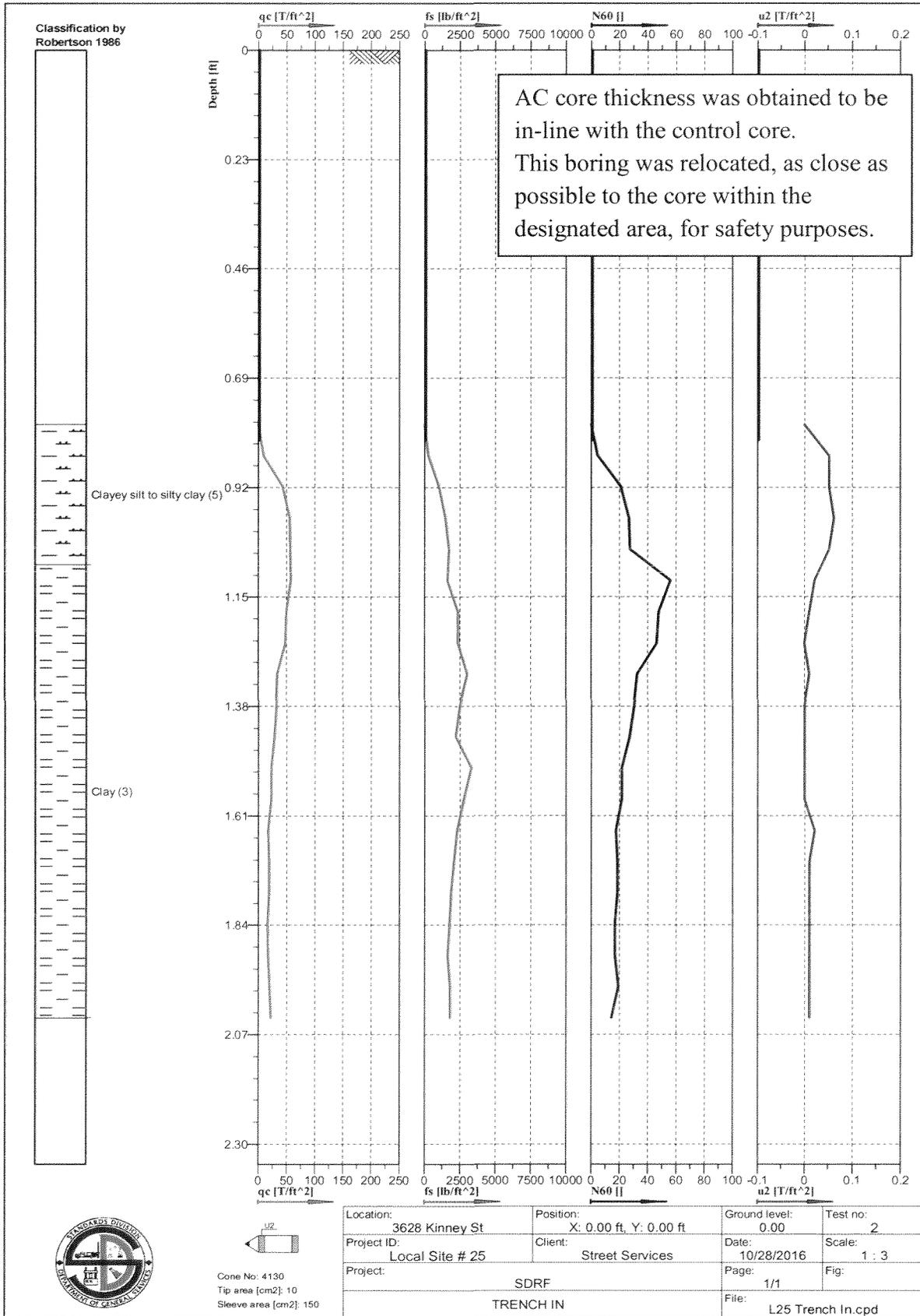
Lab No.: 17-741-090

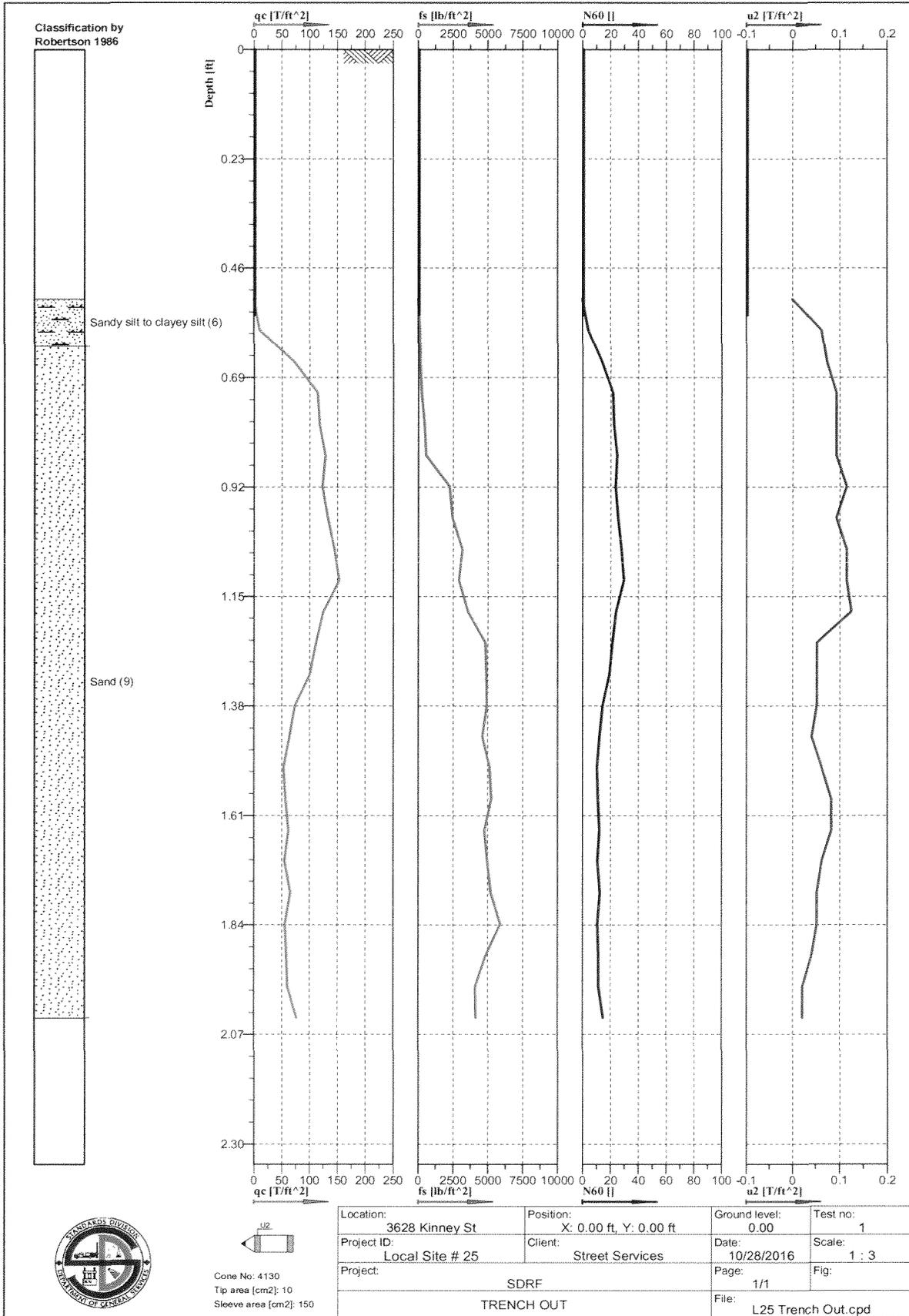


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

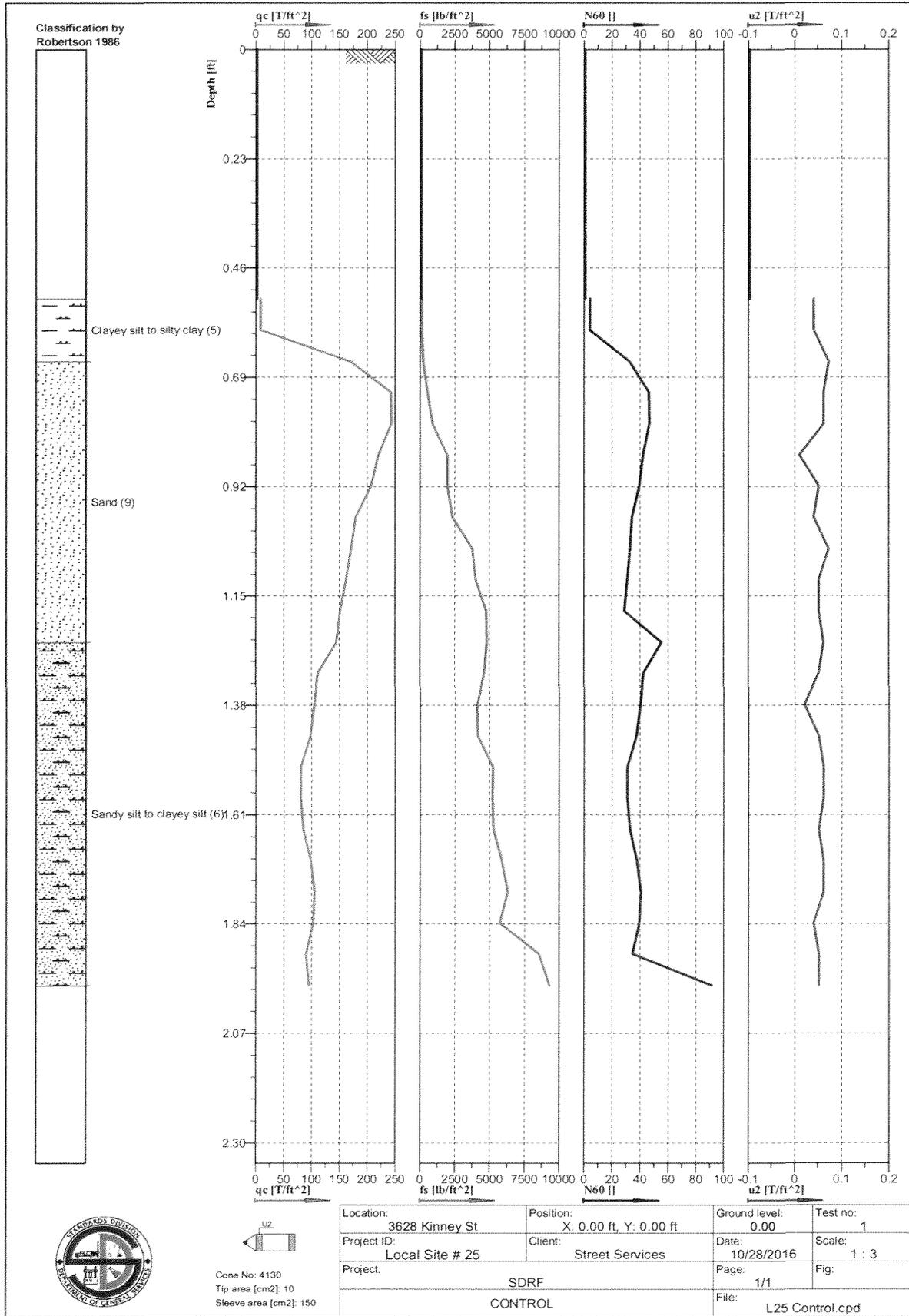
Location: 24720 Gilmore St	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 24	Client: SDRF	Date: 10/18/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: L24 Control.cpd	

Lab No.: 17-741-091





Lab No.: 17-741-093



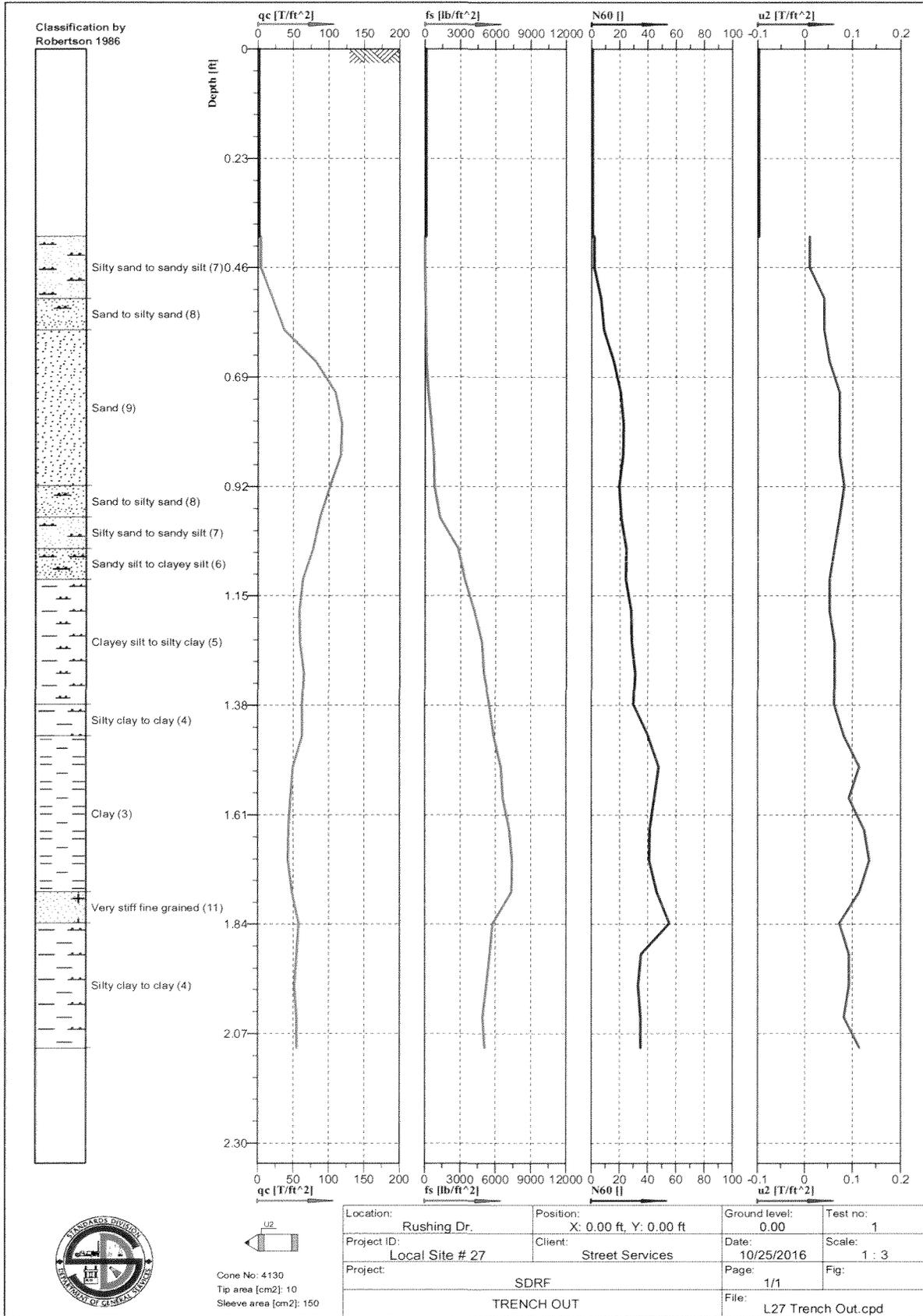
Trench is too narrow. Penetration not allowed. No CPTU performed.
 Asphalt thickness = 3.8".



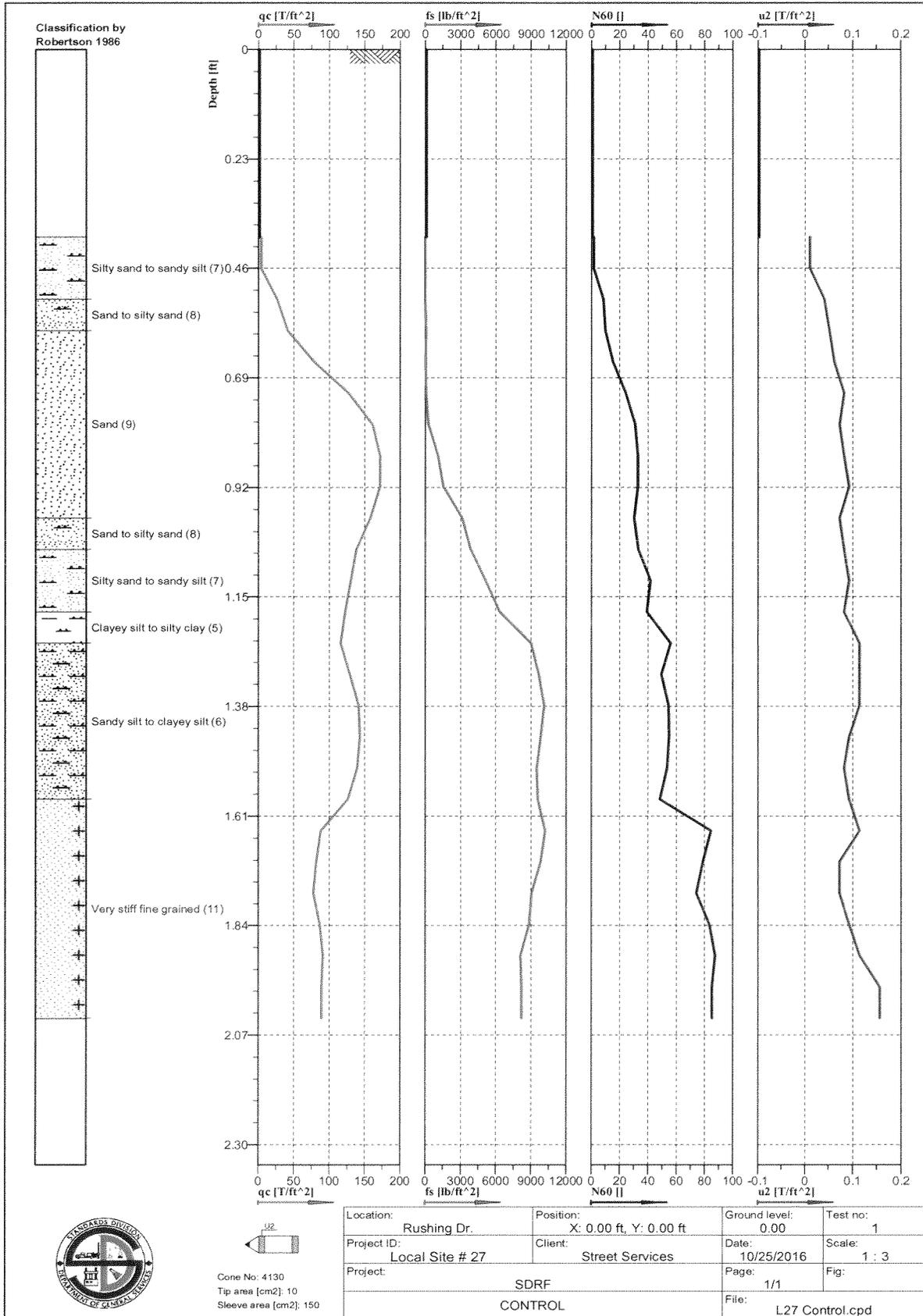
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: Rushing Dr	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 27	Client: Street Services	Date: 10/25/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: L27 Trench In.cpt	

Lab No.: 17-741-095



Lab No.: 17-741-096



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: Rushing Dr.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 27	Client: Street Services	Date: 10/25/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: L27 Control.cpd	

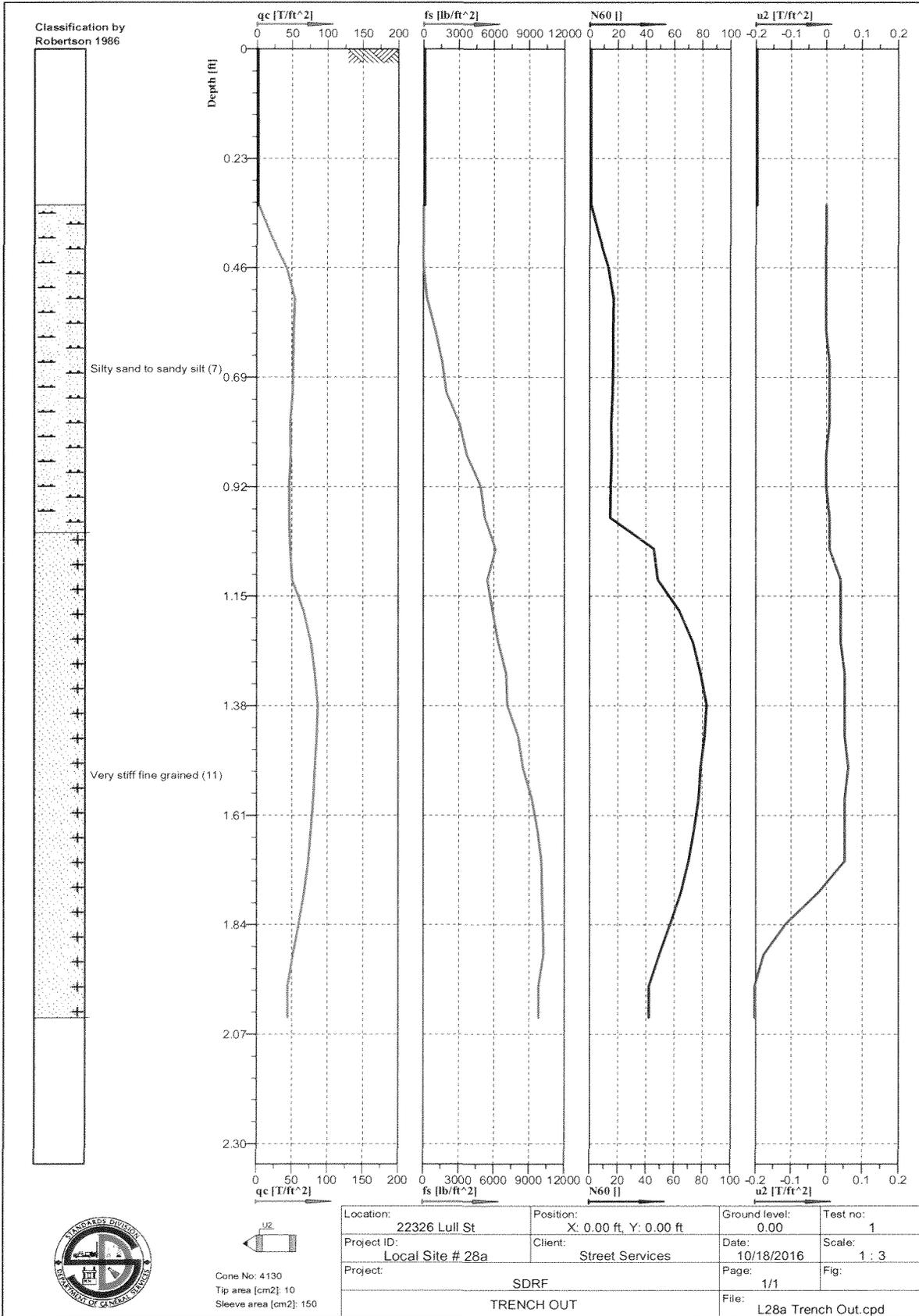
Trench is too narrow. Penetration not allowed. No CPTU performed.
 Asphalt thickness = 1.2”.



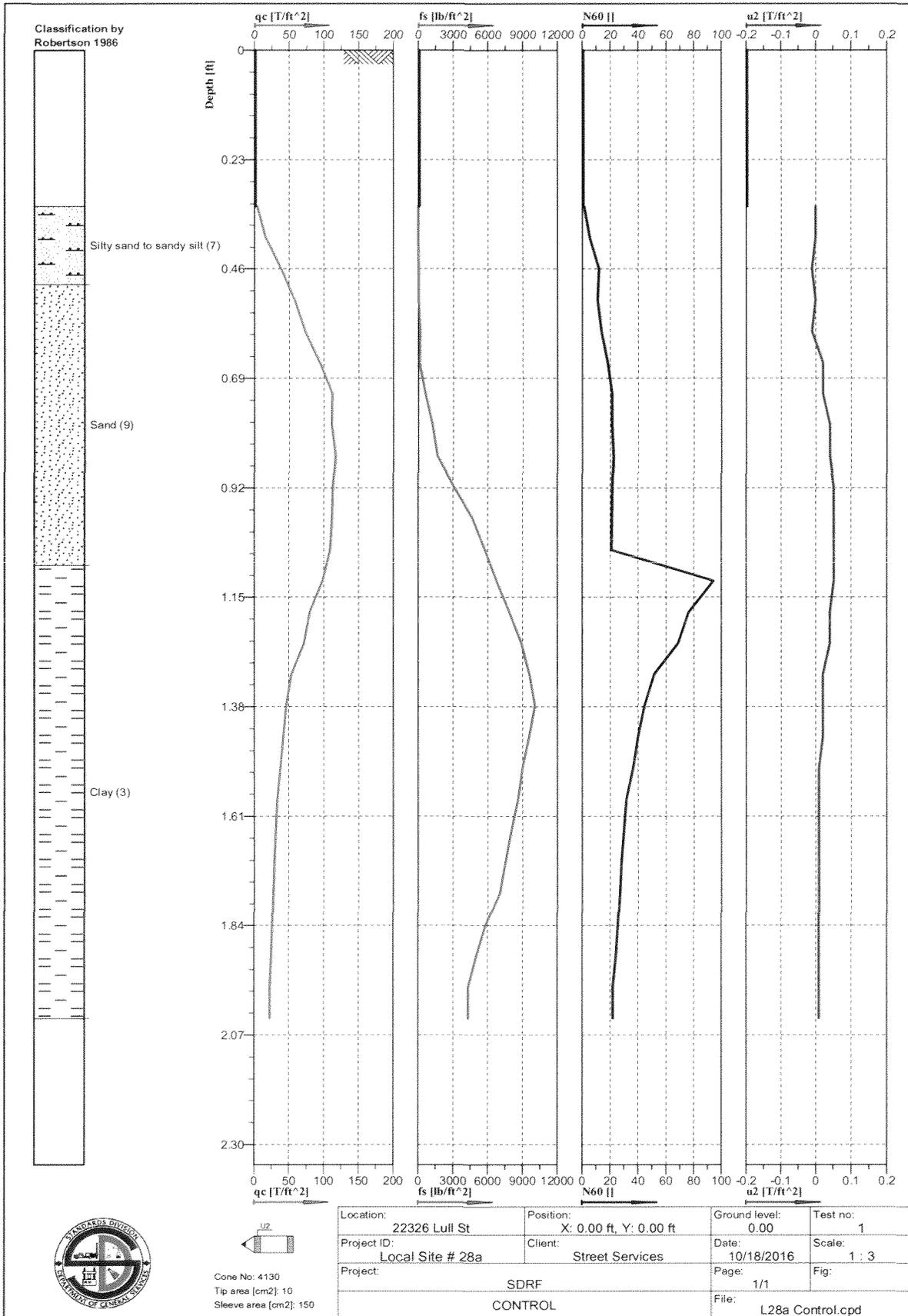
Cone No: 4130
 Tip area [cm2]: 10
 Sleeve area [cm2]: 150

Location: 22326 Lull St	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 28a	Client: Street Services	Date: 10/18/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: L28a Trench In.cpd	

Lab No.: 17-741-098



Lab No.: 17-741-099



Lab No.: 17-741-100

Trench is too narrow. Penetration not allowed. No CPTU performed.

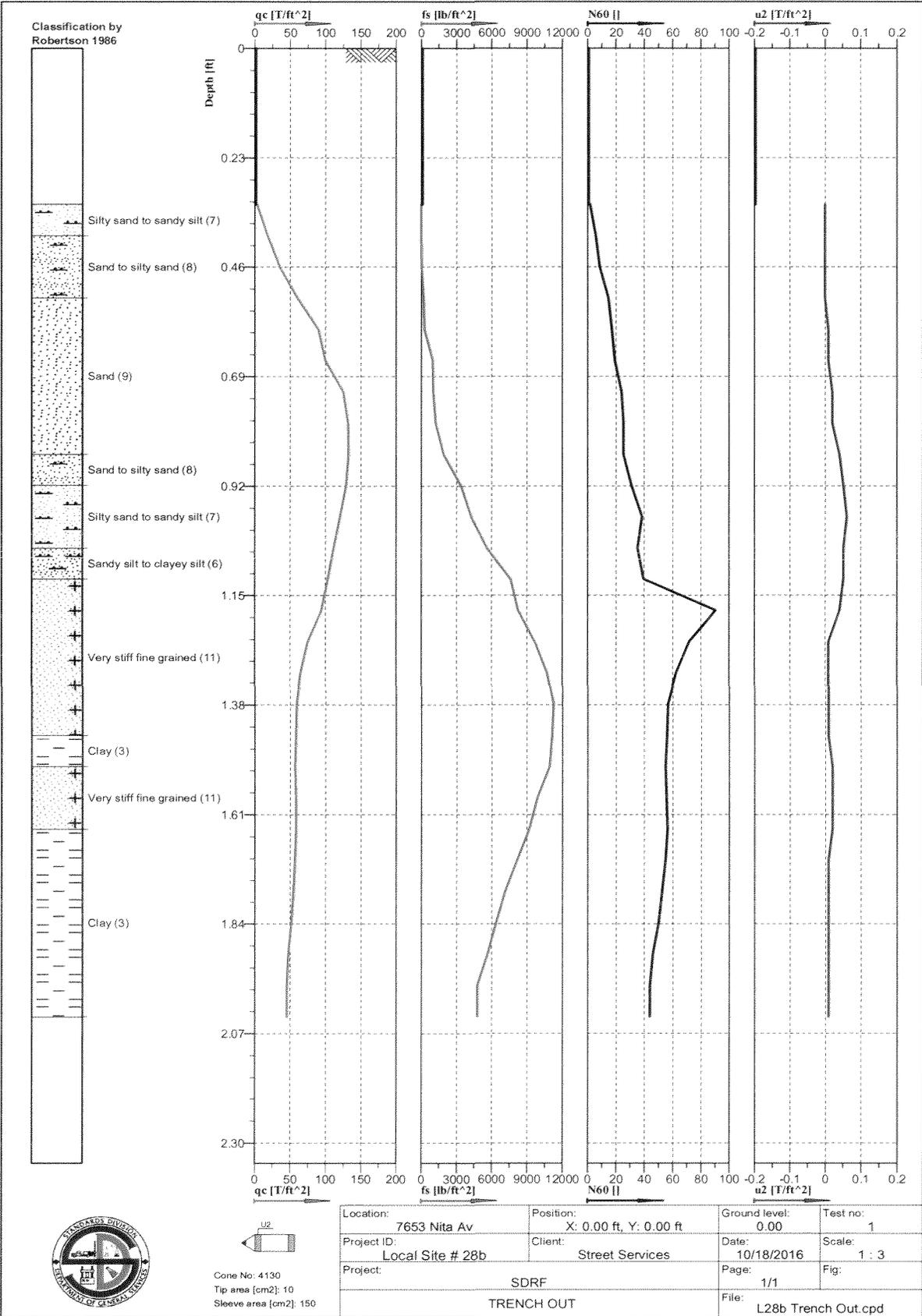
Asphalt thickness = 3.2”.



Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

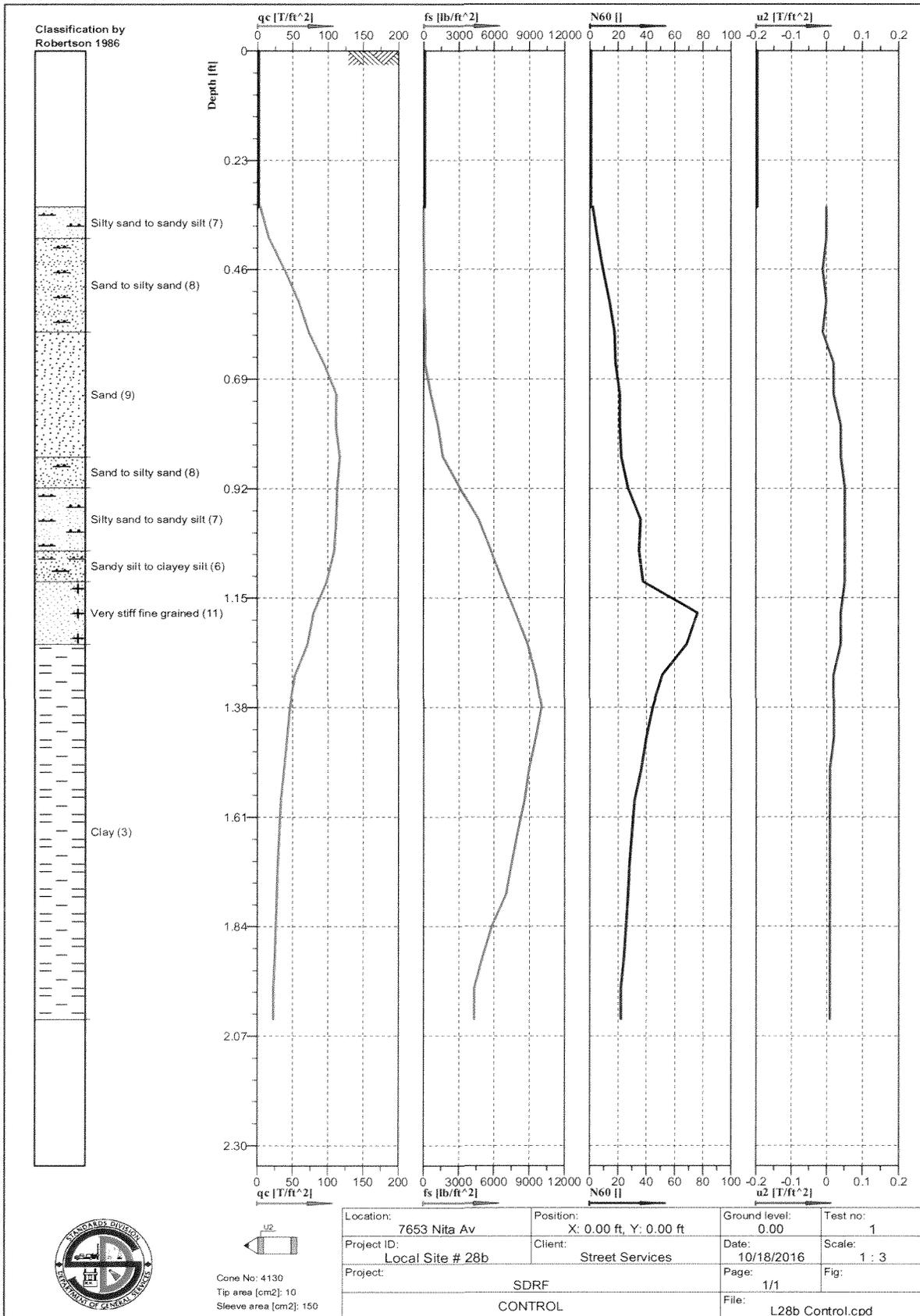
Location:	7653 Nita Av	Position:	X: 0.00 ft, Y: 0.00 ft	Ground level:	0.00	Test no:	1
Project ID:	Local Site # 28b	Client:	Street Services	Date:	10/18/2016	Scale:	1 : 3
Project:	SDRF			Page:	1/1	Fig:	
	TRENCH IN			File:	L28b Trench In.cpd		

Lab No.: 17-741-101



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 7653 Nita Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 28b	Client: Street Services	Date: 10/18/2016	Scale: 1 : 3
Project: SDRF	TRENCH OUT	Page: 1/1	Fig:
		File: L28b Trench Out.cpd	



Lab No.: 17-741-103

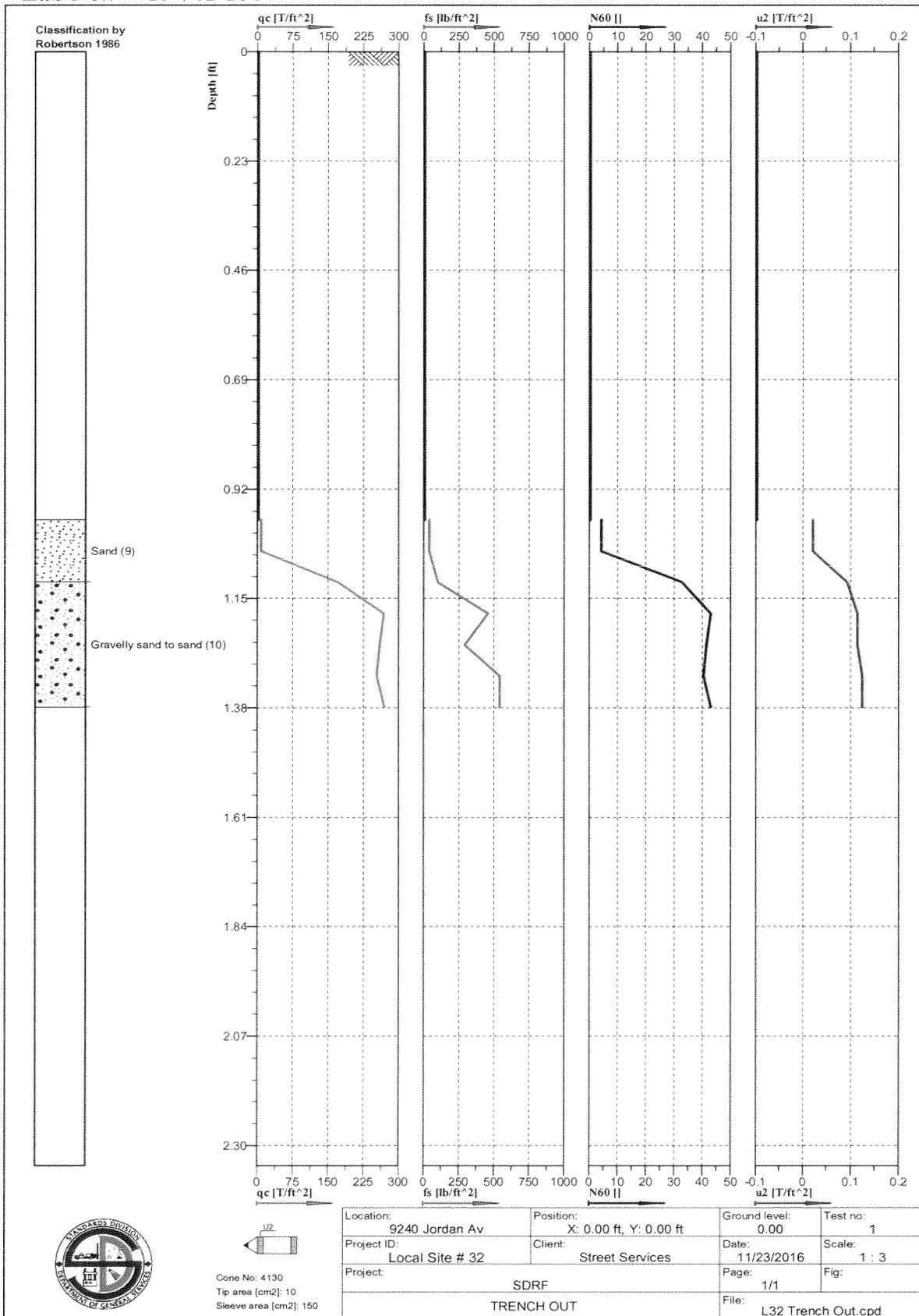
Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

Asphalt thickness = 4.0”.

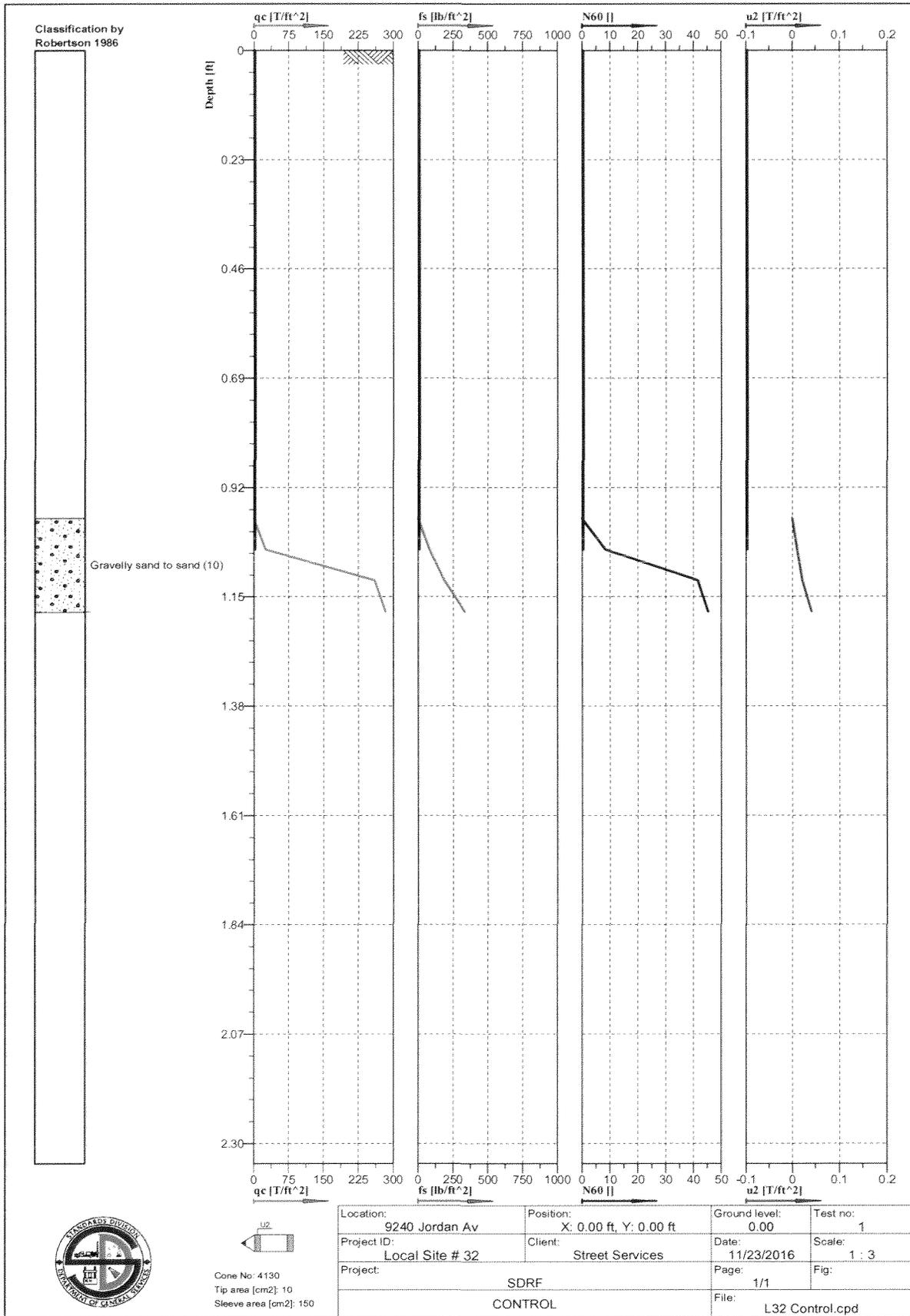


Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	9240 Jordan Av	Position:	X: 0.00 ft, Y: 0.00 ft	Ground level:	0.00	Test no:	1
Project ID:	Local Site # 32	Client:	Street Services	Date:	11/23/2016	Scale:	1 : 3
Project:	SDRF		Page:	1/1	Fig:		
	TRENCH IN		File:	L32 Trench In.cpd			



Lab No.: 17-741-105



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

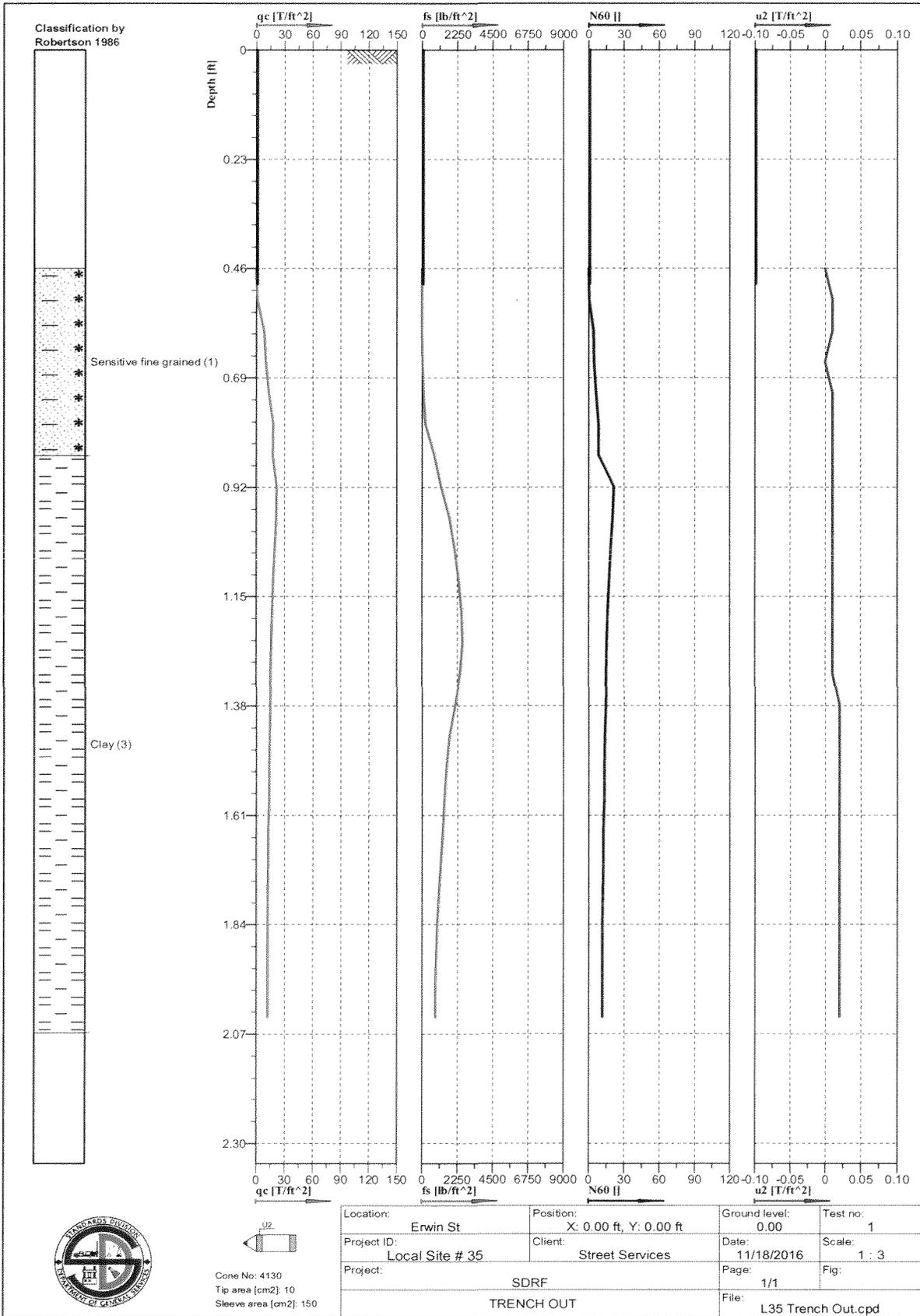
Asphalt thickness = 6.5”.



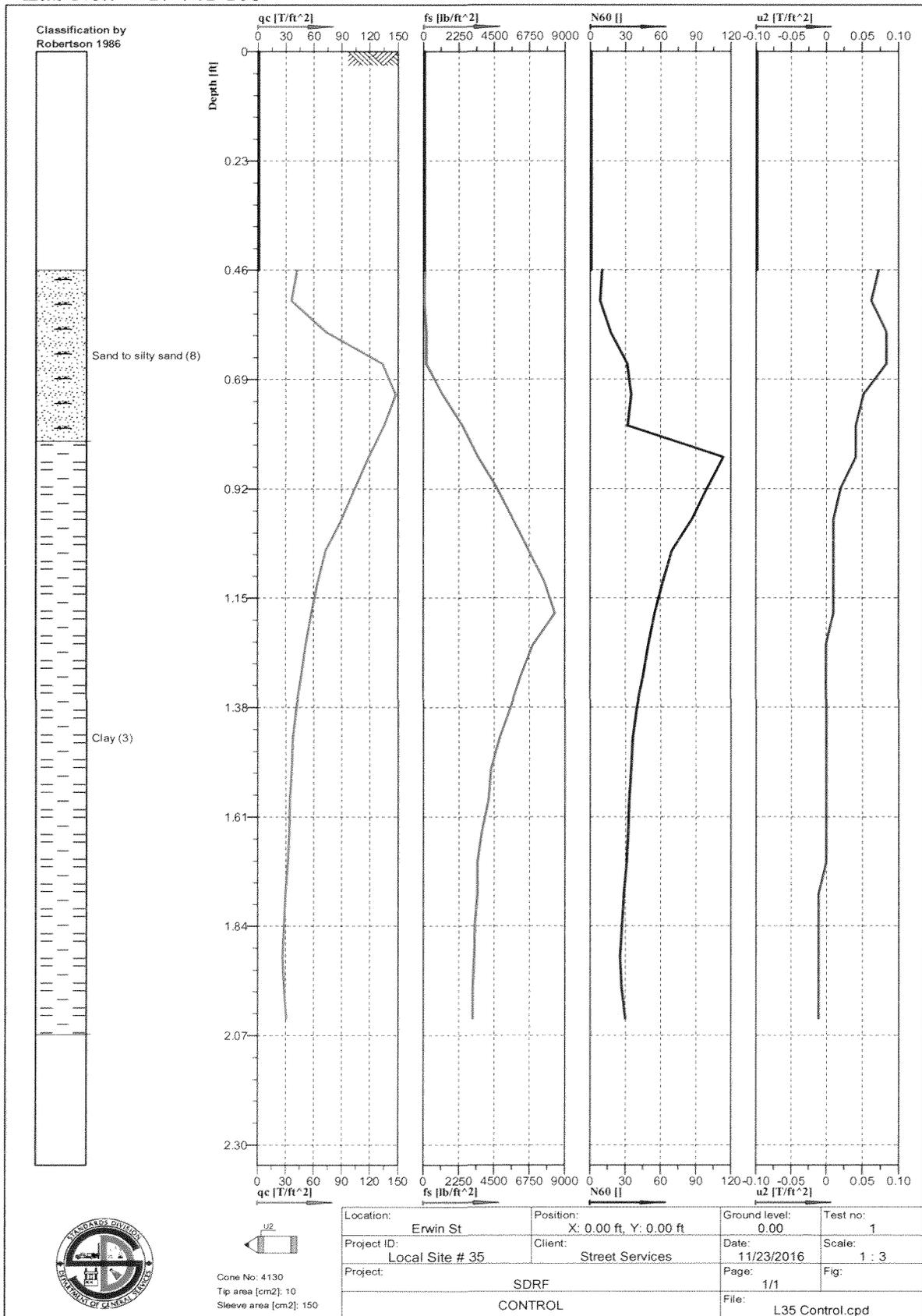
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location:	Erwin St	Position:	X: 0.00 ft, Y: 0.00 ft	Ground level:	0.00	Test no:	1
Project ID:	Local Site # 35	Client:	Street Services	Date:	11/23/2016	Scale:	1 : 3
Project:	SDRF		Page:	1/1	Fig:		
TRENCH IN			File:	L35 Trench In.cpd			

Lab No.: 17-741-107



Lab No.: 17-741-108



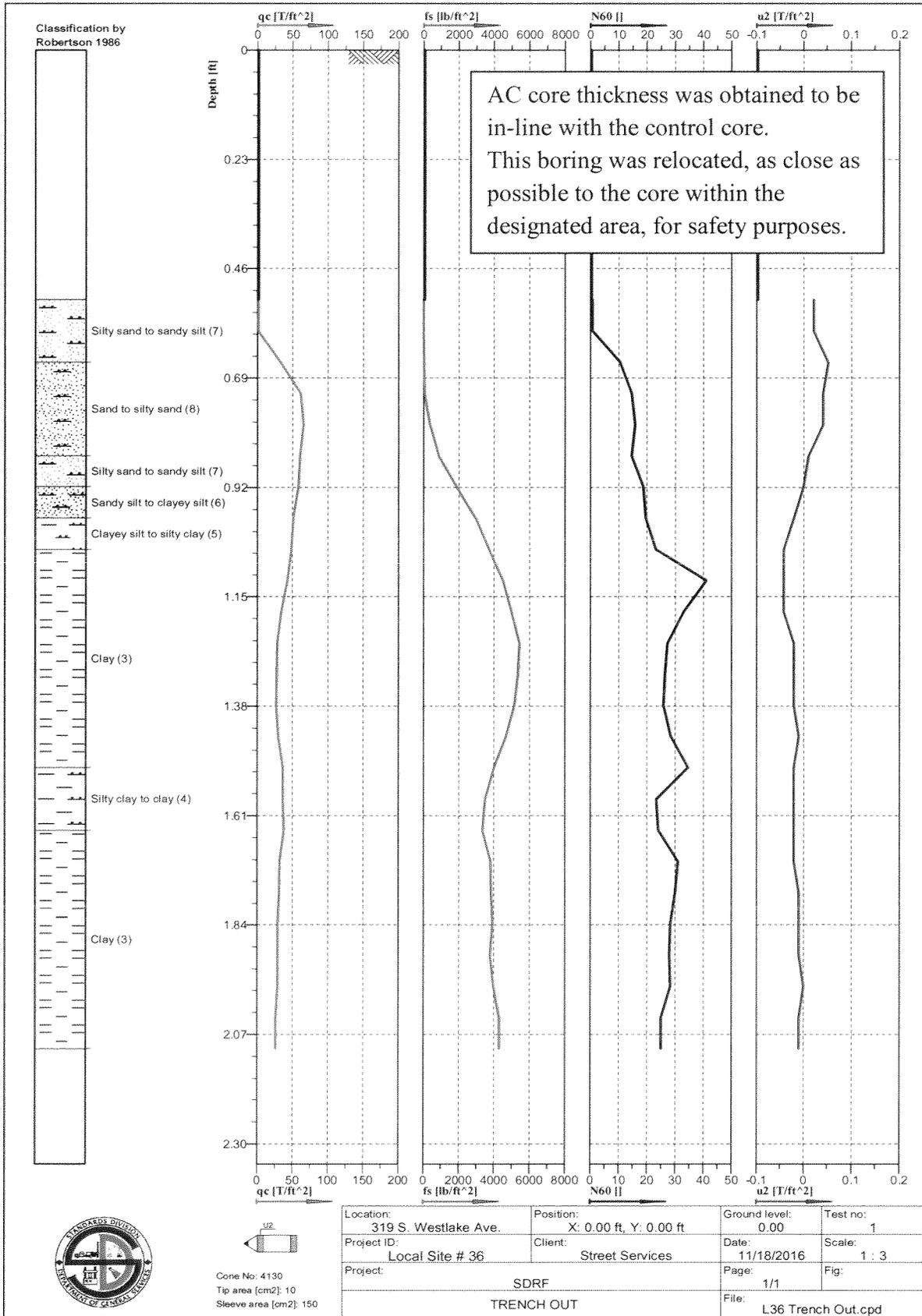
Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

Asphalt thickness = 3.4”.

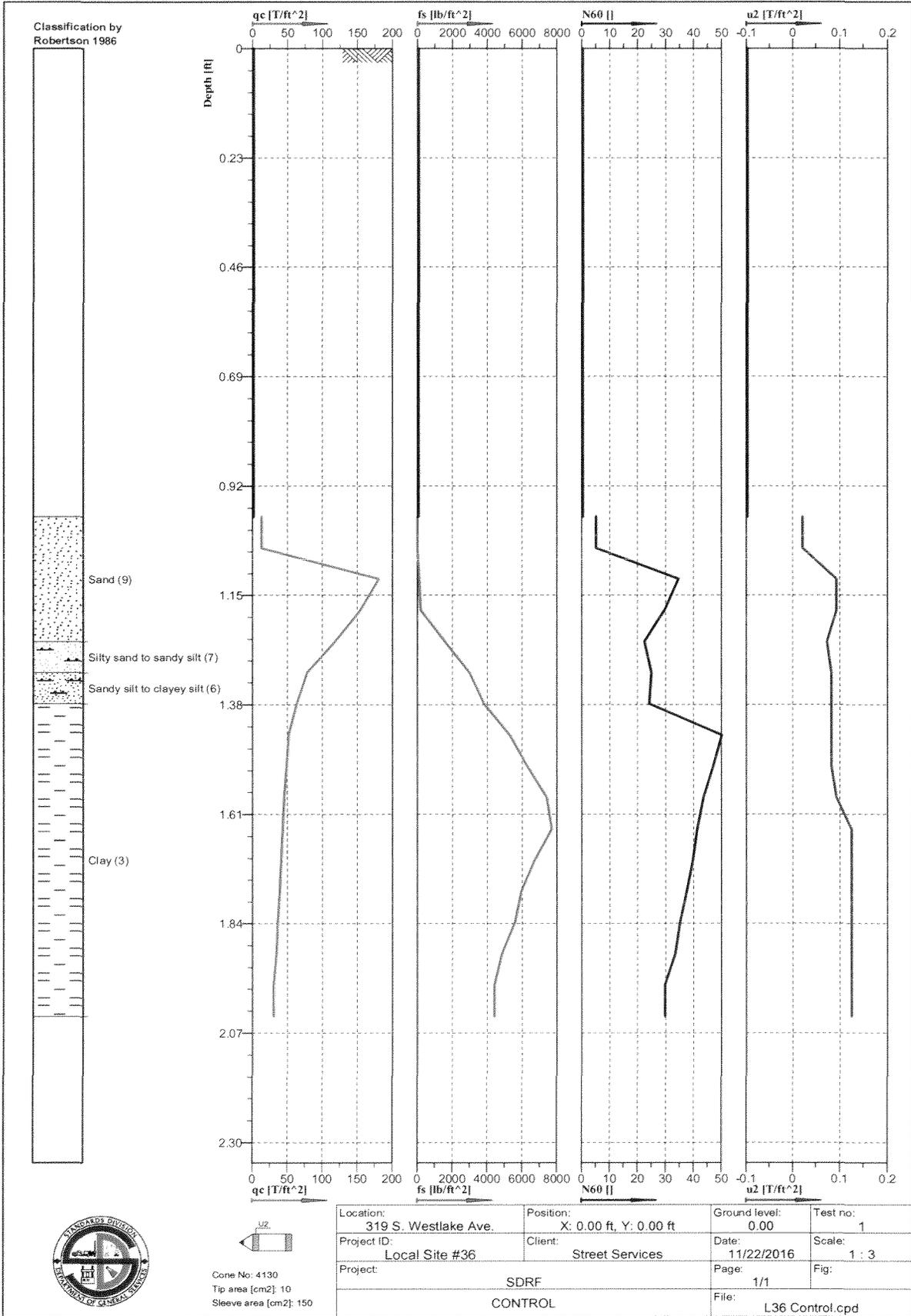


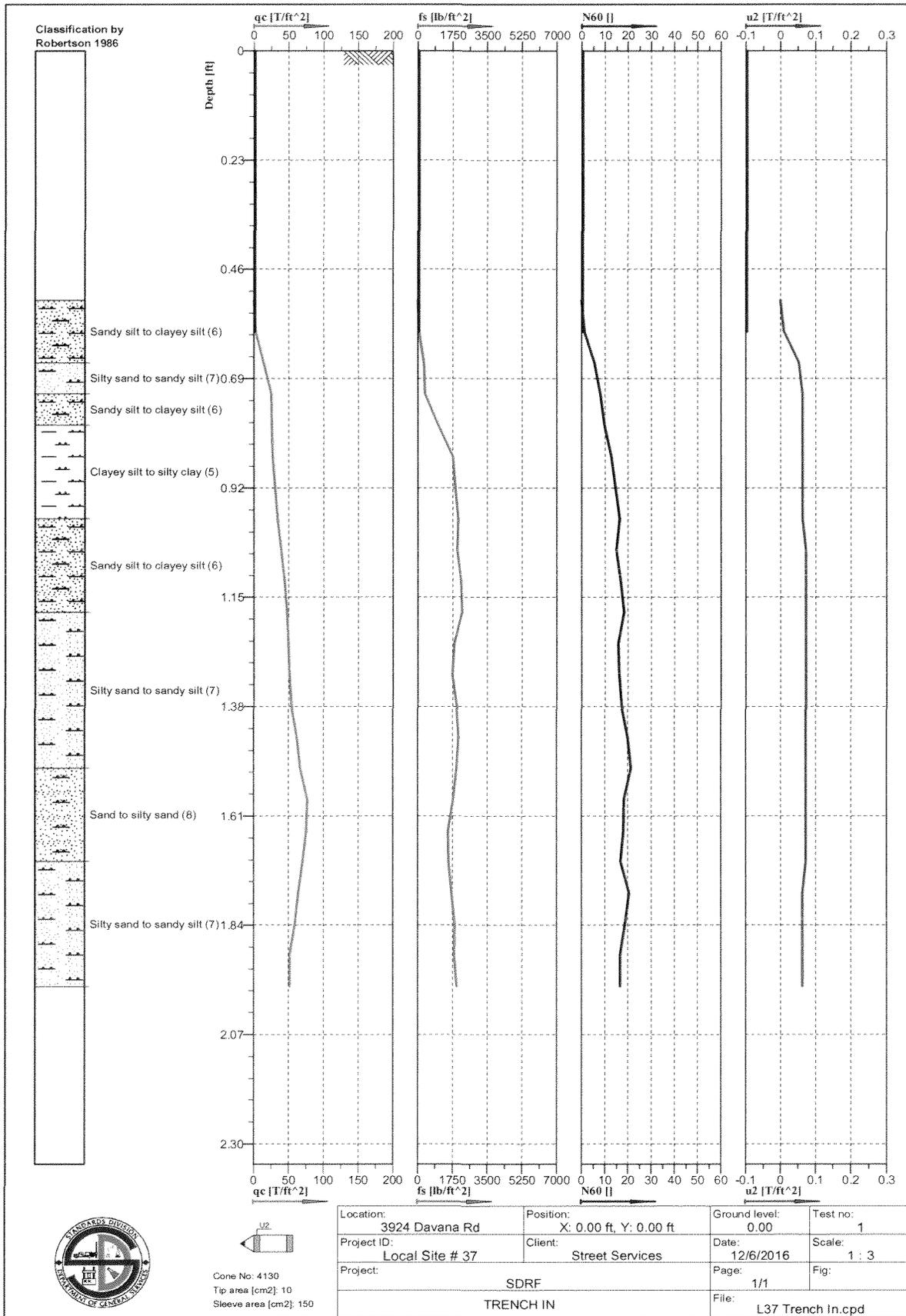
Cone No: 4130
 Tip area [cm2]: 10
 Sleeve area [cm2]: 150

Location: 319 S. Westlake Ave.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site #36	Client: Street Services	Date: 11/22/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: L36 Trench In.cpd	



Lab No.: 17-741-111

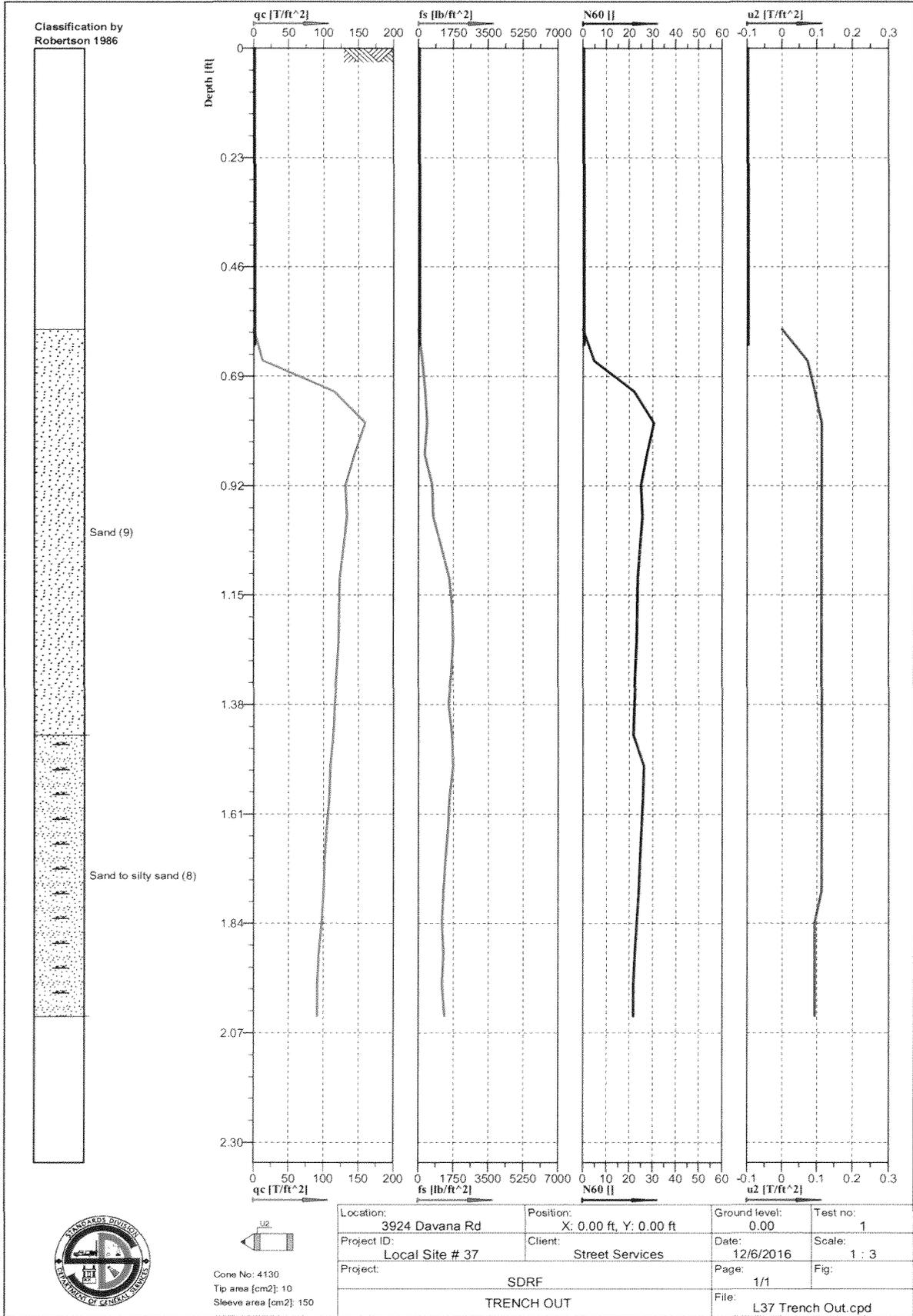


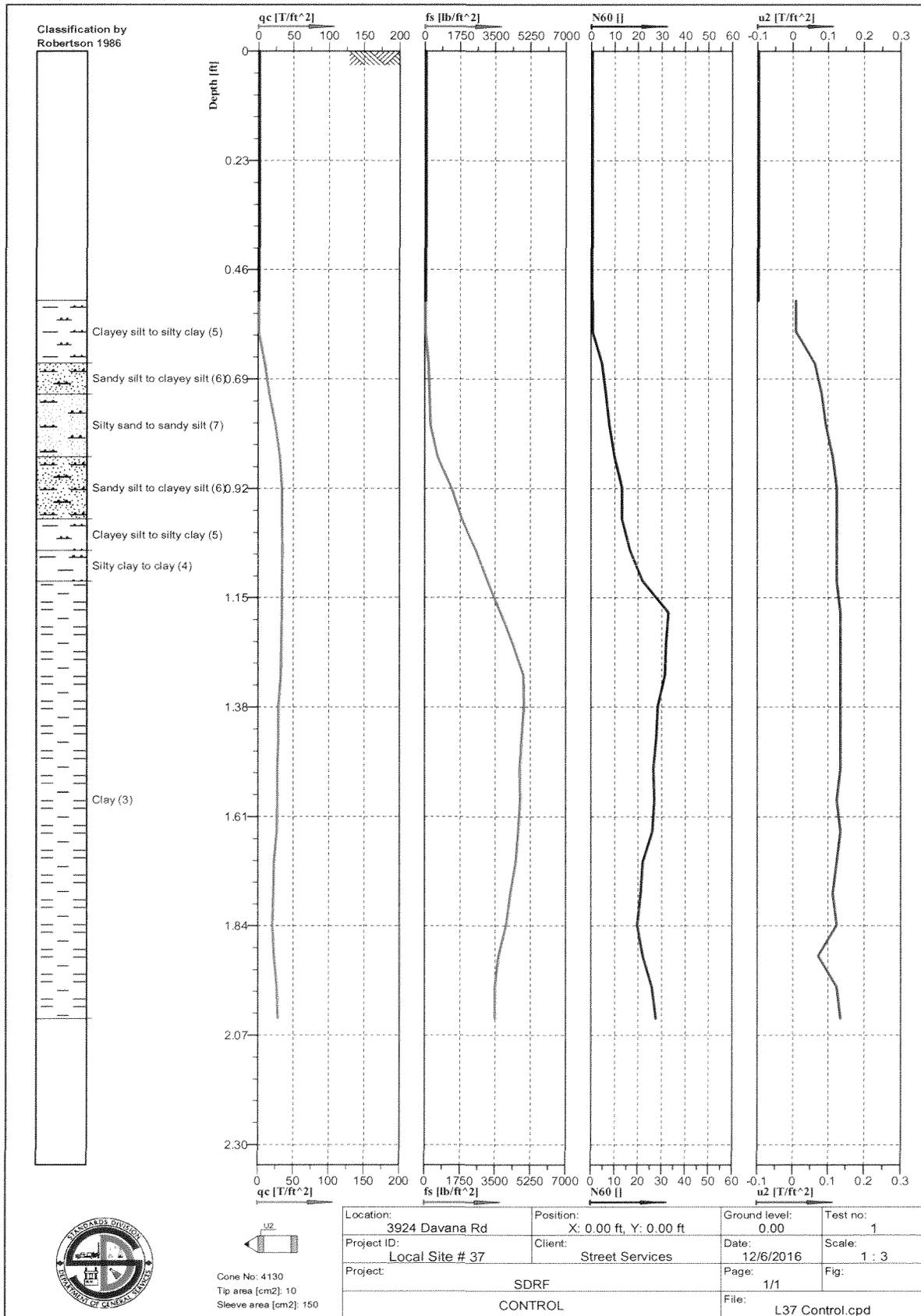


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 3924 Davana Rd	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 37	Client: Street Services	Date: 12/6/2016	Scale: 1 : 3
Project: SDRF	Page: 1/1	Fig: 1 : 3	
TRENCH IN		File: L37 Trench In.cpd	

Lab No.: 17-741-113





Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 3924 Davana Rd	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 37	Client: Street Services	Date: 12/6/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: L37 Control.cpd	

Lab No.: 17-741-115

Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

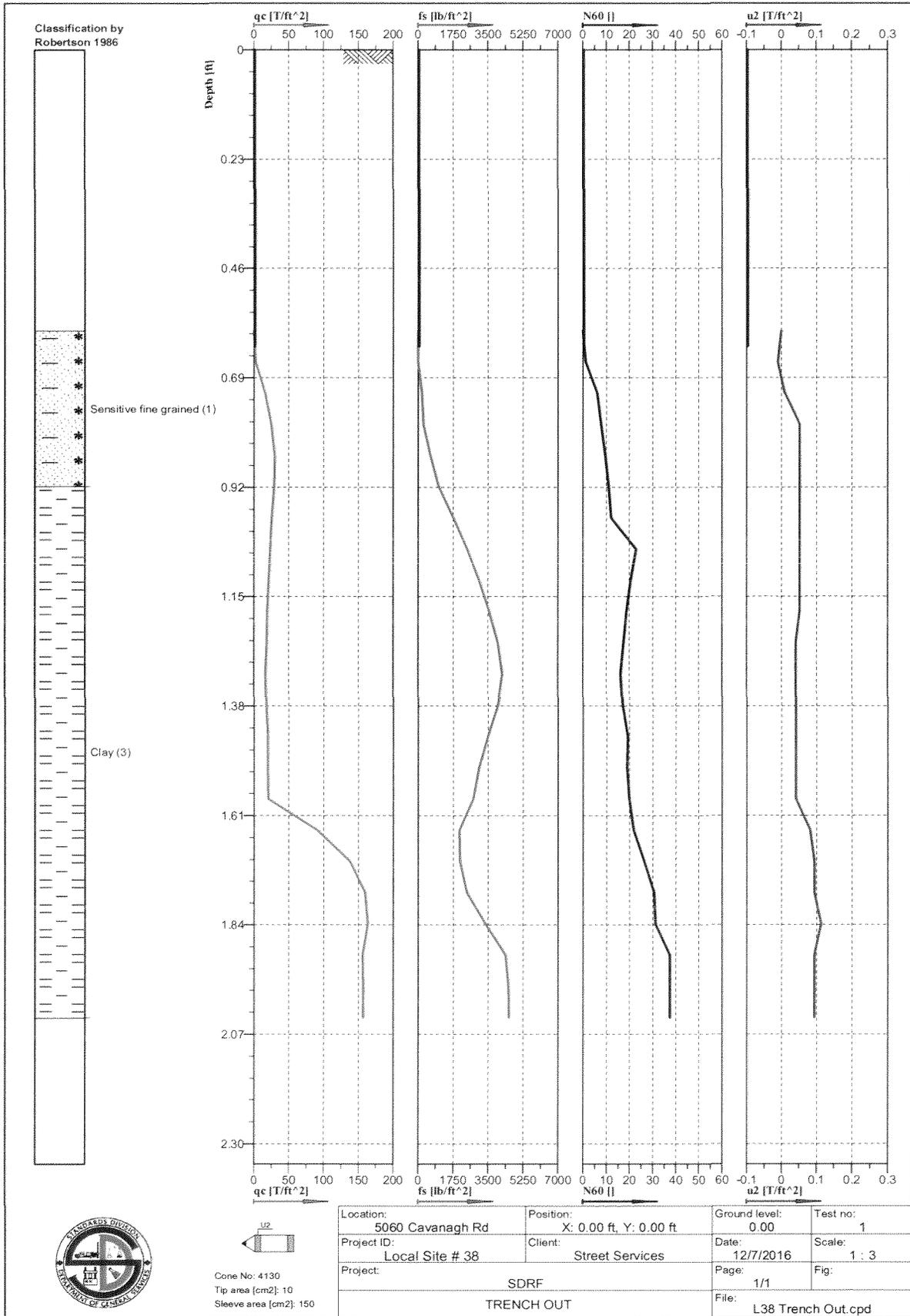
Asphalt thickness = 3.5”.



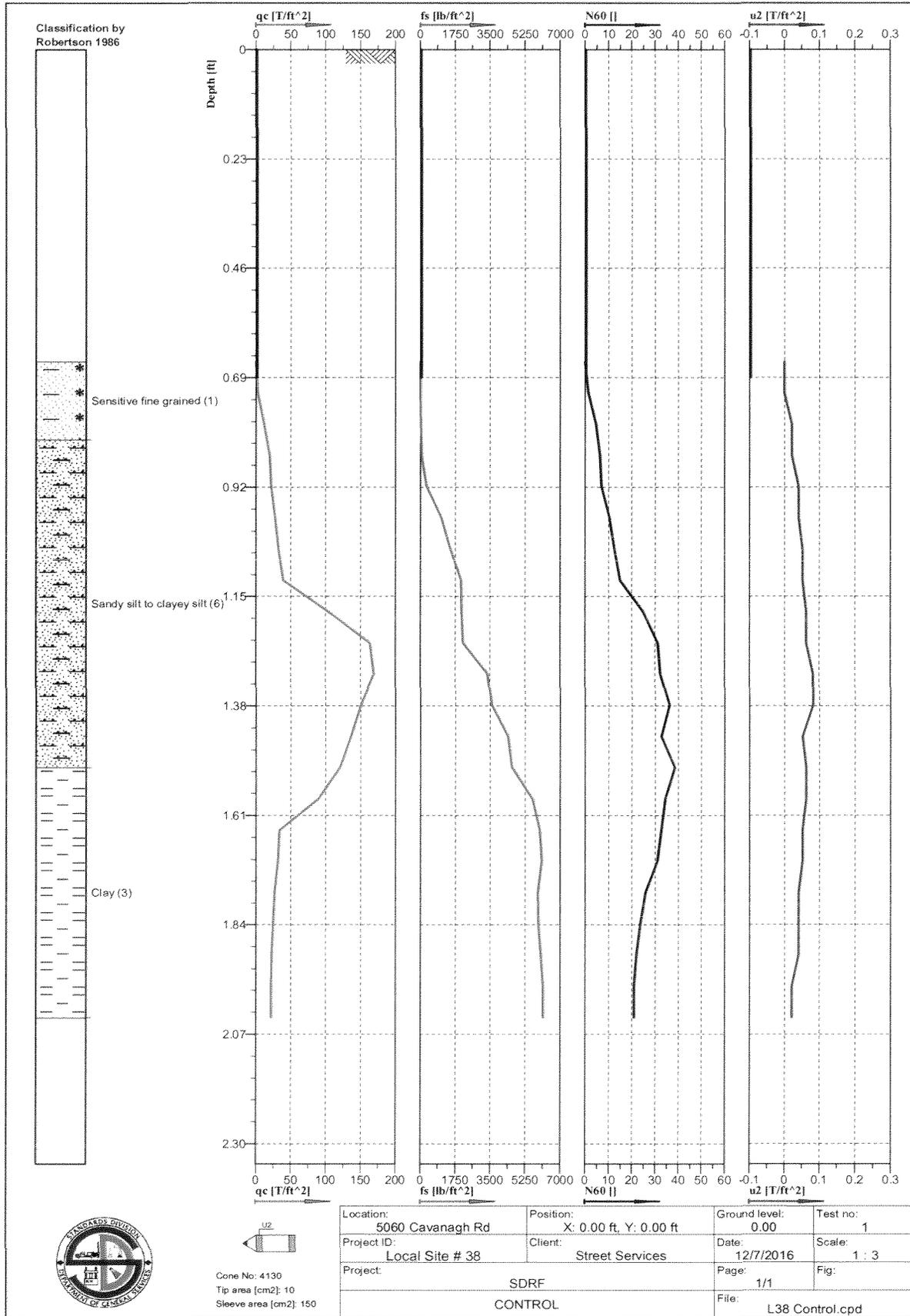
Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

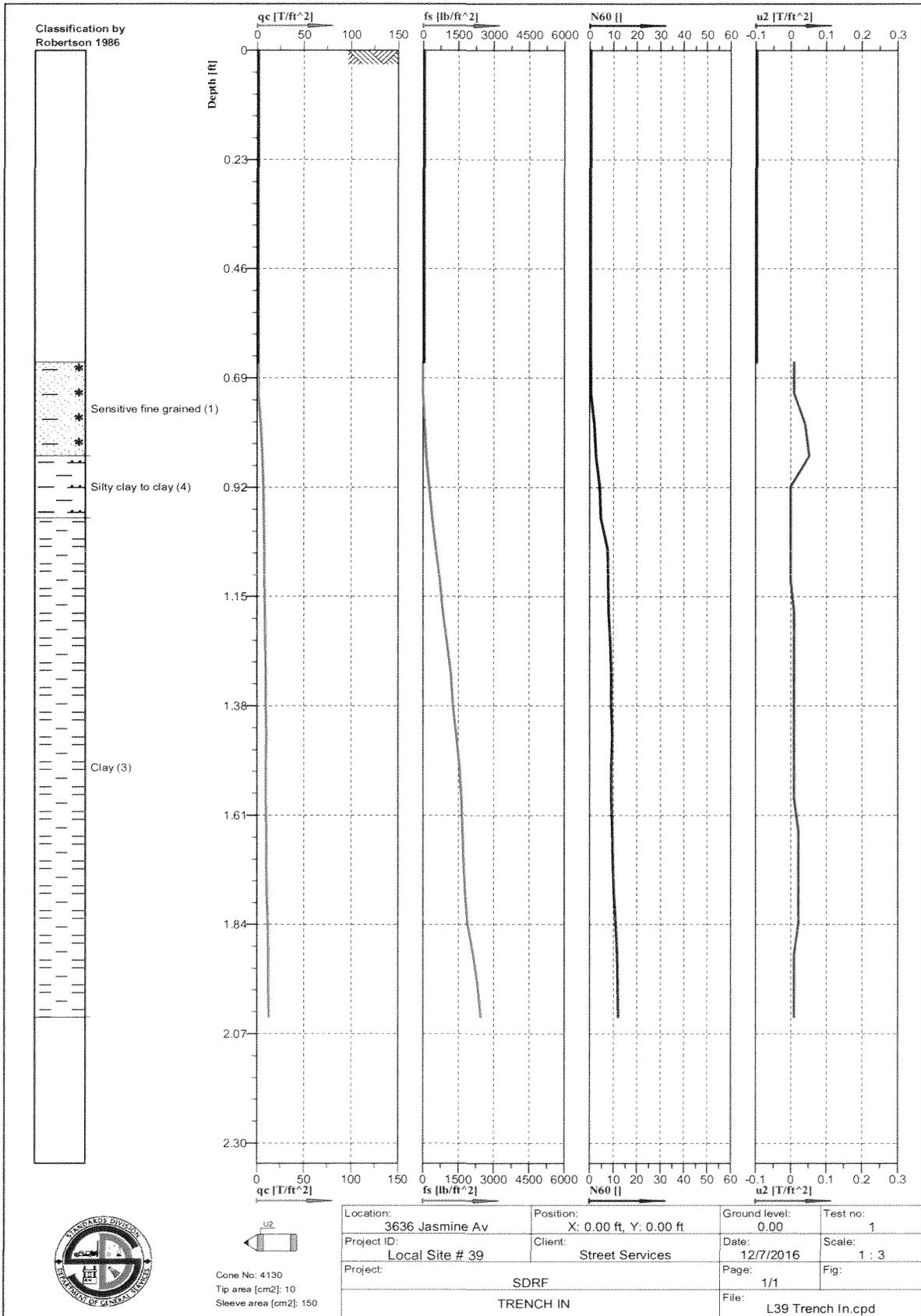
Location: 5060 Cavanagh Rd	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 38	Client: Street Services	Date: 12/7/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: L38 Trench In.cpd	

Lab No.: 17-741-116



Lab No.: 17-741-117

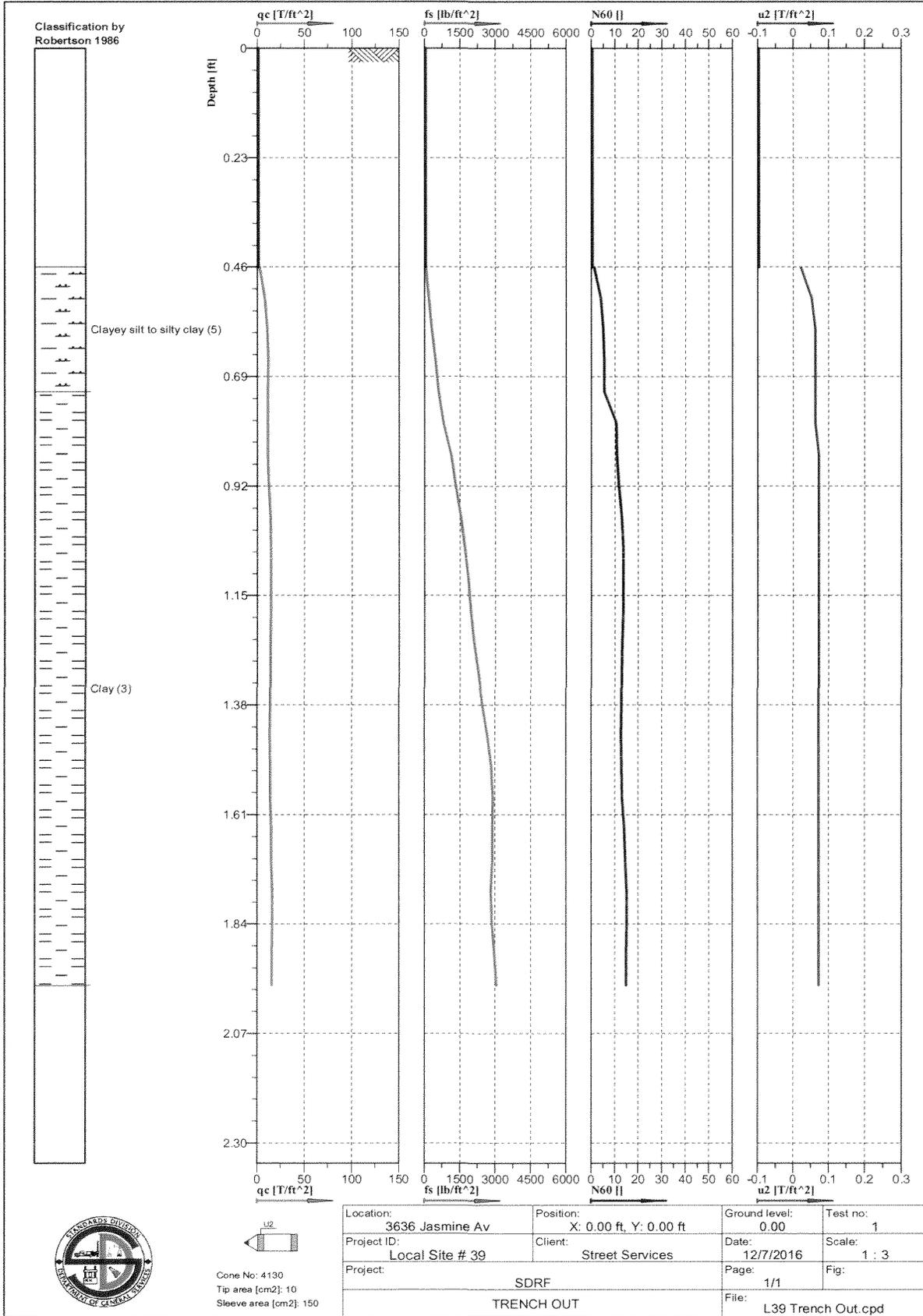




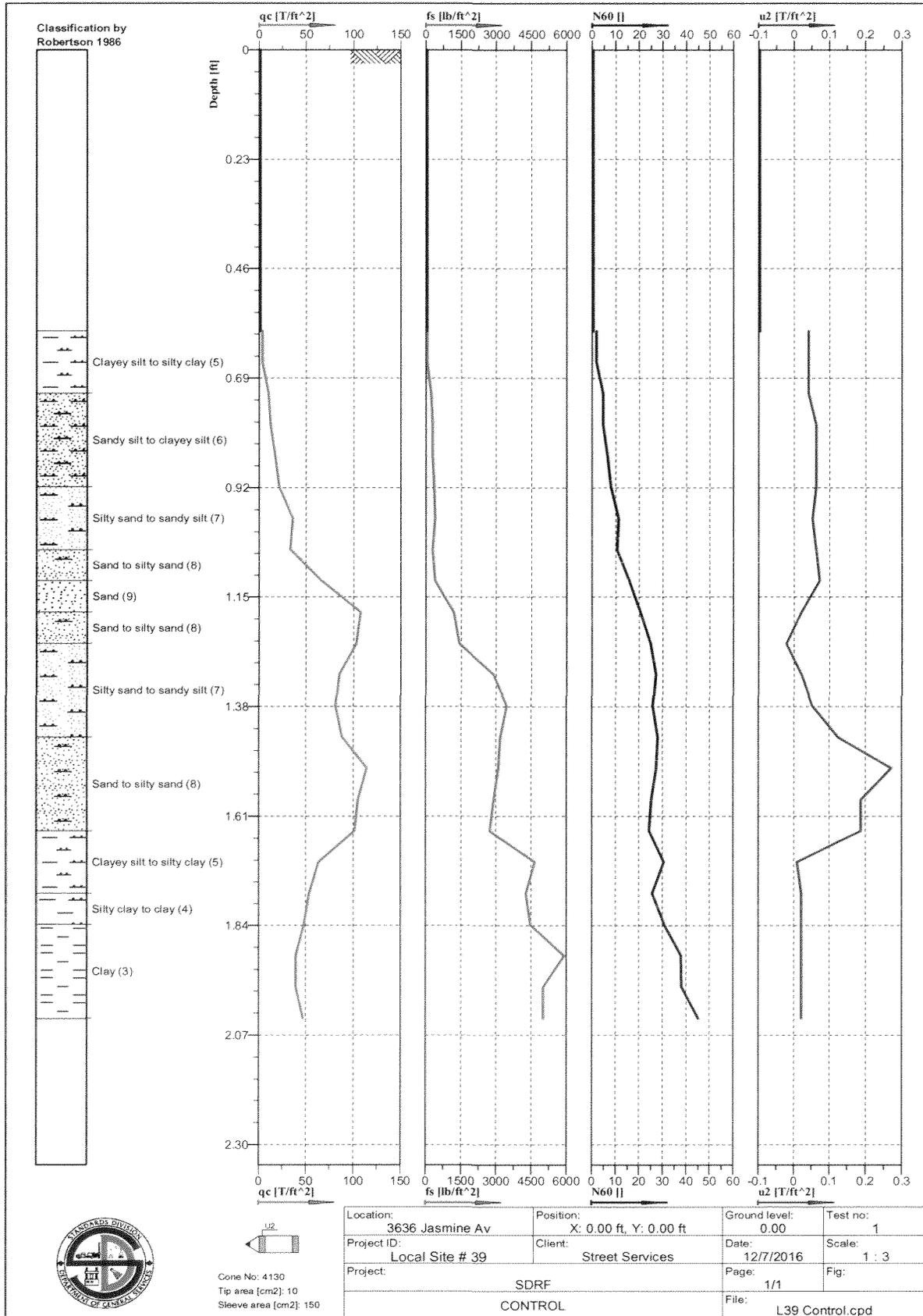
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 3636 Jasmine Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 39	Client: Street Services	Date: 12/7/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
TRENCH IN		File: L39 Trench In.cpd	

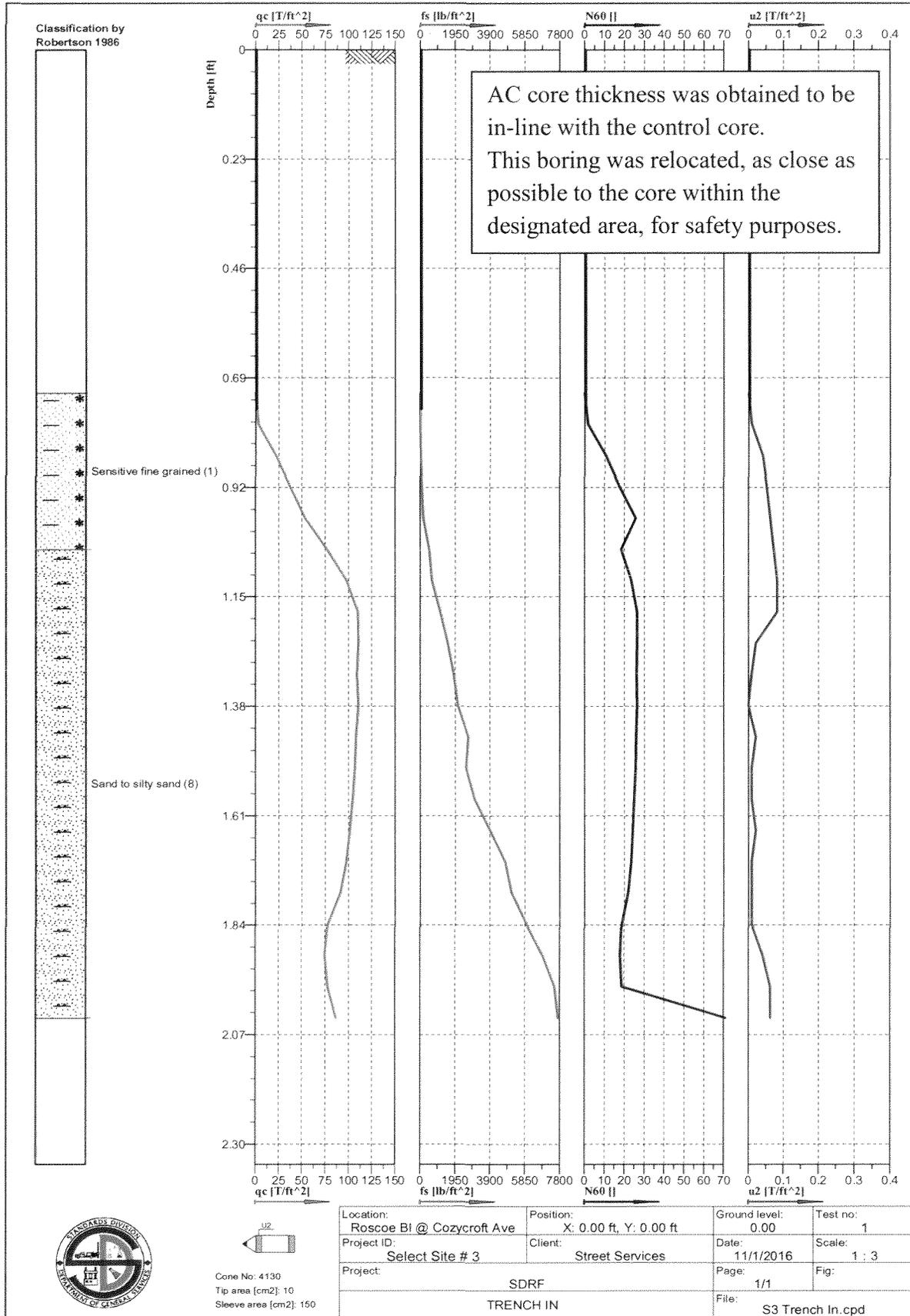
Lab No.: 17-741-119

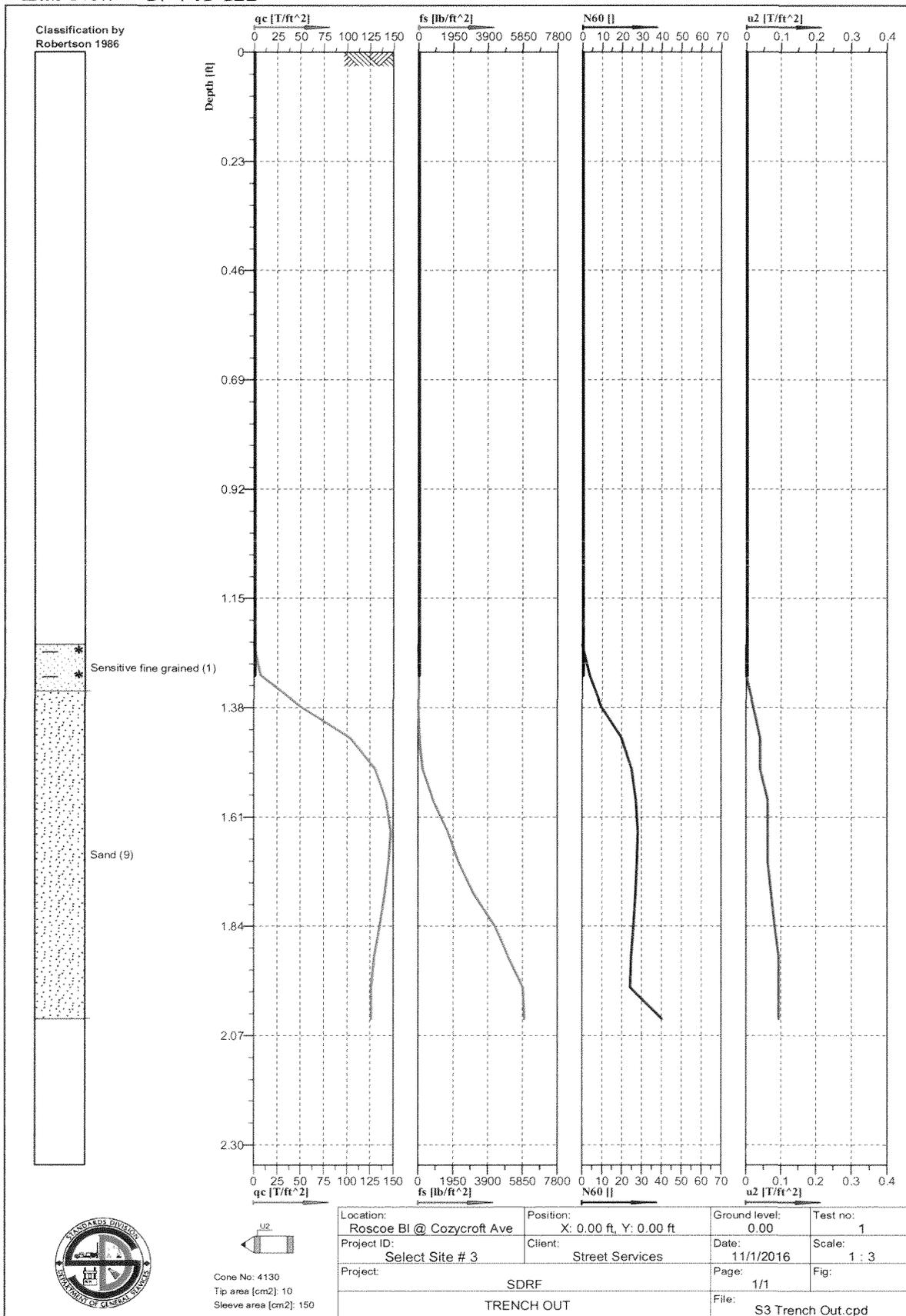


Lab No.: 17-741-120

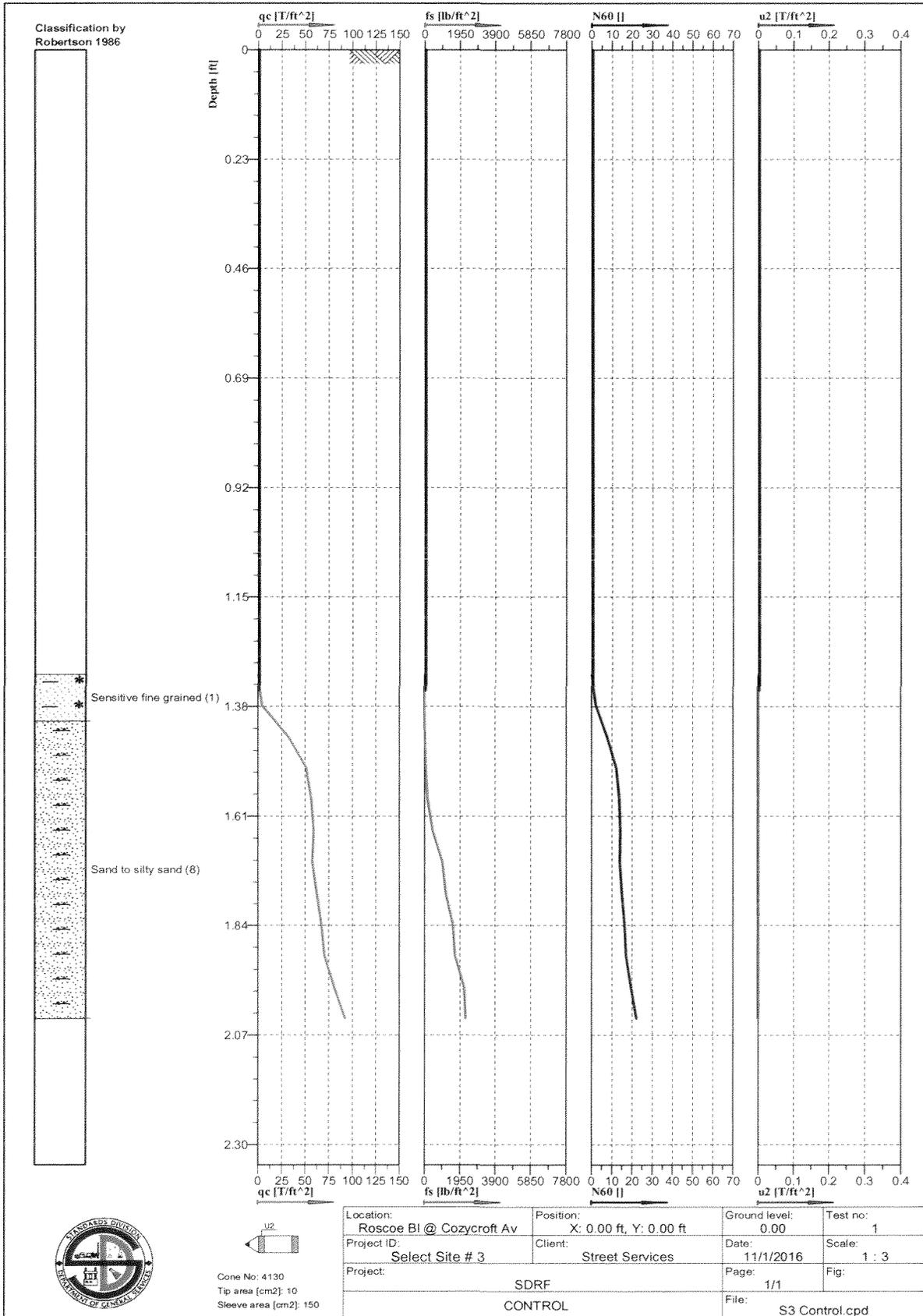


Lab No.: 17-741-121



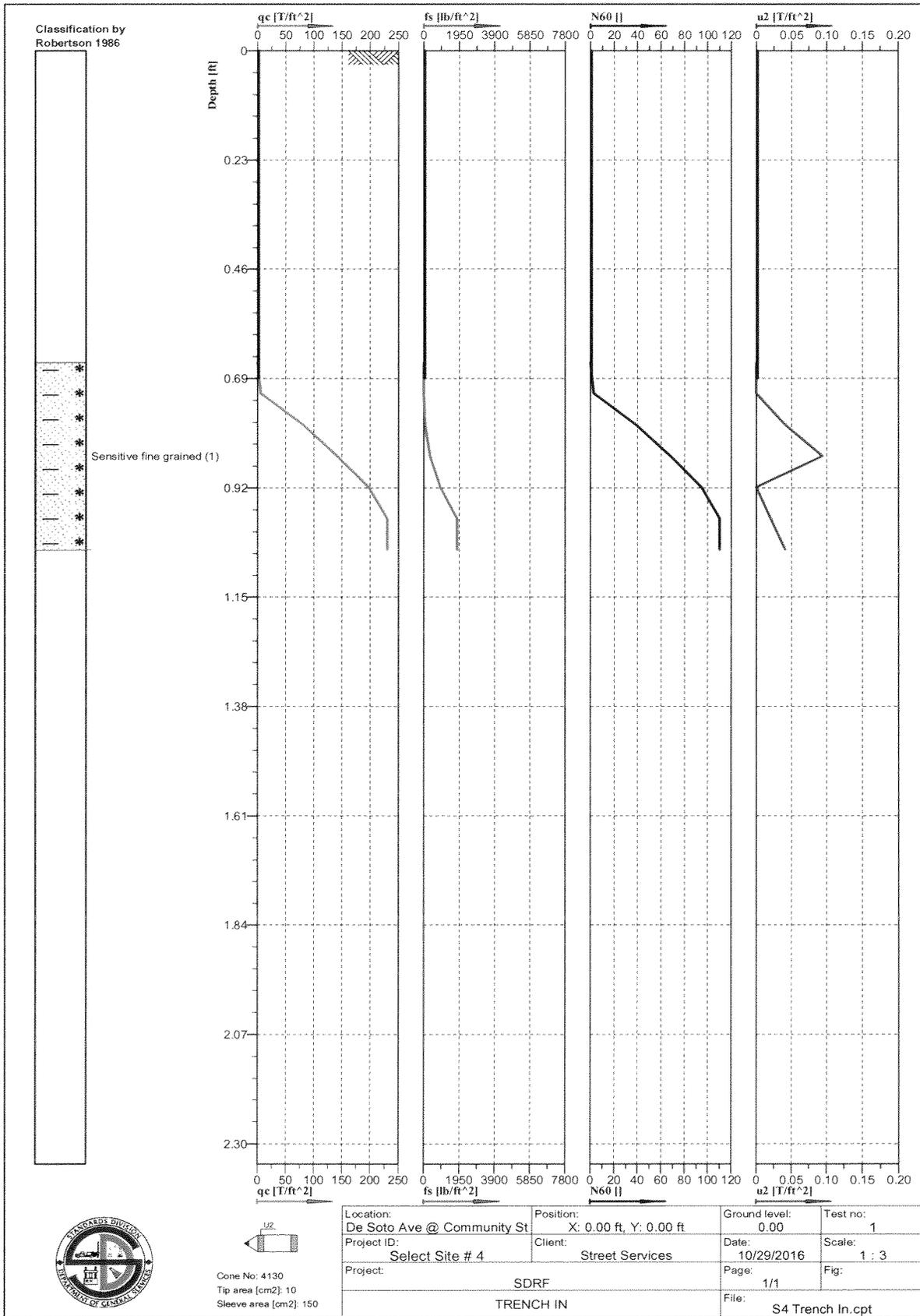


Lab No.: 17-741-123

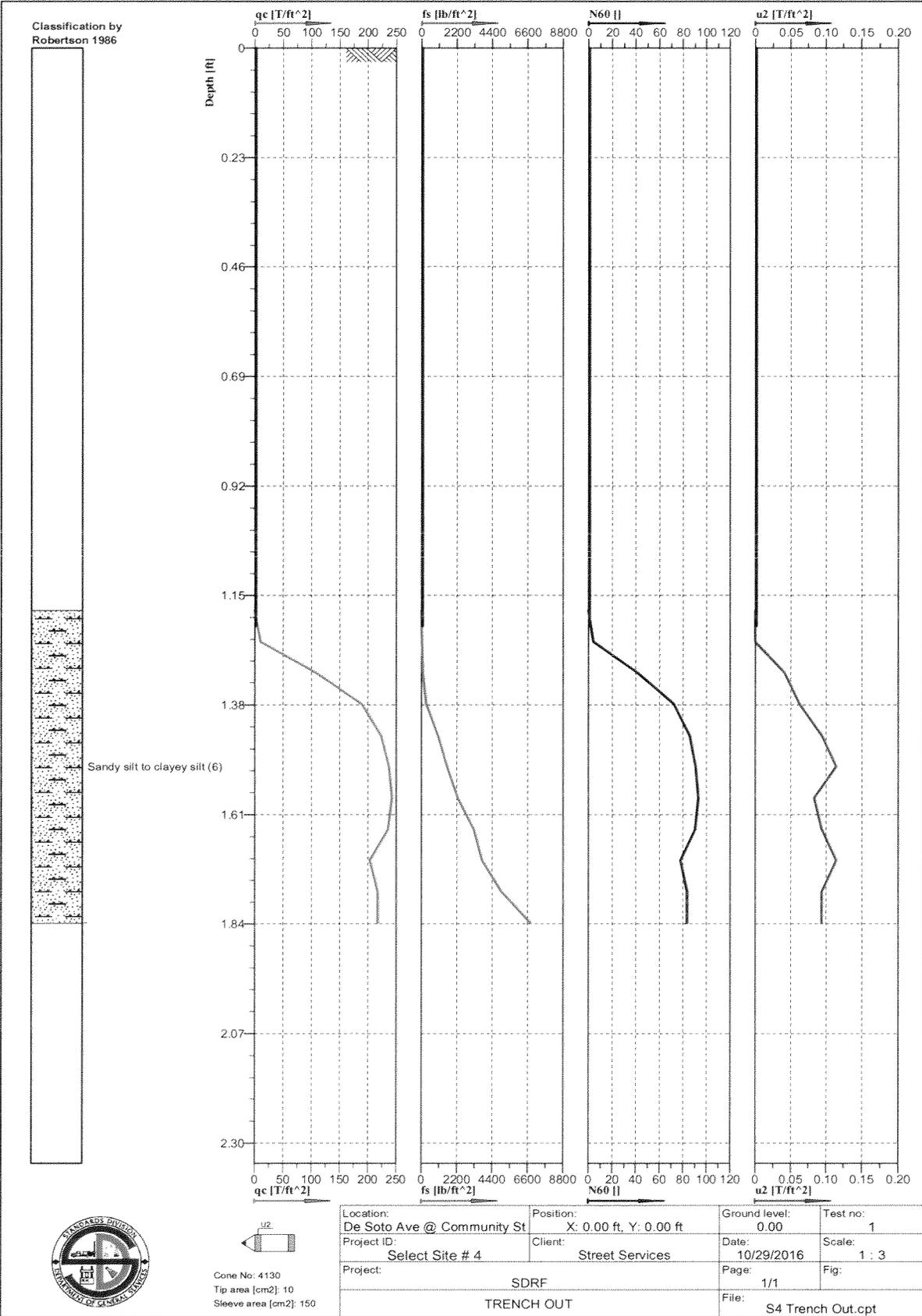


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

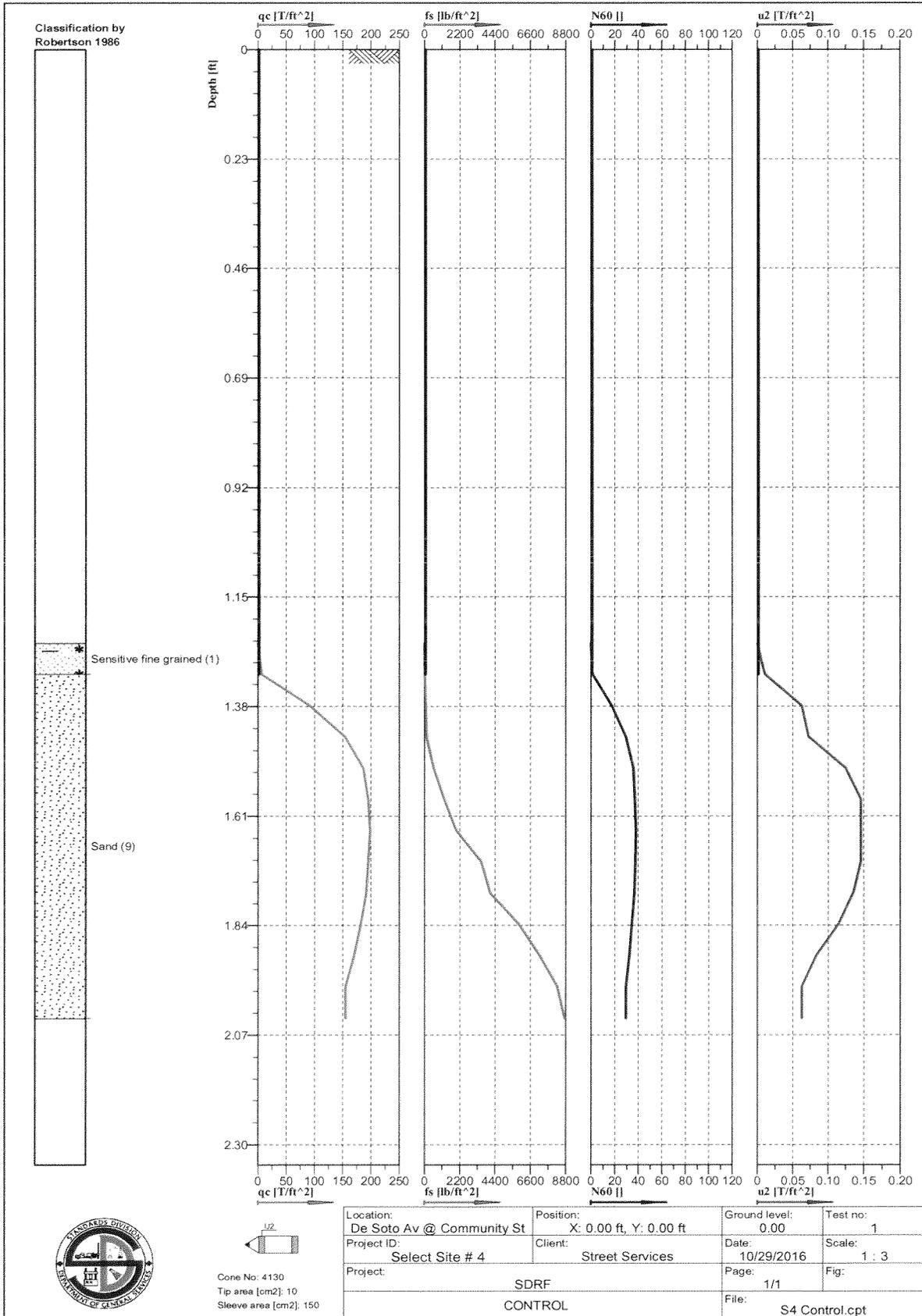
Lab No.: 17-741-124



Lab No.: 17-741-125



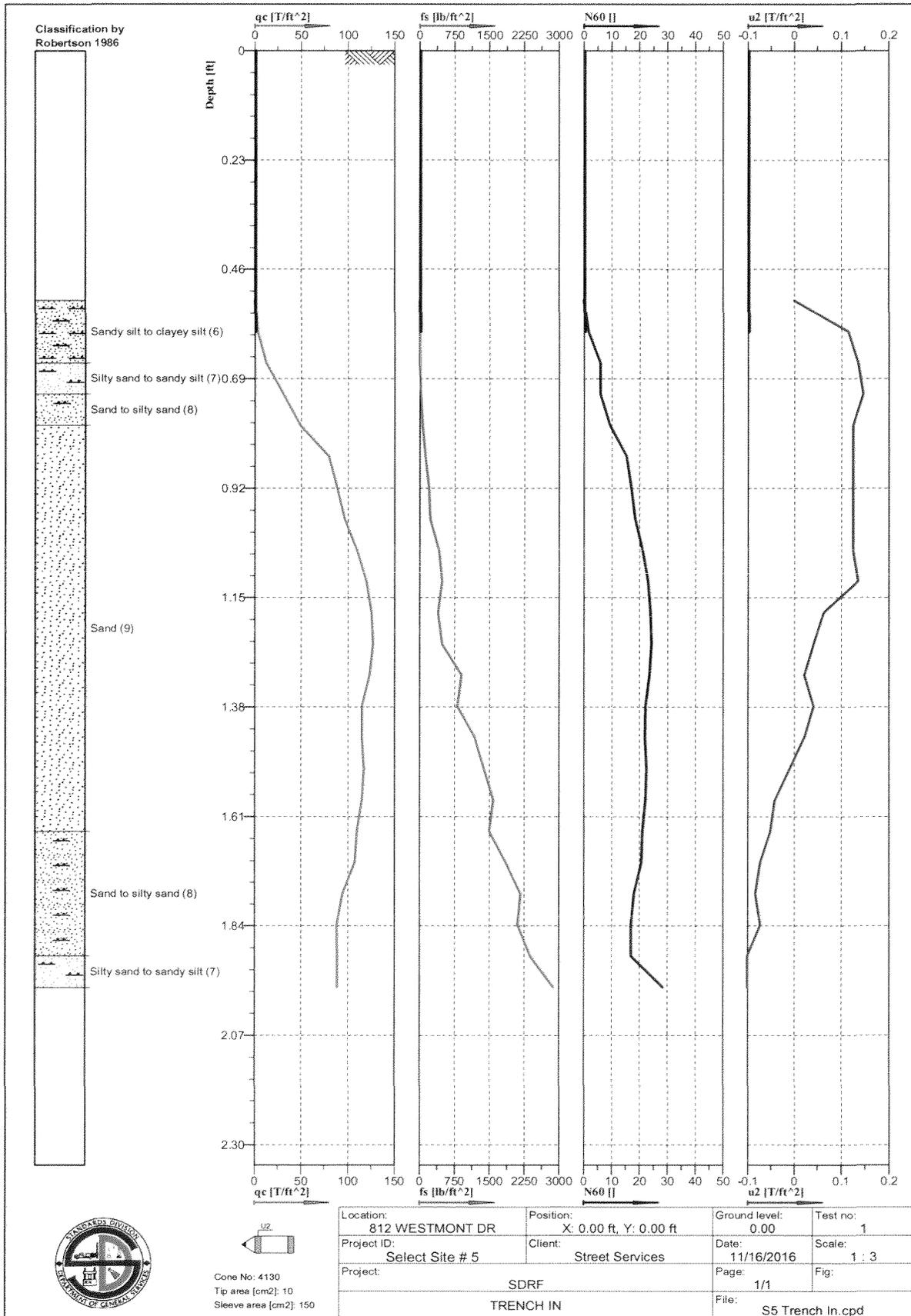
Lab No.: 17-741-126

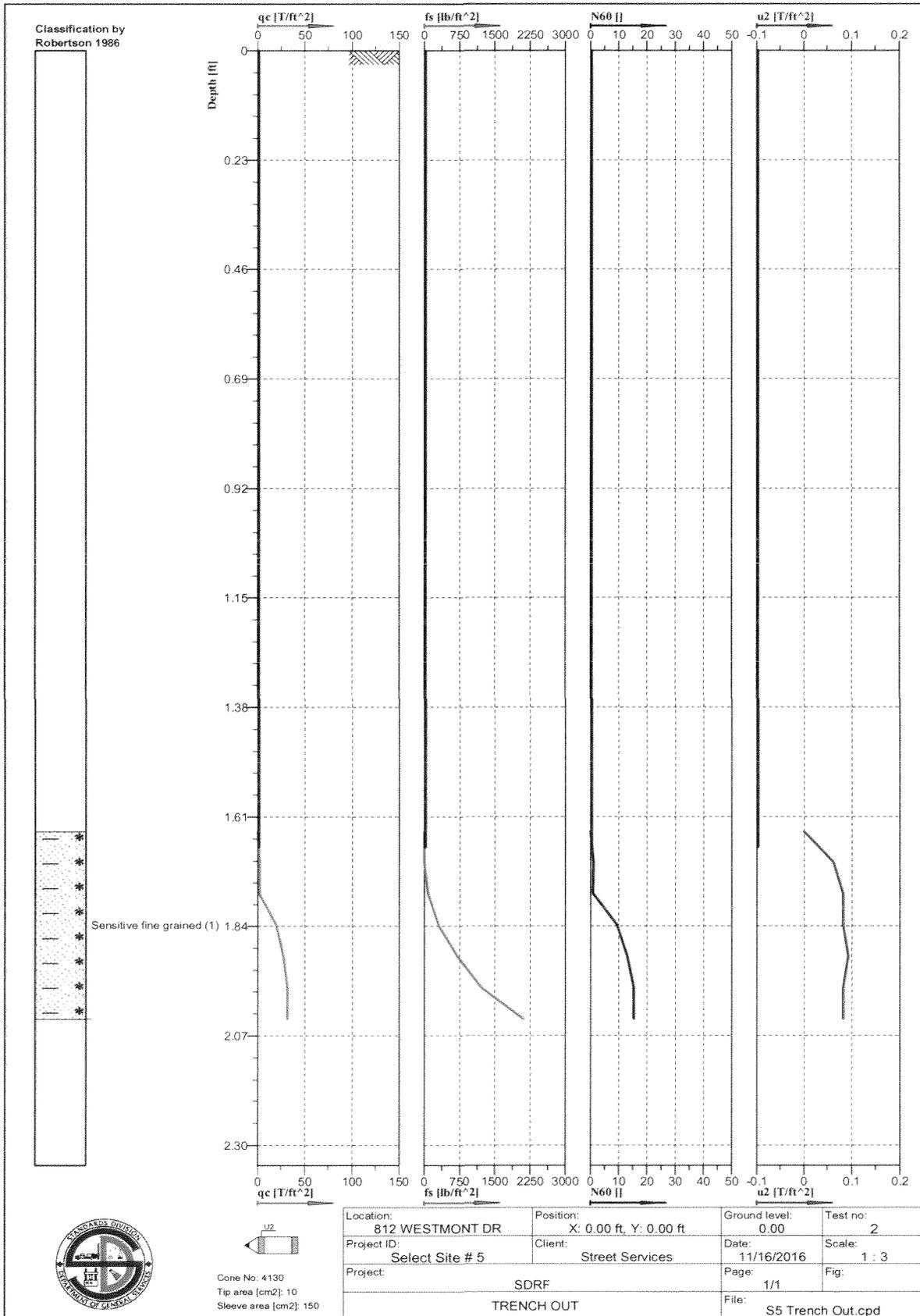


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

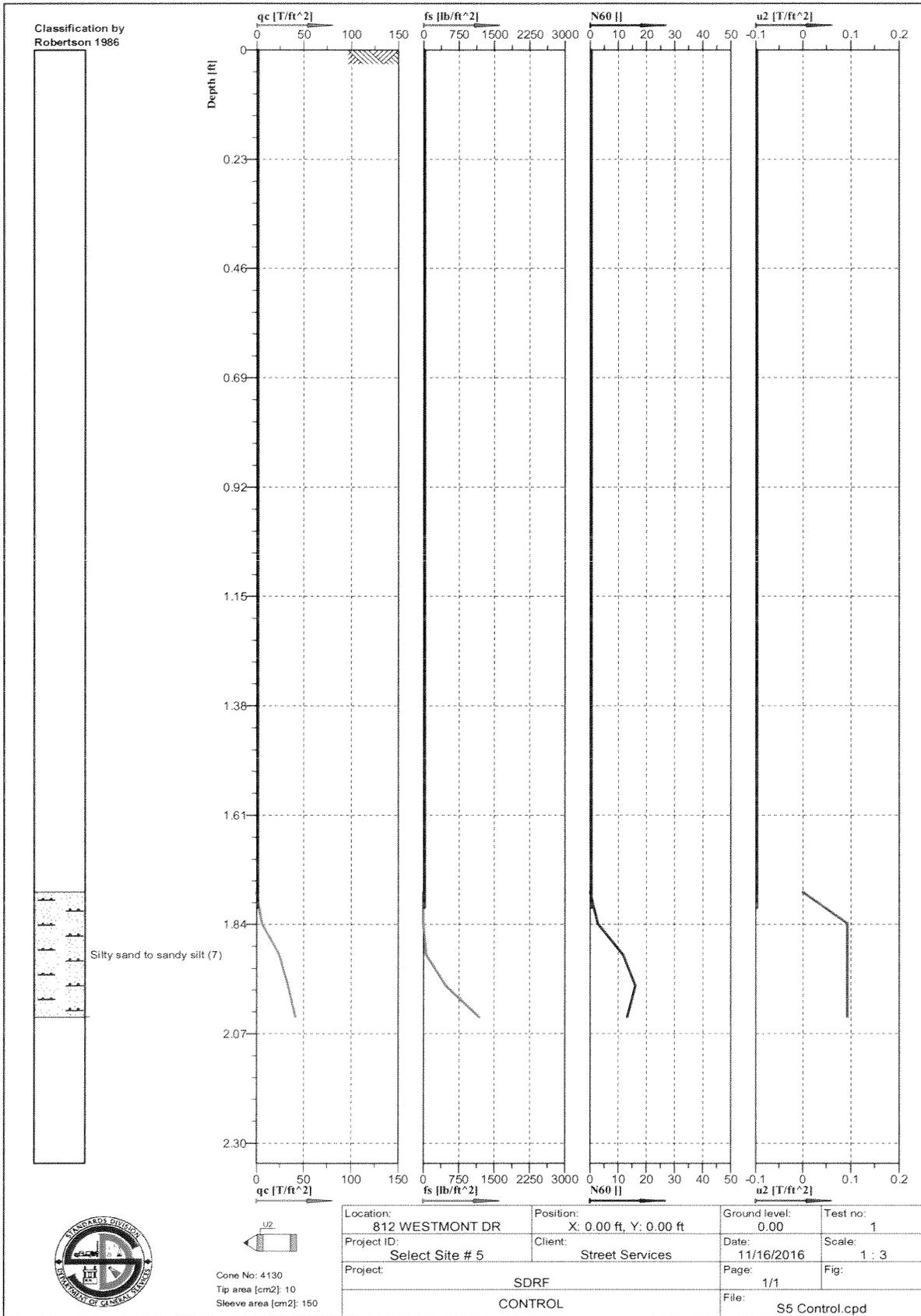
Location: De Soto Av @ Community St	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 4	Client: Street Services	Date: 10/29/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
CONTROL		File: S4 Control.cpt	

Lab No.: 17-741-127

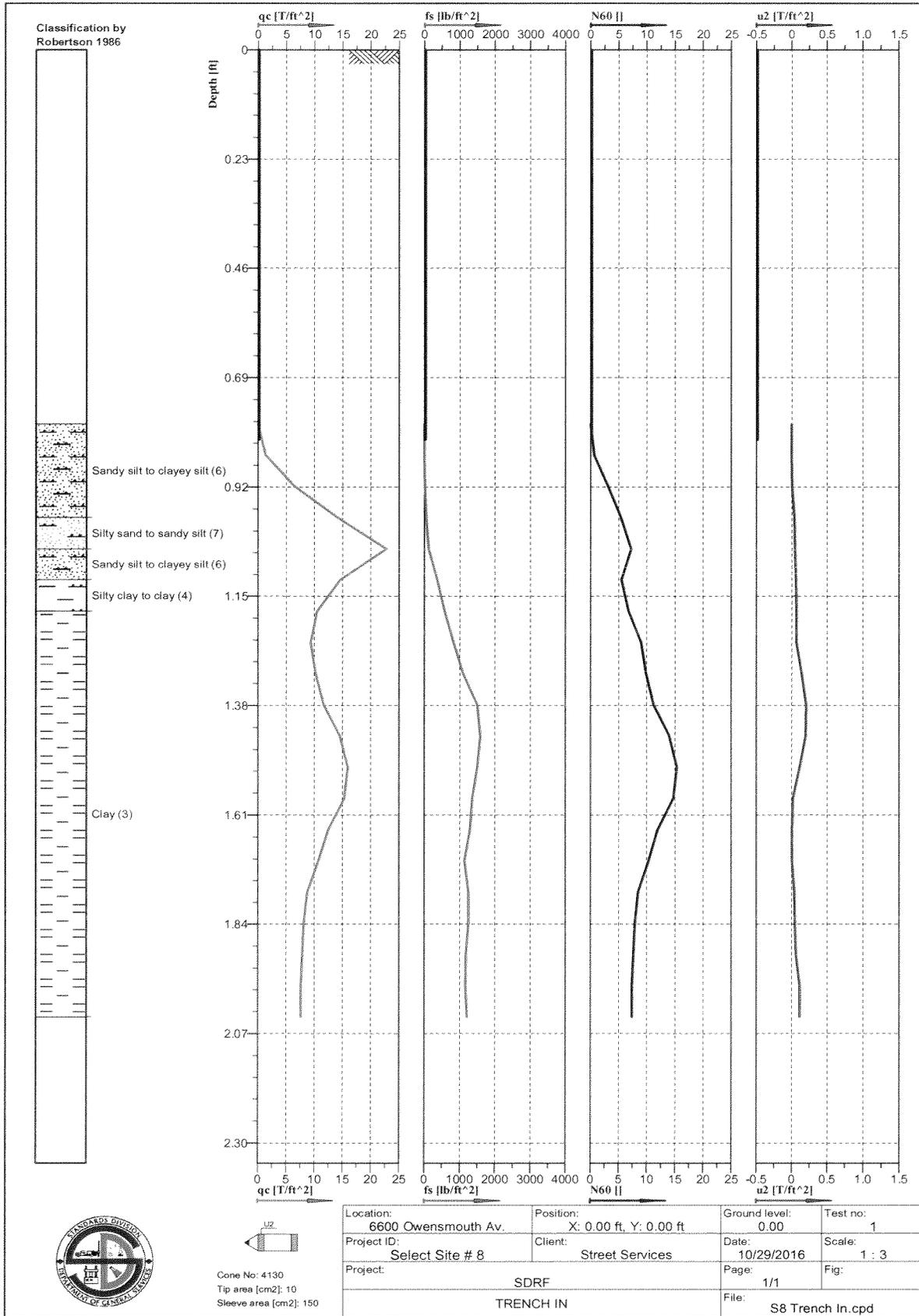




Lab No.: 17-741-129



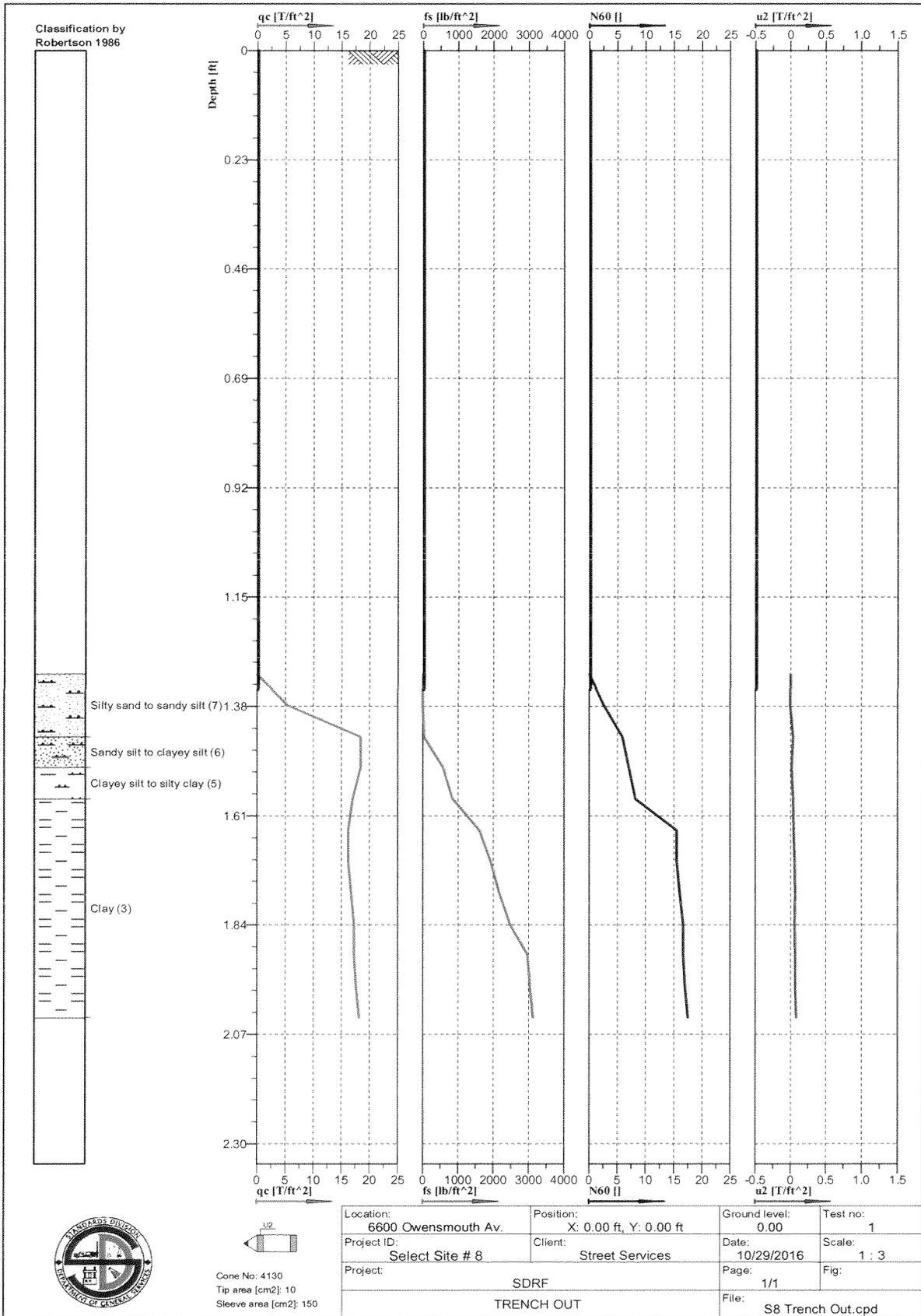
Lab No.: 17-741-130



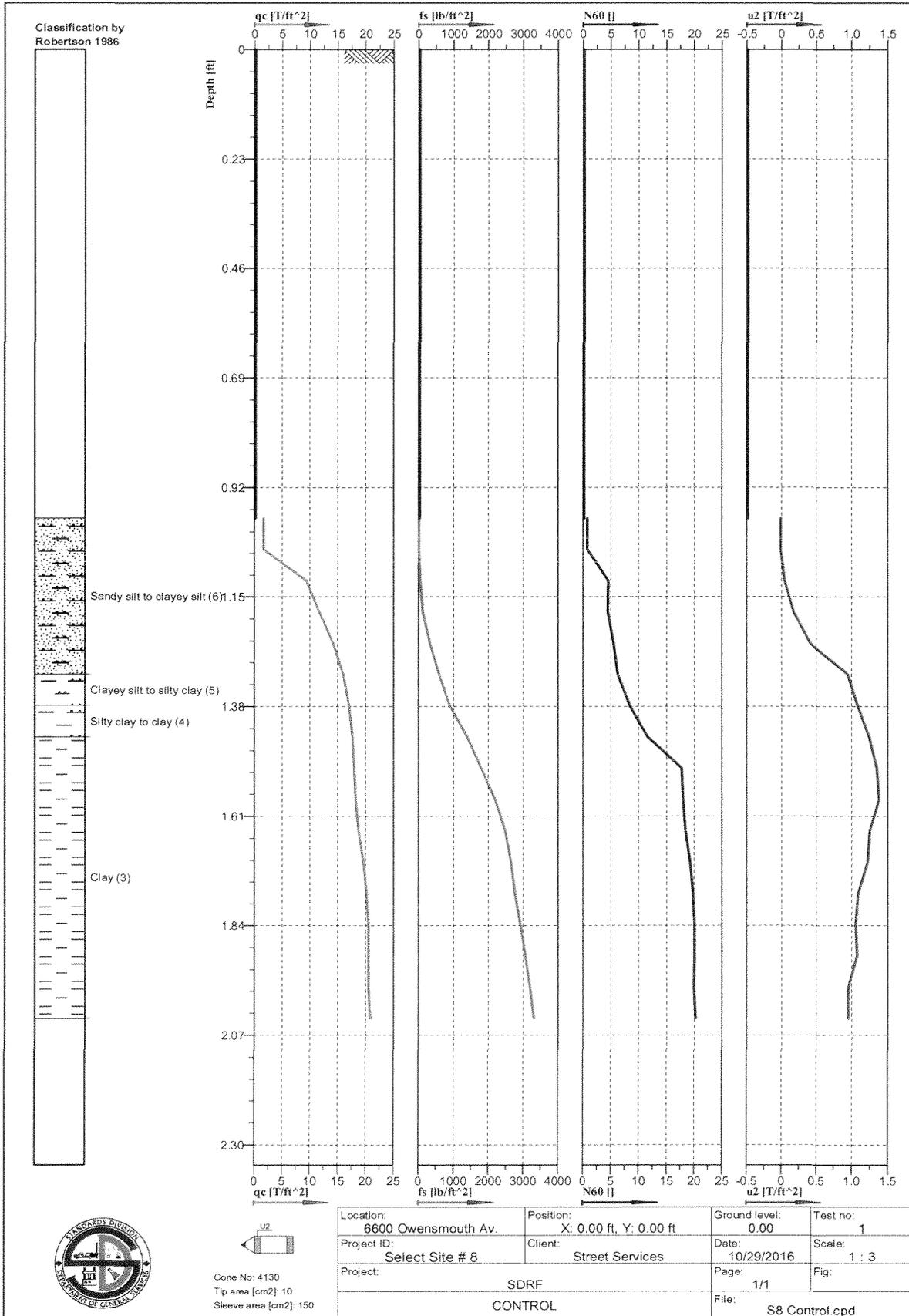
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 6600 Owensmouth Av.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 8	Client: Street Services	Date: 10/29/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
TRENCH IN		File: S8 Trench In.cpd	

Lab No.: 17-741-131



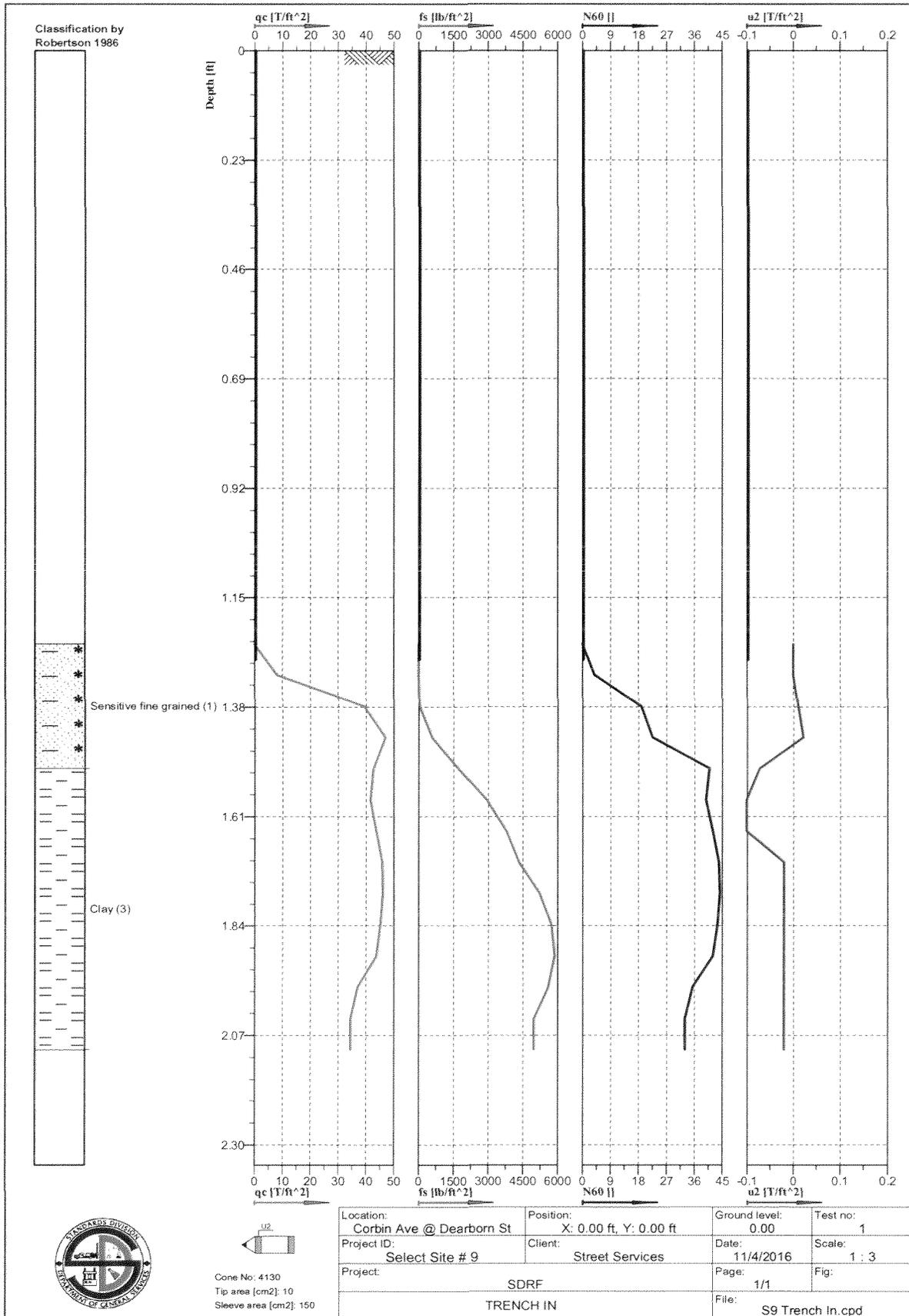
Lab No.: 17-741-132



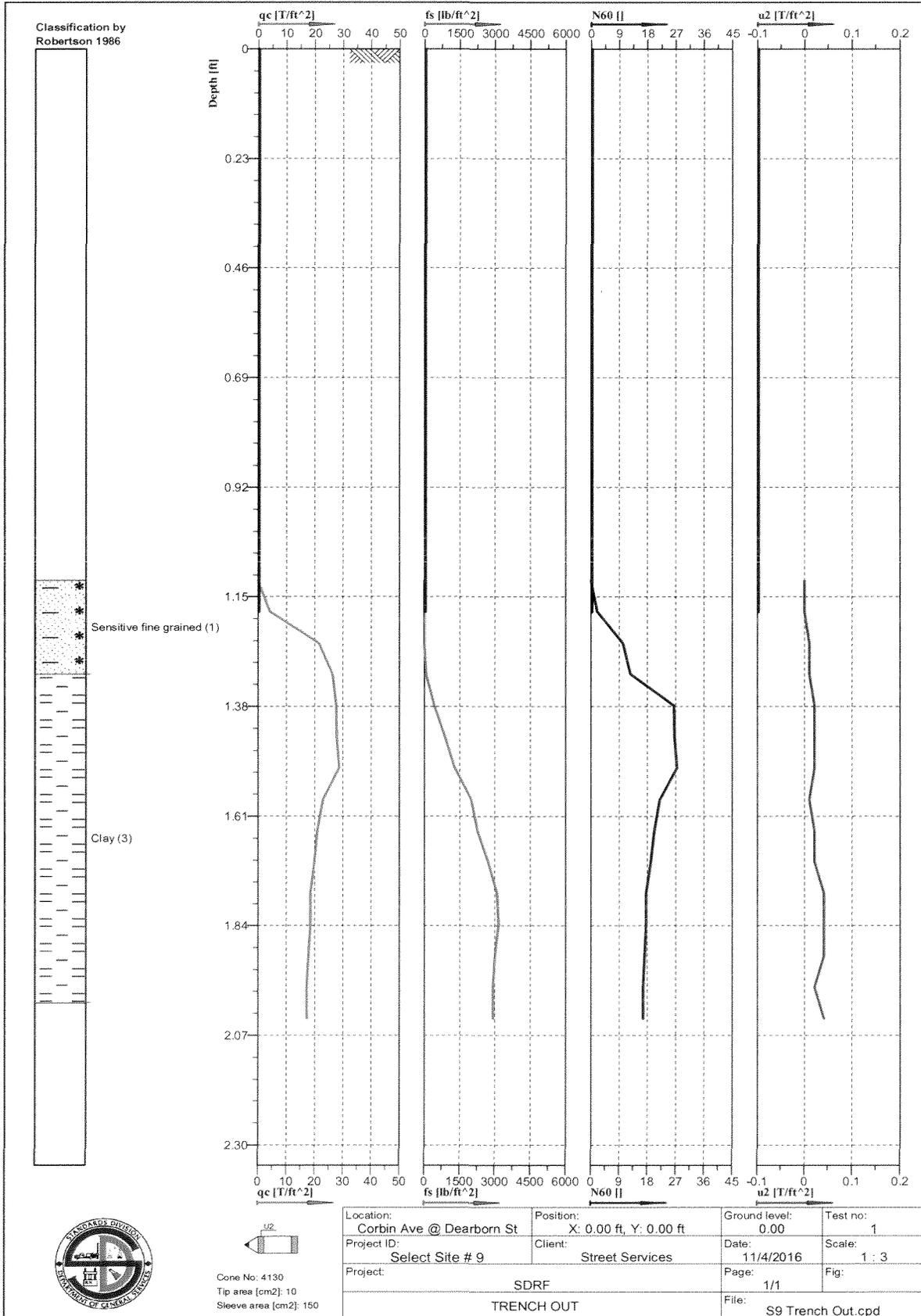
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 6600 Owensmouth Av.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 8	Client: Street Services	Date: 10/29/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S8 Control.cpd	

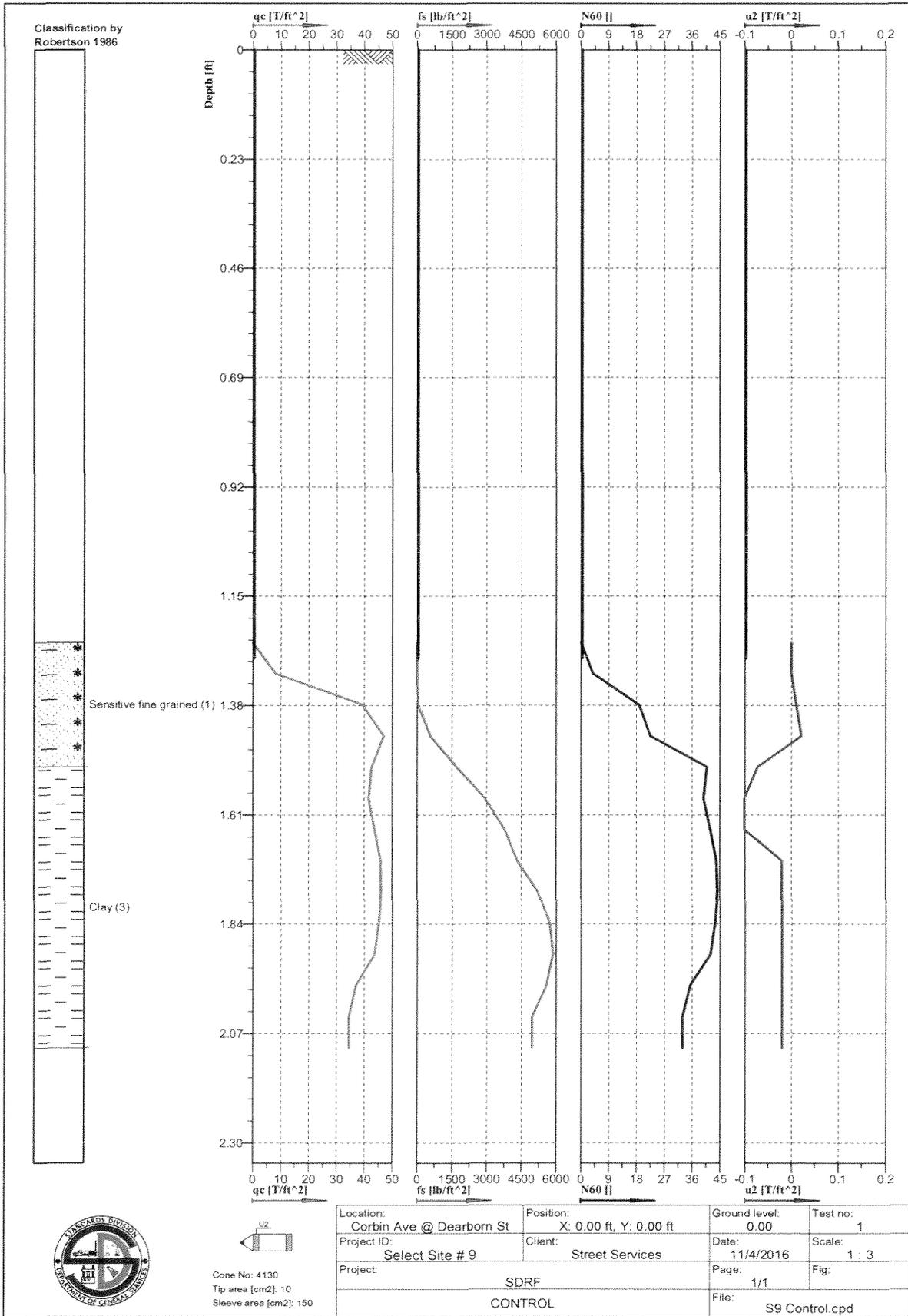
Lab No.: 17-741-133



Lab No.: 17-741-134



Lab No.: 17-741-135



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: Corbin Ave @ Dearborn St	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 9	Client: Street Services	Date: 11/4/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
CONTROL		File: S9 Control.cpd	

Trench backfill consists of cemented sand. No CPTU performed in this trench.

Asphalt thickness = 6.4”.

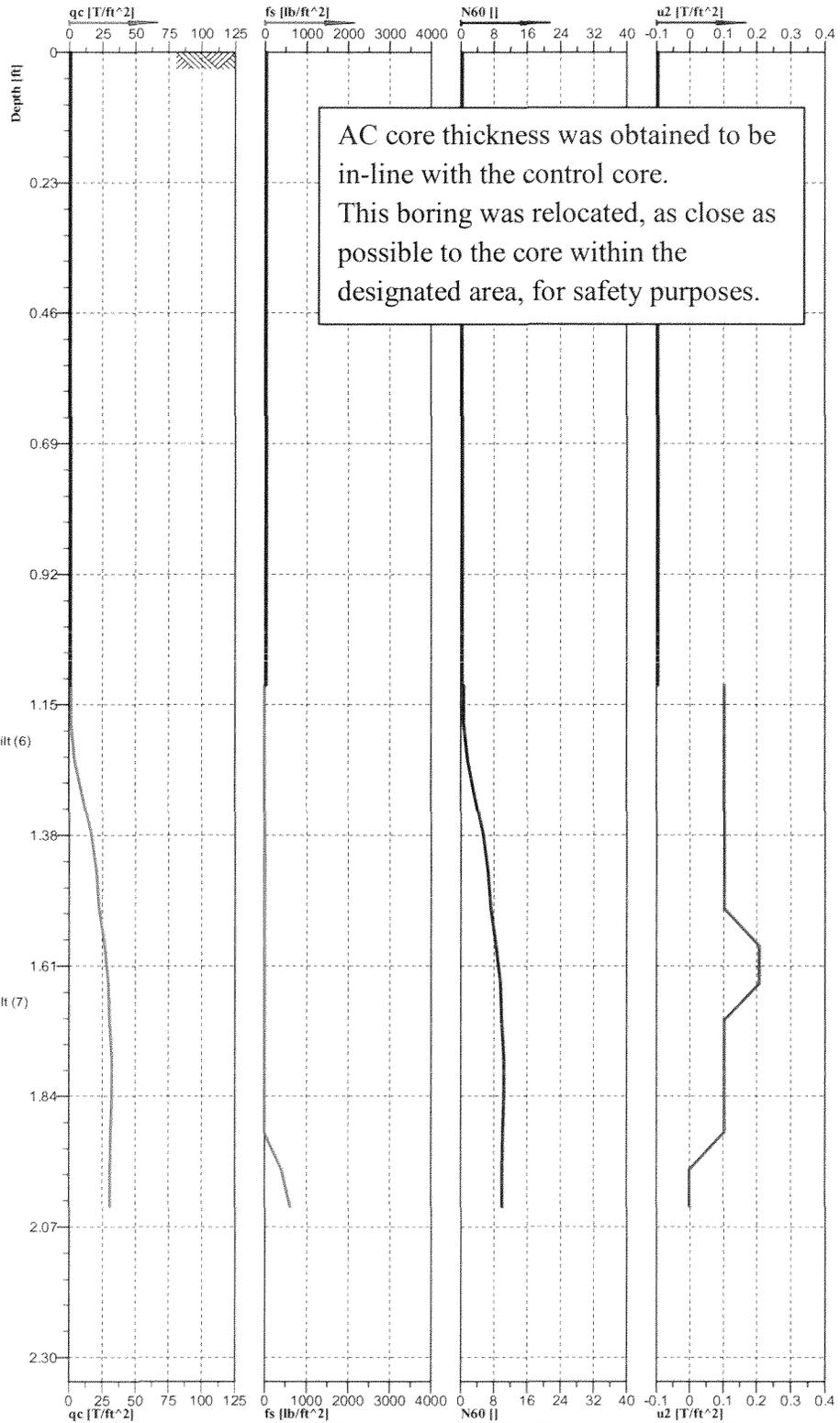
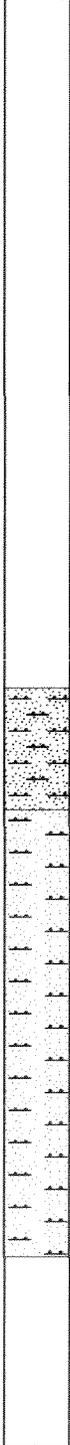


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 18011 Sherman Way	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 10	Client: Street Services	Date: 11/8/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S10 Trench In.cpd	

Lab No.: 17-741-137

Classification by
Robertson 1986



Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

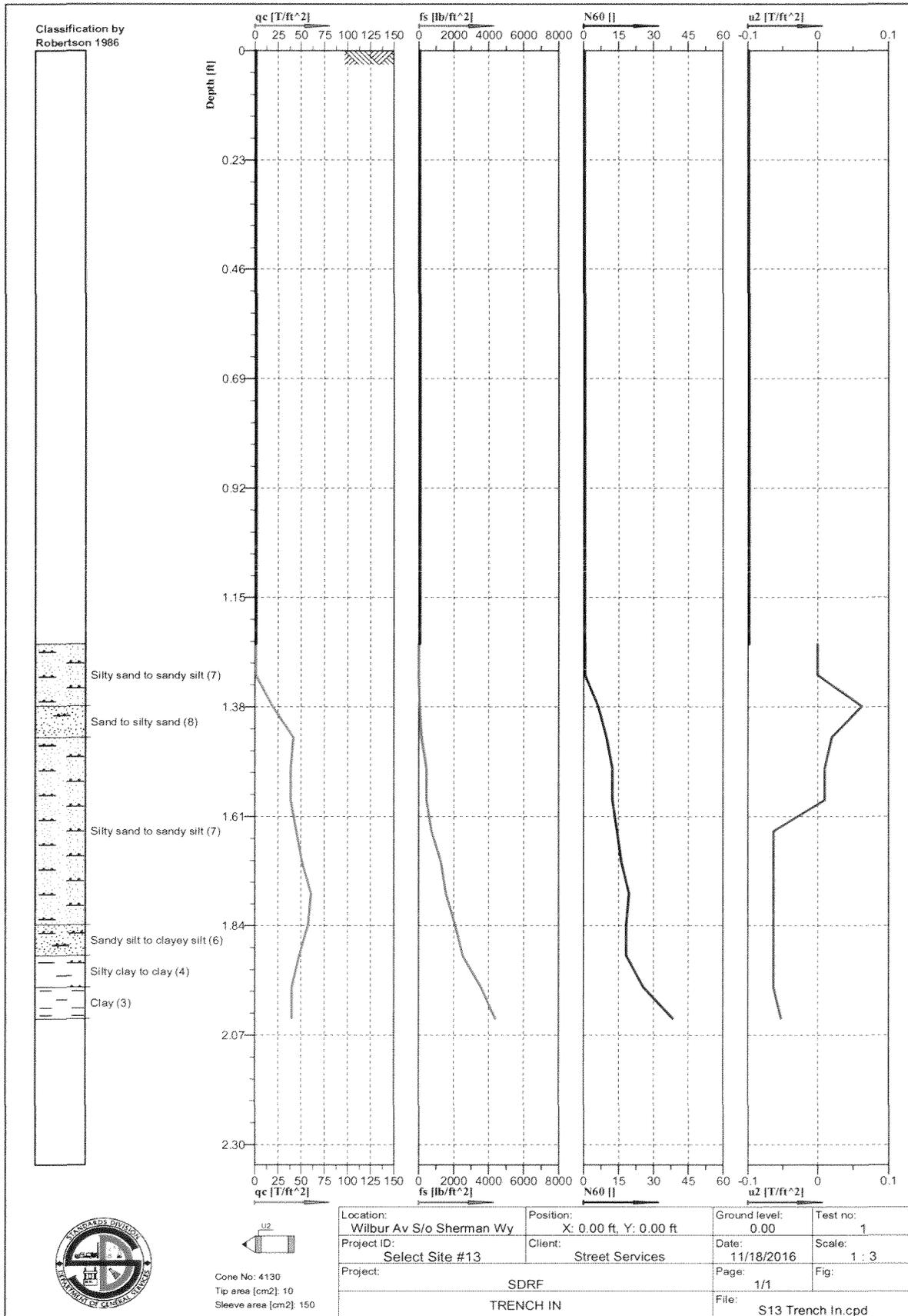
Location: 18011 Sherman Way	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 10	Client: Street Services	Date: 11/8/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1
TRENCH OUT		File: S10 Trench Out.cpd	

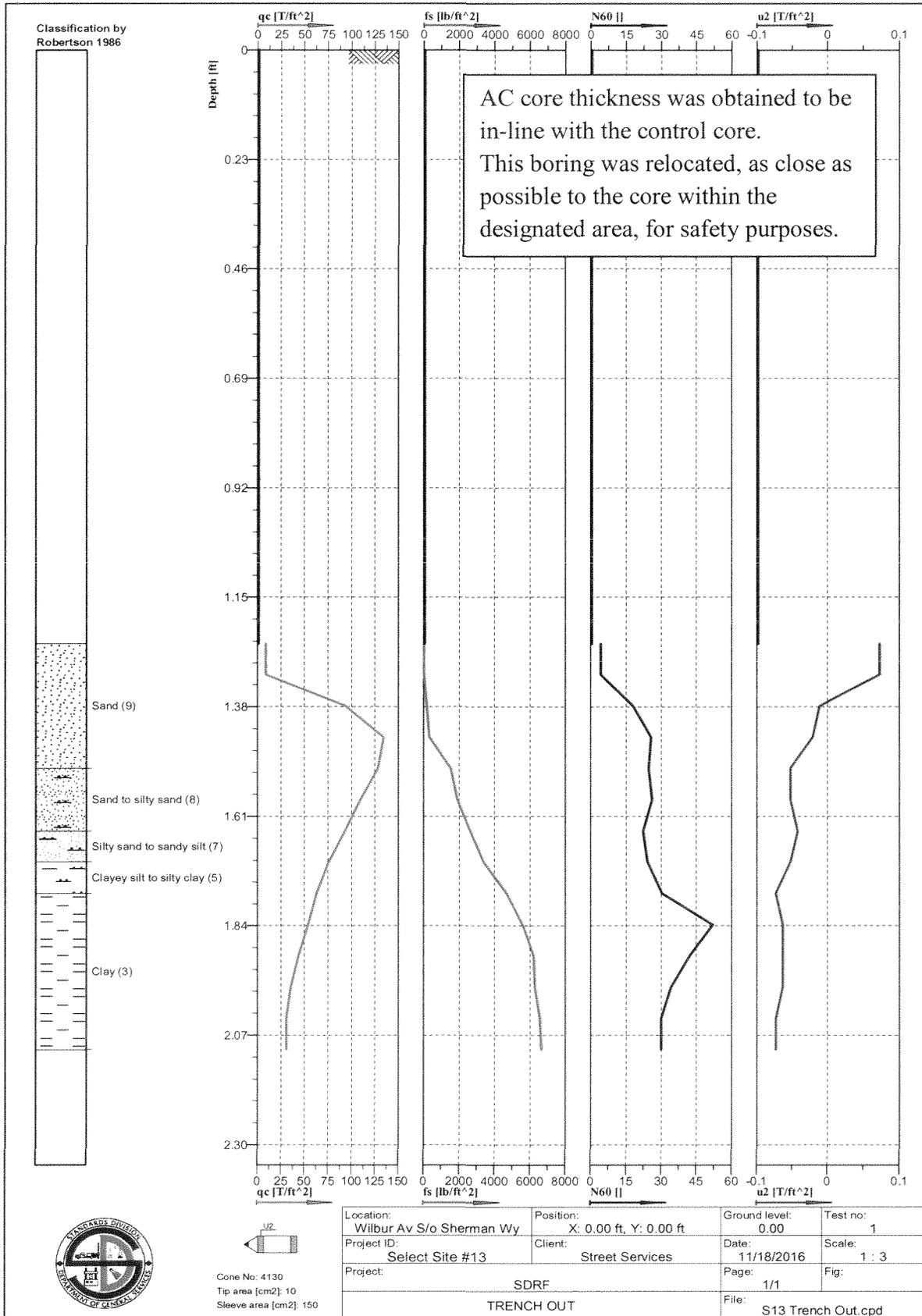
Lab No.: 17-741-138

Could not penetrate soil with CPTU cone. No CPTU performed.
Asphalt thickness = 6.8".

		Location: 18011 Sherman Way	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
		Project ID: Select Site # 10	Client: Street Services	Date: 11/8/2016	Scale: 1 : 3
Cone No: 4130 Tip area [cm2]: 10 Sleeve area [cm2]: 150	Project: SDRF			Page: 1/1	Fig:
	CONTROL			File: S10 Control.cpd	

Lab No.: 17-741-139





Lab No.: 17-741-141

High pressure gas, 36" diameter is located directly under control area.
Penetration not allowed. No CPTU performed.

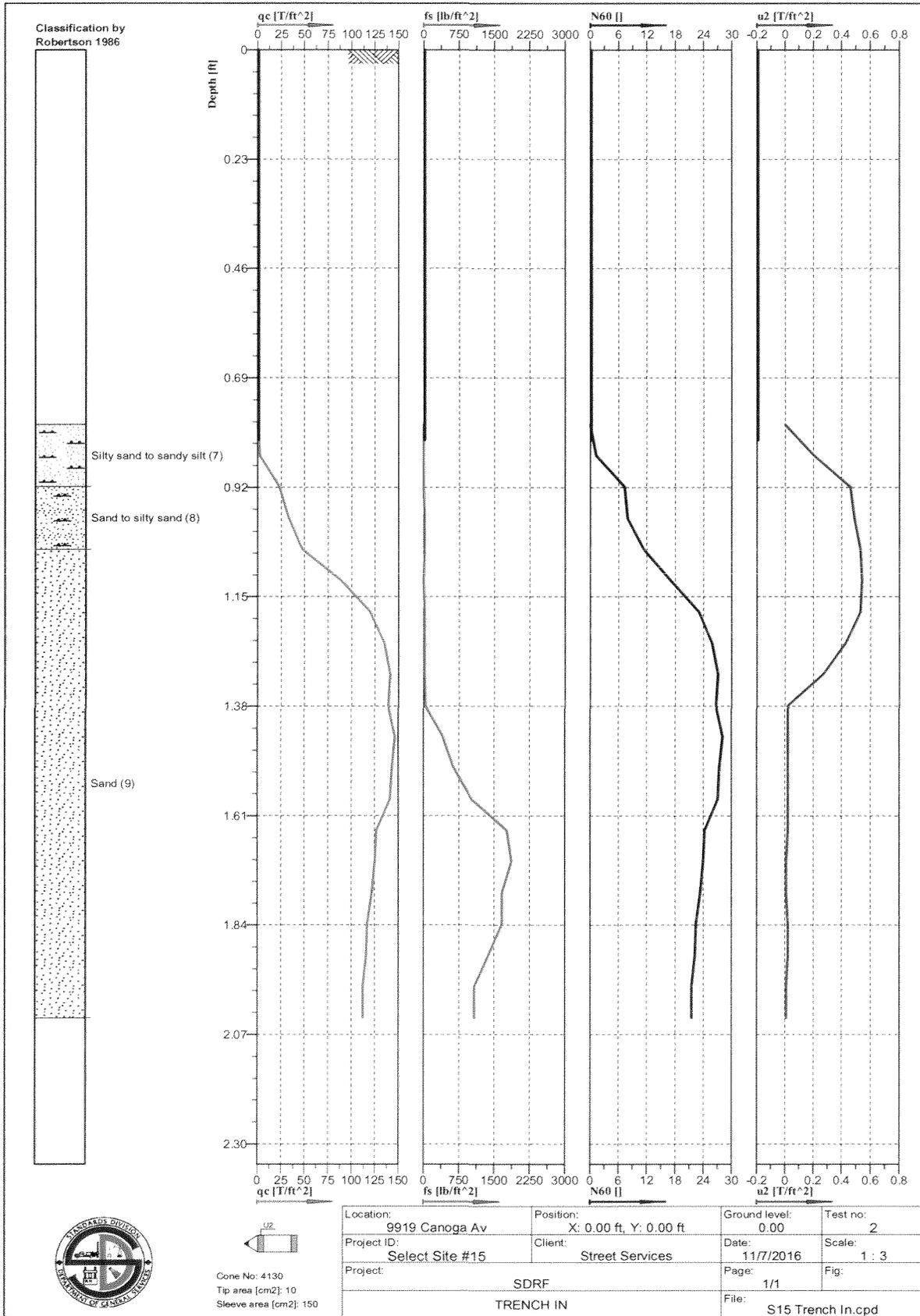
Asphalt thickness = 9.0".



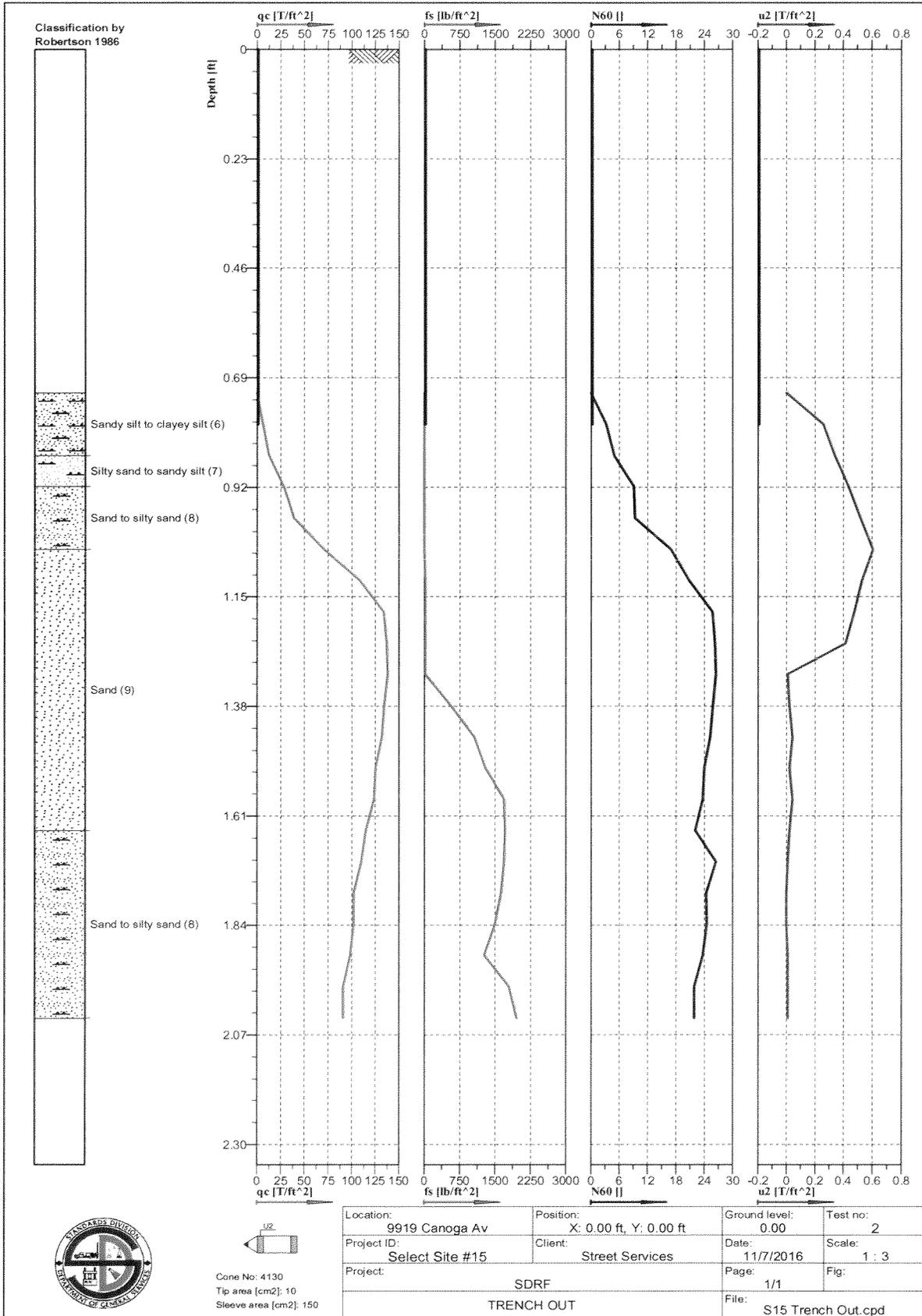
Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: Wilbur Av S/o Sherman Wy	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site #13	Client: Street Services	Date: 11/18/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S13 Control.cpd	

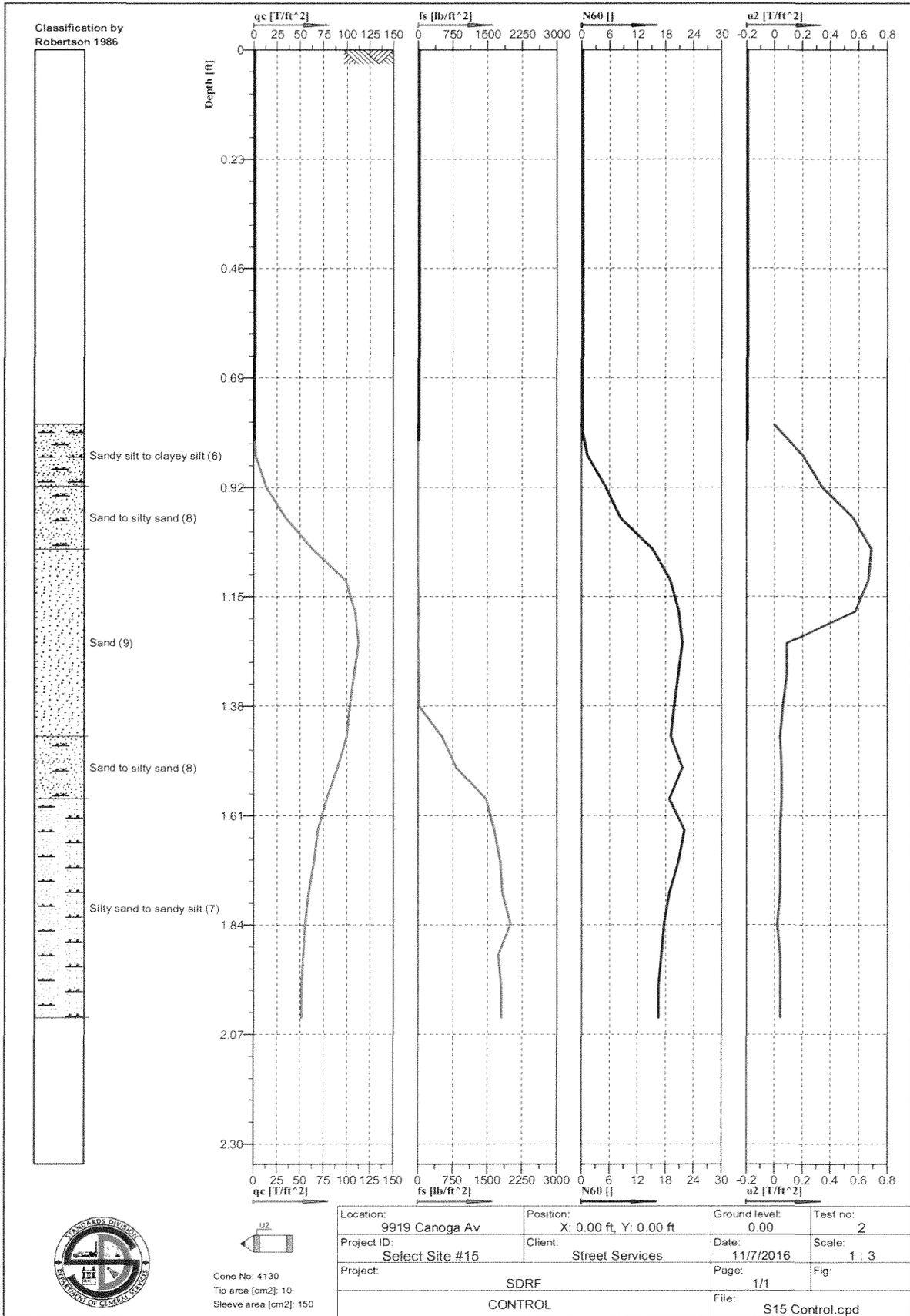
Lab No.: 17-741-142



Lab No.: 17-741-143



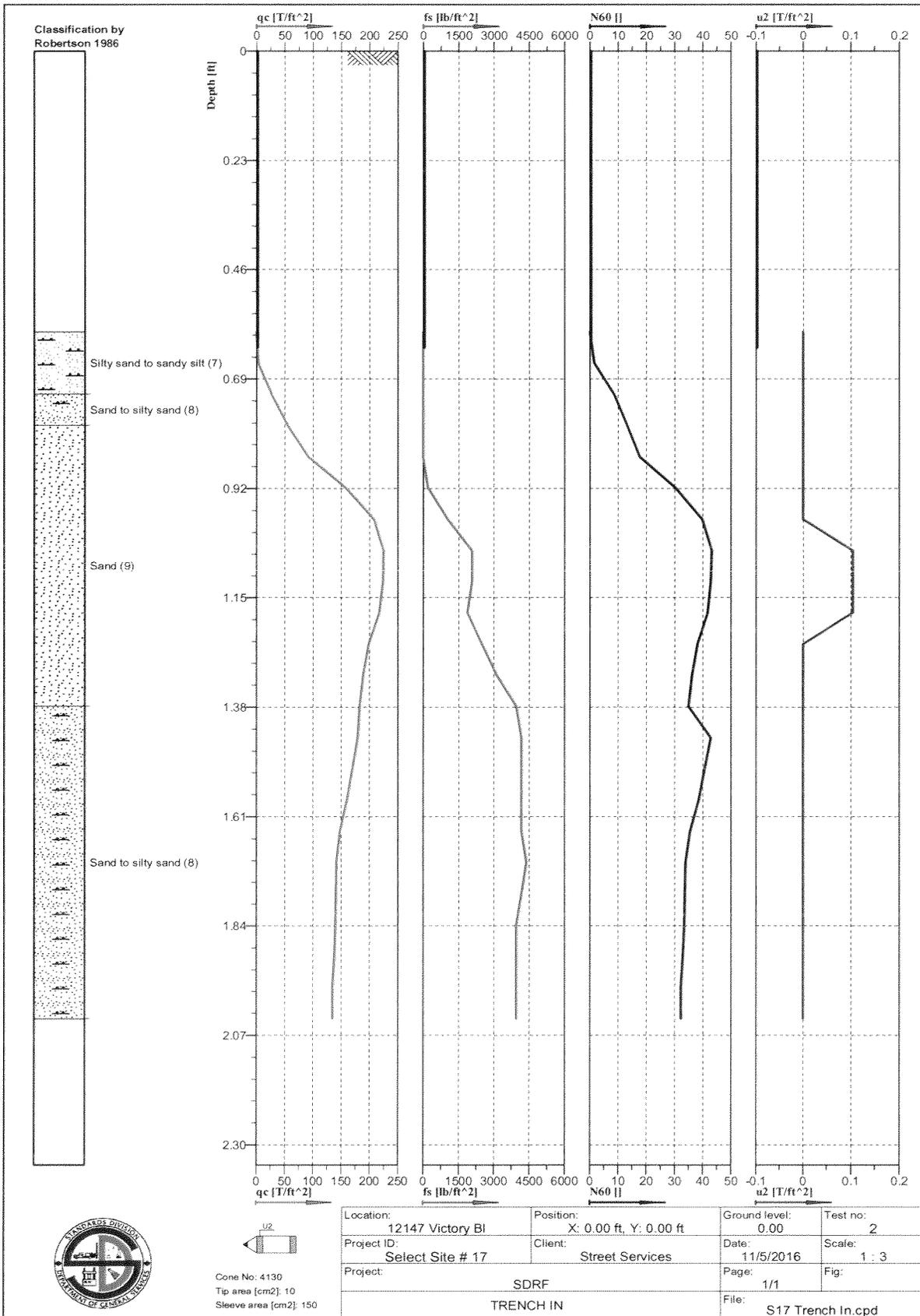
Lab No.: 17-741-144



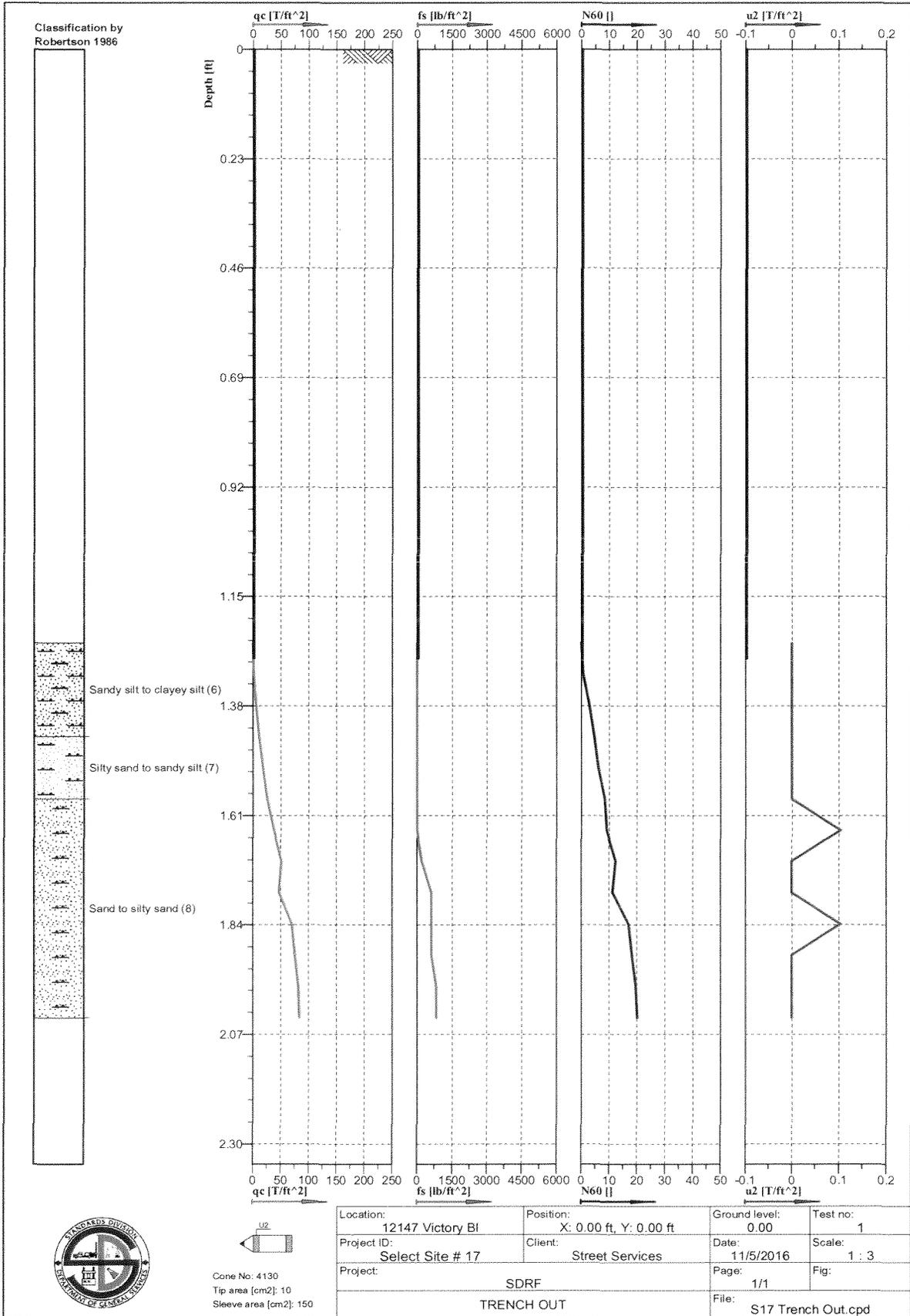
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location:	9919 Canoga Av	Position:	X: 0.00 ft, Y: 0.00 ft	Ground level:	0.00	Test no:	2
Project ID:	Select Site #15	Client:	Street Services	Date:	11/7/2016	Scale:	1 : 3
Project:	SDRF		Page:	1/1	Fig:		
	CONTROL		File:	S15 Control.cpd			

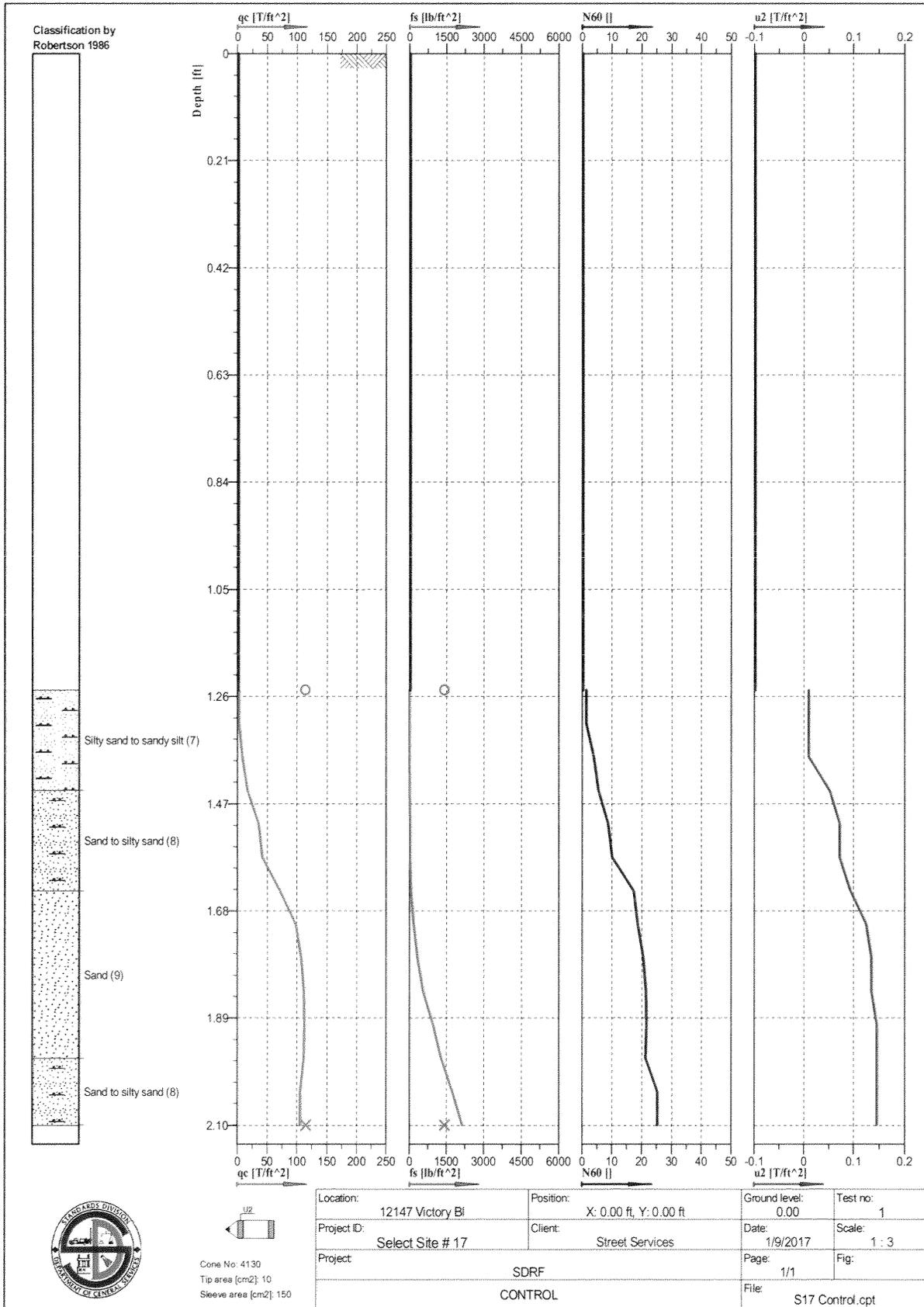
Lab No.: 17-741-145



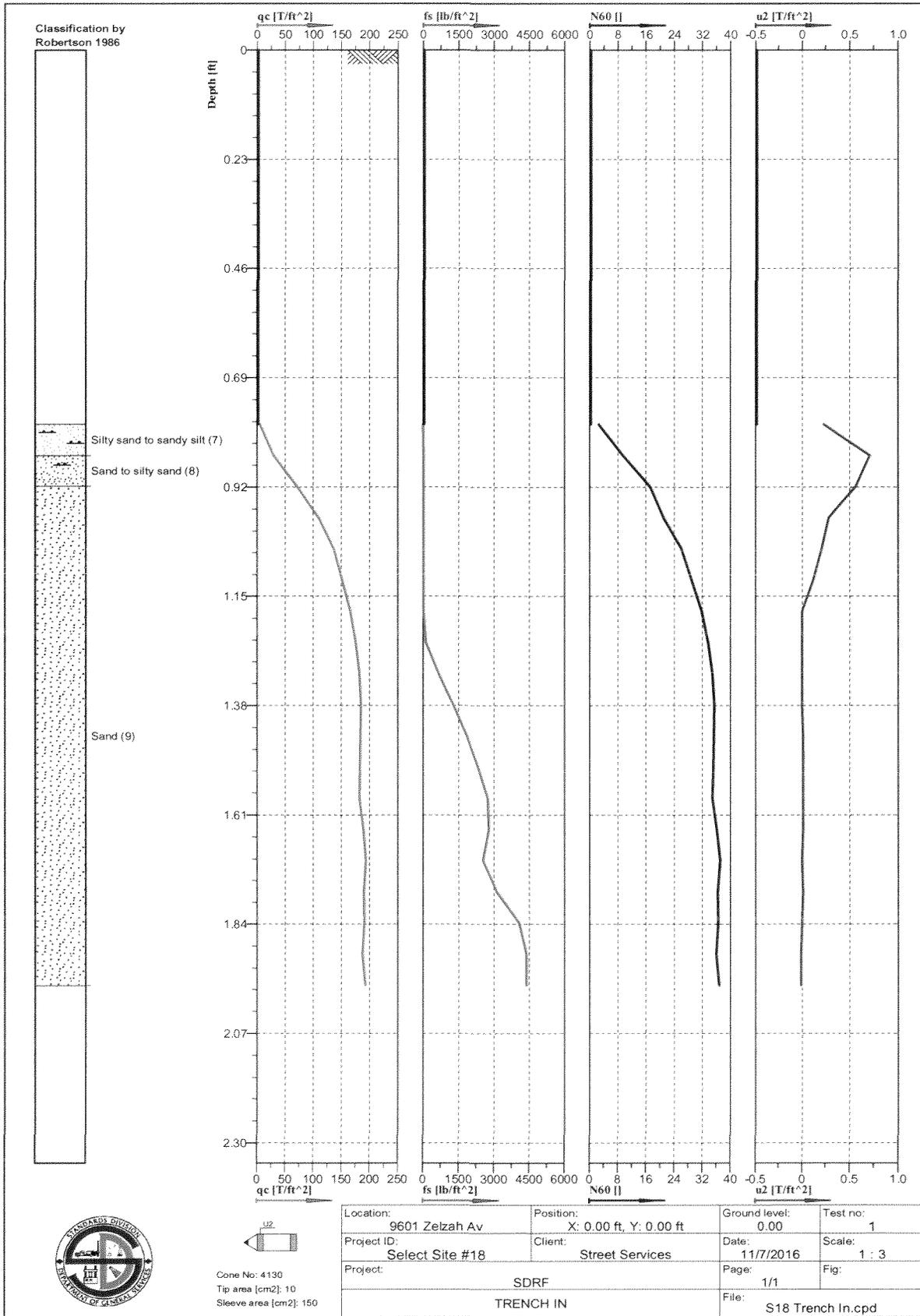
Lab No.: 17-741-146



Lab No.: 17-741-147



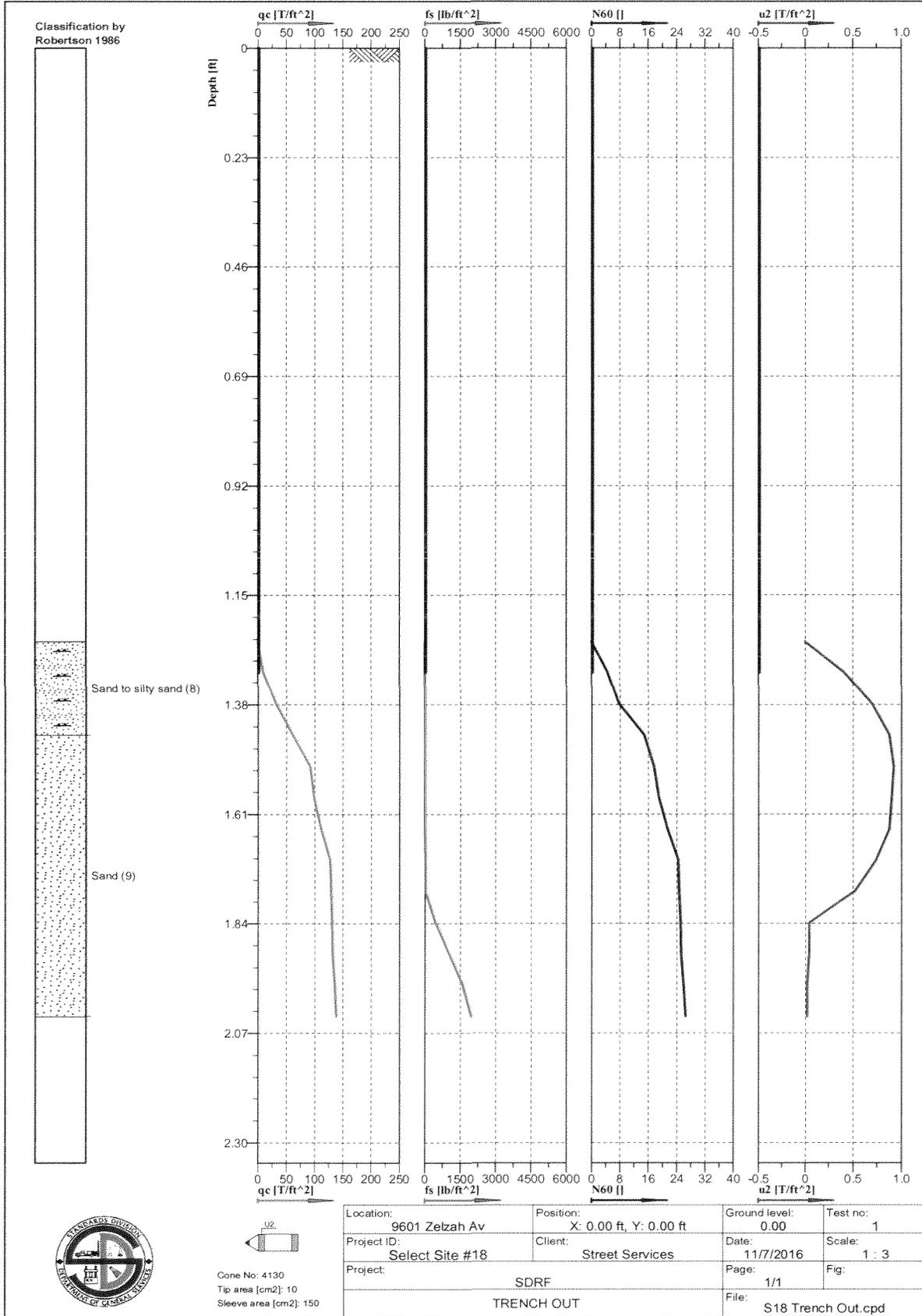
Lab No.: 17-741-148



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

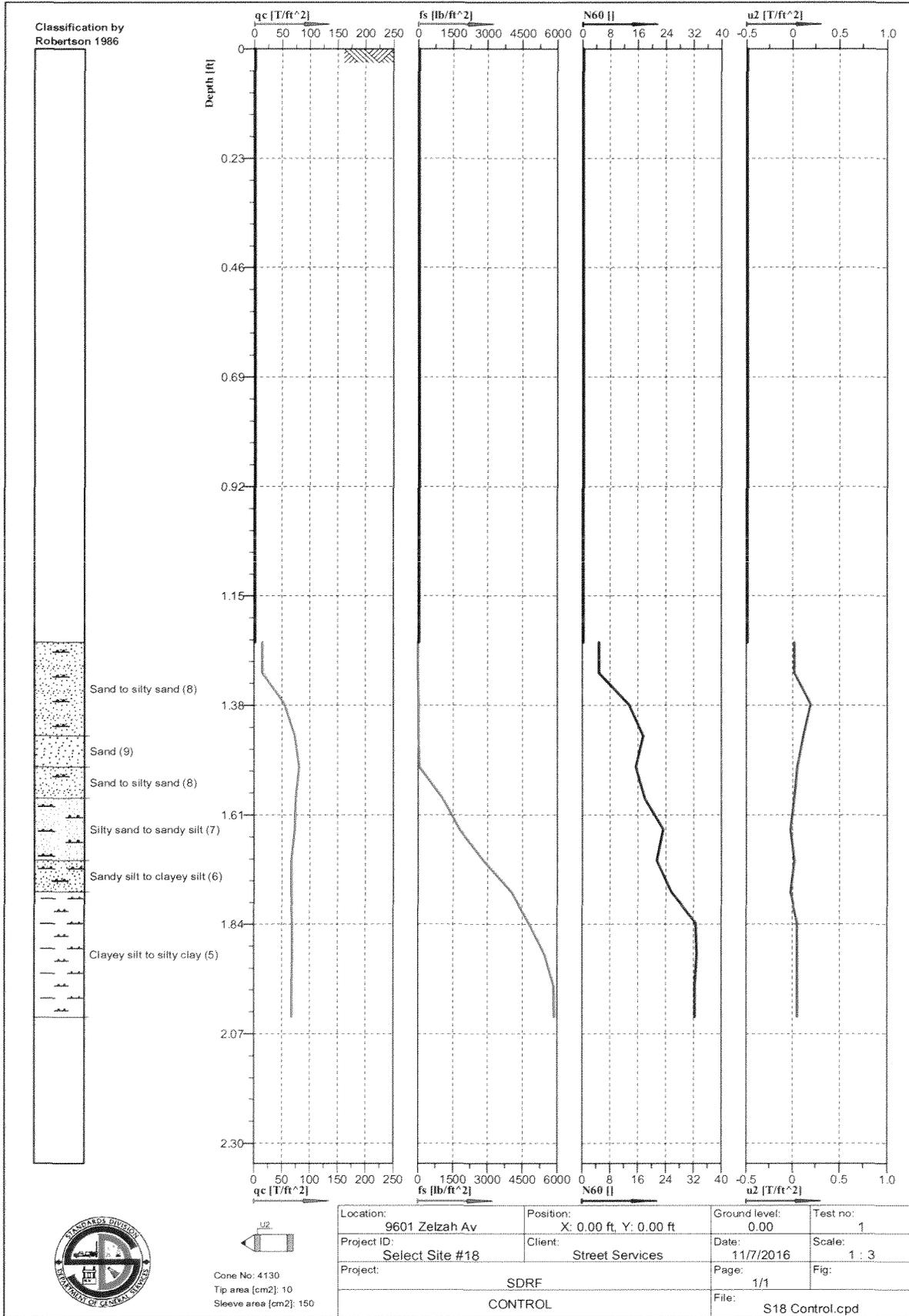
Location: 9601 Zelzah Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site #18	Client: Street Services	Date: 11/7/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S18 Trench In.cpd	

Lab No.: 17-741-149

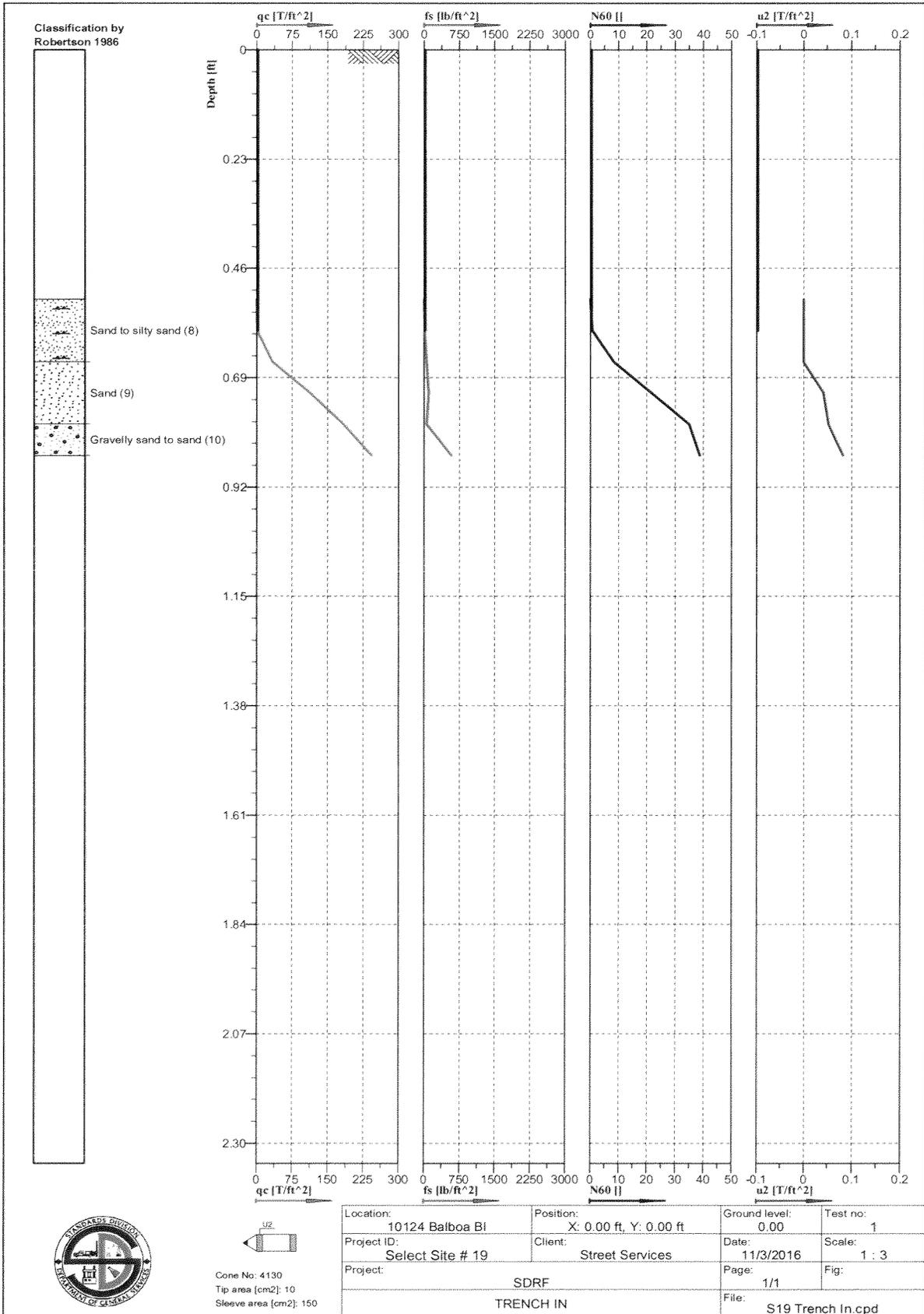


Location: 9601 Zelzah Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site #18	Client: Street Services	Date: 11/7/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH OUT		File: S18 Trench Out.cpd	

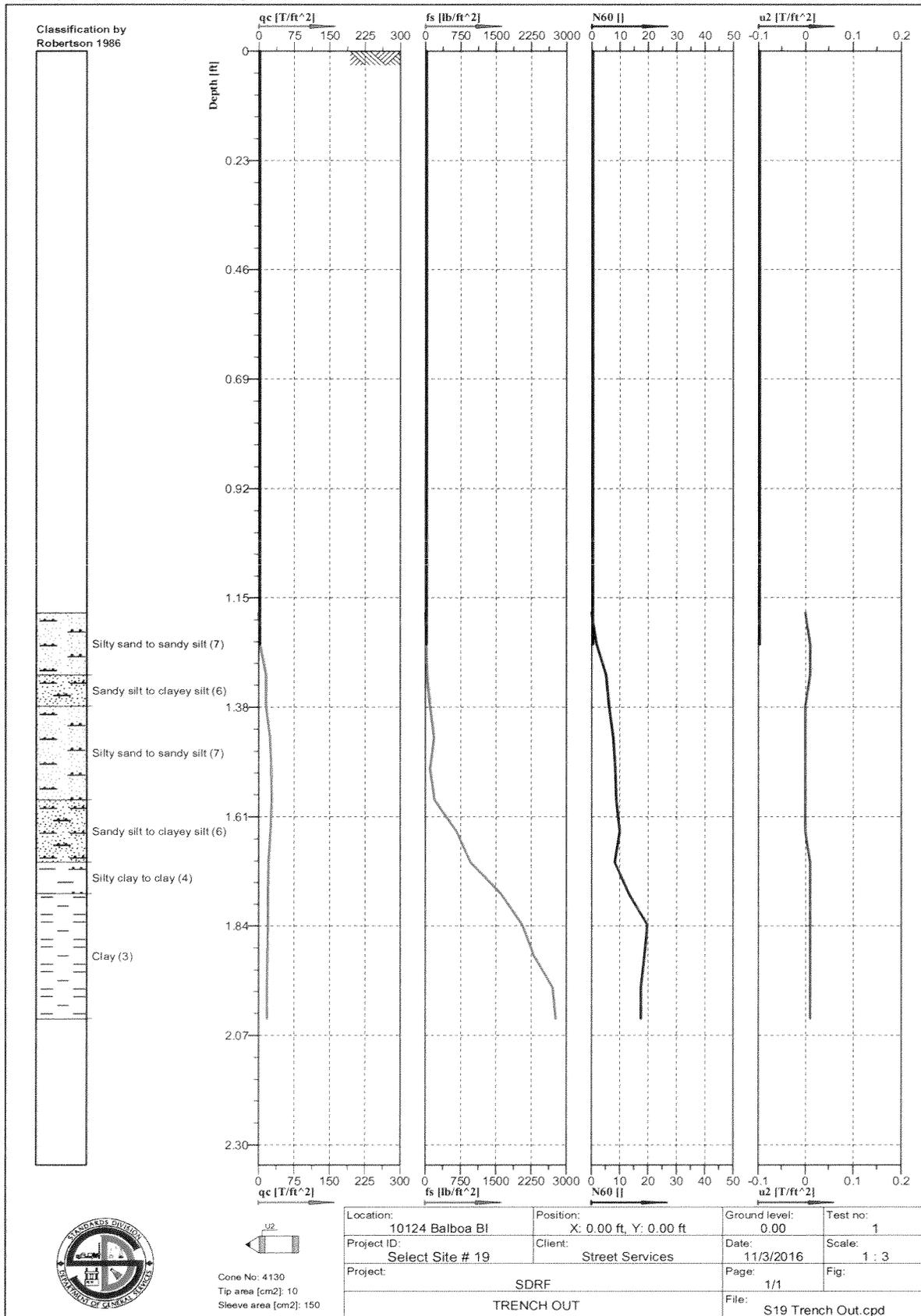
Lab No.: 17-741-150



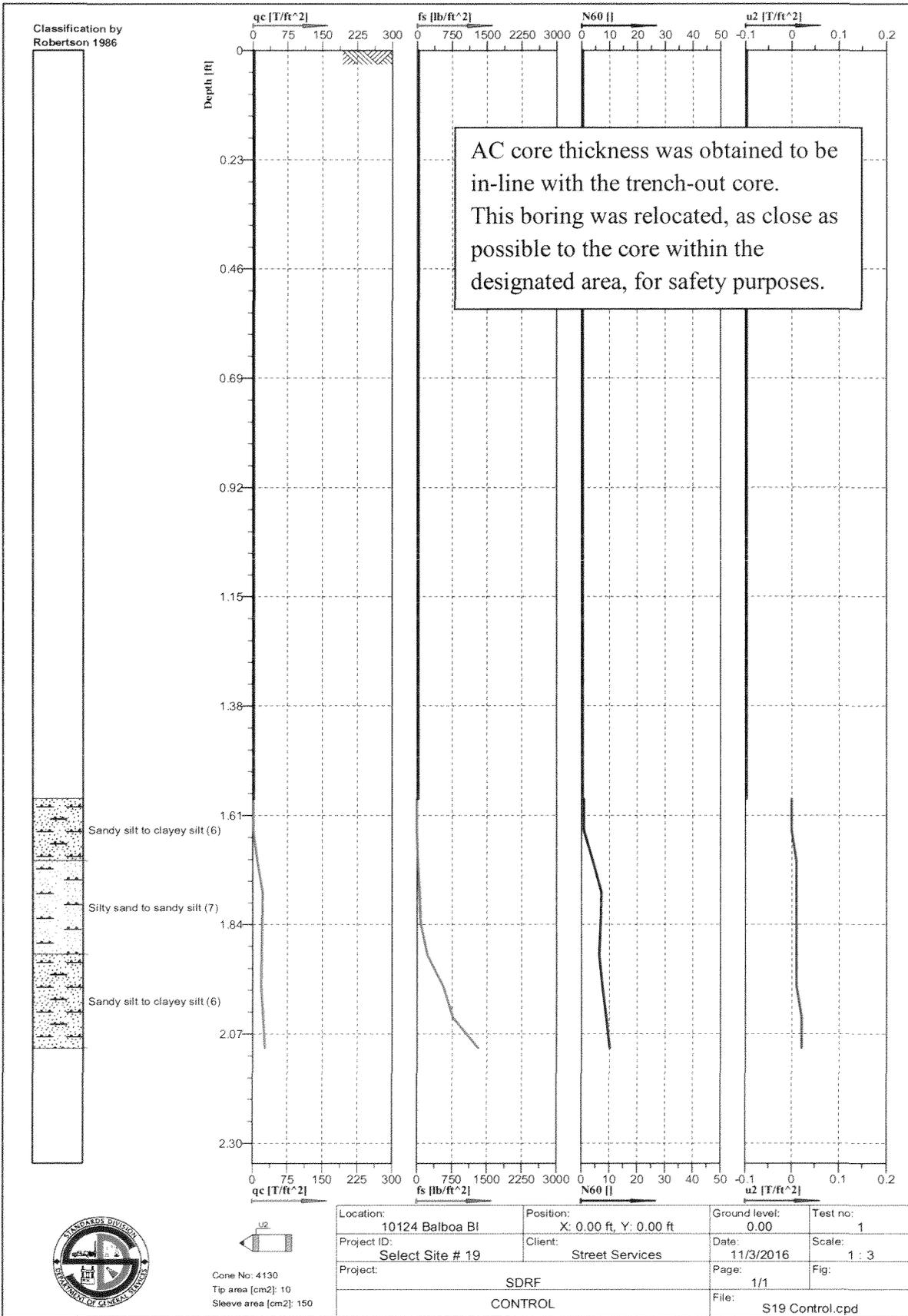
Lab No.: 17-741-151



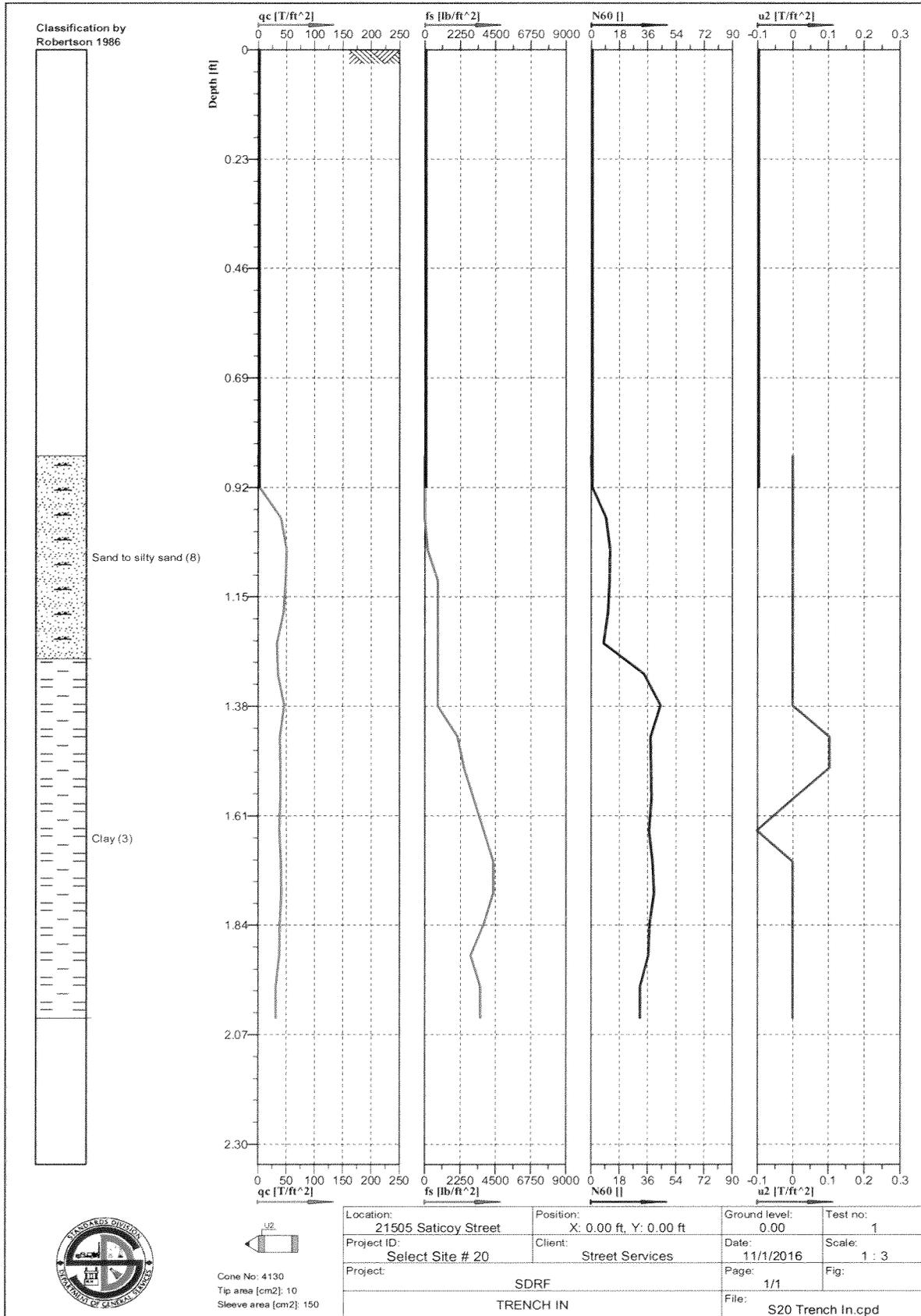
Lab No.: 17-741-152



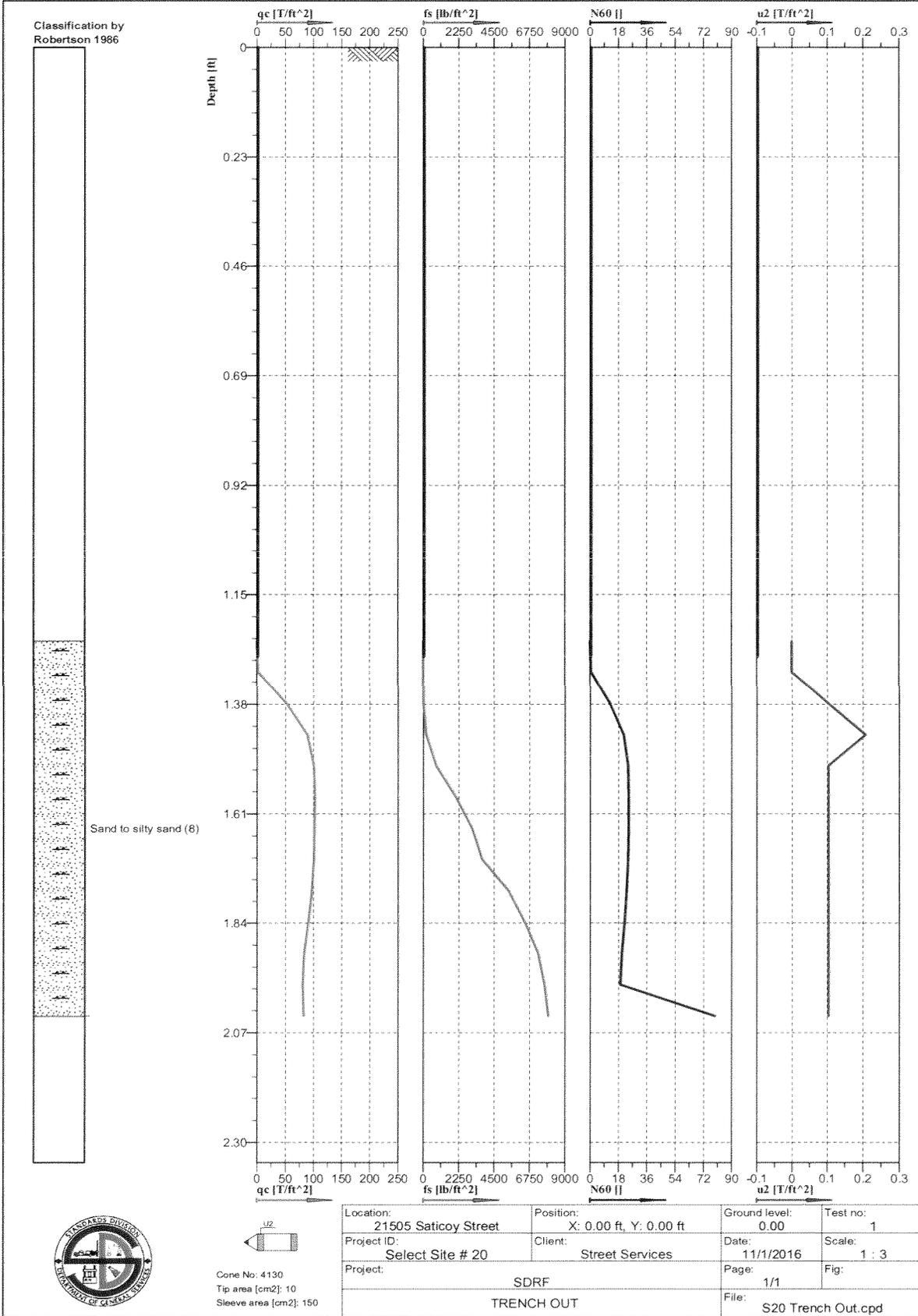
Lab No.: 17-741-153



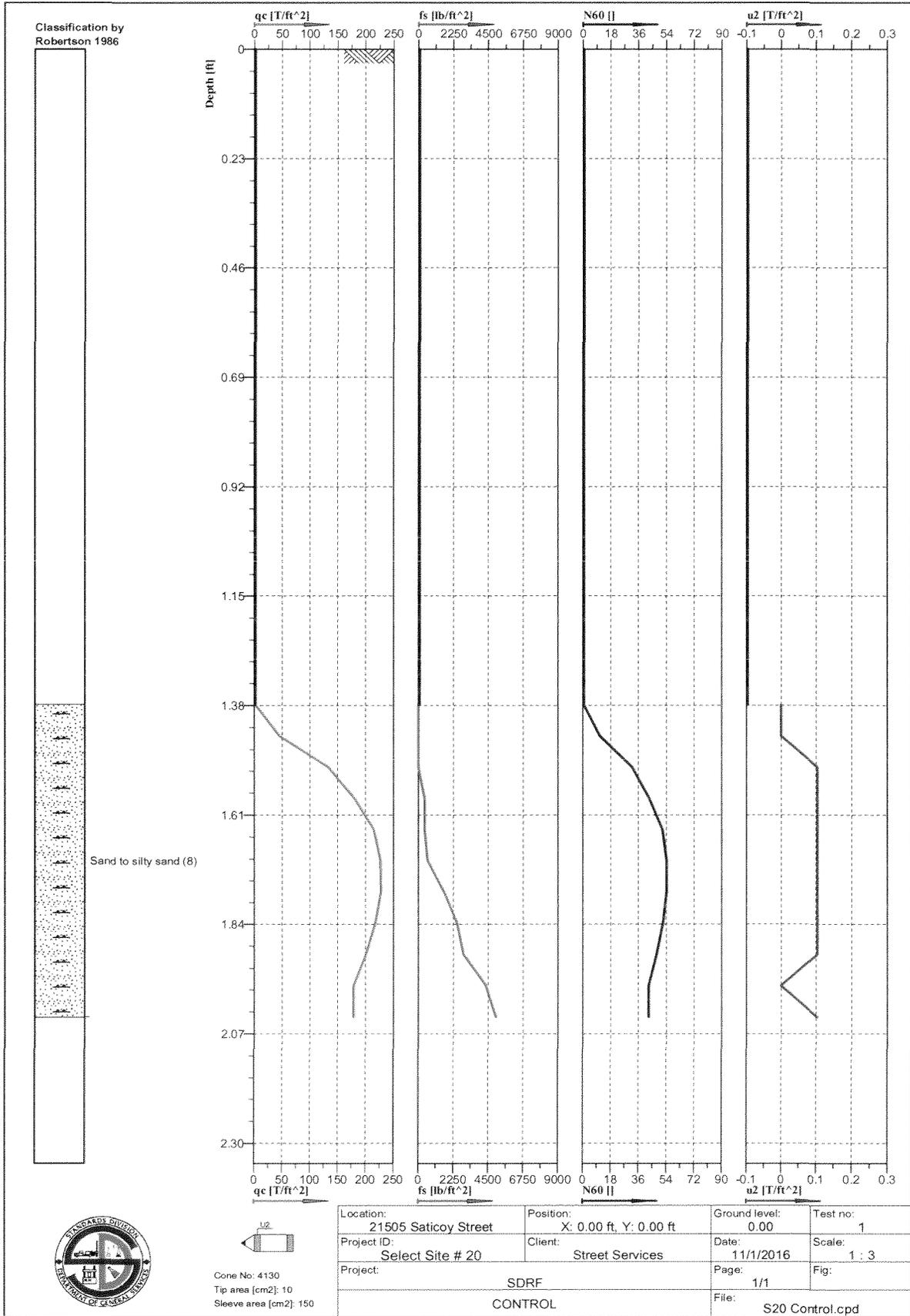
Location: 10124 Balboa Bl	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 19	Client: Street Services	Date: 11/3/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S19 Control.cpd	



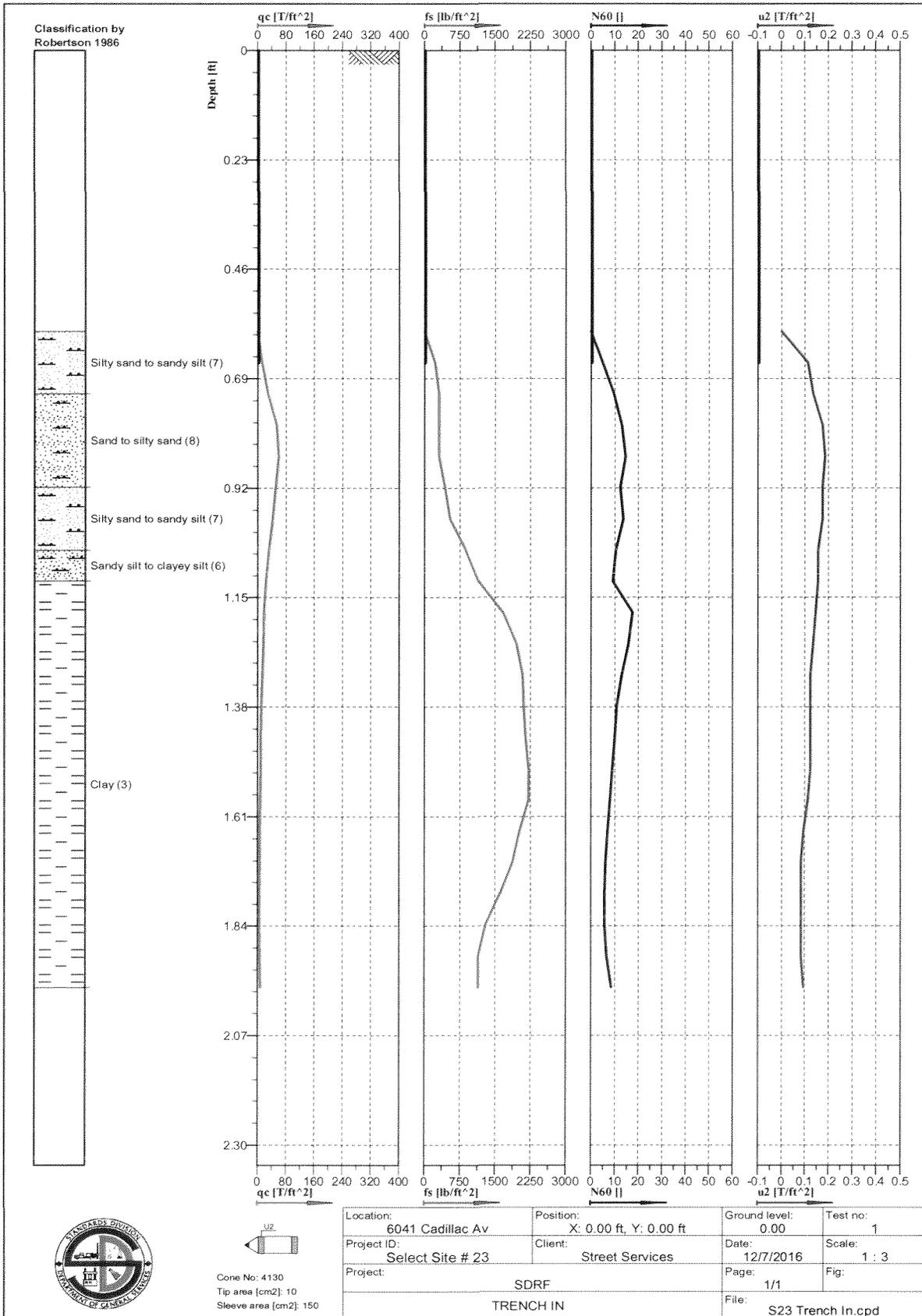
Lab No.: 17-741-155



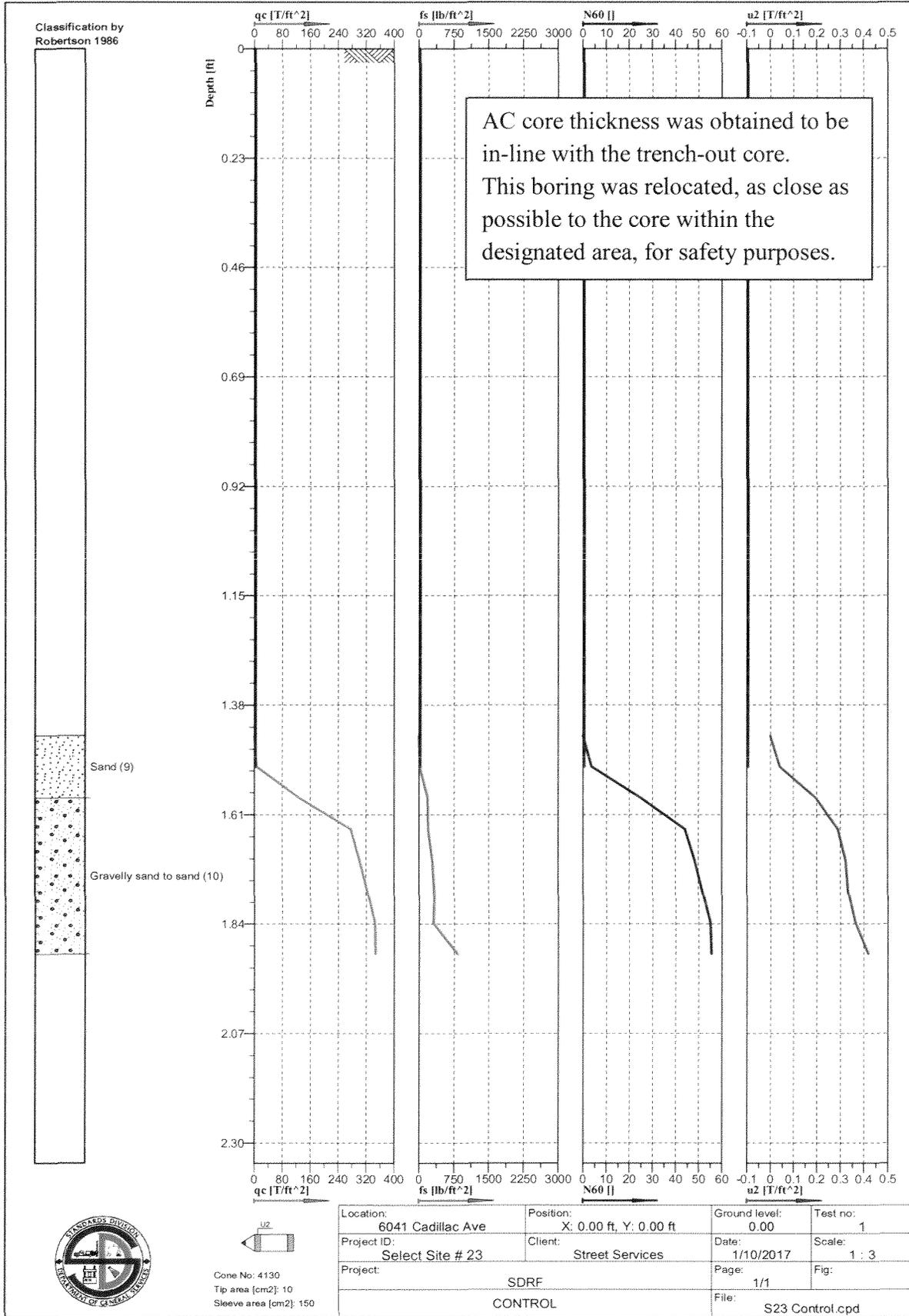
Lab No.: 17-741-156



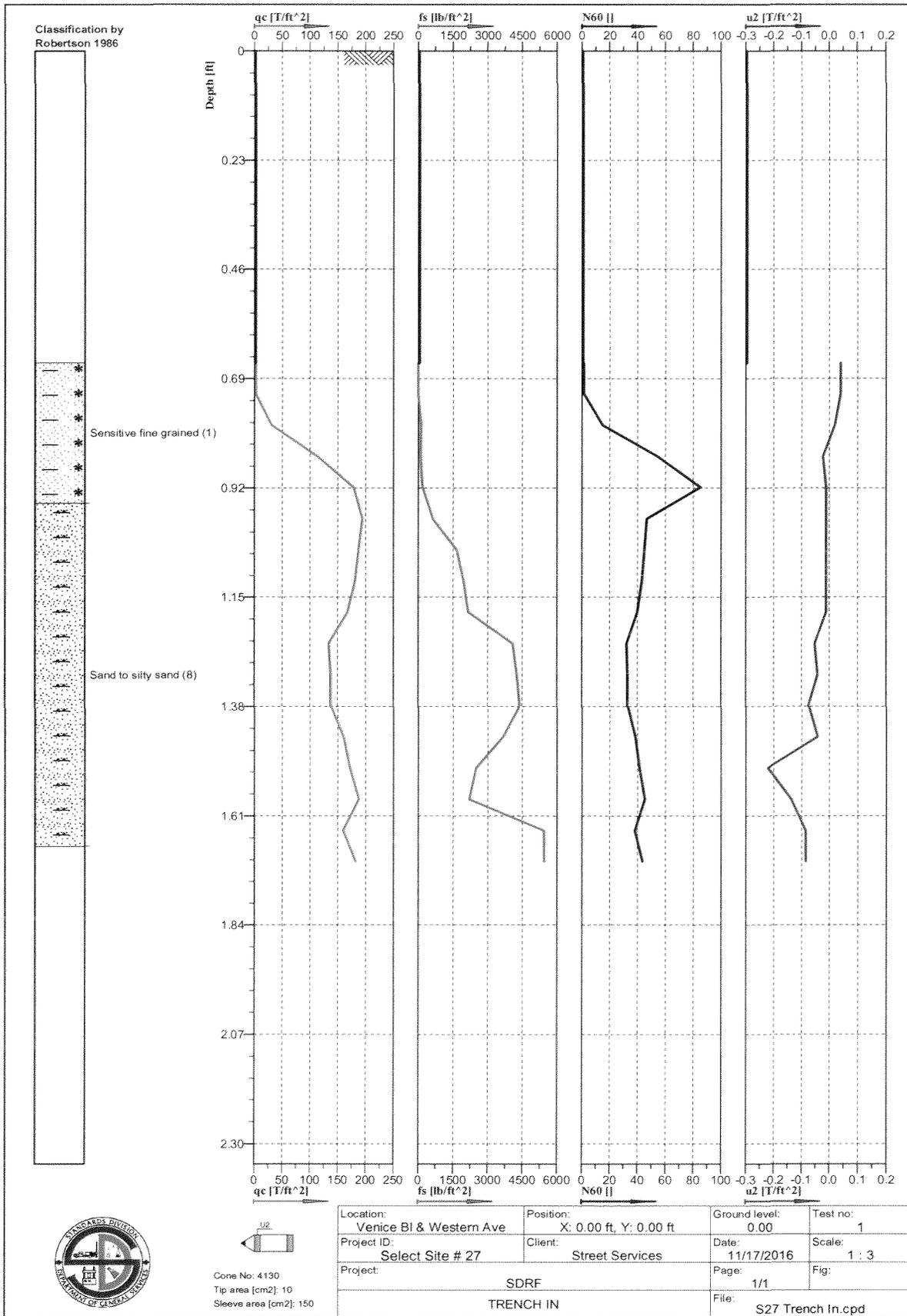
Lab No.: 17-741-157



Lab No.: 17-741-159



Lab No.: 17-741-160



Lab No.: 17-741-161

Railroad ties and ballast were found under the street.

Could not penetrate. No CPTU performed.

Asphalt thickness = 11.1”.



Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: Venice Bl & Western Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 27	Client: Street Services	Date: 11/17/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH OUT		File: S27 Trench Out.cpd	

Railroad ties and ballast were found under the street.

Could not penetrate. No CPTU performed.

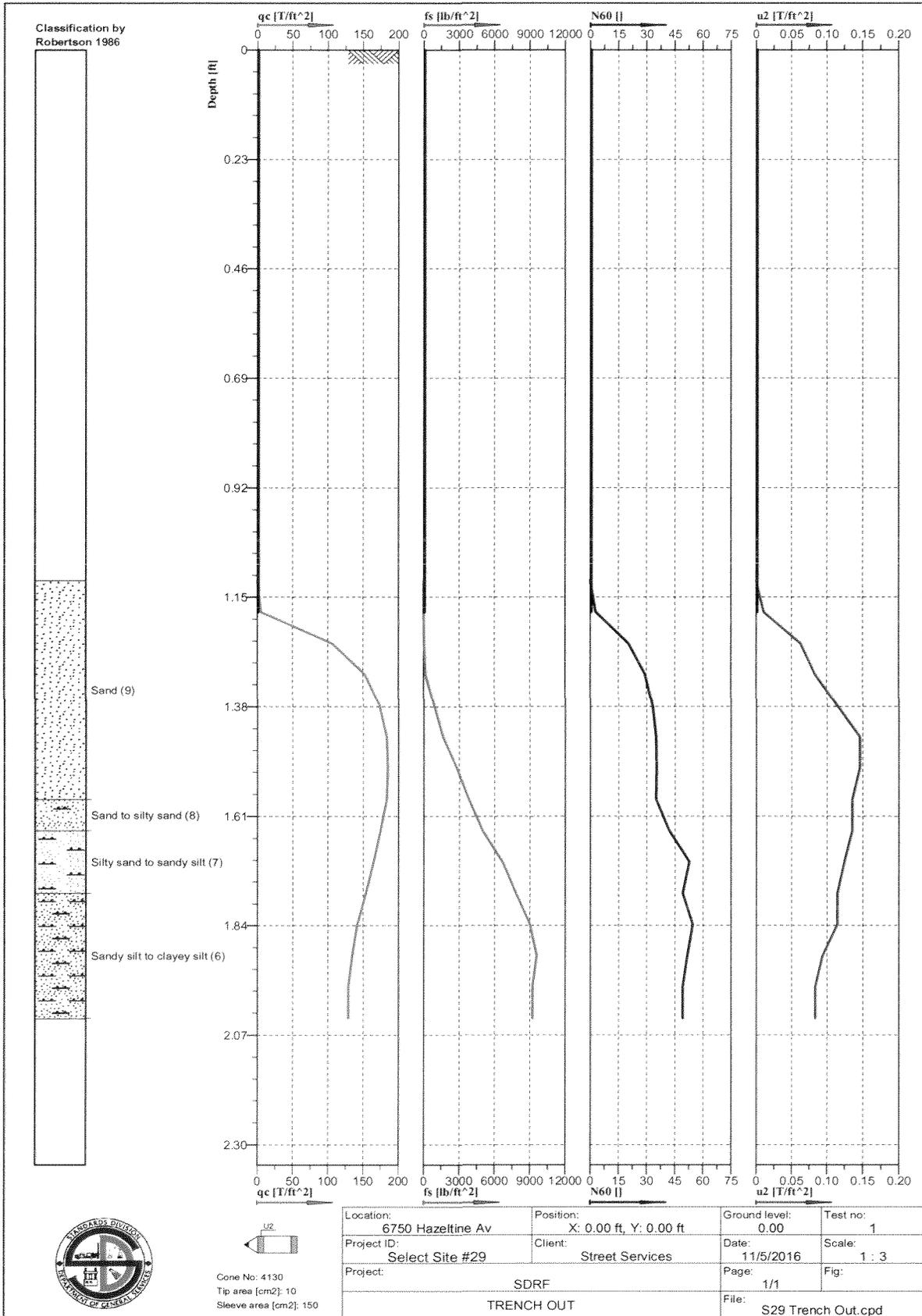
Asphalt thickness = 12.0”.



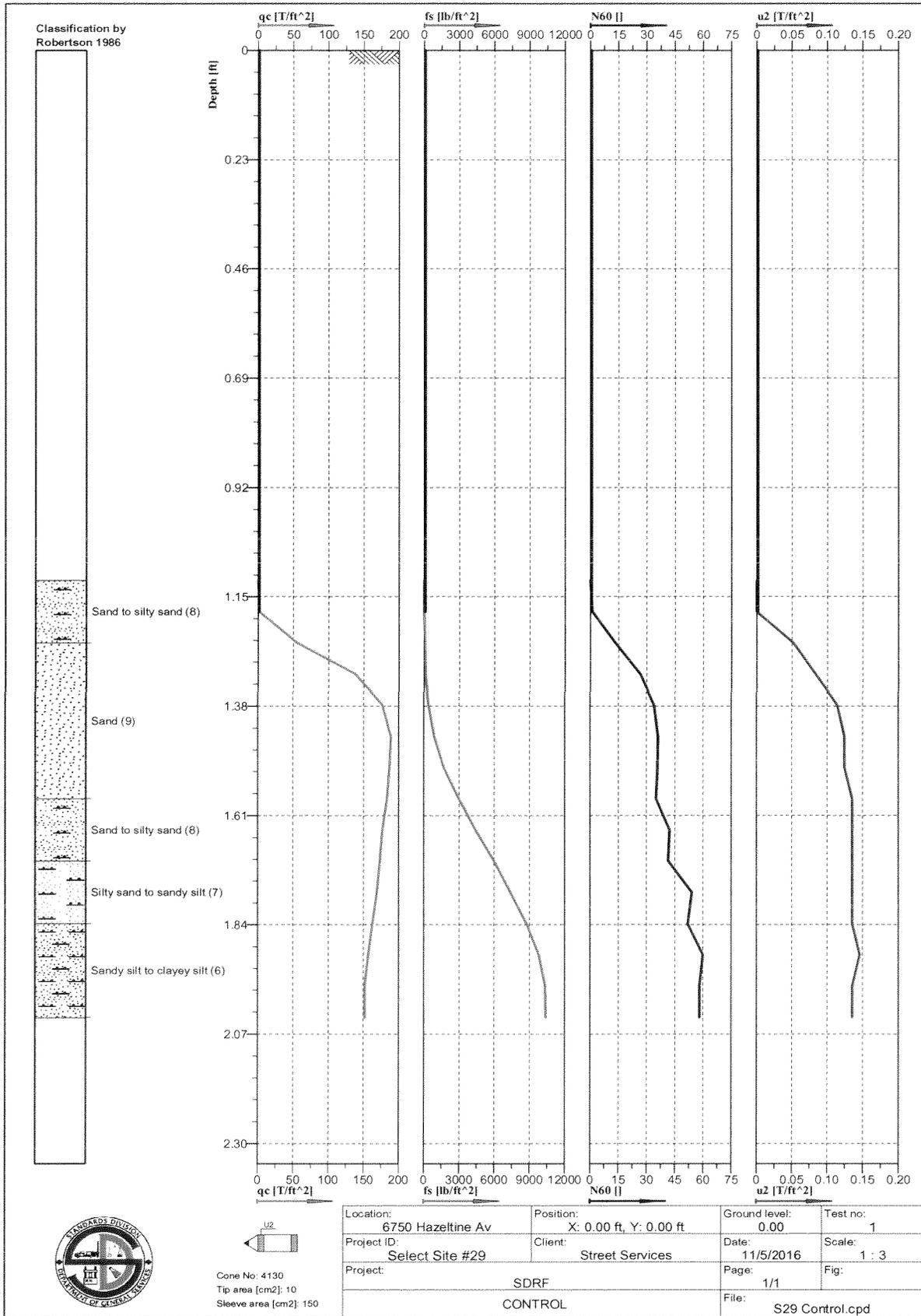
Cone No: 4130
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Venice Bl & Western Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 27	Client: Street Services	Date: 11/17/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S27 Control.cpd	

Lab No.: 17-741-164



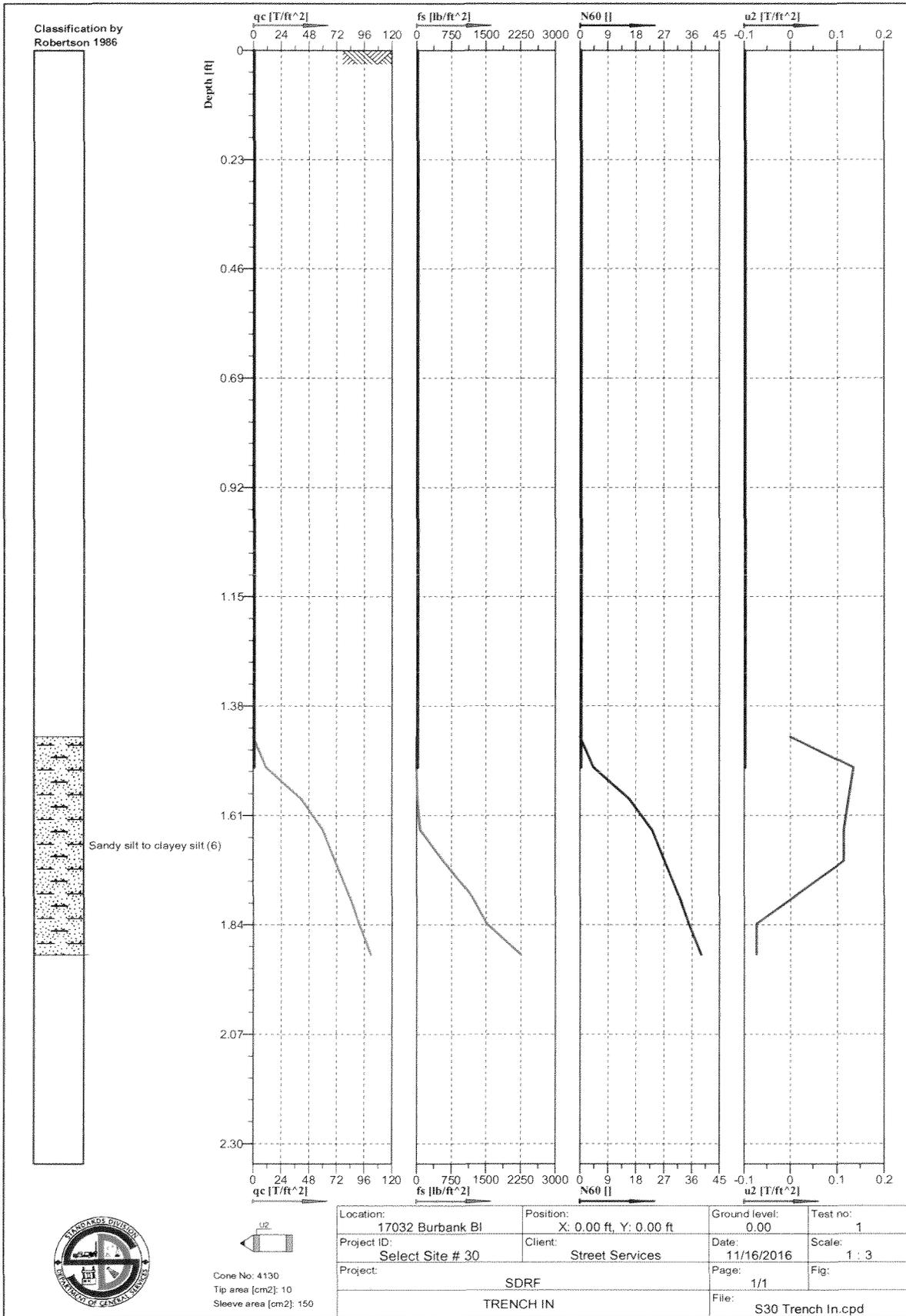
Lab No.: 17-741-165



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

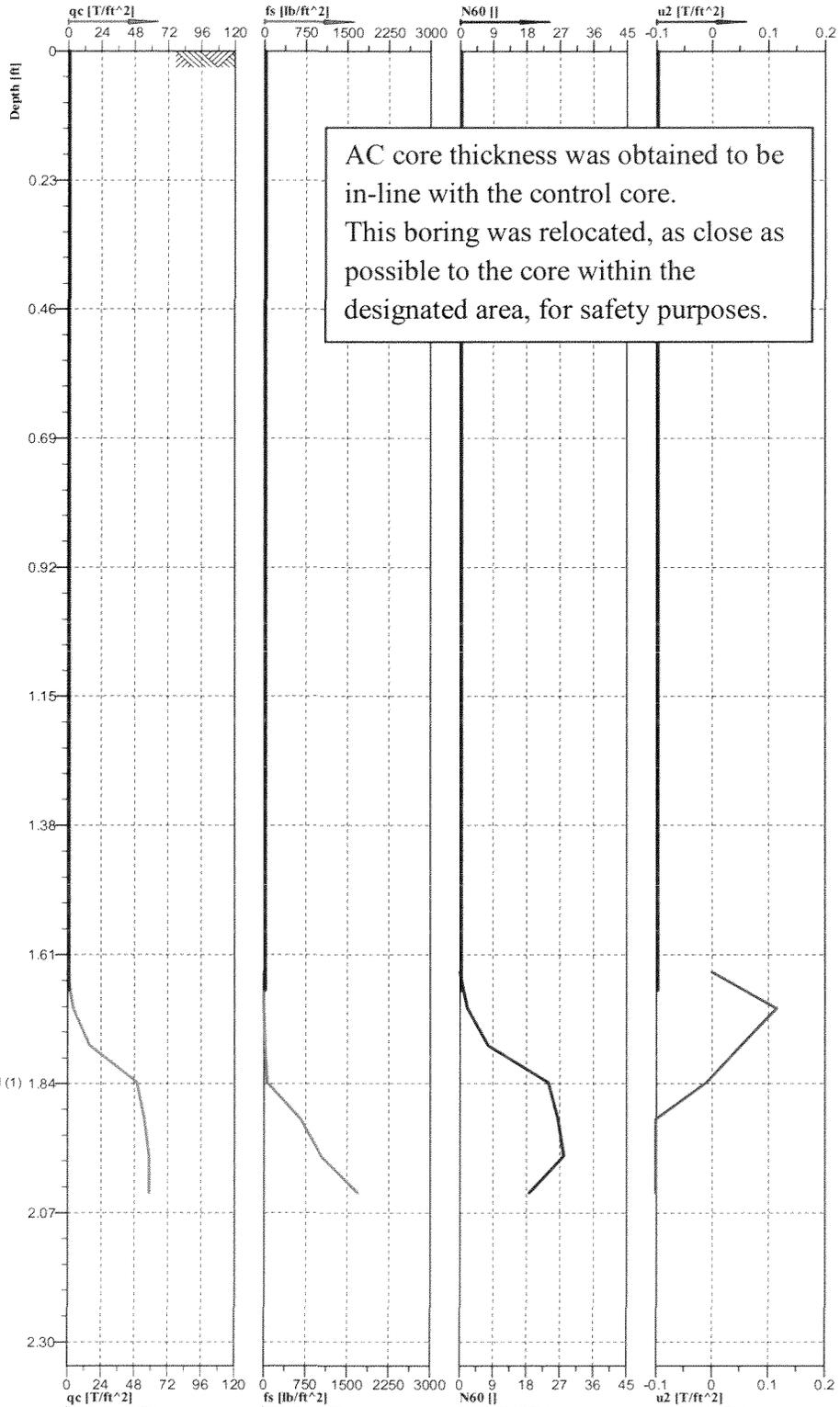
Location: 6750 Hazeline Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site #29	Client: Street Services	Date: 11/5/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S29 Control.cpd	

Lab No.: 17-741-166



Lab No.: 17-741-167

Classification by
Robertson 1986



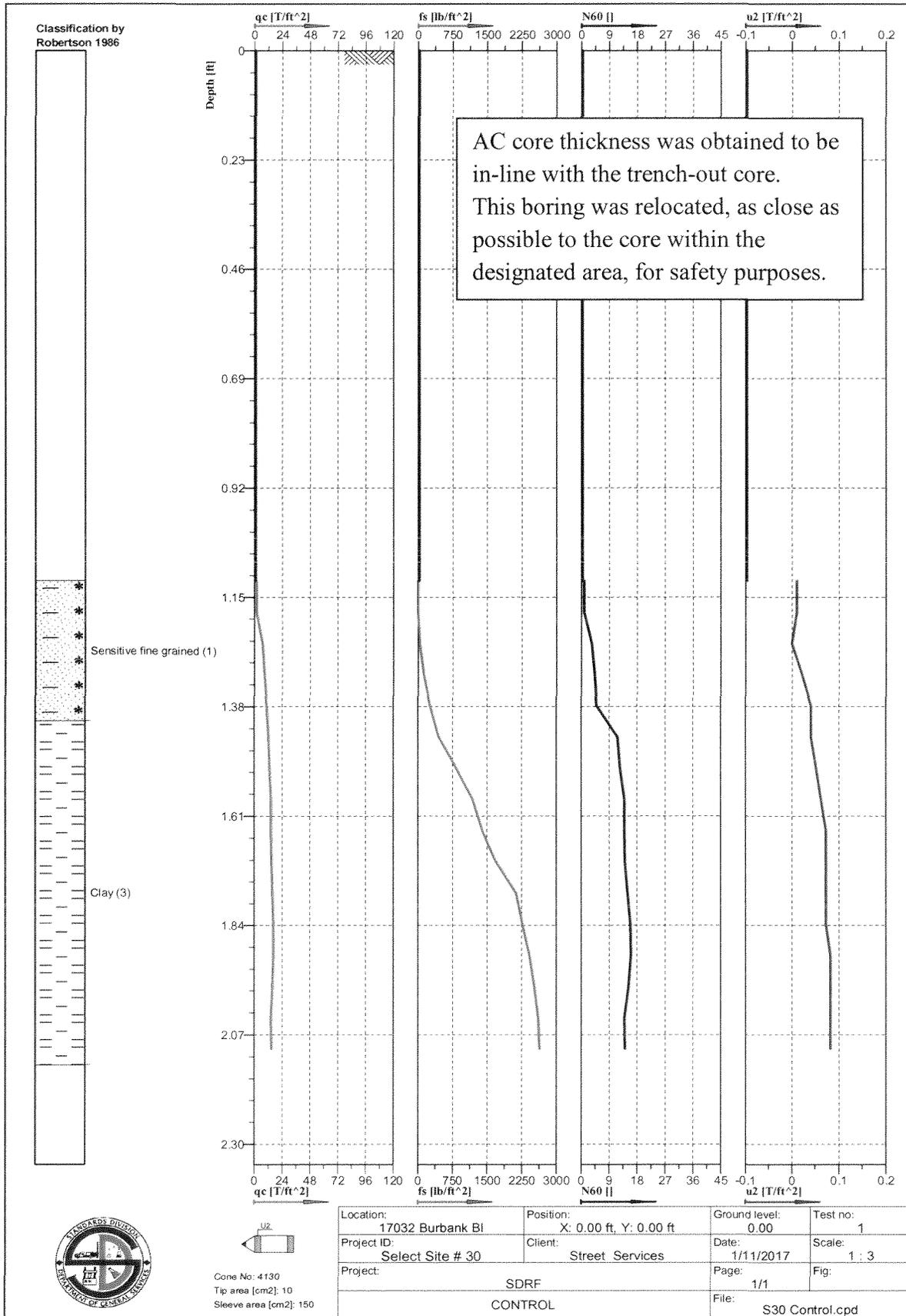
AC core thickness was obtained to be in-line with the control core. This boring was relocated, as close as possible to the core within the designated area, for safety purposes.

Sensitive fine grained (1)



Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: 17032 Burbank Bl	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 30	Client: Street Services	Date: 11/16/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1
TRENCH OUT		File: S30 Trench Out.cpd	



Lab No.: 17-741-169

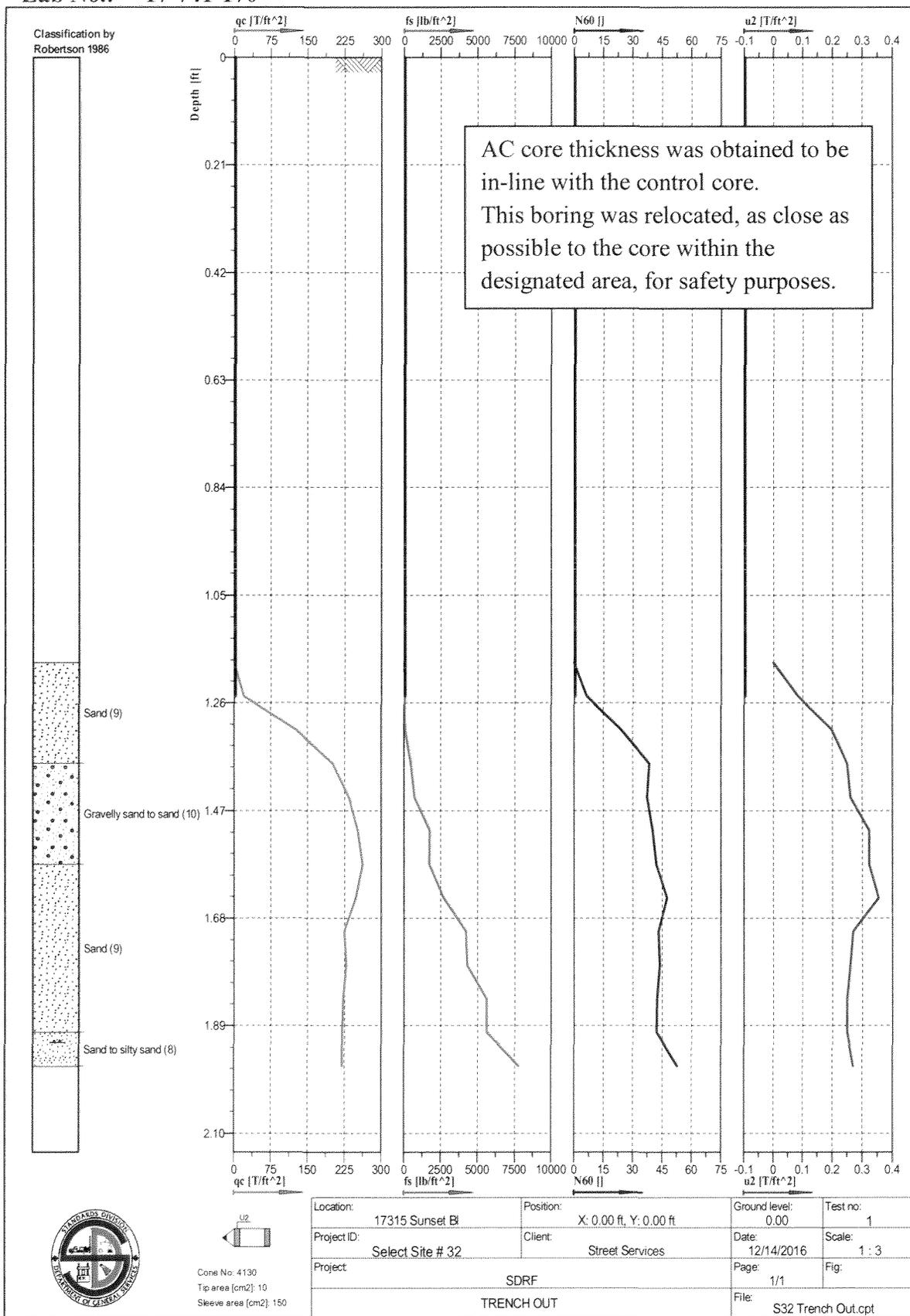
Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

Asphalt thickness = 8.5”.

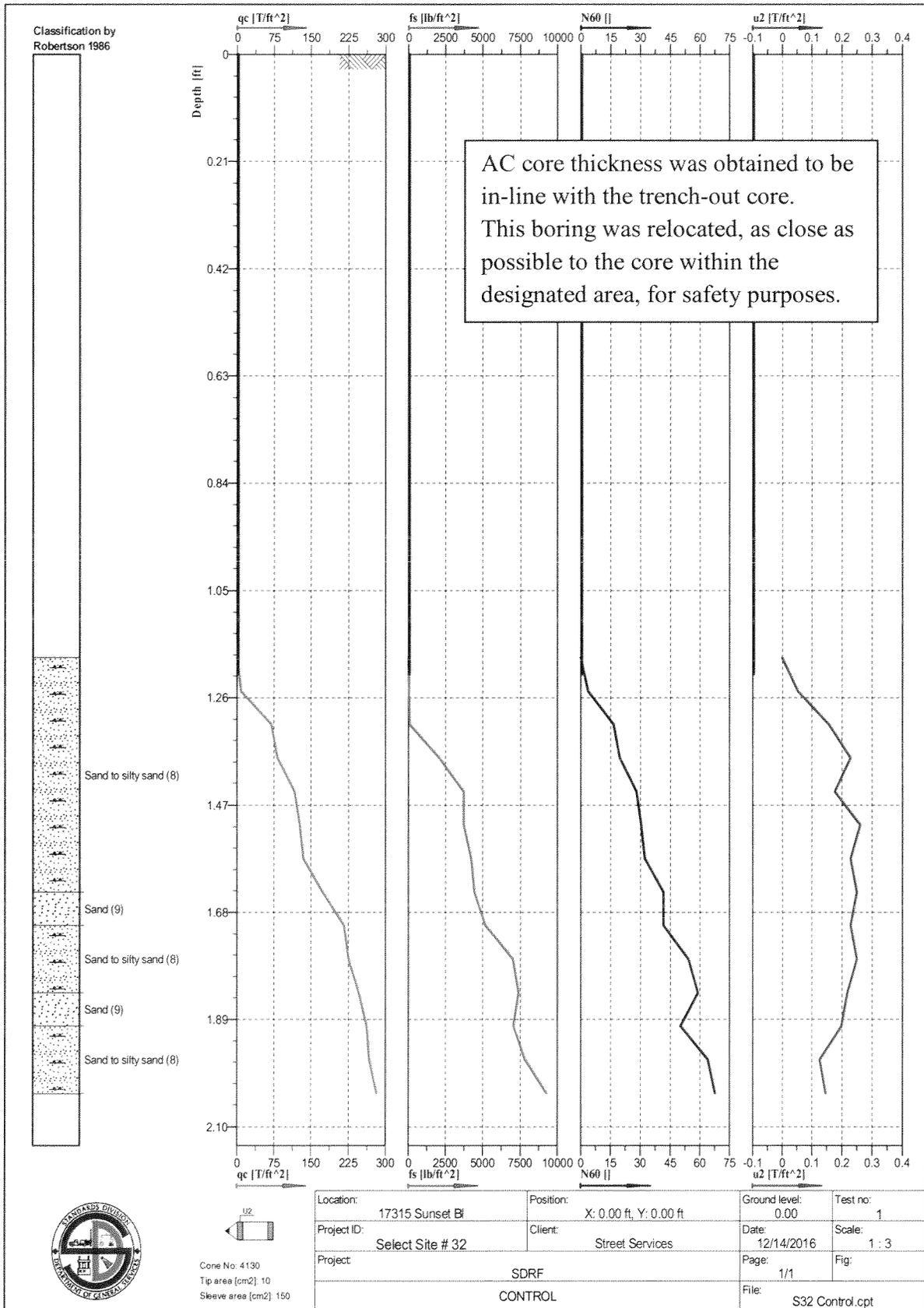


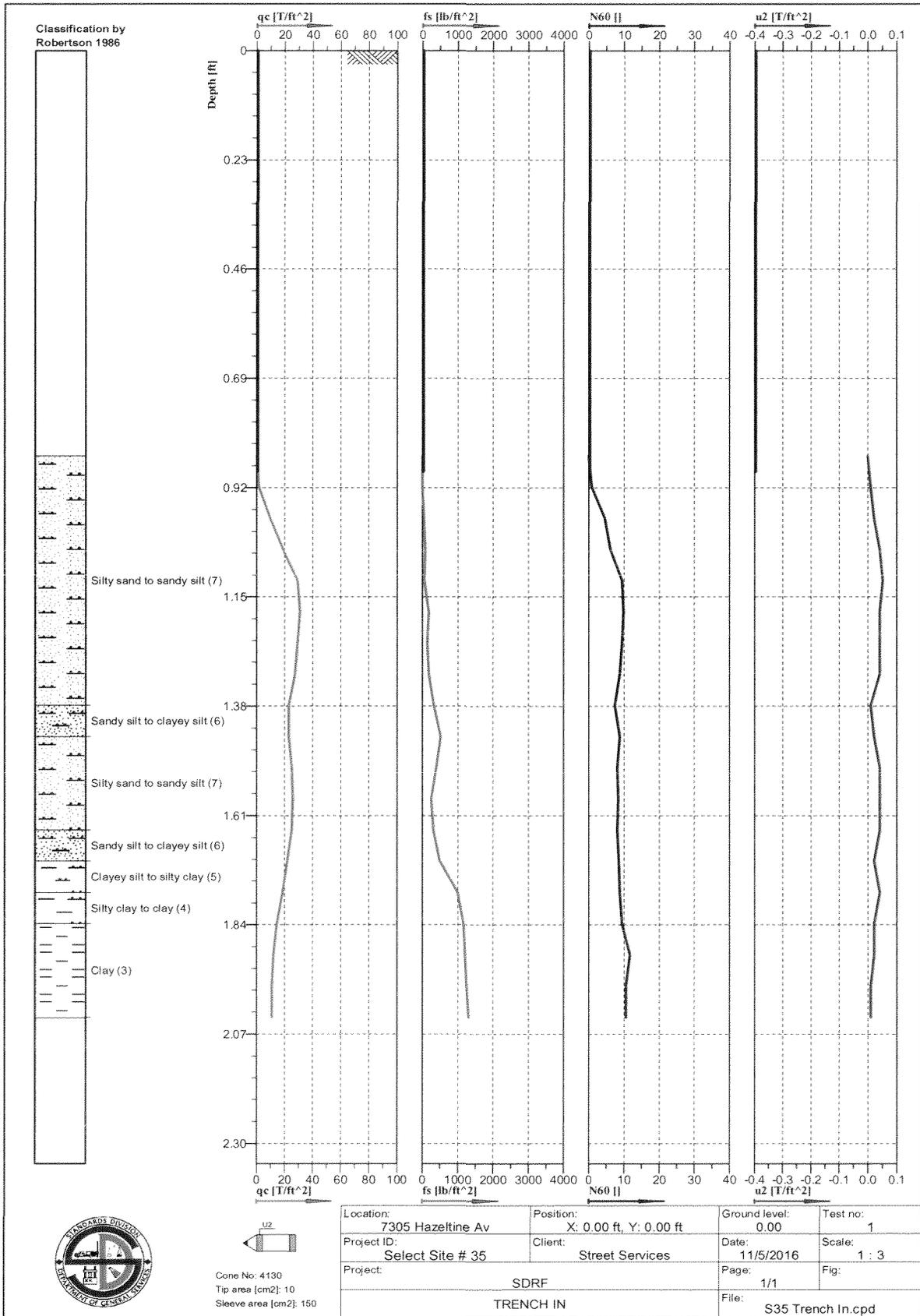
Cone No. 4130
Tip area [cm²] 10
Sleeve area [cm²] 150

Location:	17315 Sunset Bl	Position:	X: 0.00 ft, Y: 0.00 ft	Ground level:	0.00	Test no:	1
Project ID:	Select Site # 32	Client:	Street Services	Date:	12/14/2016	Scale:	1 : 3
Project	SDRF			Page:	1/1	Fig:	
	TRENCH IN			File:	S32 Trench In.cpt		



Lab No.: 17-741-171

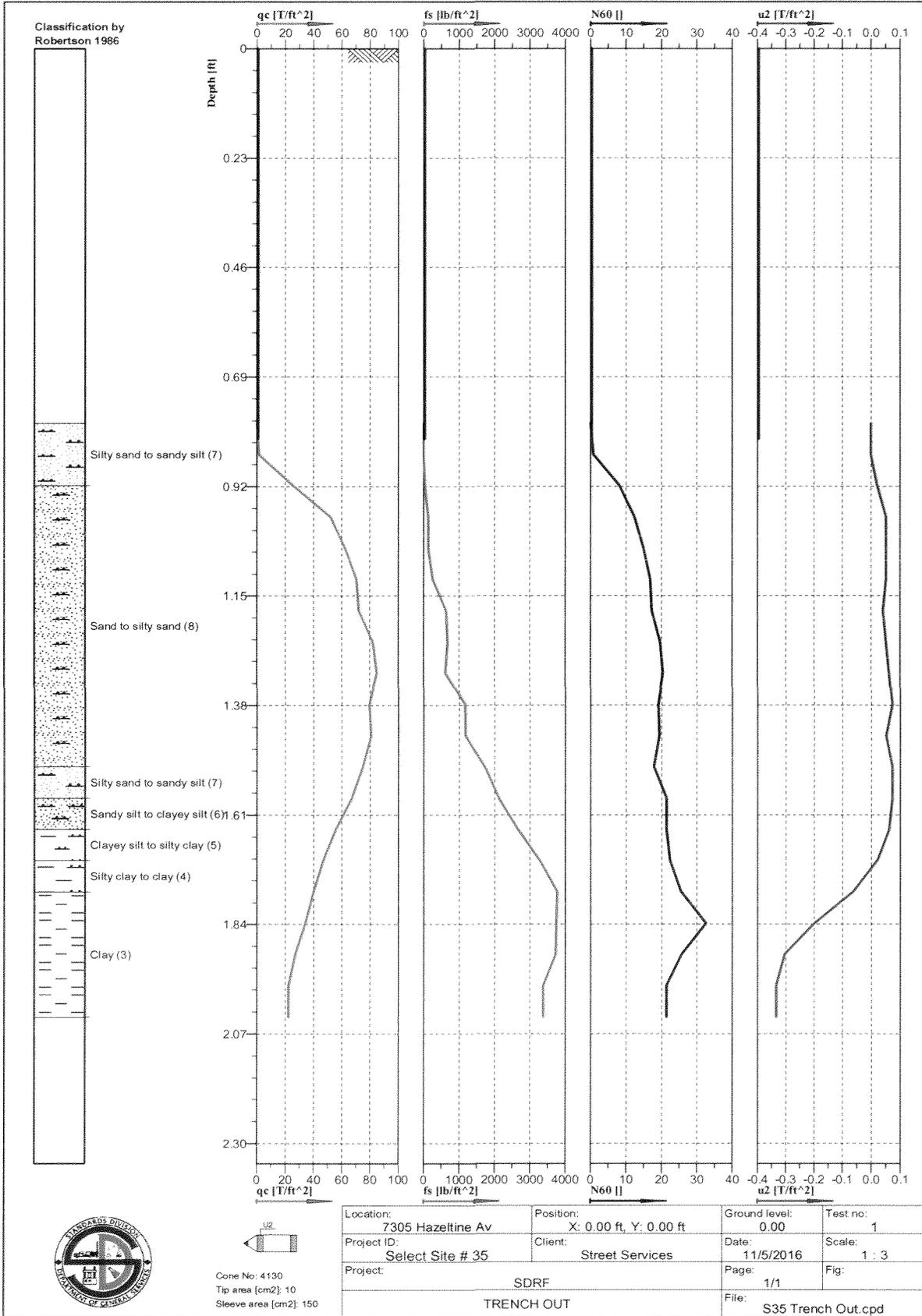


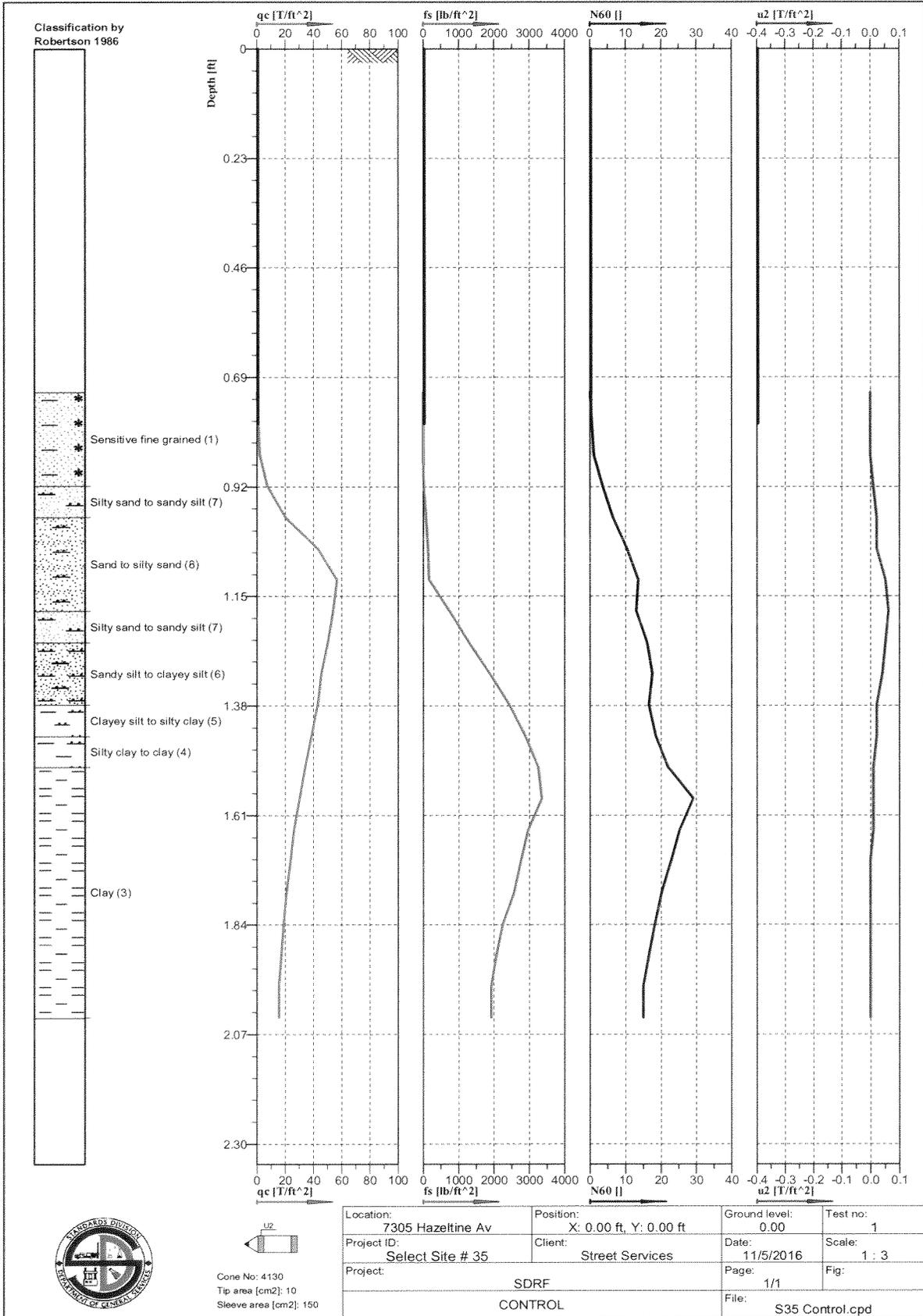


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 7305 Hazeltine Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 35	Client: Street Services	Date: 11/5/2016	Scale: 1 : 3
Project: SDRF TRENCH IN		Page: 1/1	Fig: 1 : 3
		File: S35 Trench In.cpd	

Lab No.: 17-741-173

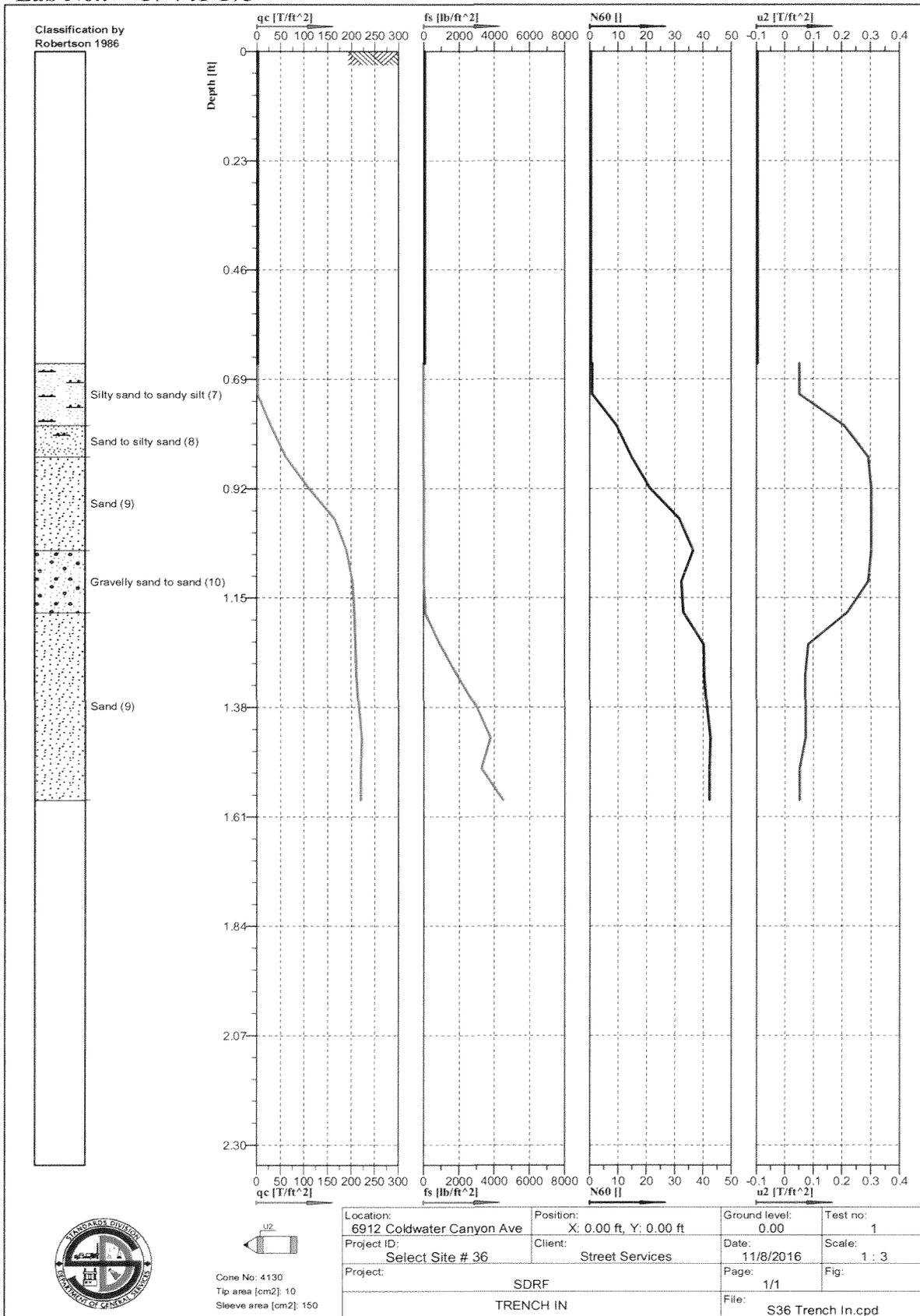


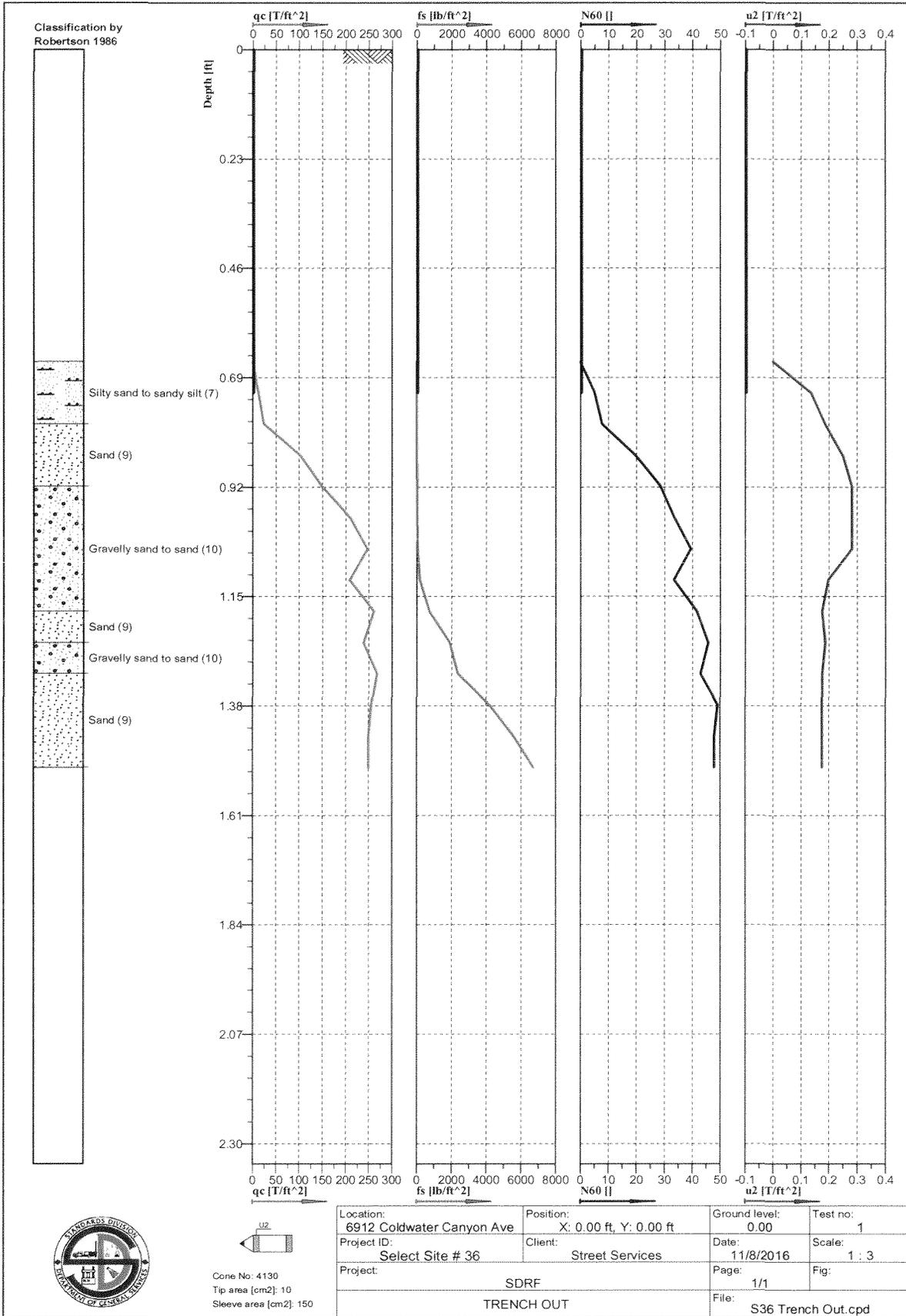


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

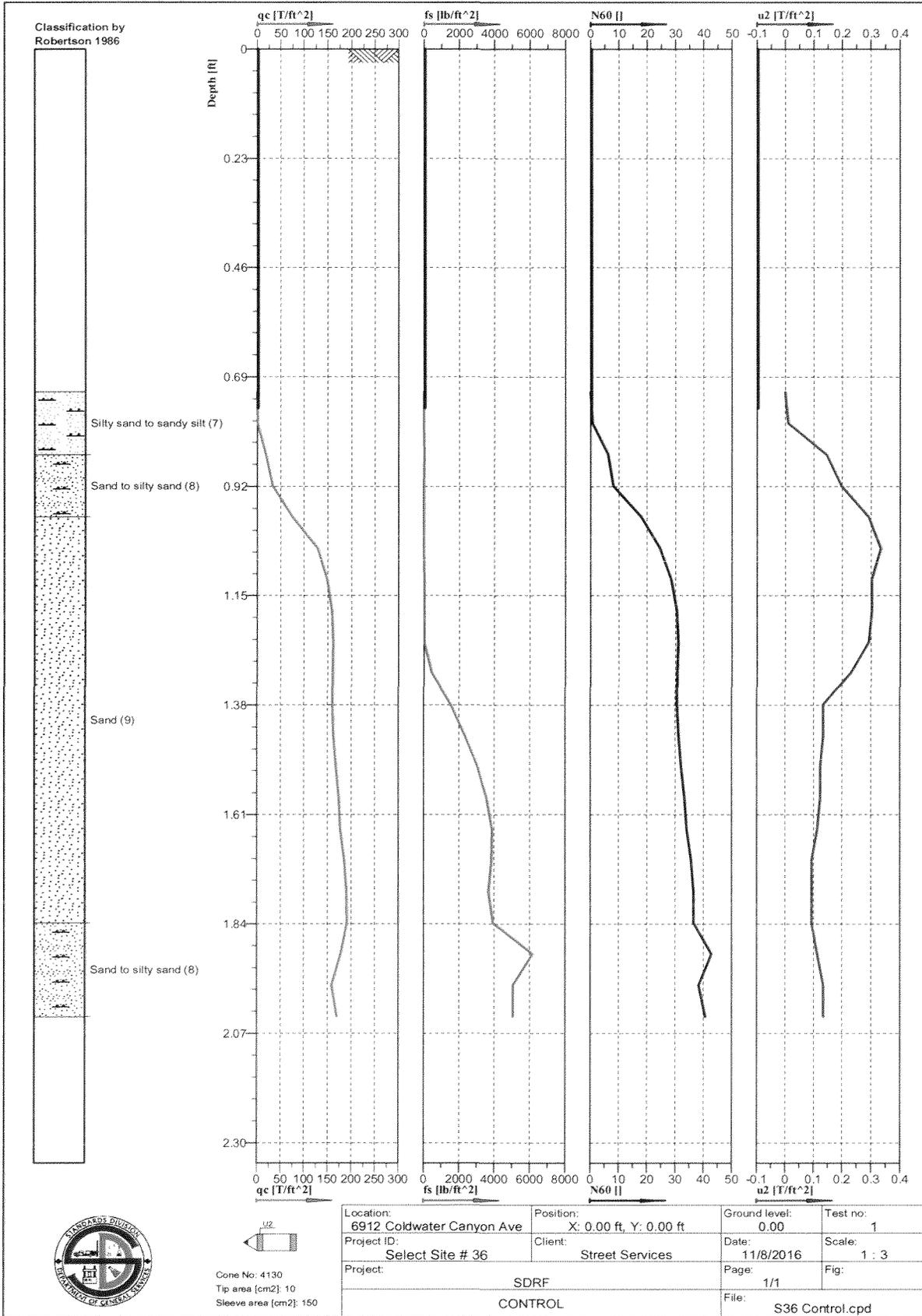
Location: 7305 Hazeltine Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 35	Client: Street Services	Date: 11/5/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
CONTROL		File: S35 Control.cpd	

Lab No.: 17-741-175

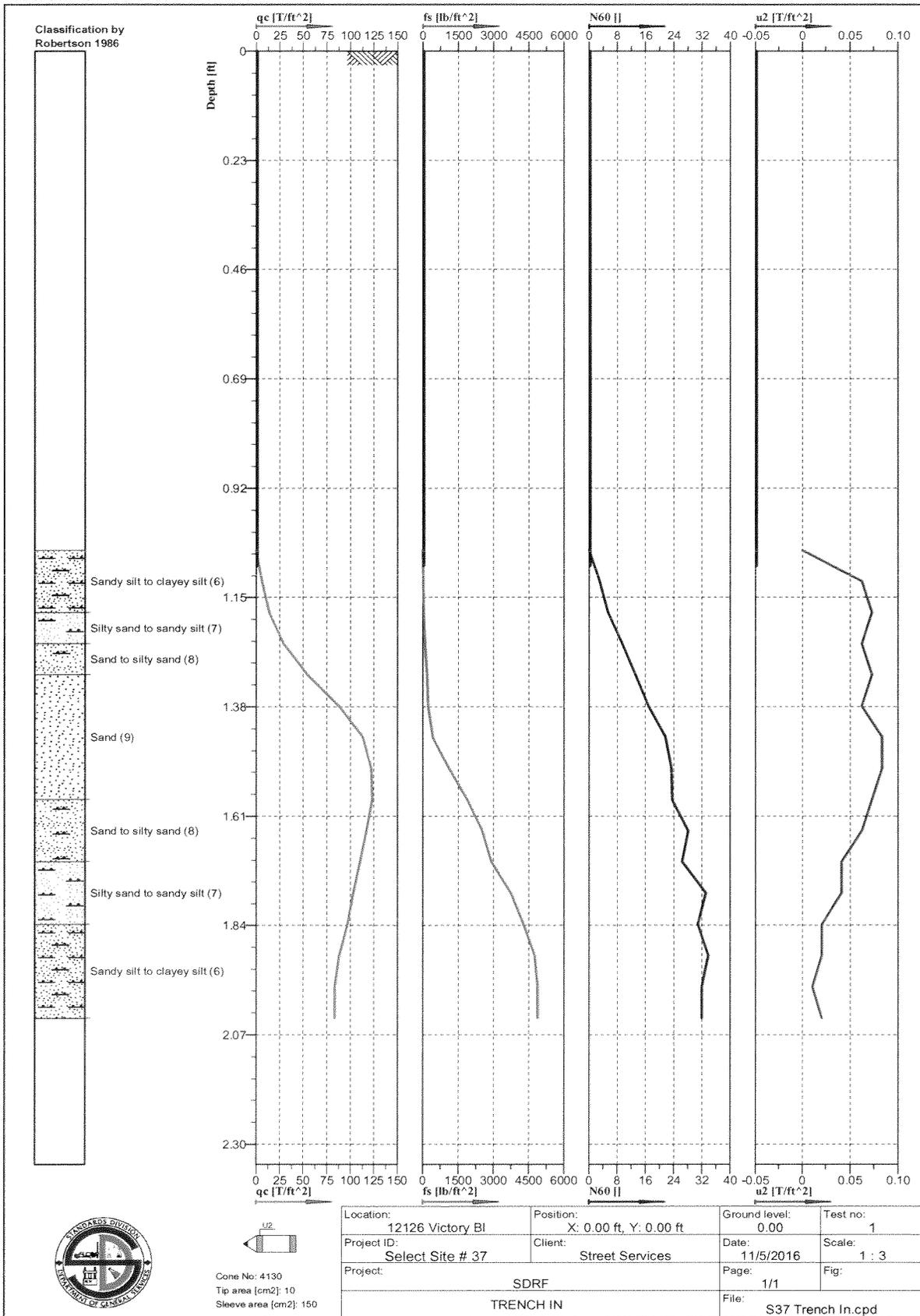




Lab No.: 17-741-177

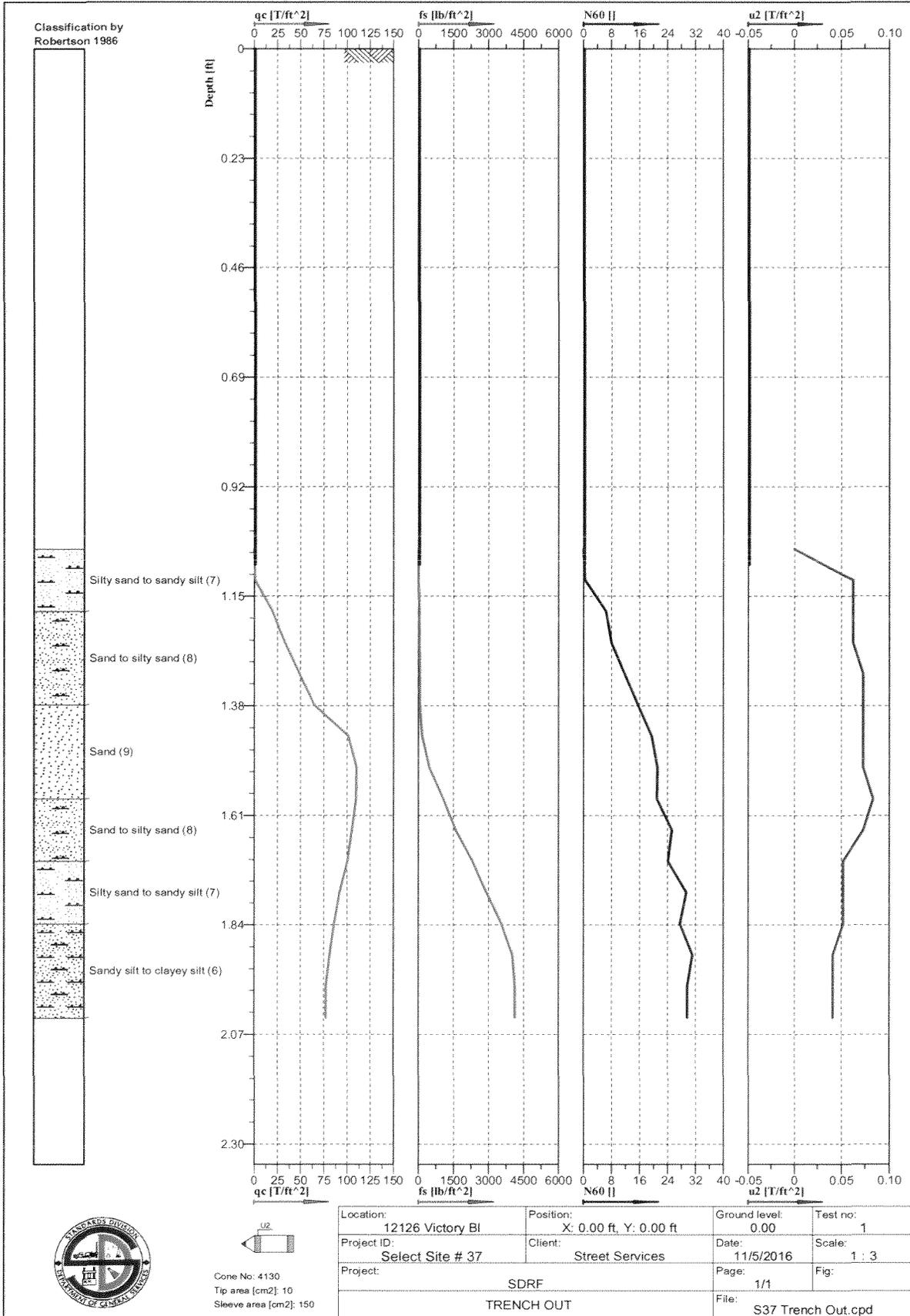


Lab No.: 17-741-178

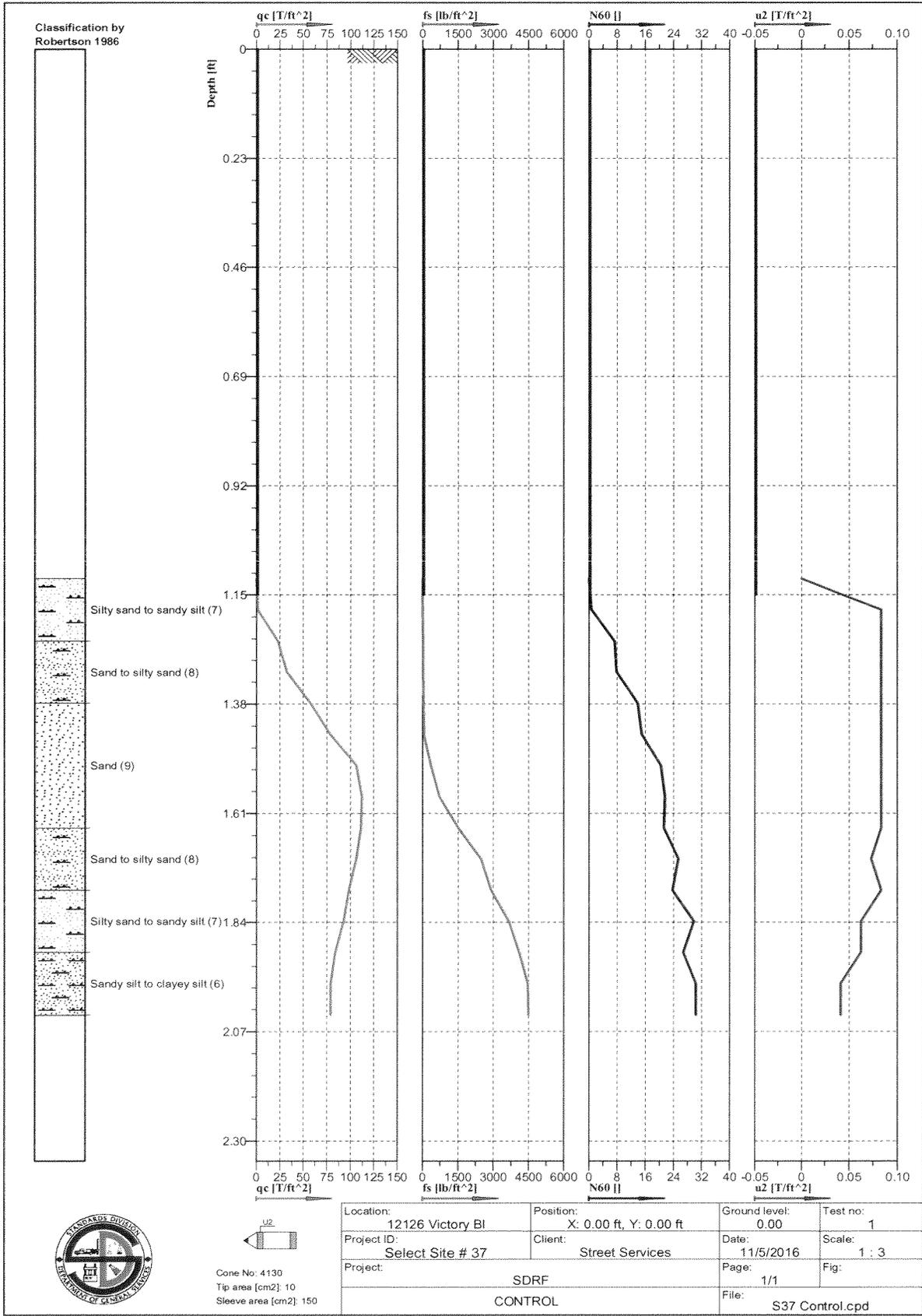


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Lab No.: 17-741-179



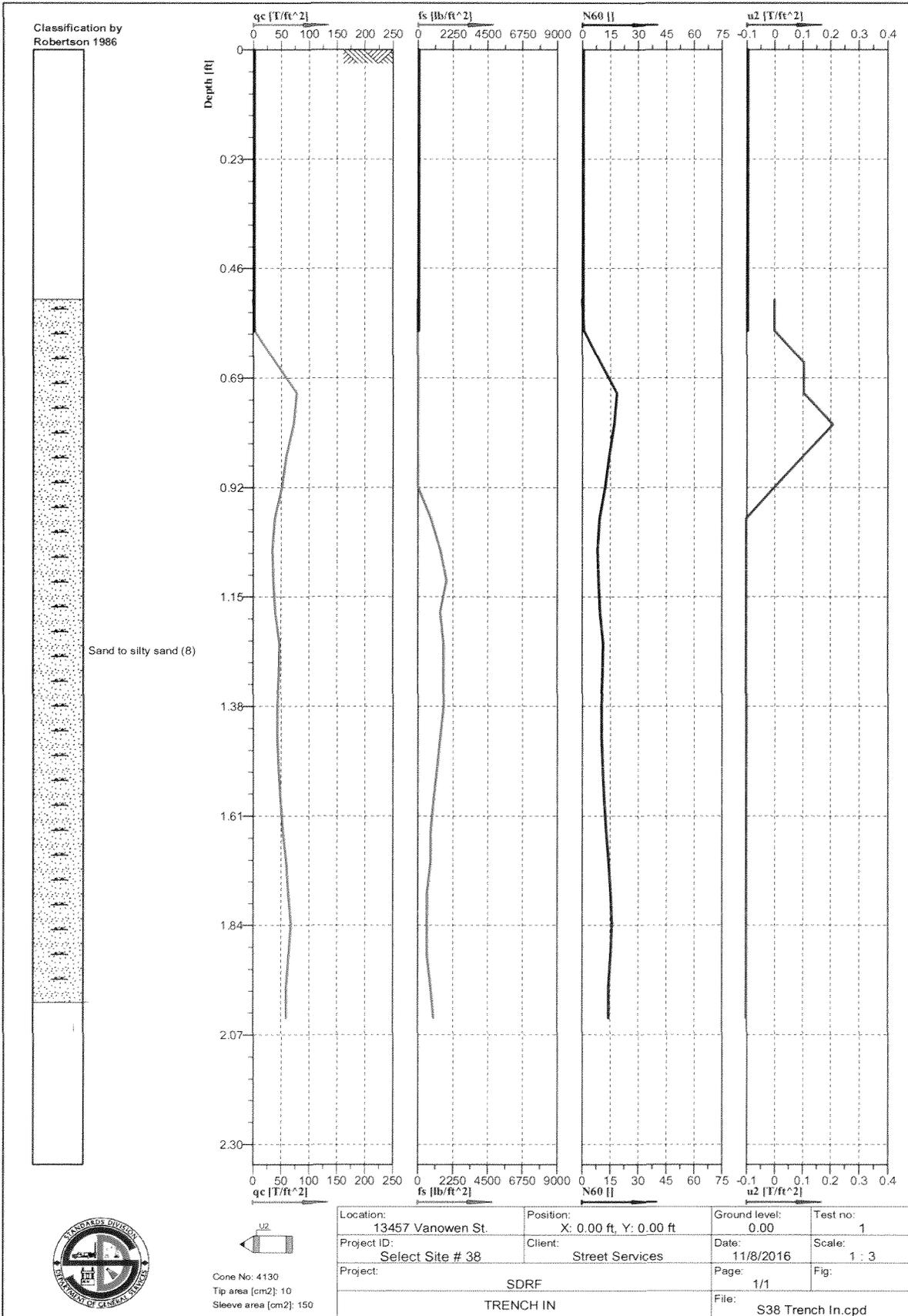
Lab No.: 17-741-180



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

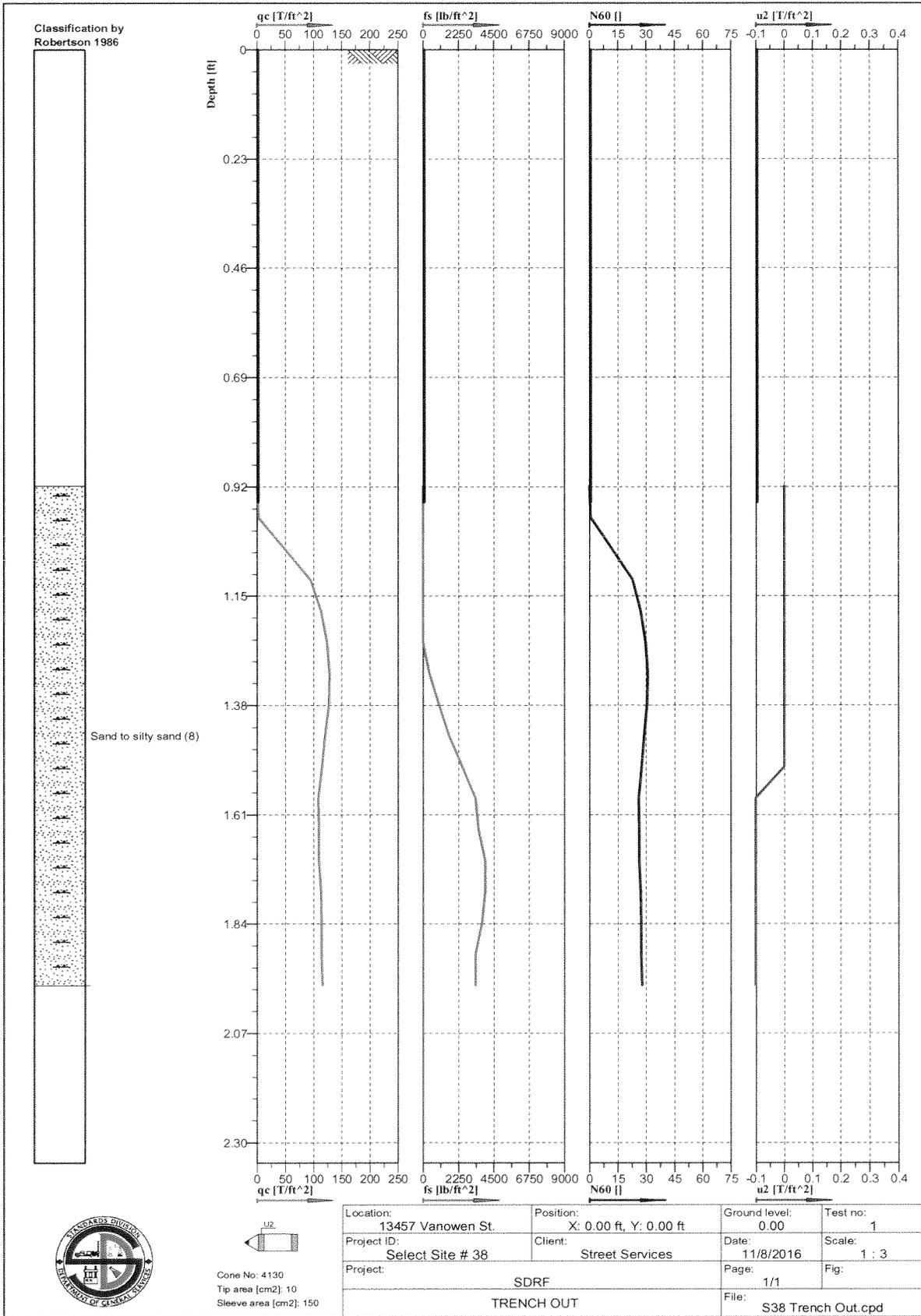
Location: 12126 Victory Bl	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 37	Client: Street Services	Date: 11/5/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S37 Control.cpd	

Lab No.: 17-741-181

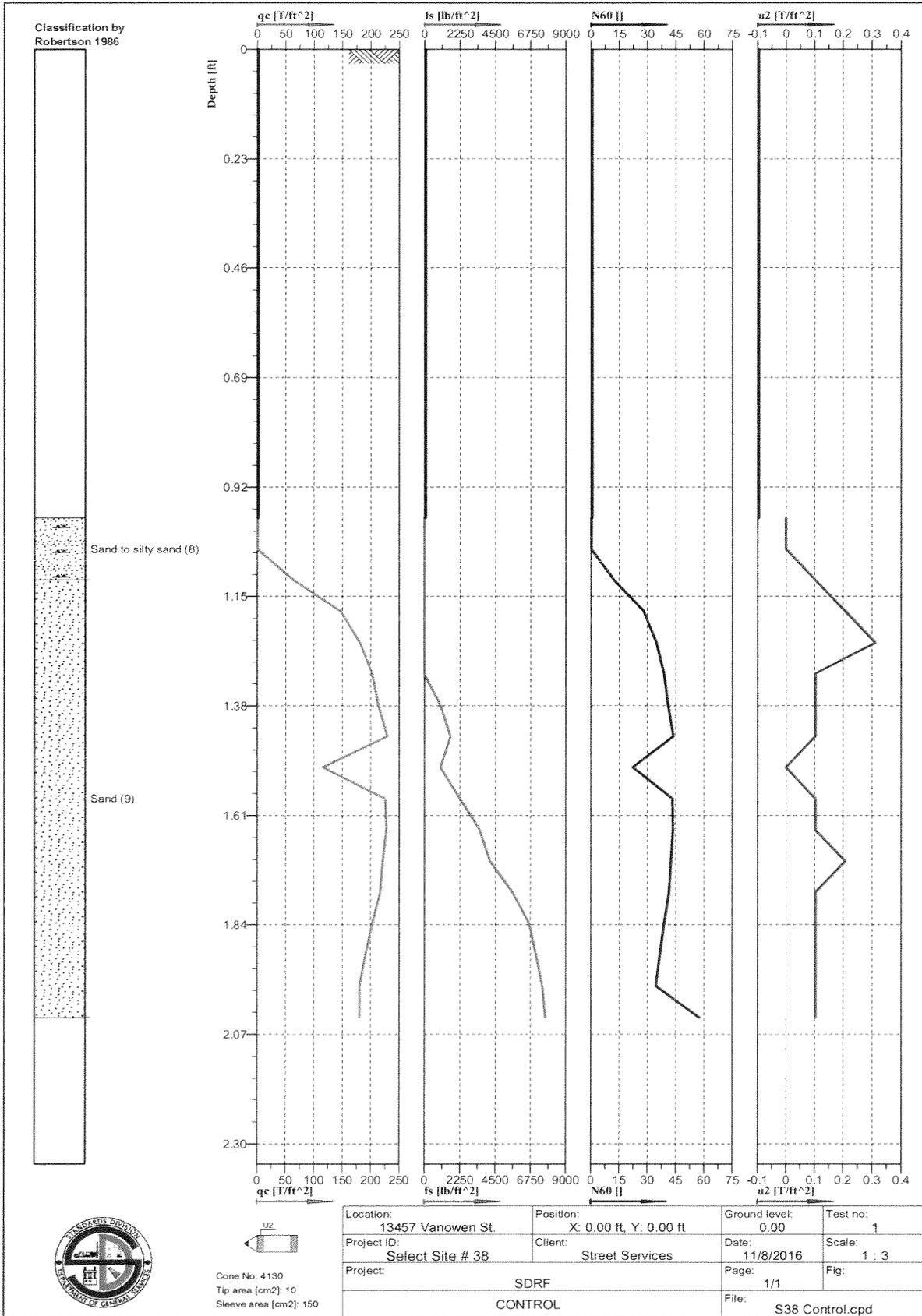


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

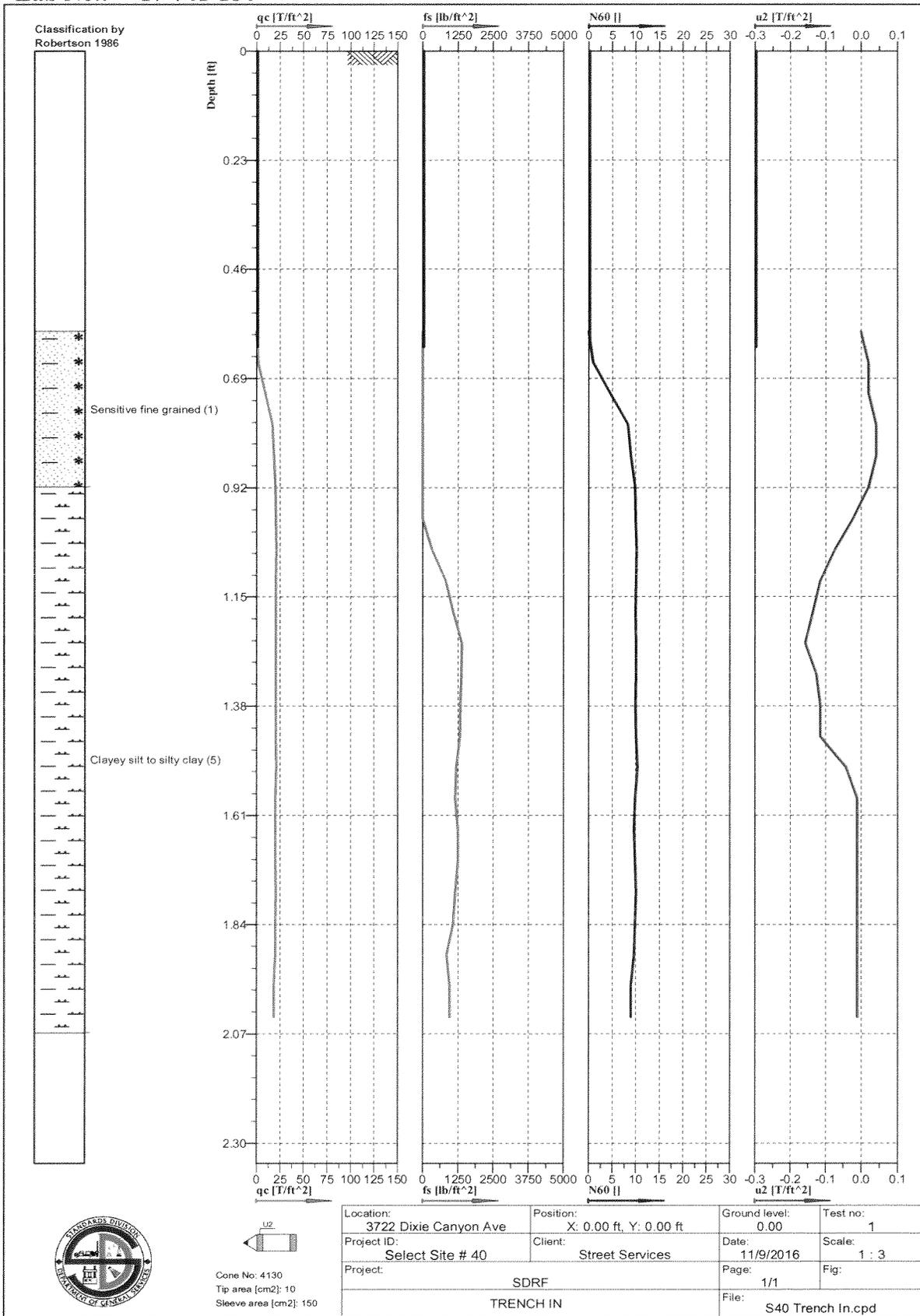
Lab No.: 17-741-182



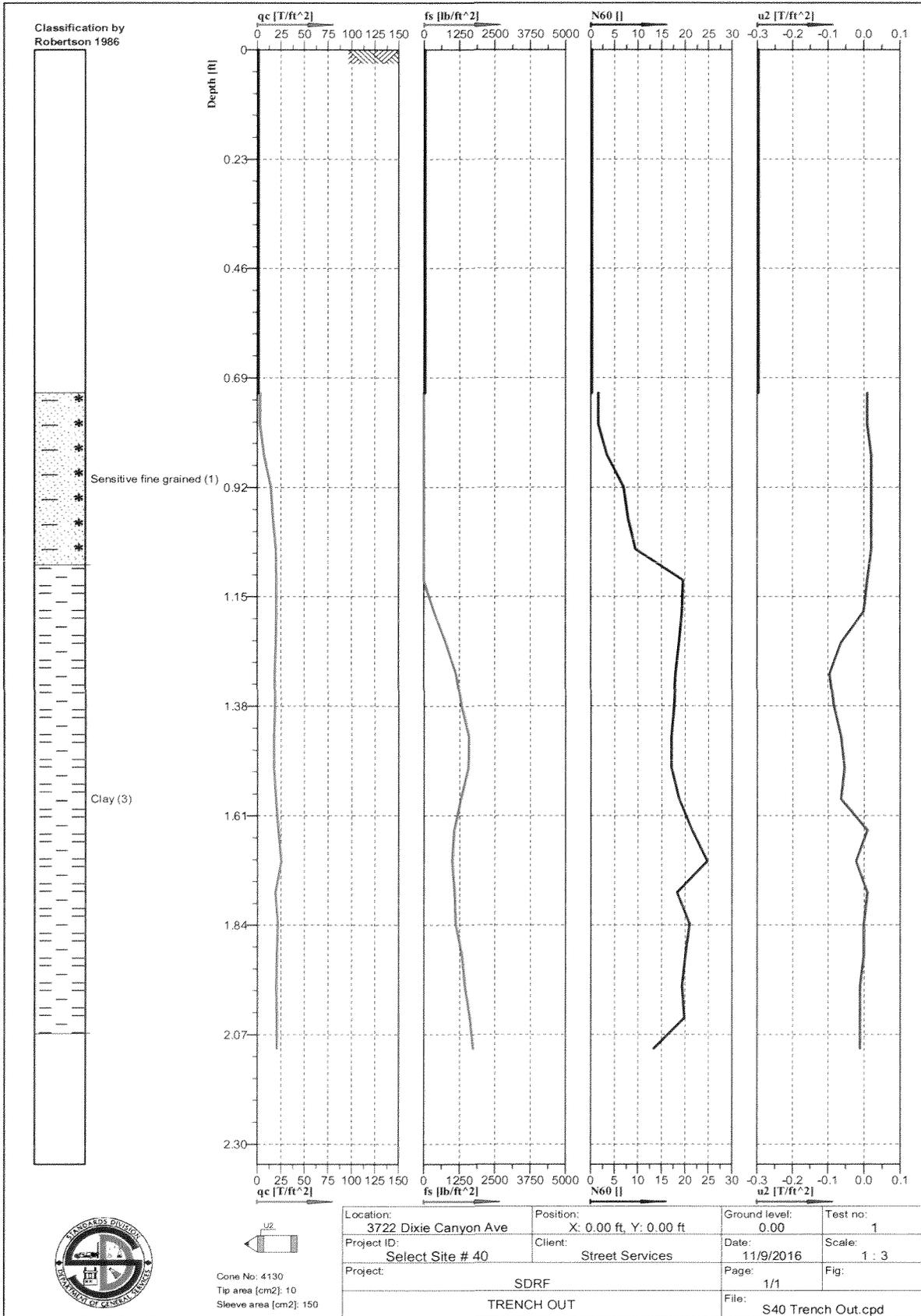
Lab No.: 17-741-183

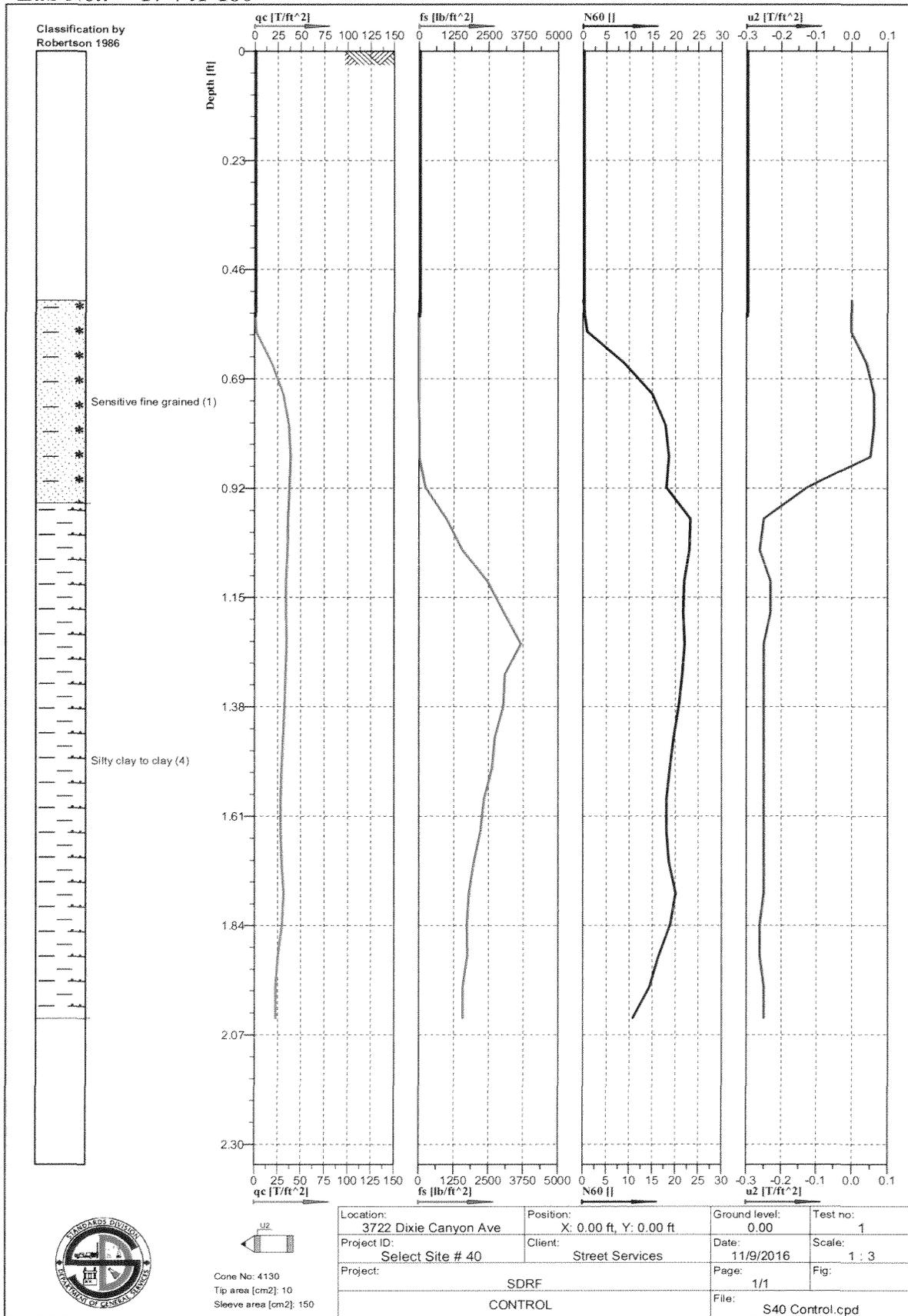


Lab No.: 17-741-184



Lab No.: 17-741-185





Lab No.: 17-741-187

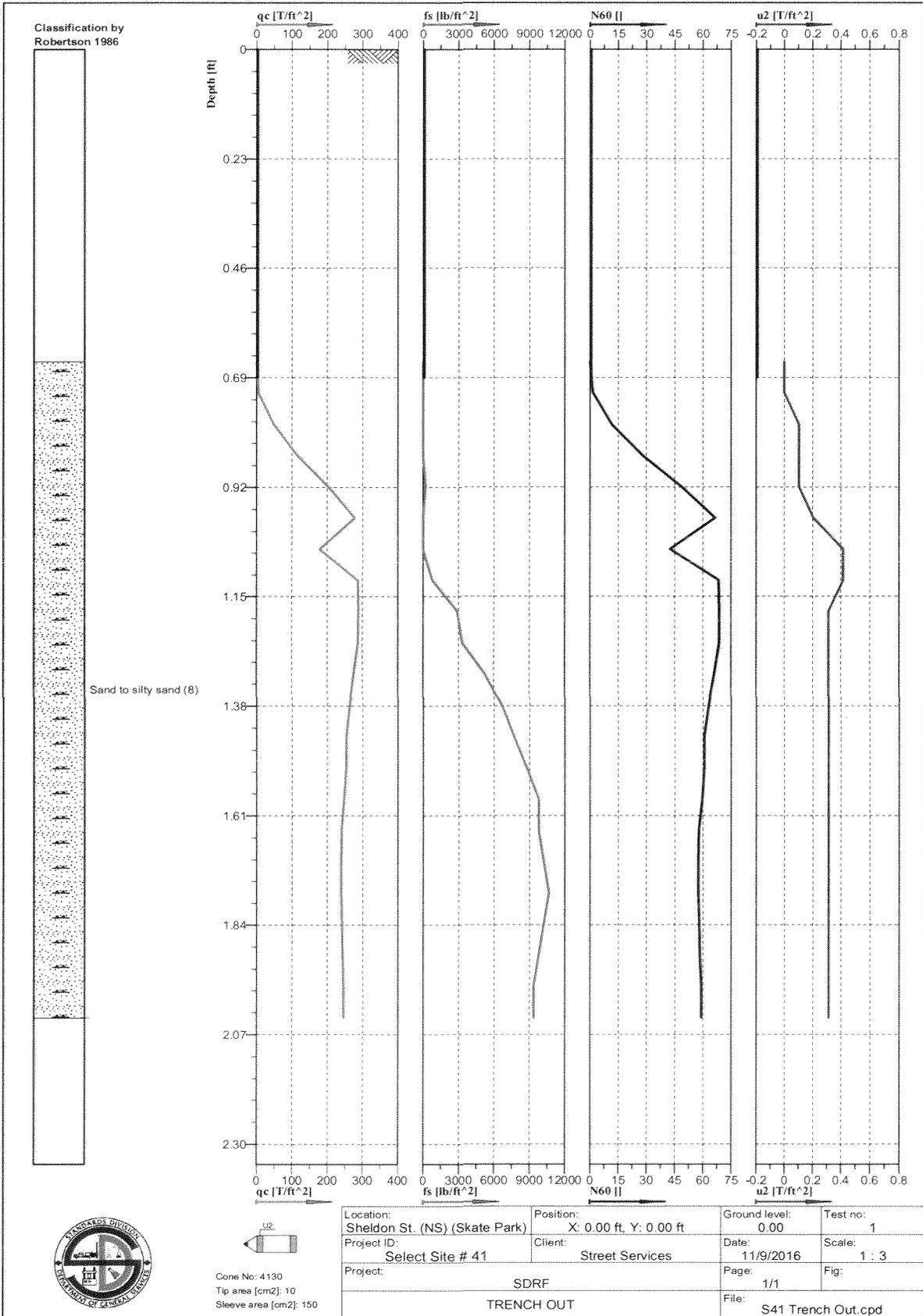
Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

Asphalt thickness = 7.6”.

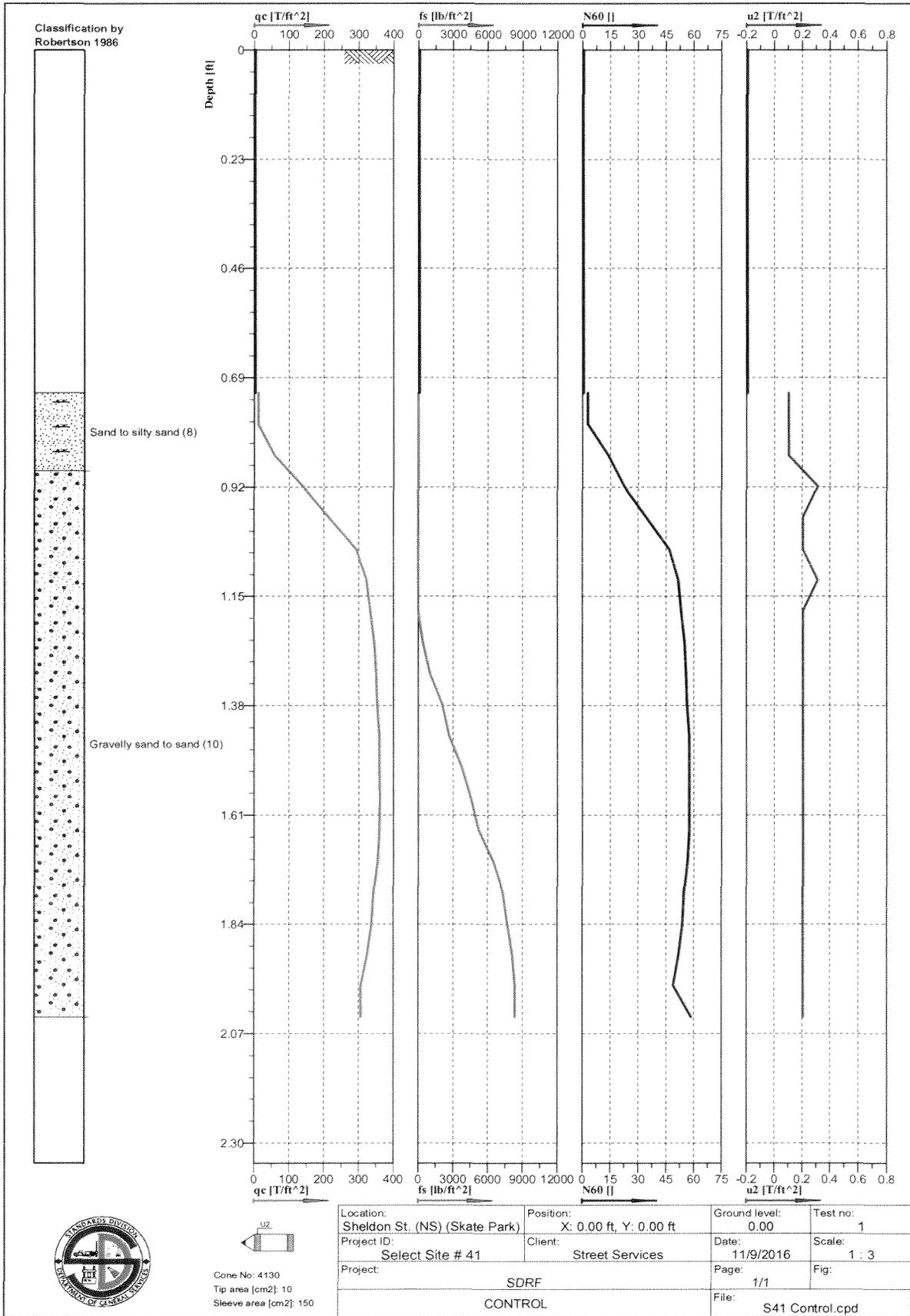


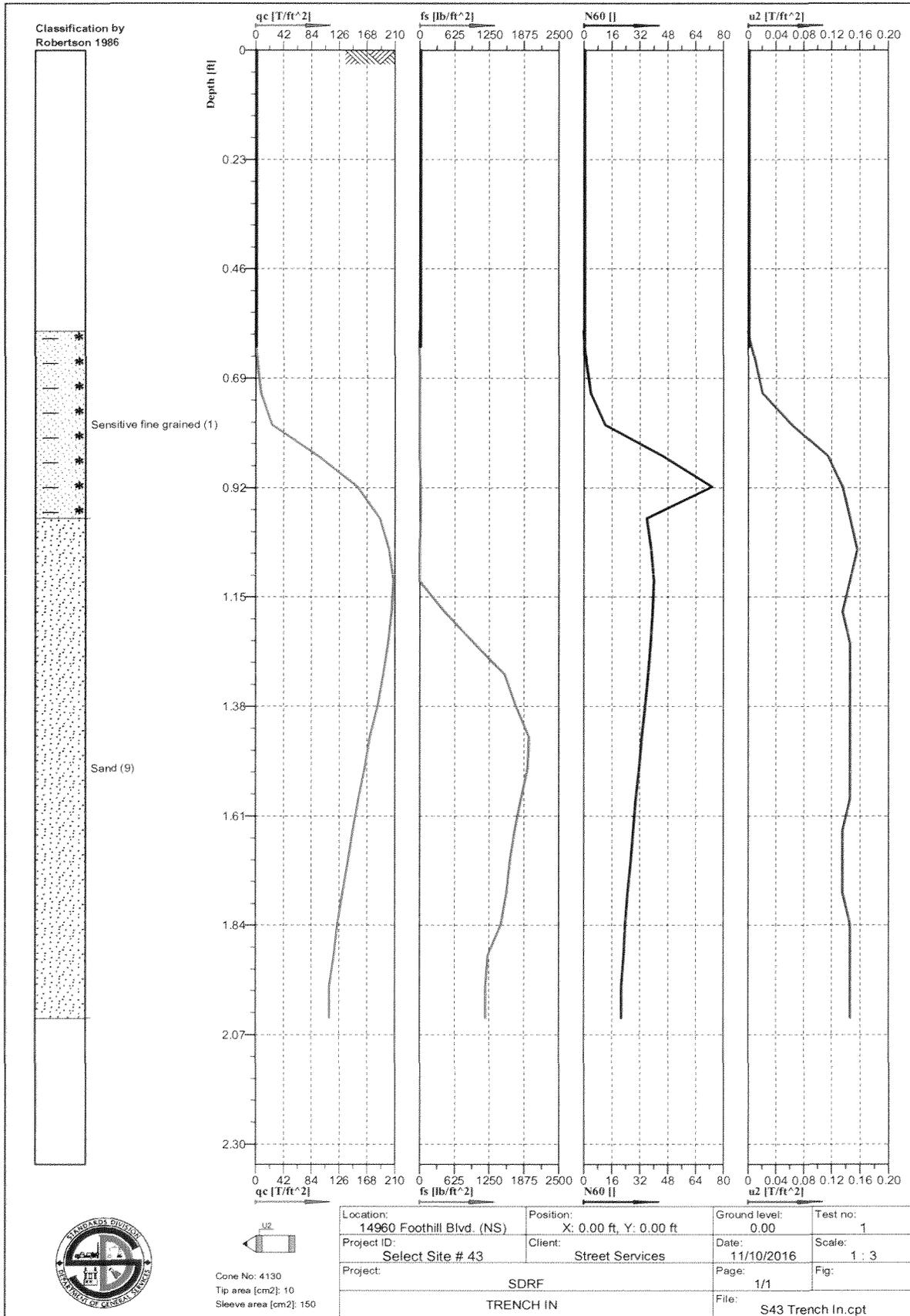
Cone No: 4130
Tip area [cm²]: 10
Sieve area [cm²]: 150

Location: Sheldon St. (NS) (Skate Park)	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 41	Client: Street services	Date: 11/9/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S41 Trench In.cpd	

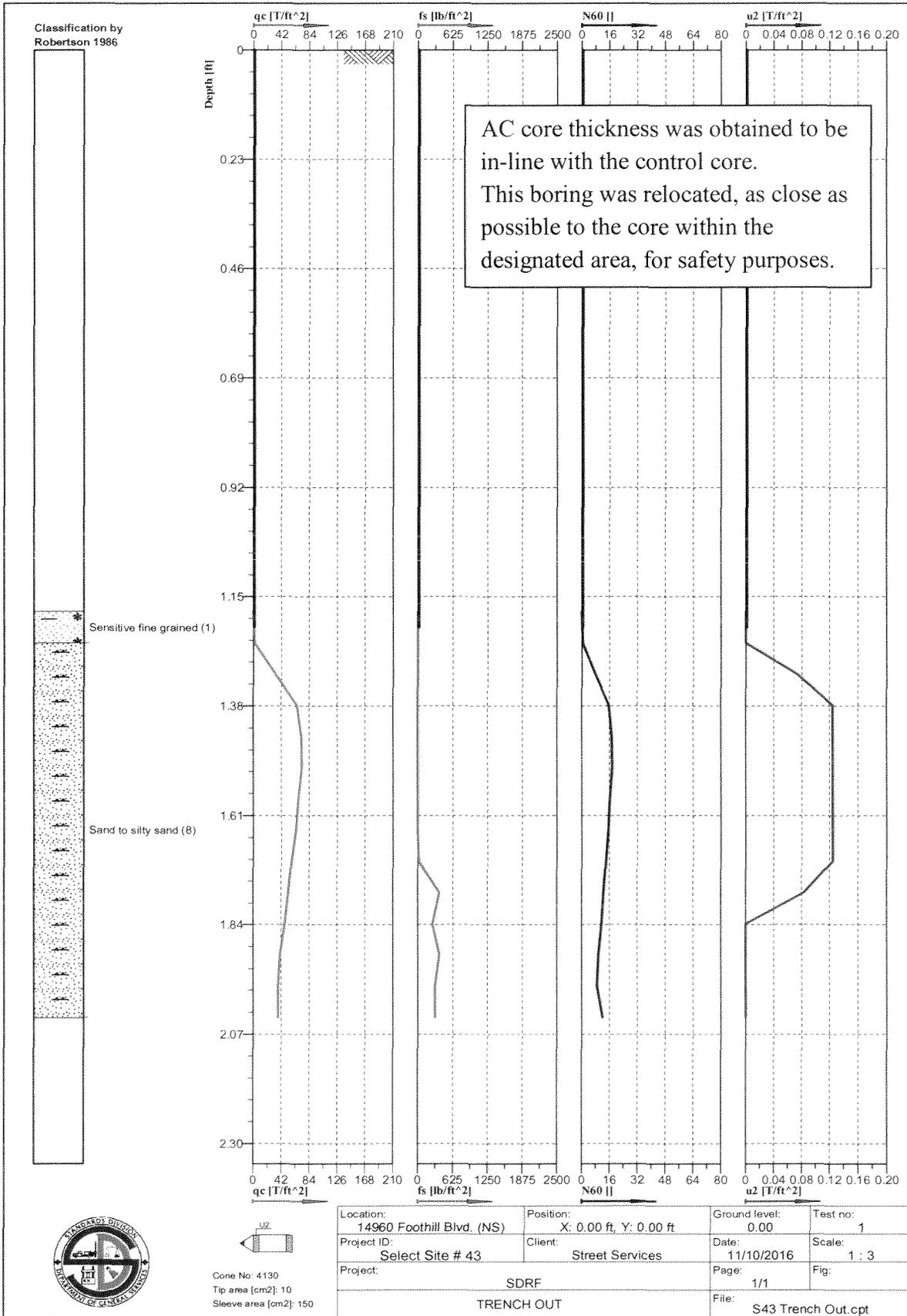


Lab No.: 17-741-189

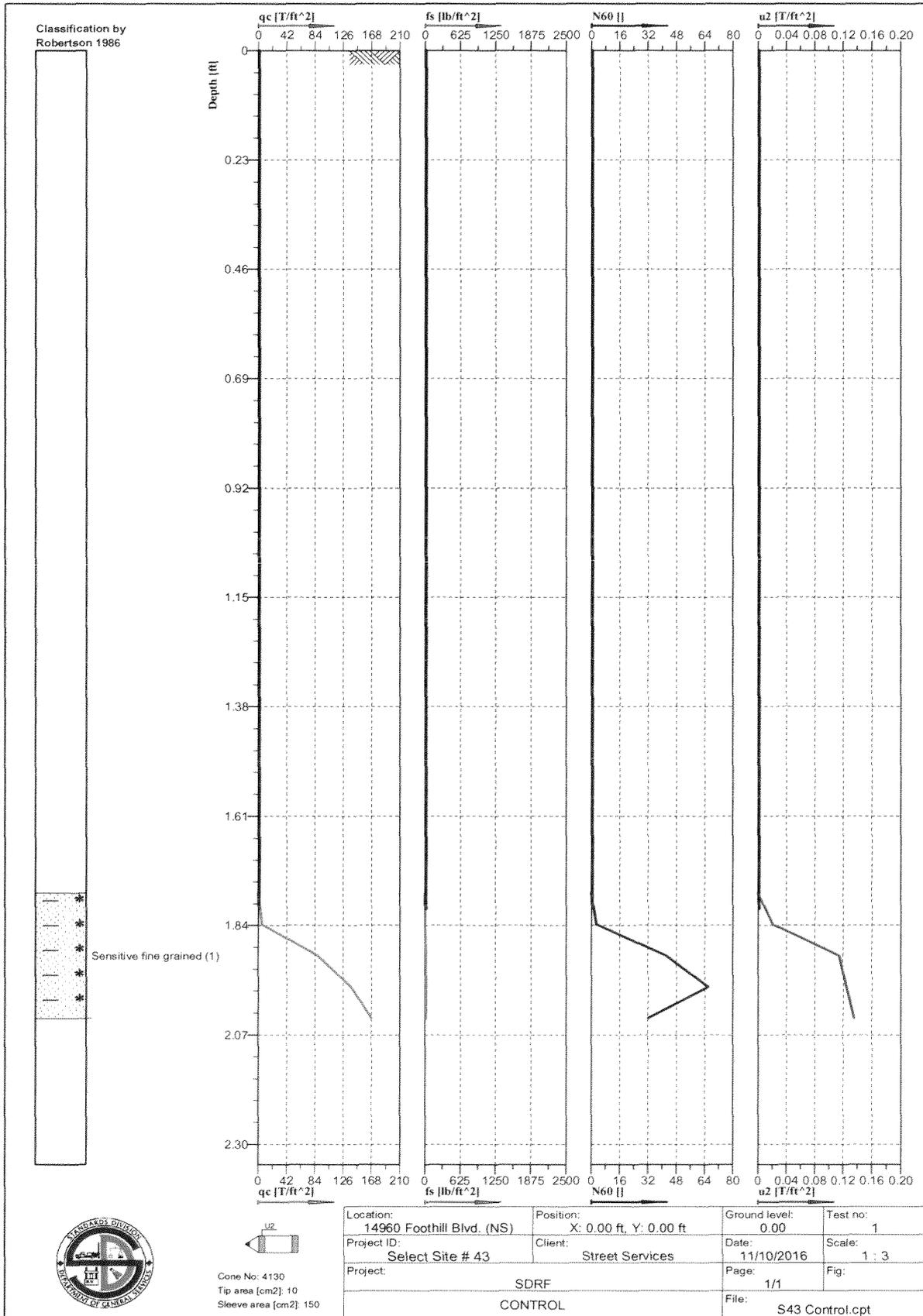




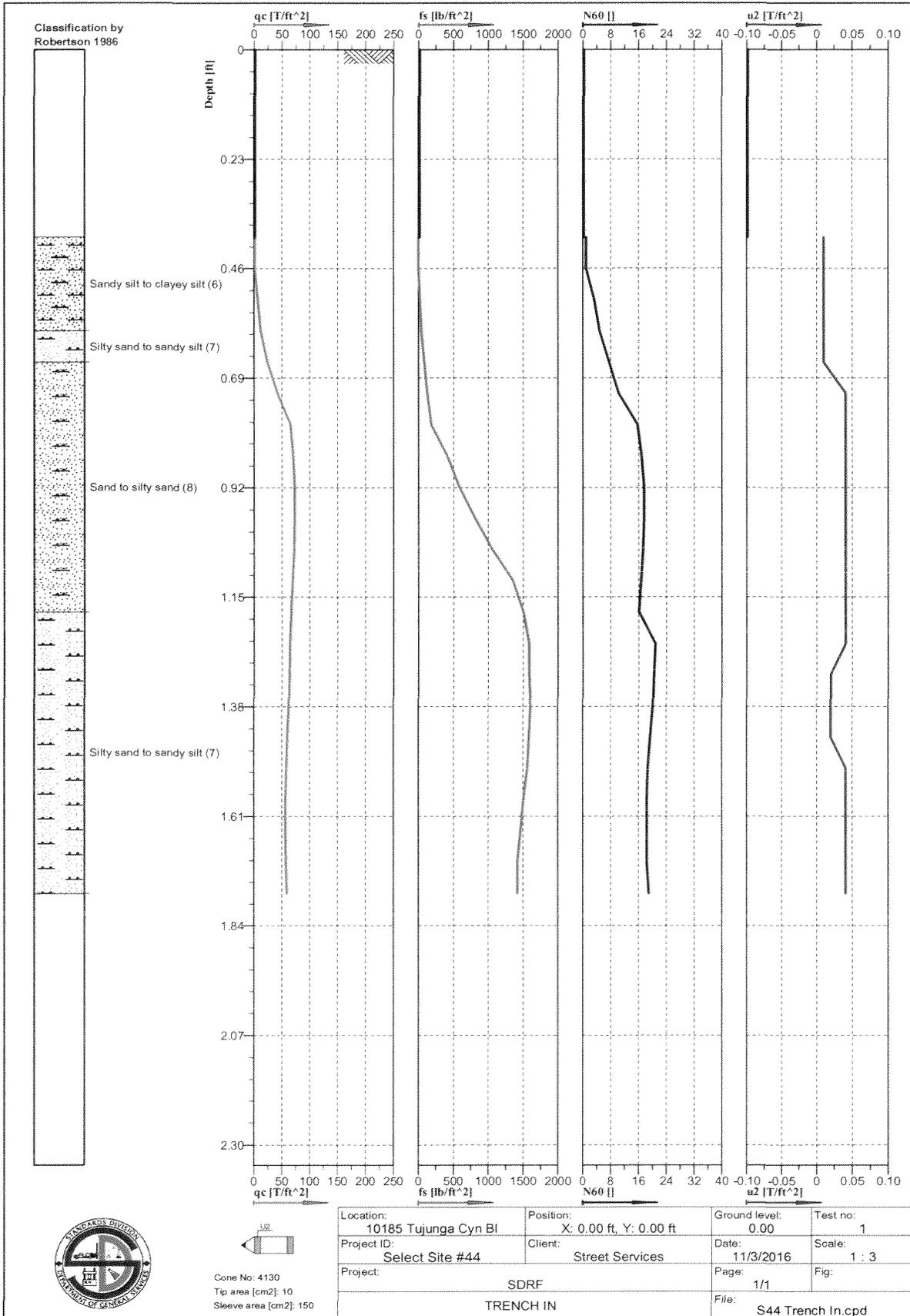
Lab No.: 17-741-191



Lab No.: 17-741-192



Lab No.: 17-741-193



Lab No.: 17-741-194

Could not penetrate sandstone layer. No CPTU performed.

Asphalt thickness = 10.5”.



Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: 10185 Tujunga Cyn	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no.: 1
Project ID: Select Site #44	Client: Street Services	Date: 11/3/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH OUT		File: S44 Trench Out.cpd	

Lab No.: 17-741-195

Could not penetrate sandstone layer. No CPTU performed.

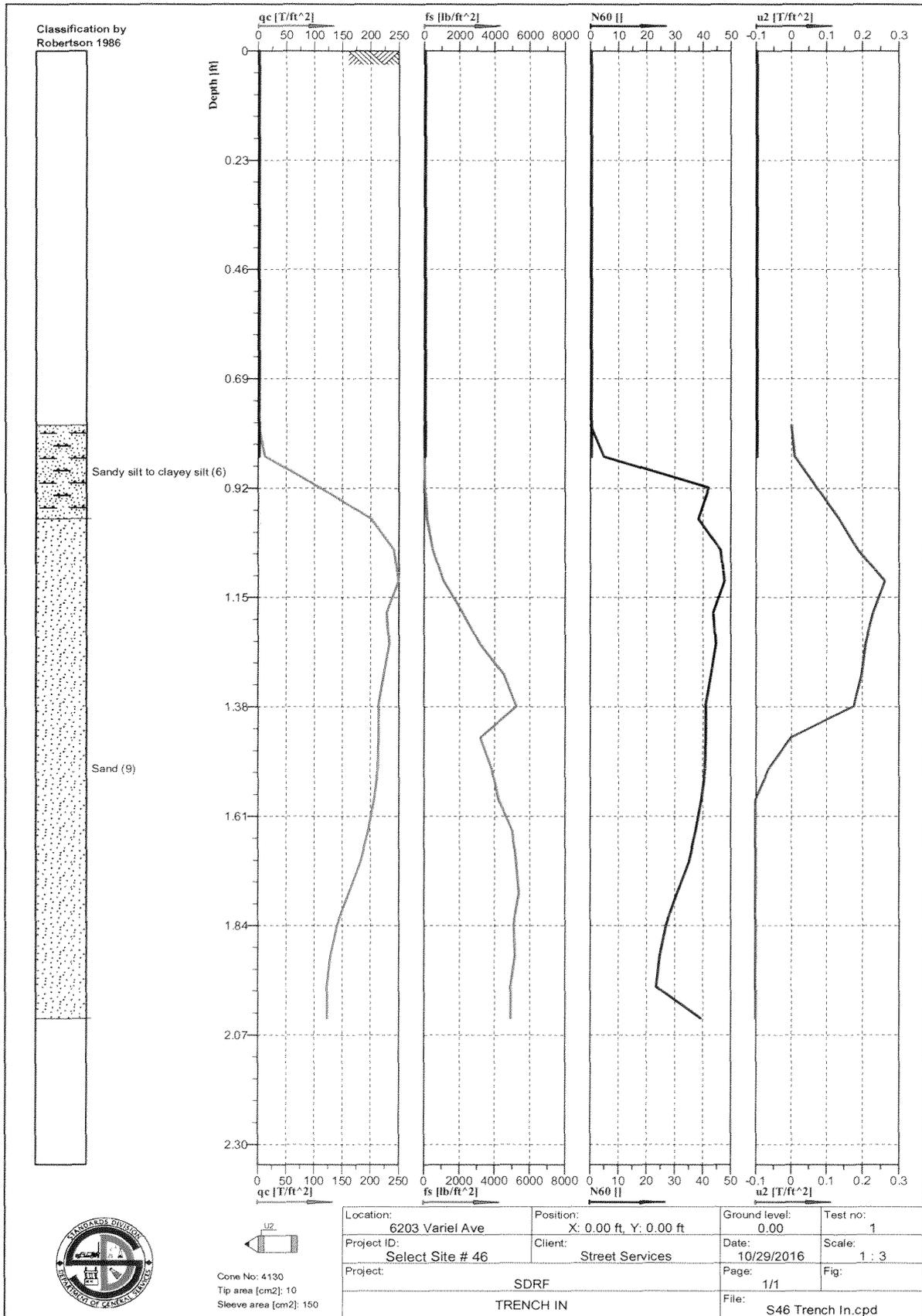
Asphalt thickness = 11.0”.



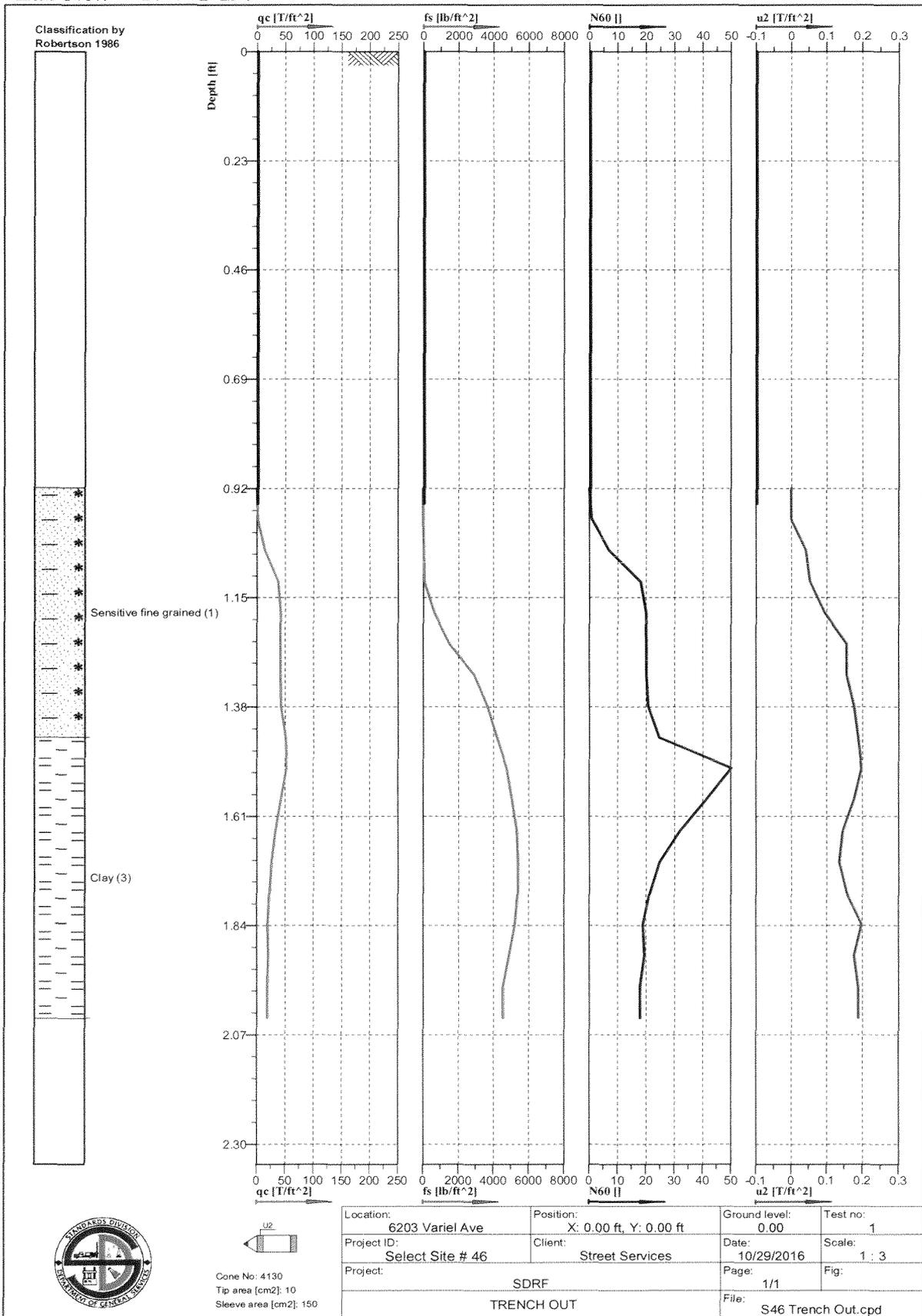
Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: 10185 Tujunga Canyon Bl	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 44	Client: Street Services	Date: 11/3/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S44 Control.cpt	

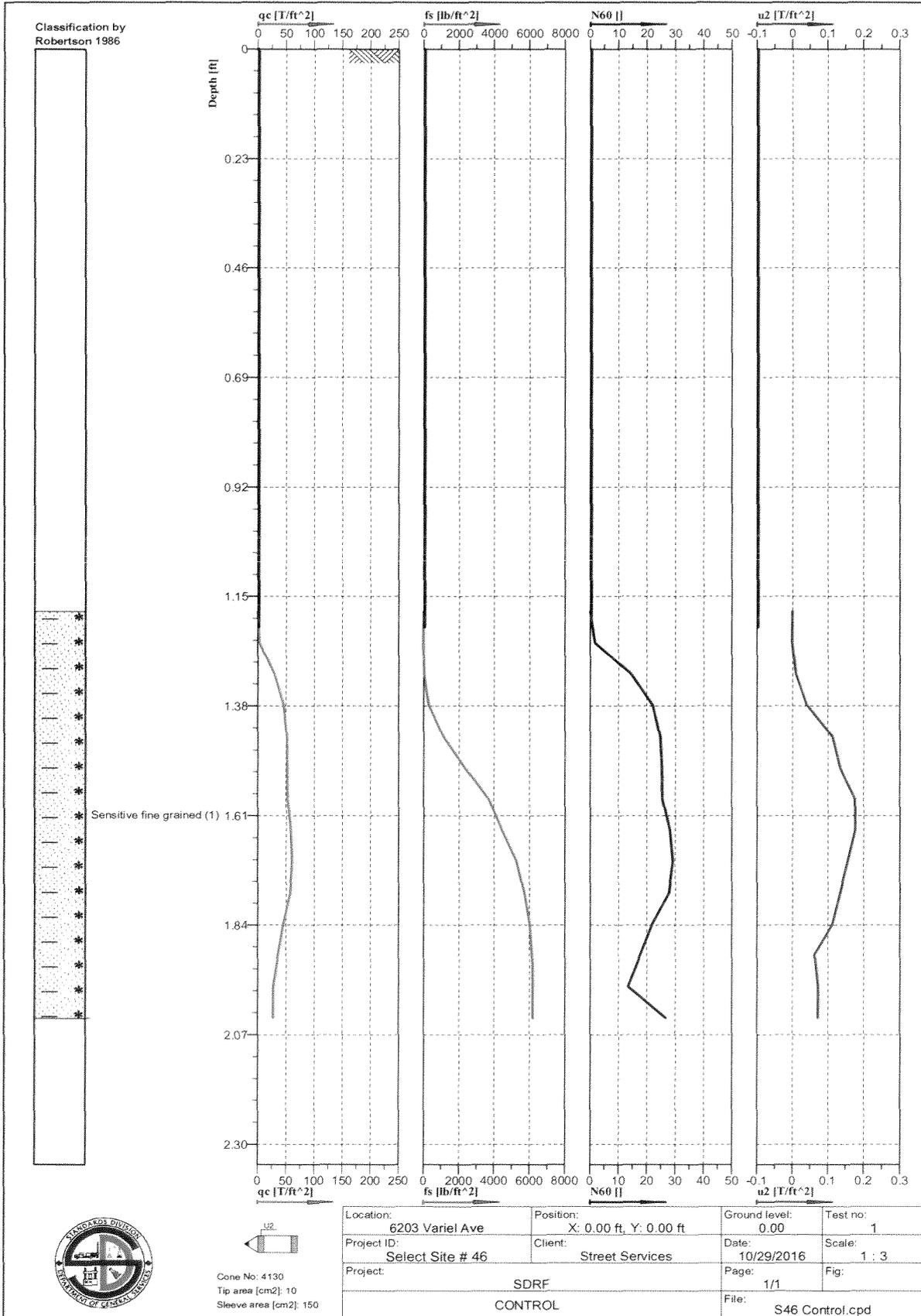
Lab No.: 17-741-196



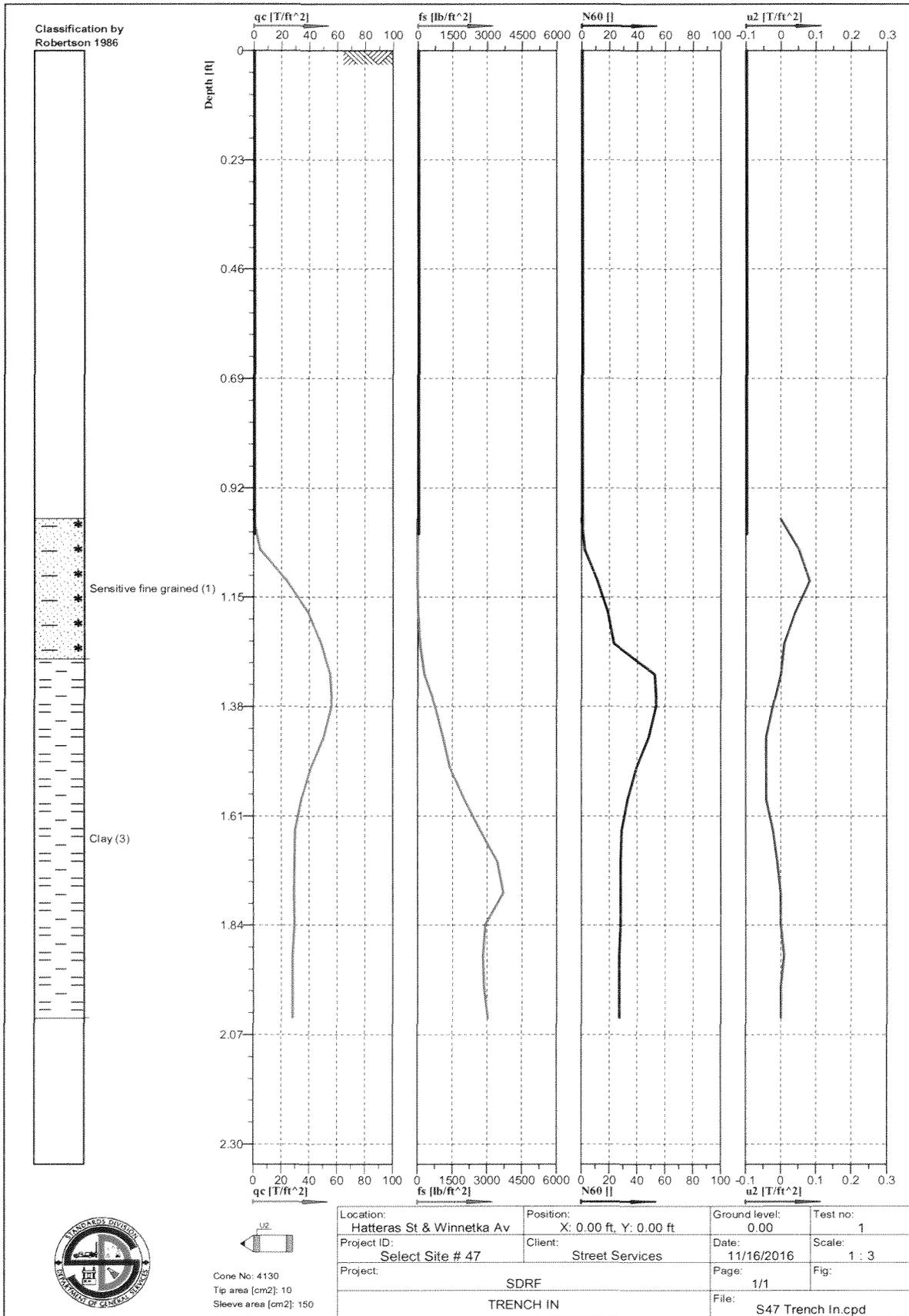
Lab No.: 17-741-197



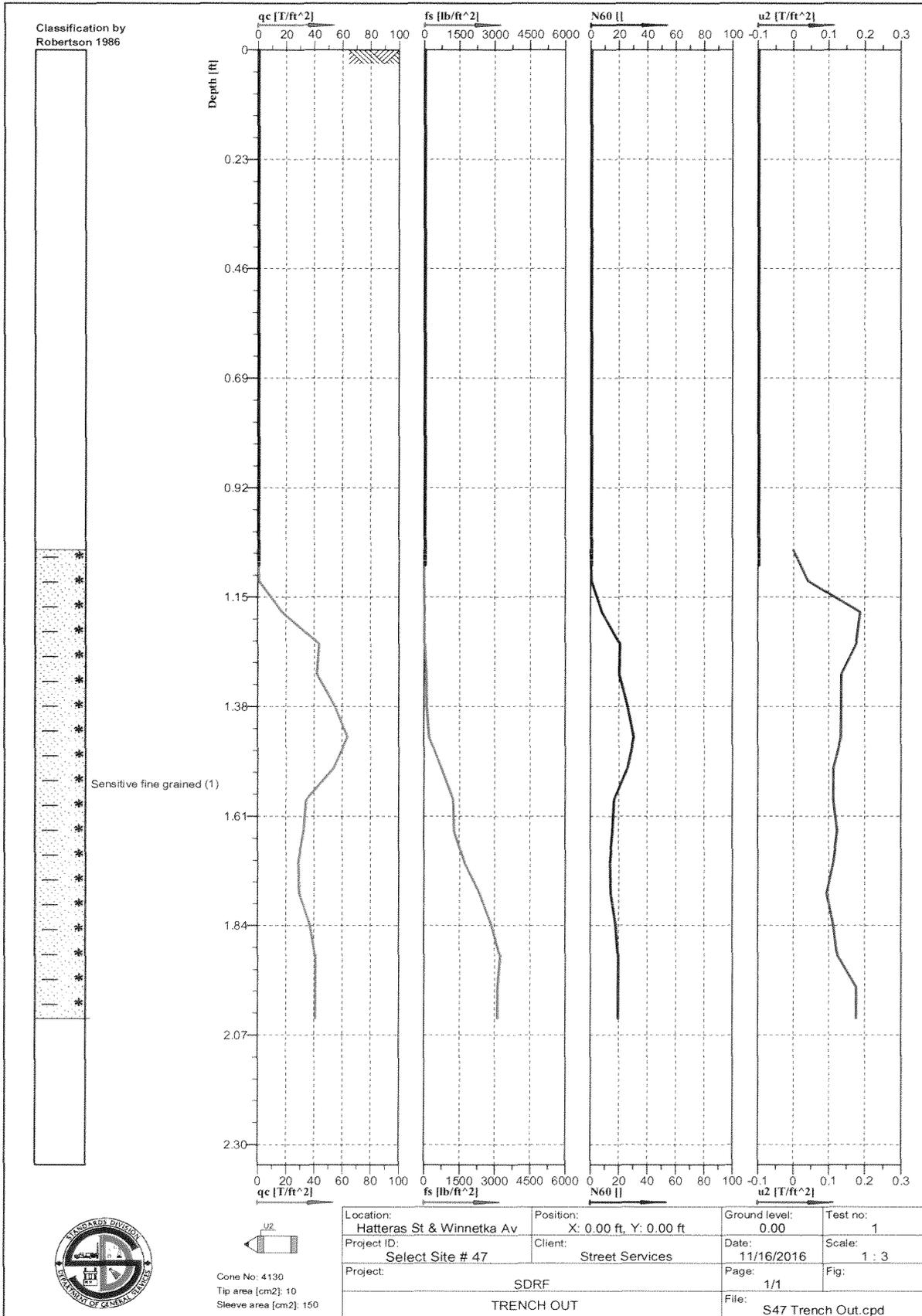
Lab No.: 17-741-198



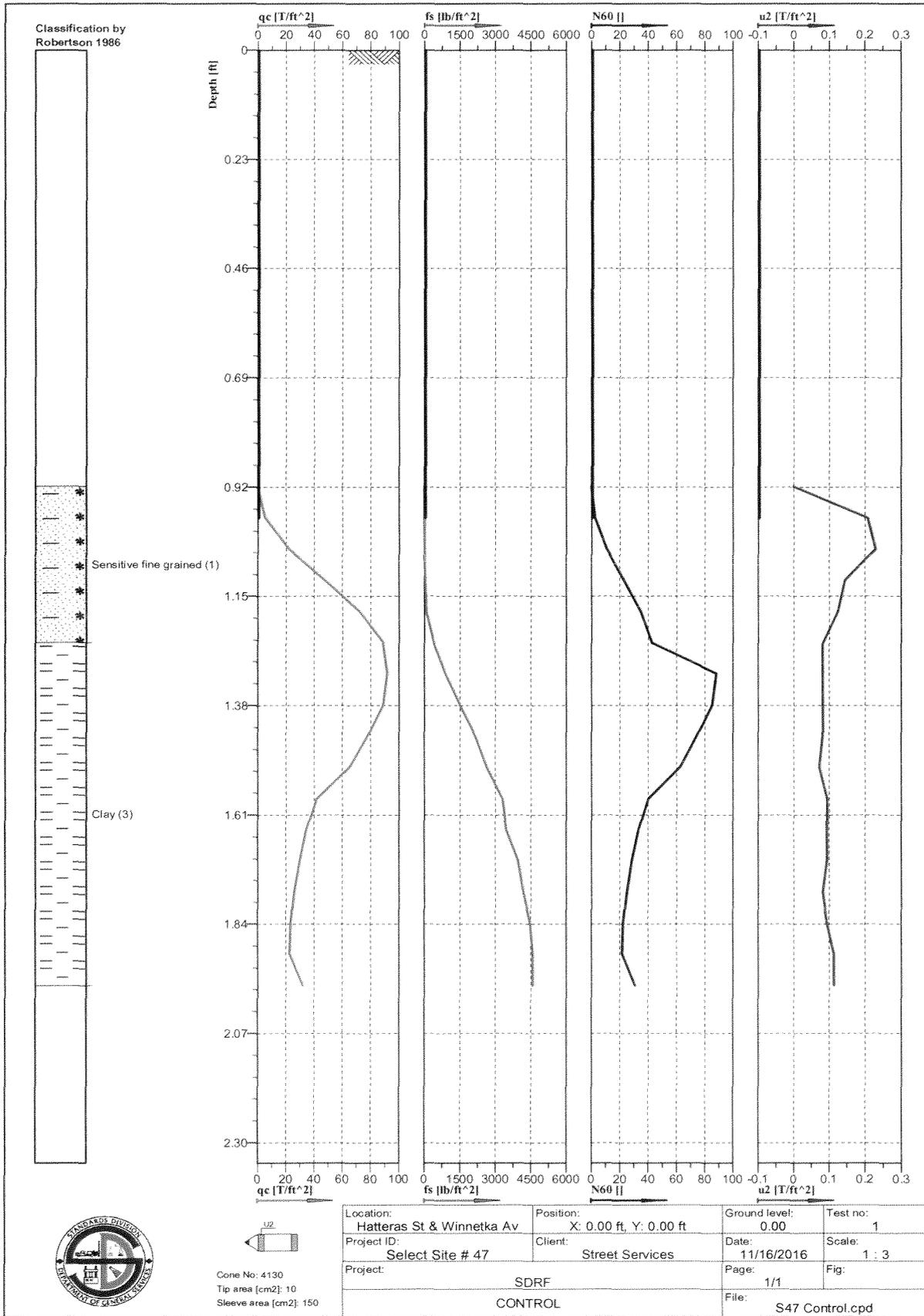
Lab No.: 17-741-199



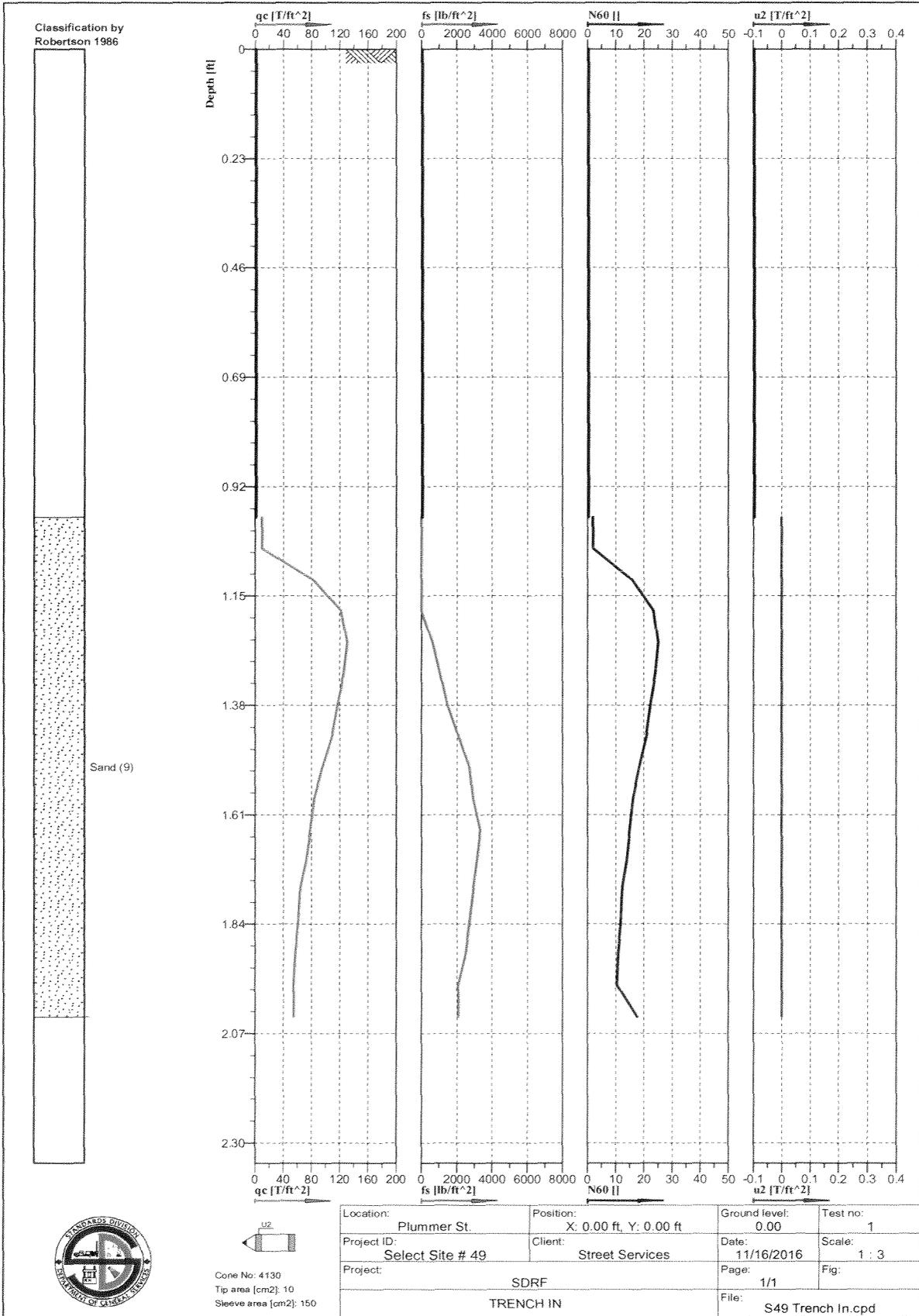
Lab No.: 17-741-200



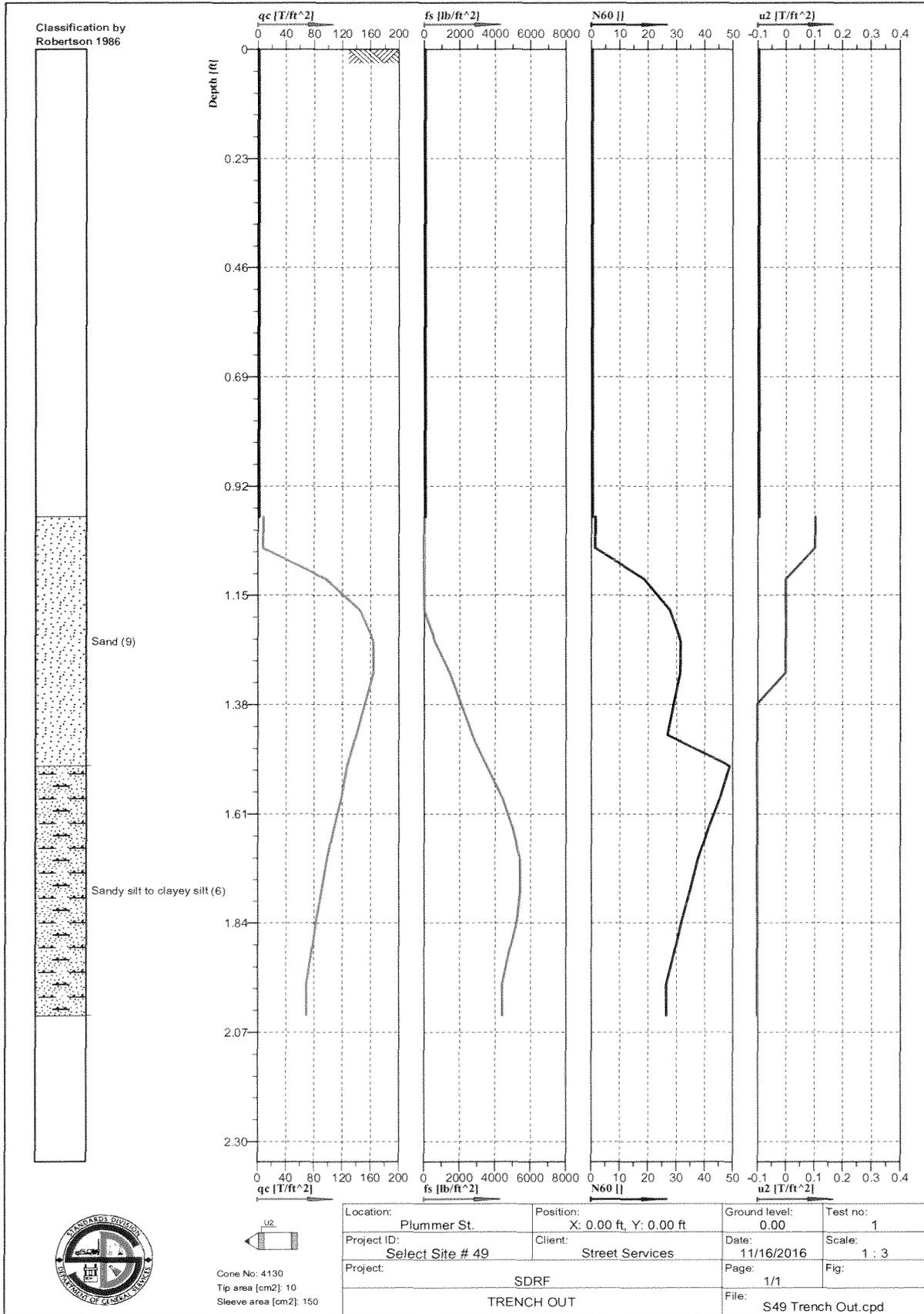
Lab No.: 17-741-201



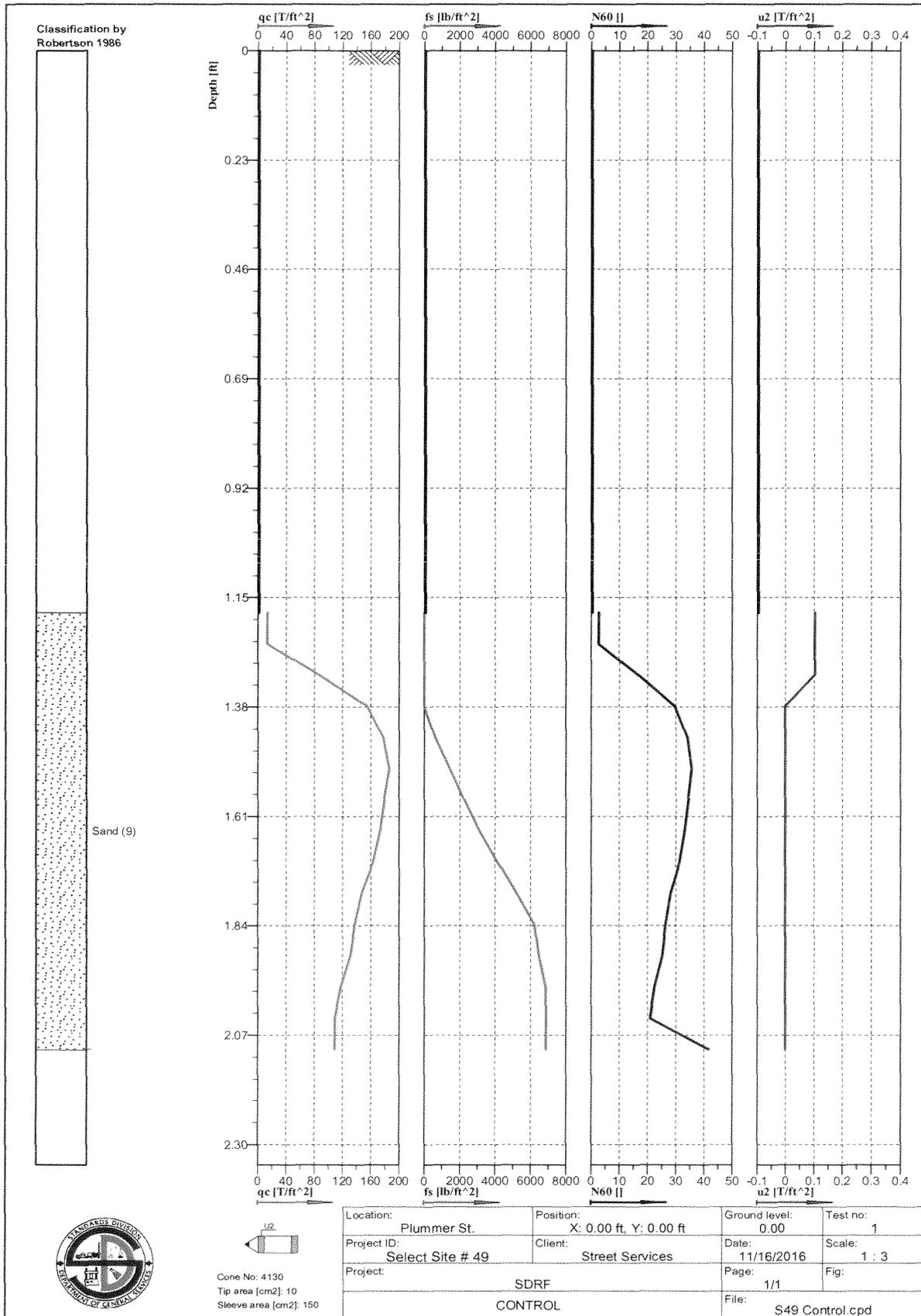
Lab No.: 17-741-202



Lab No.: 17-741-203



Lab No.: 17-741-204



Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

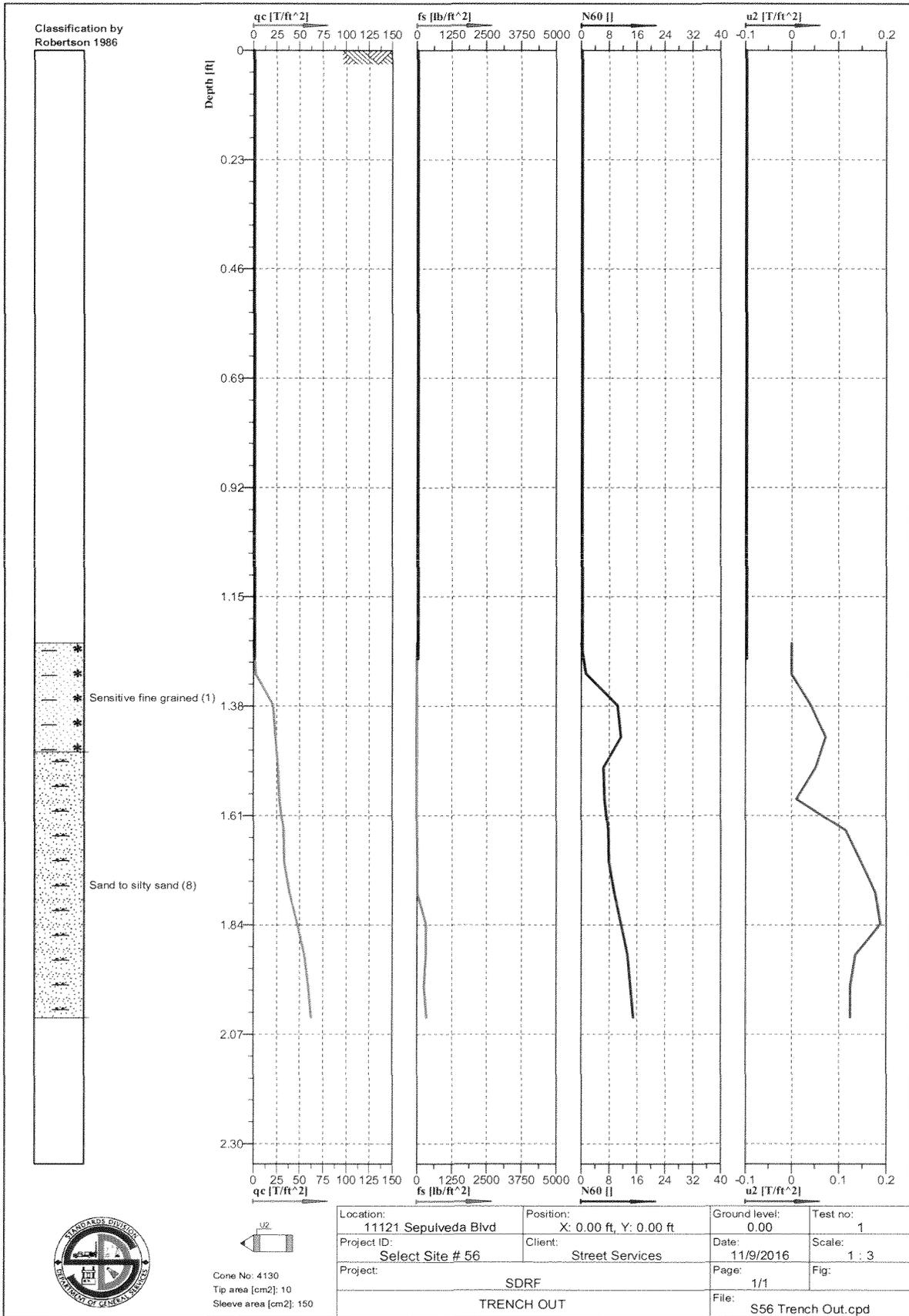
Asphalt thickness = 7.6”.



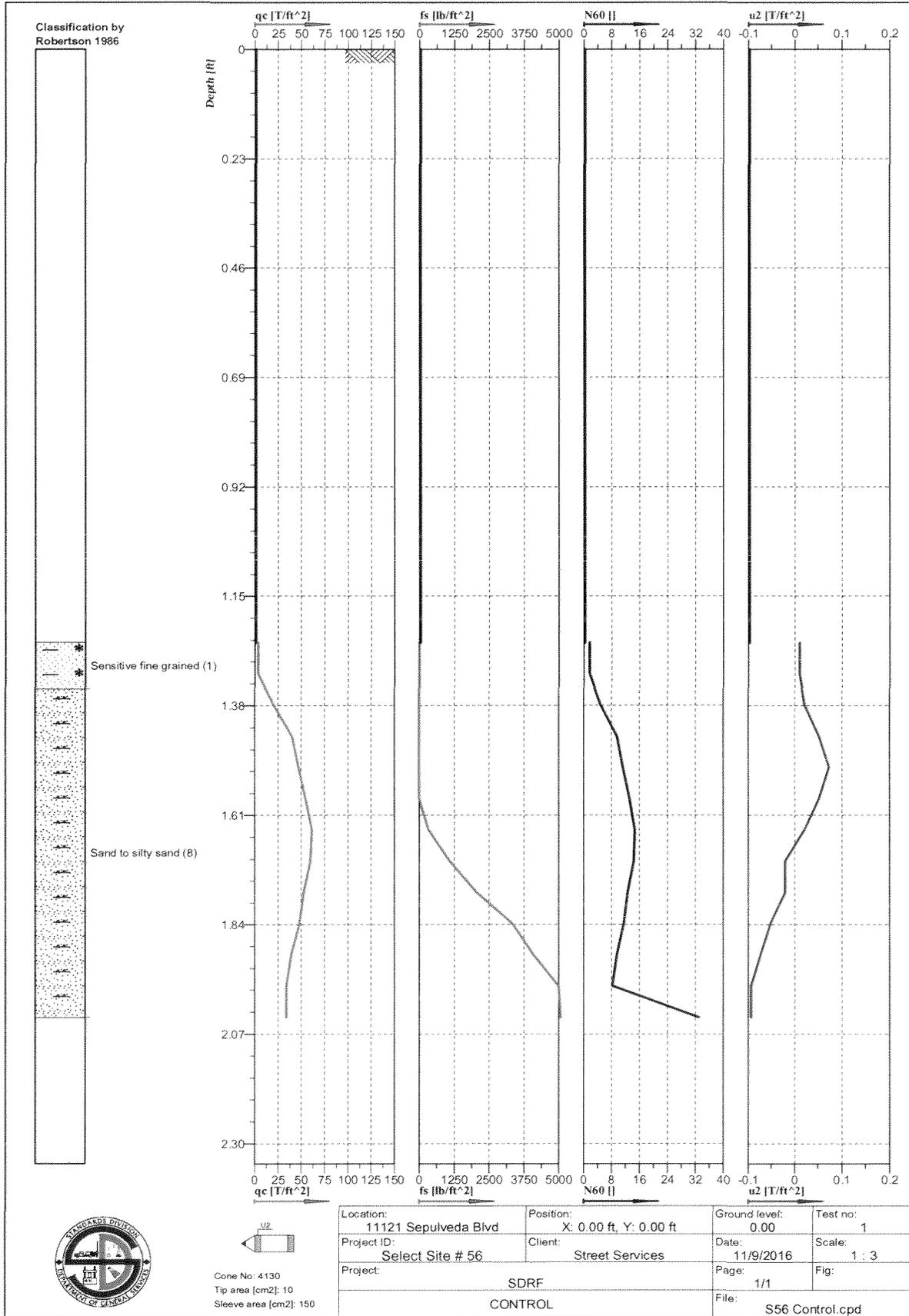
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 11121 Sepulveda Blvd	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 56	Client: Street Services	Date: 11/9/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S56 Trench In.cpd	

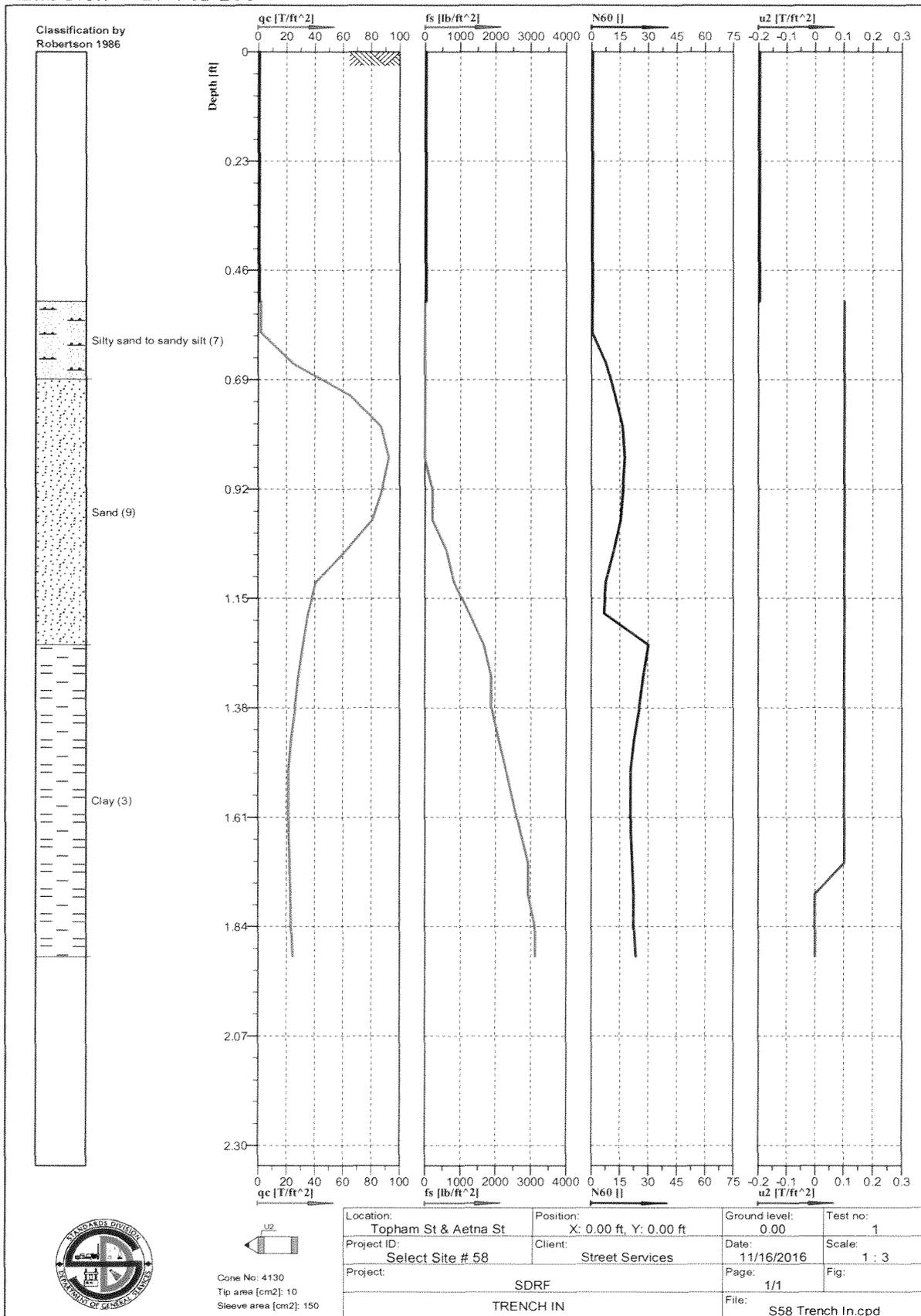
Lab No.: 17-741-206



Lab No.: 17-741-207



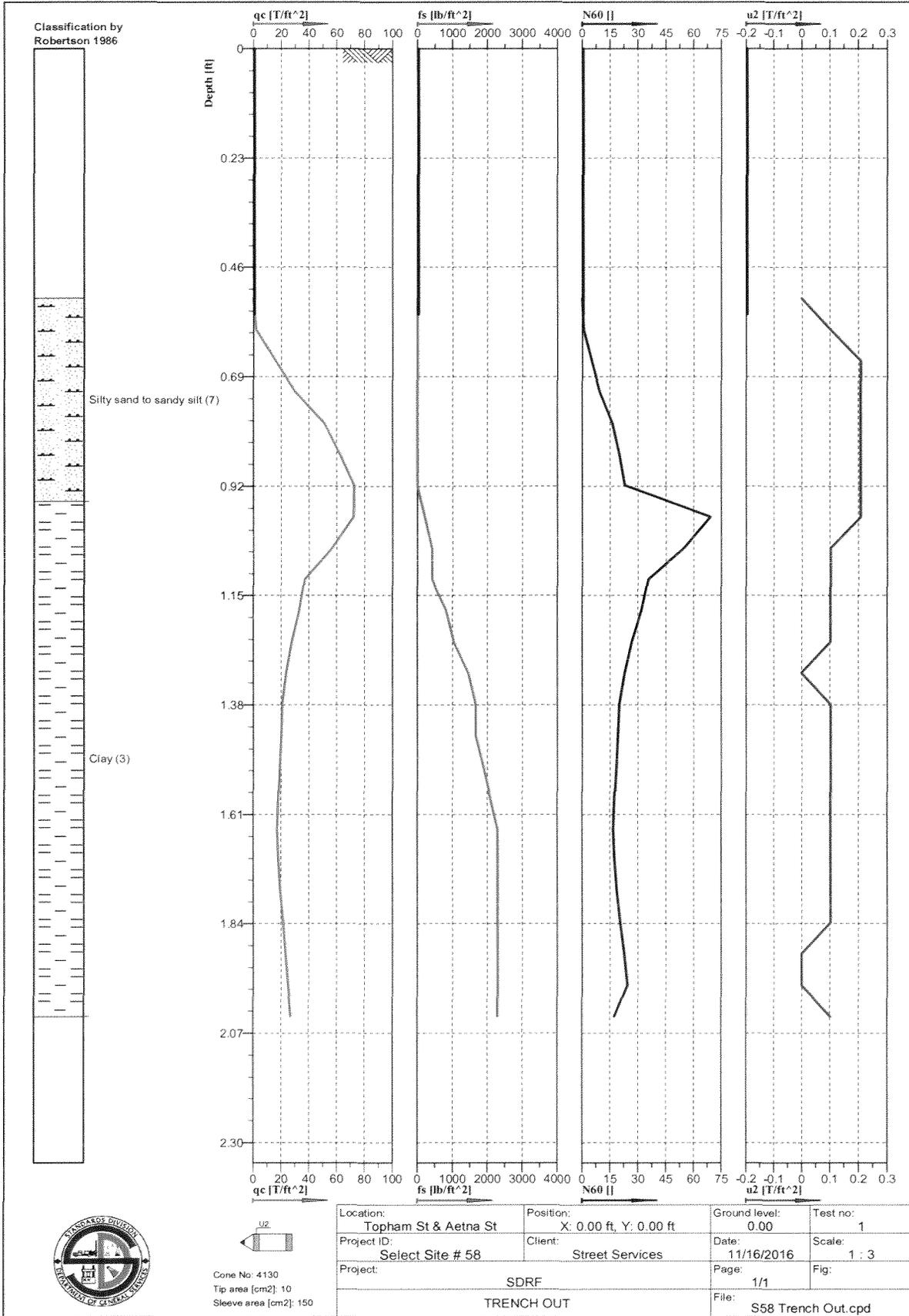
Lab No.: 17-741-208



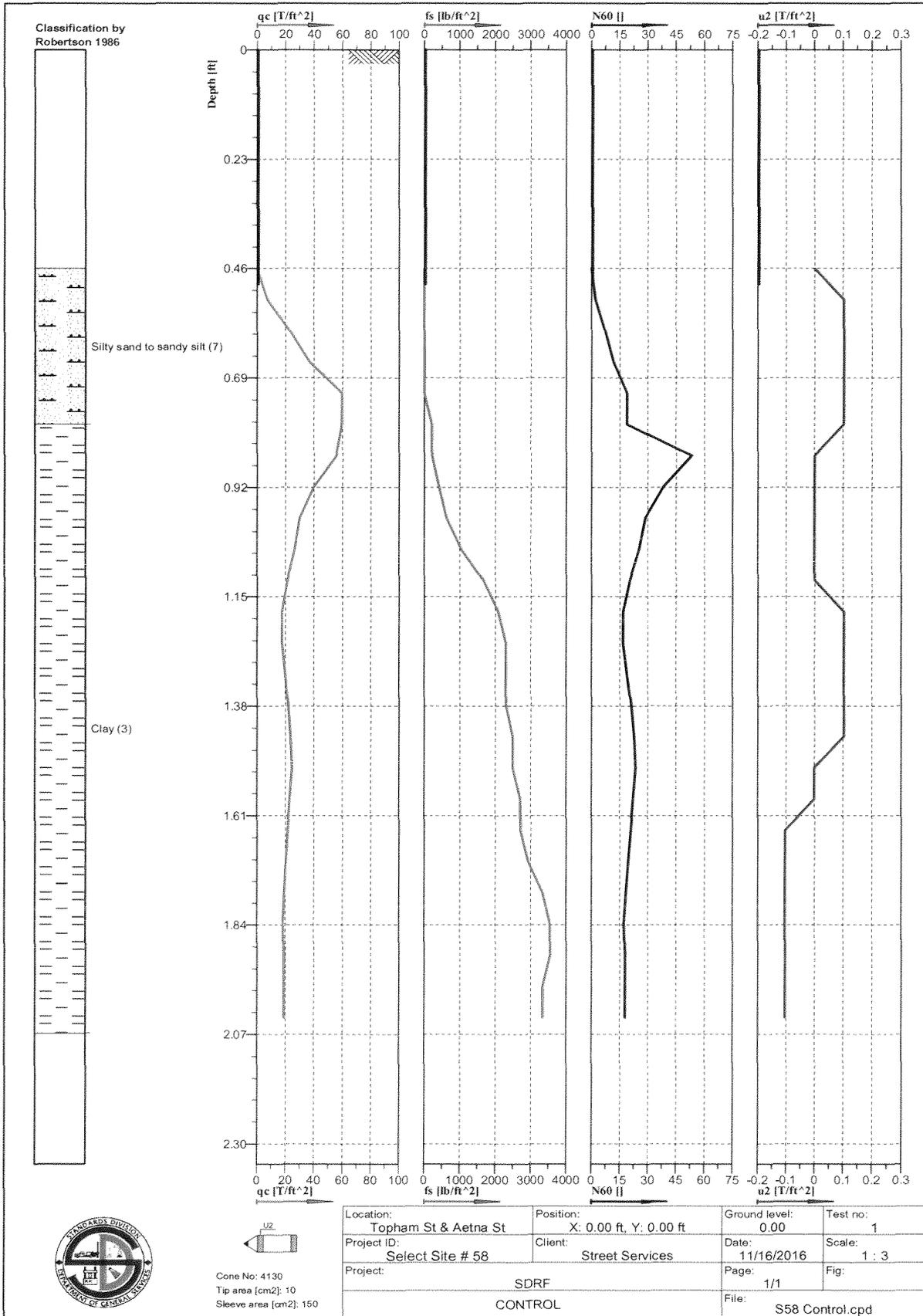
Cone No: 4130
 Tip area [cm²]: 10
 Sieve area [cm²]: 150

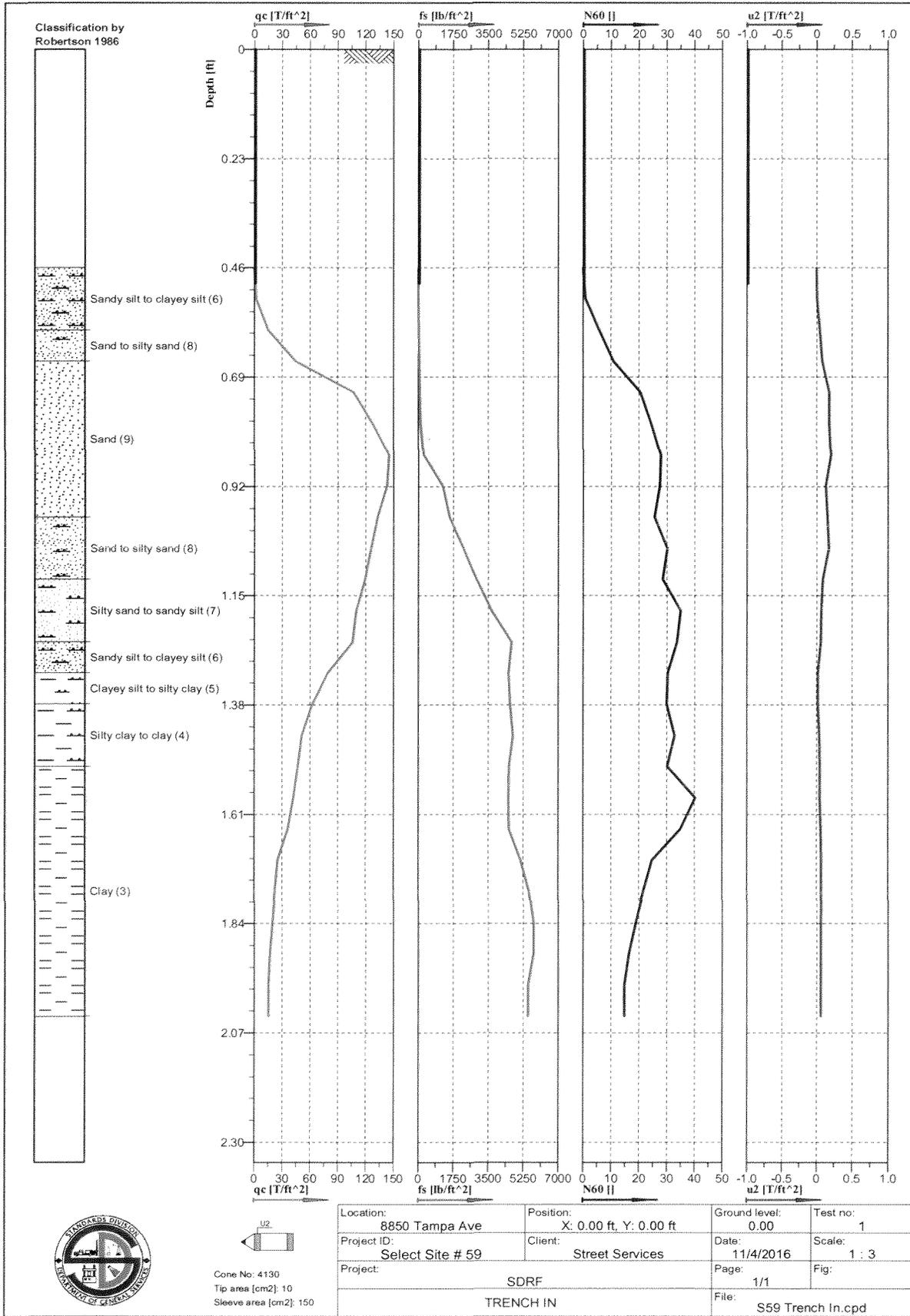
Location: Topham St & Aetna St	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 58	Client: Street Services	Date: 11/16/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
TRENCH IN		File: S58 Trench In.cpd	

Lab No.: 17-741-209



Lab No.: 17-741-210

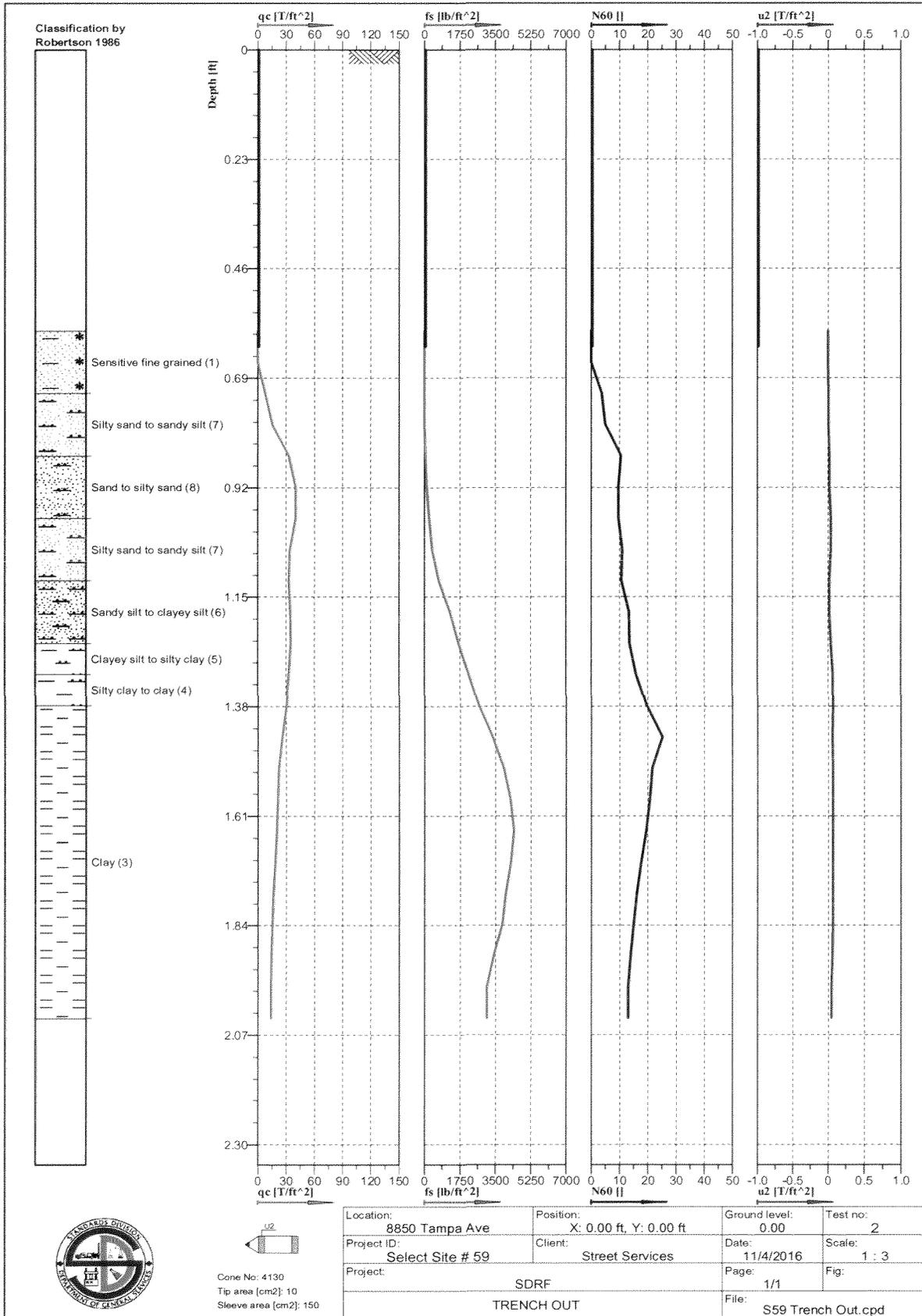




Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 8850 Tampa Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 59	Client: Street Services	Date: 11/4/2016	Scale: 1 : 3
Project: SDRF TRENCH IN		Page: 1/1	Fig: Fig:
		File: S59 Trench In.cpd	

Lab No.: 17-741-212





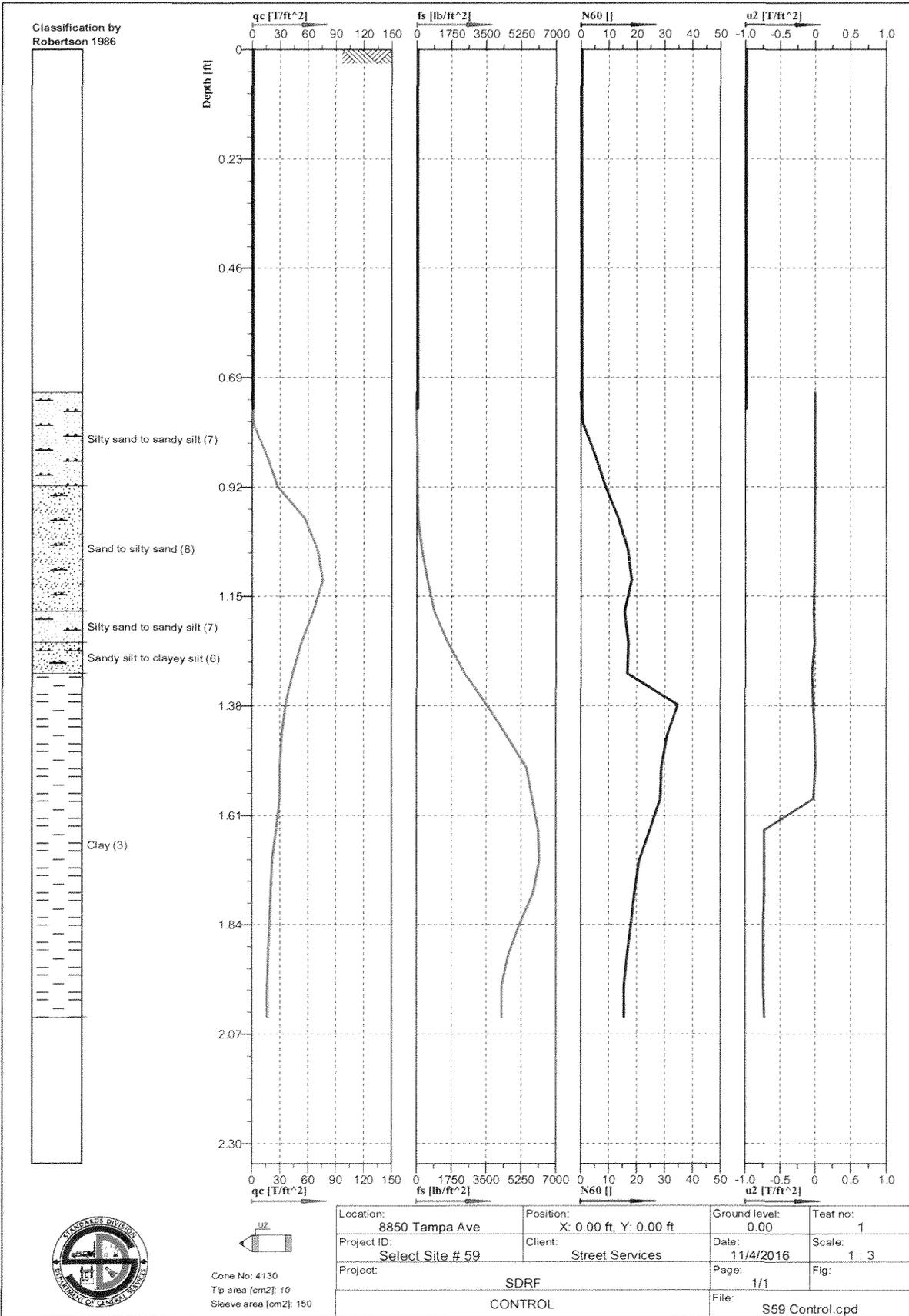
 Cone No: 4130

 Tip area [cm²]: 10

 Sleeve area [cm²]: 150

Location: 8850 Tampa Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 2
Project ID: Select Site # 59	Client: Street Services	Date: 11/4/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH OUT		File: S59 Trench Out.cpd	

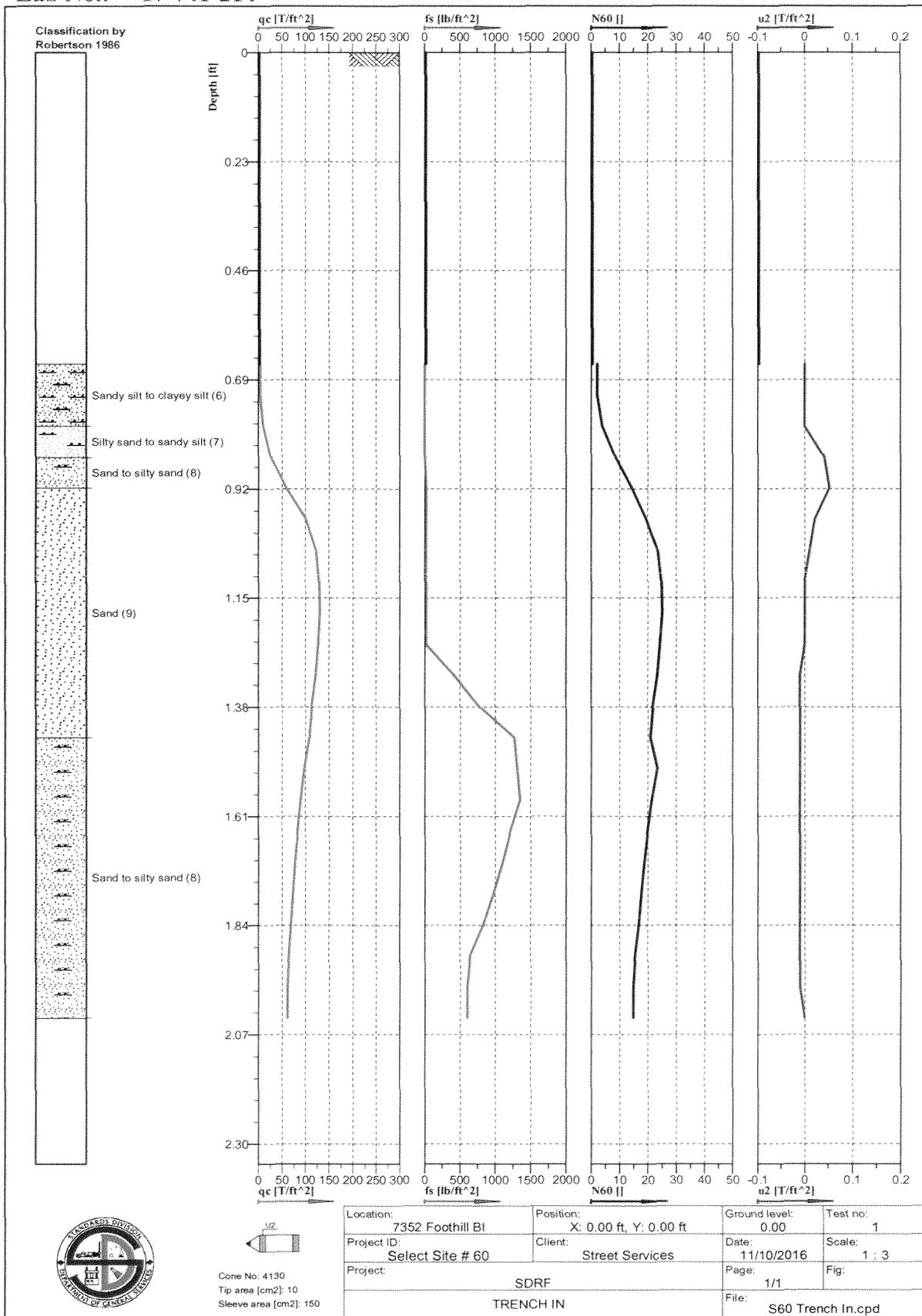
Lab No.: 17-741-213



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 8850 Tampa Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 59	Client: Street Services	Date: 11/4/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S59 Control.cpd	

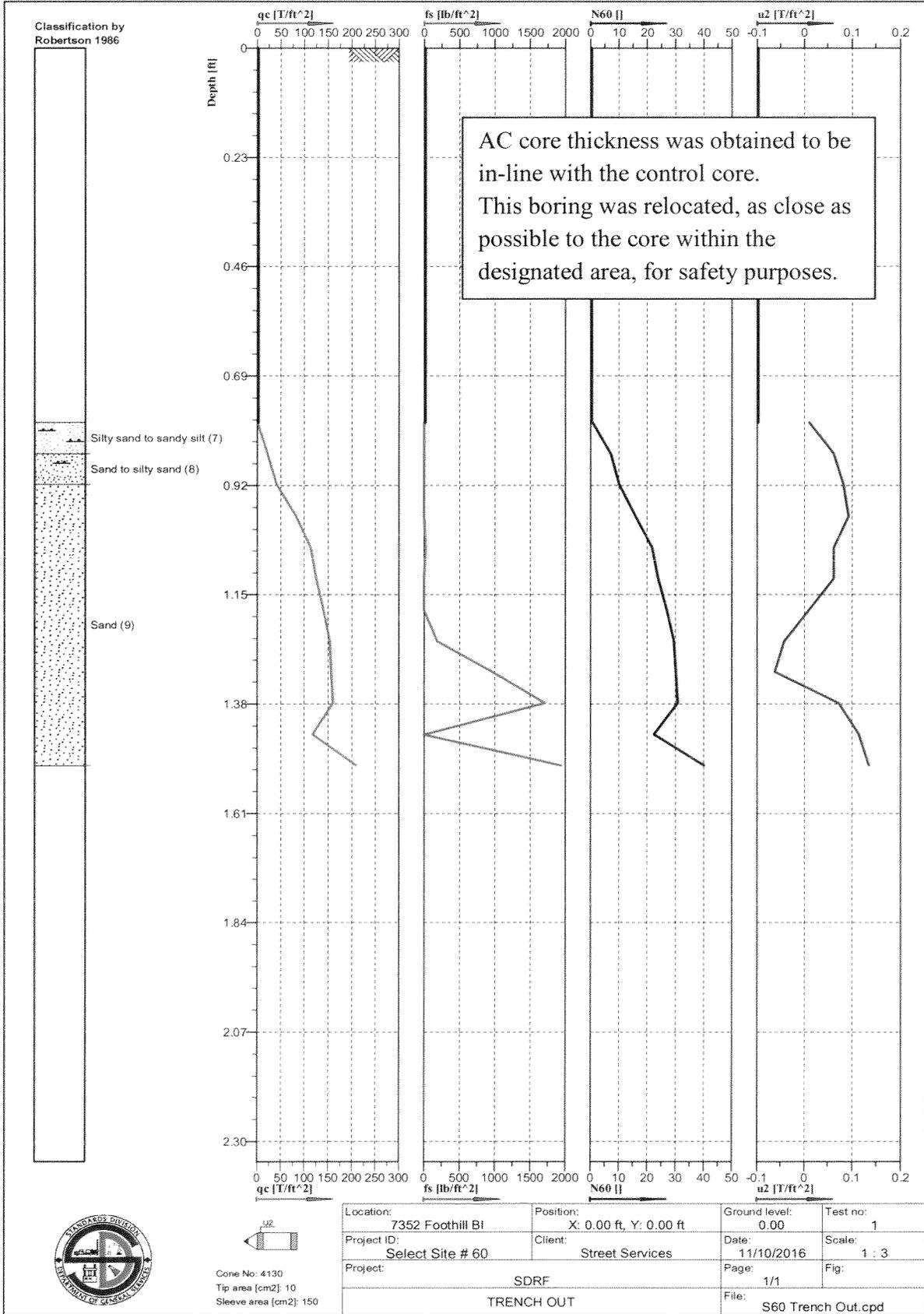
Lab No.: 17-741-214

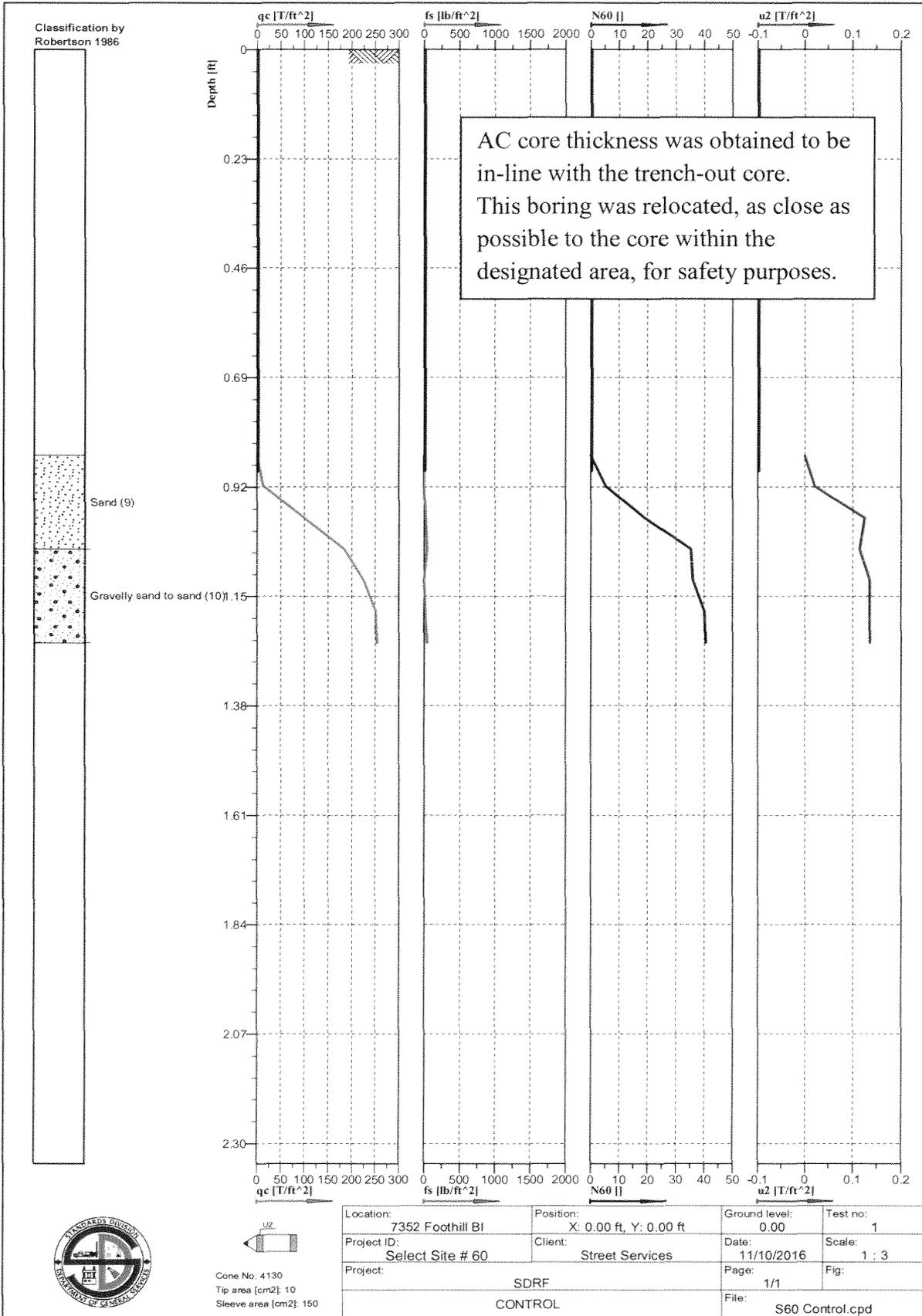


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

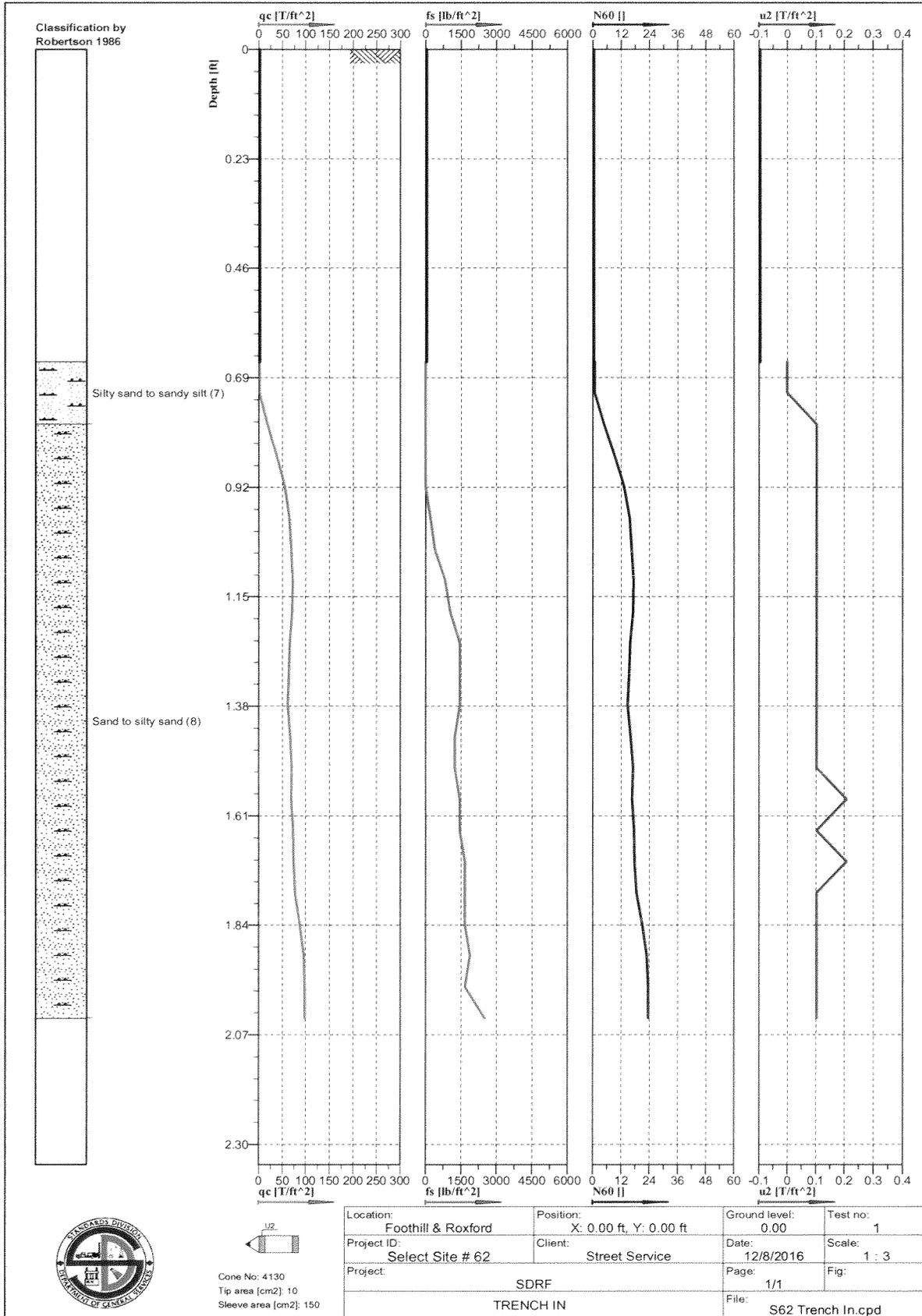
Location: 7352 Foothill Bl	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 60	Client: Street Services	Date: 11/10/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S60 Trench In.cpd	

Lab No.: 17-741-215

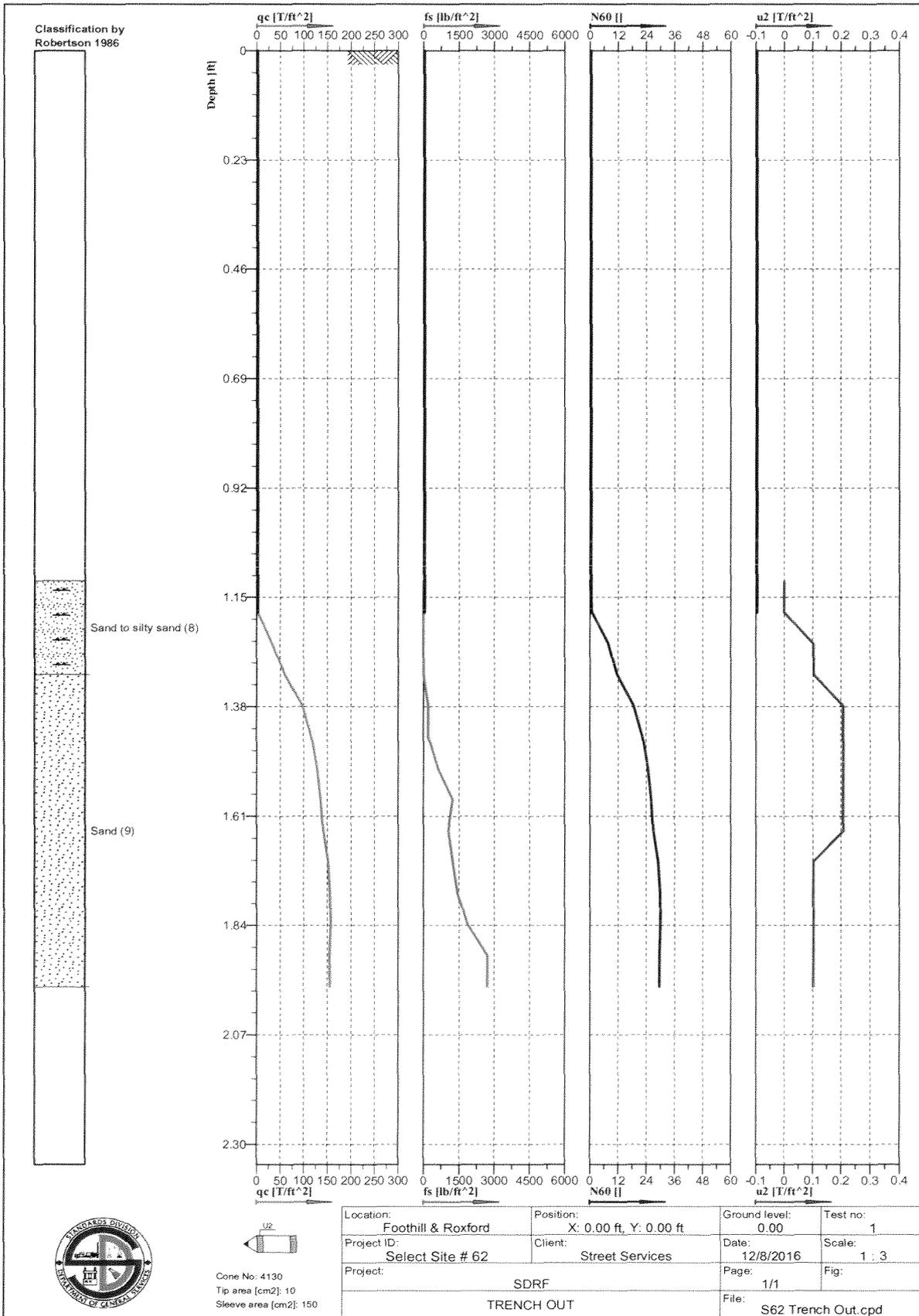




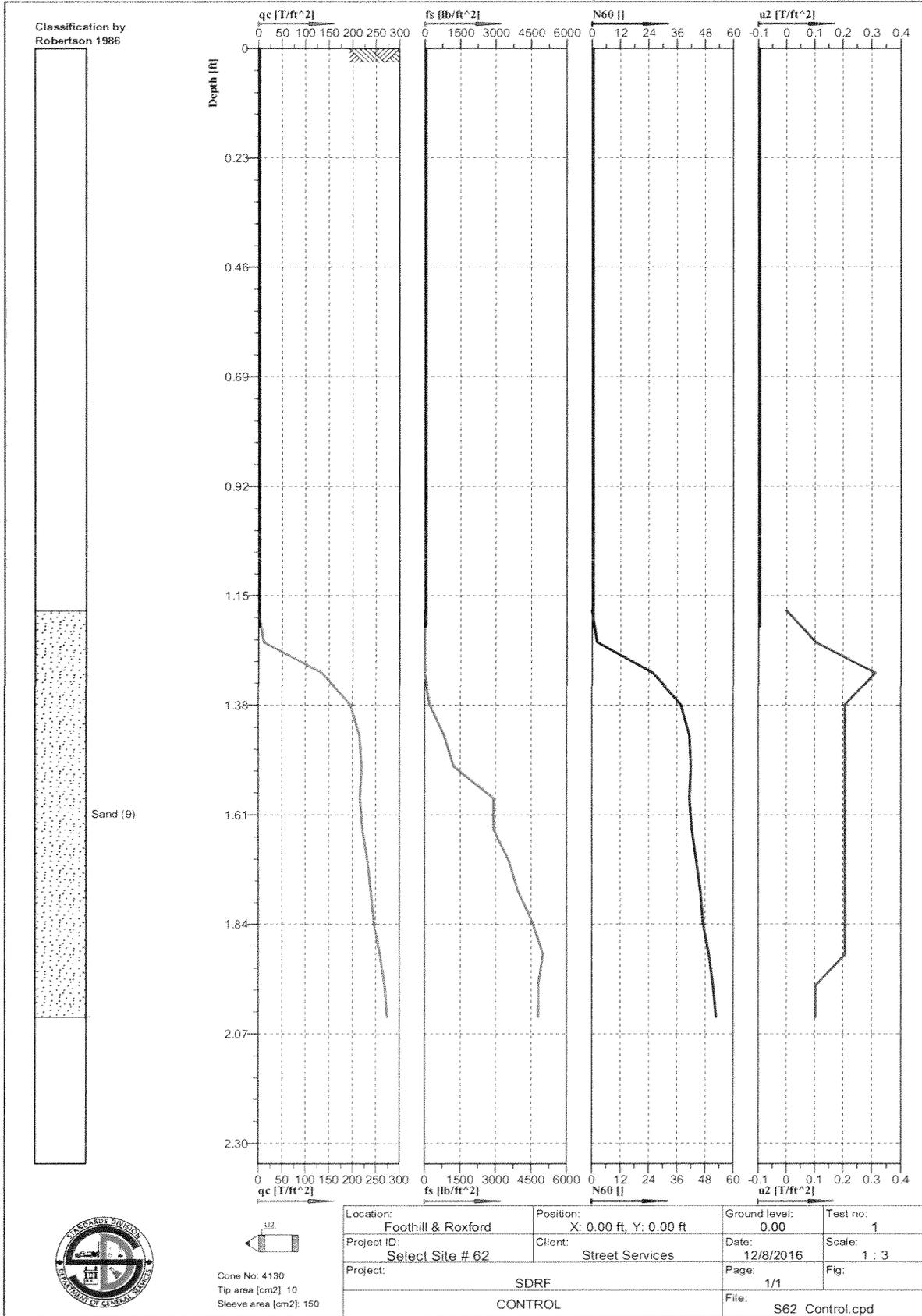
Lab No.: 17-741-217



Lab No.: 17-741-218



Lab No.: 17-741-219



Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

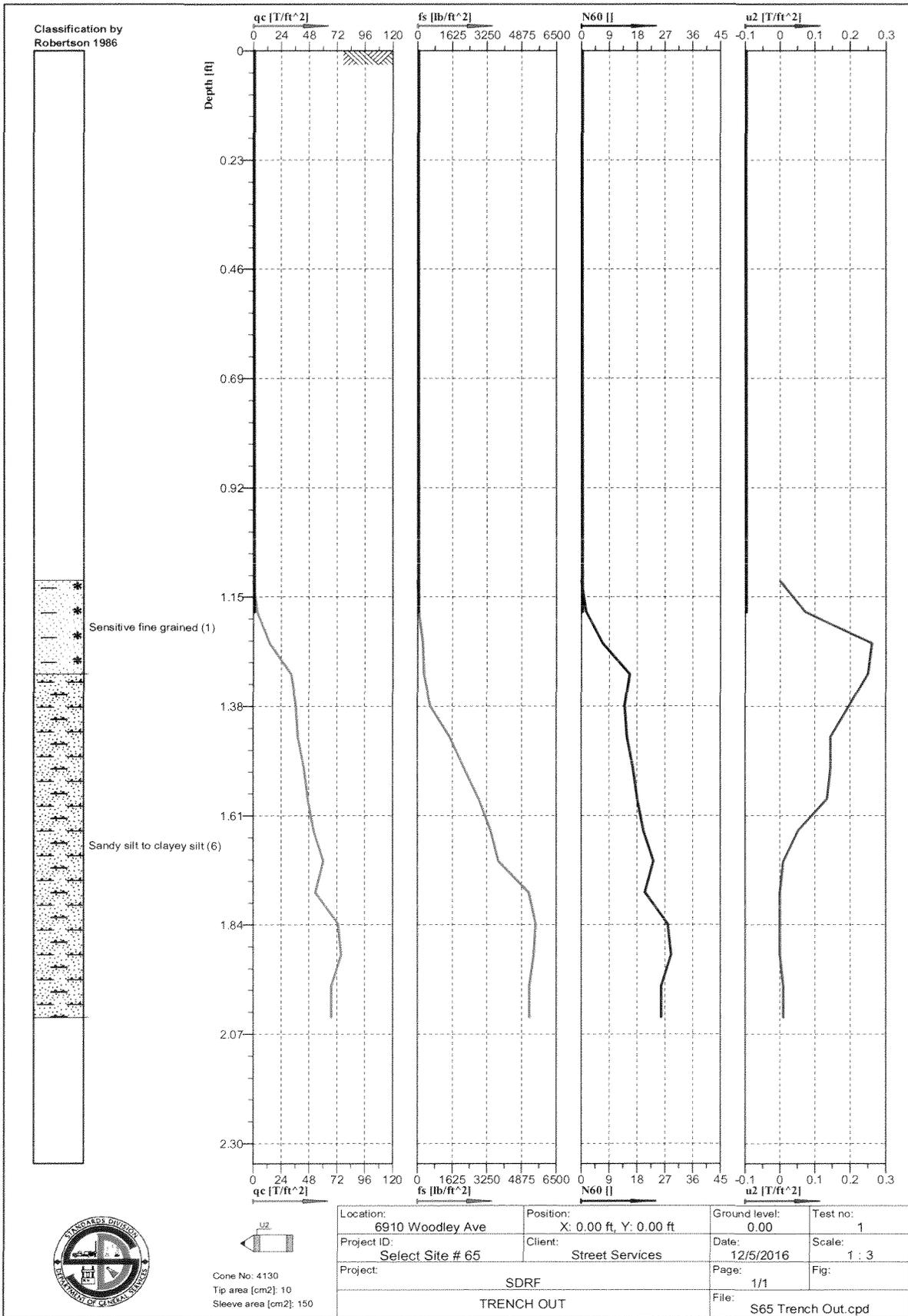
Asphalt thickness = 8.5”.



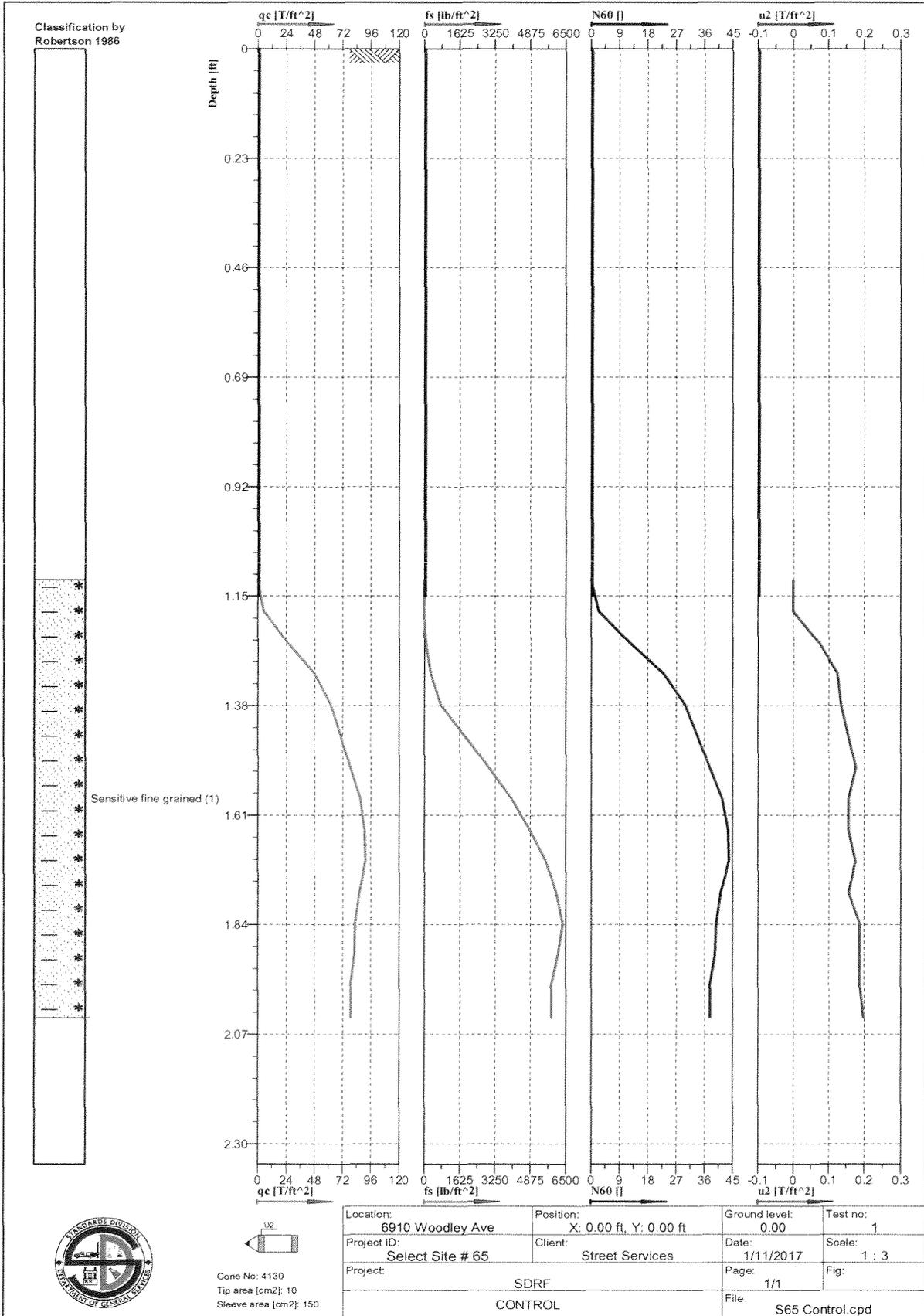
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 6910 Woodley Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 65	Client: Street Services	Date: 1/11/2017	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S65 Trench In.cpd	

Lab No.: 17-741-221



Lab No.: 17-741-222



Lab No.: 17-741-223

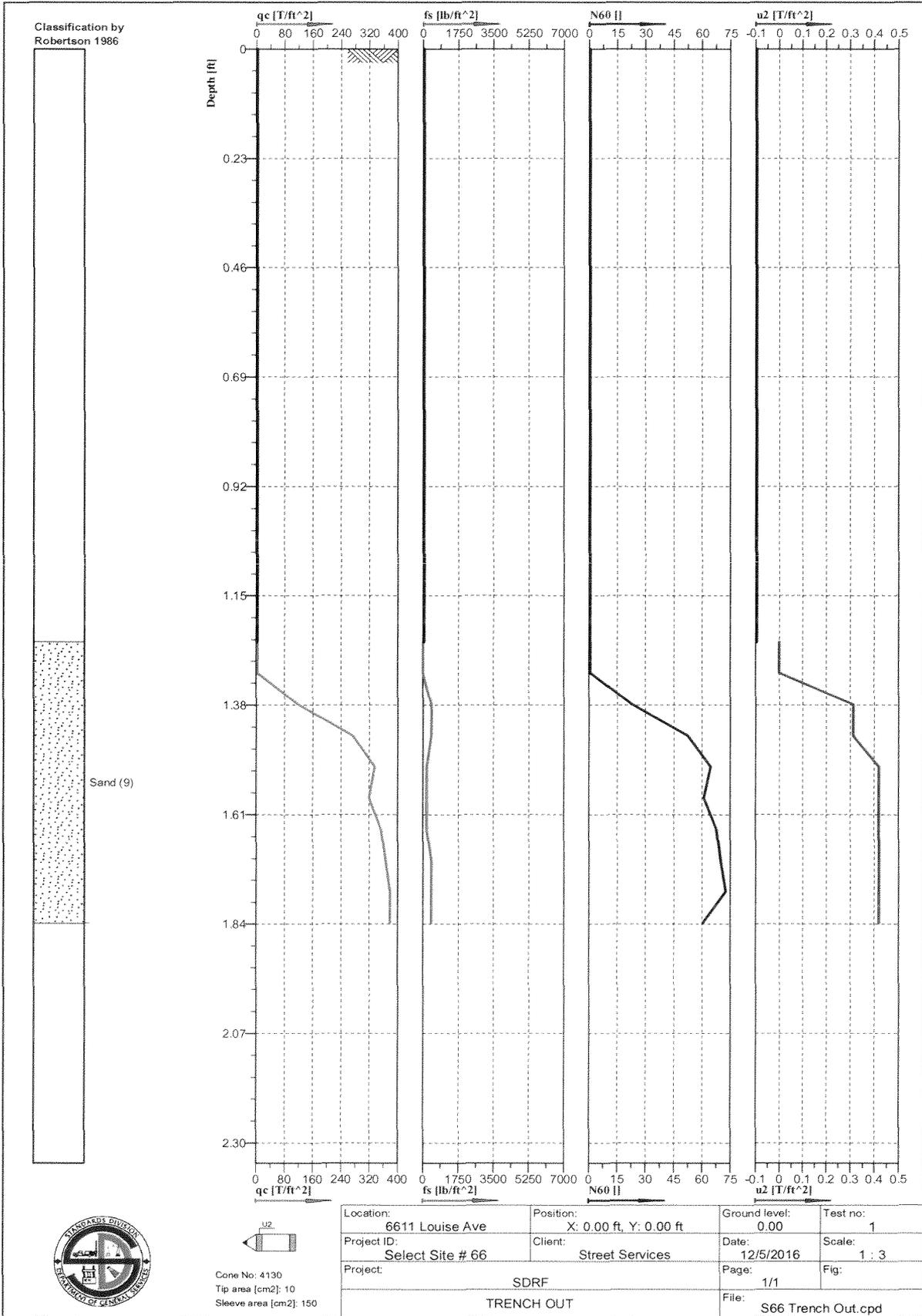
Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

Asphalt thickness = 10.1”.

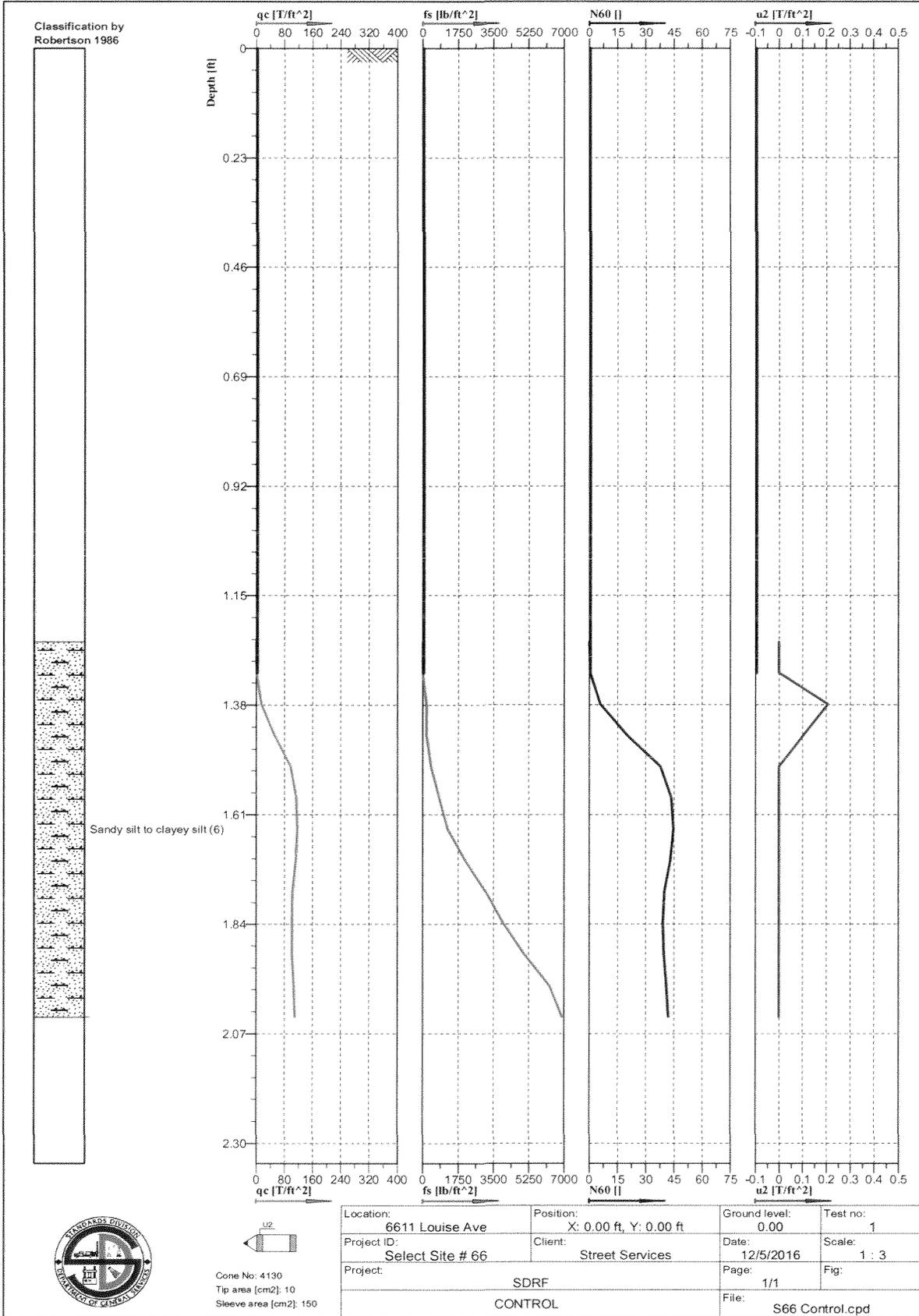


Cone No: 4130
Tip area [cm2]: 10
Sleeve area [cm2]: 150

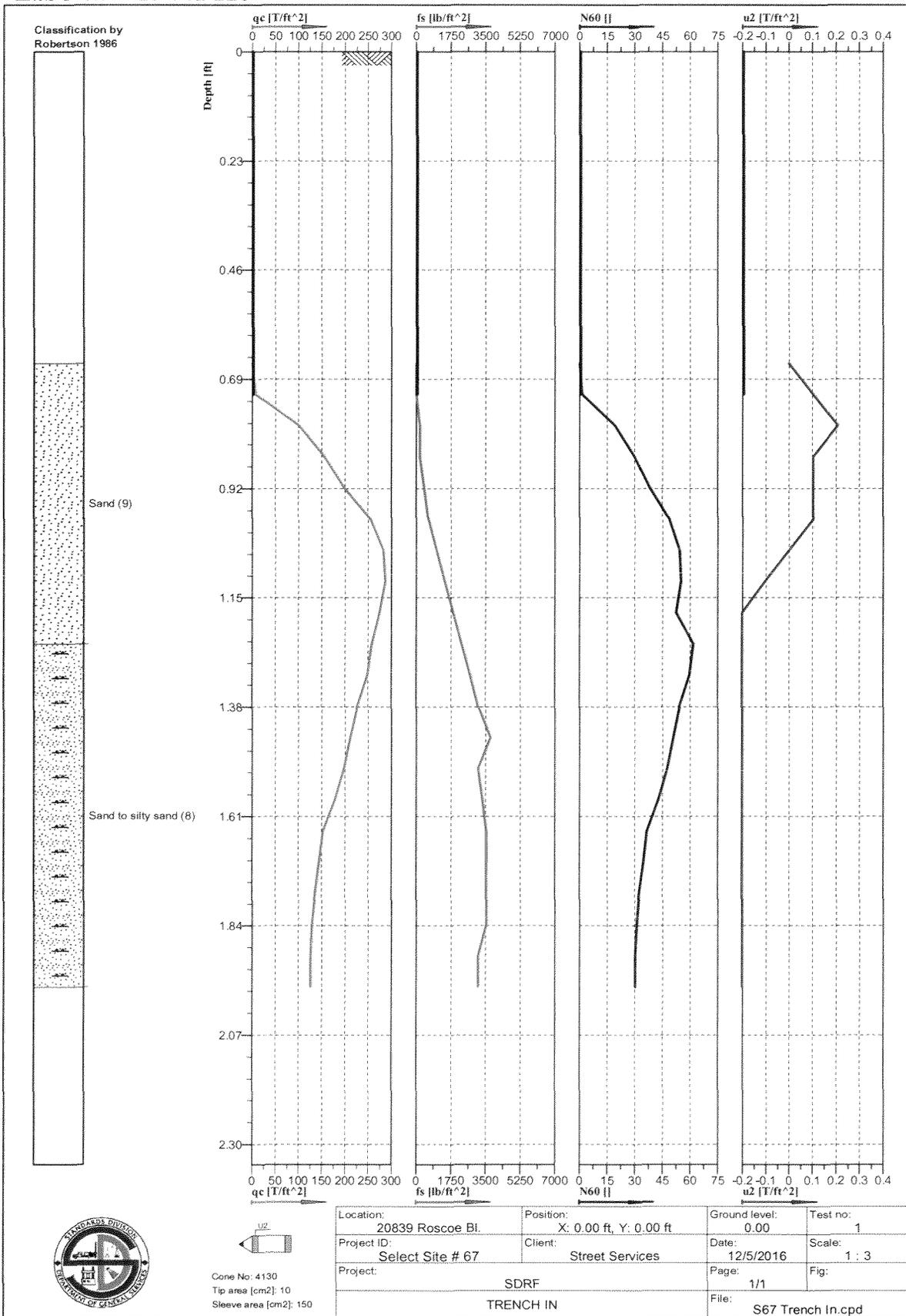
Location:	6611 Louise Ave	Position:	X: 0.00 ft, Y: 0.00 ft	Ground level:	0.00	Test no:	1
Project ID:	Select Site # 66	Client:	Street Services	Date:	12/5/2016	Scale:	1 : 3
Project:	SDRF			Page:	1/1	Fig:	
	TRENCH IN			File:	S66 Trench In.cpd		



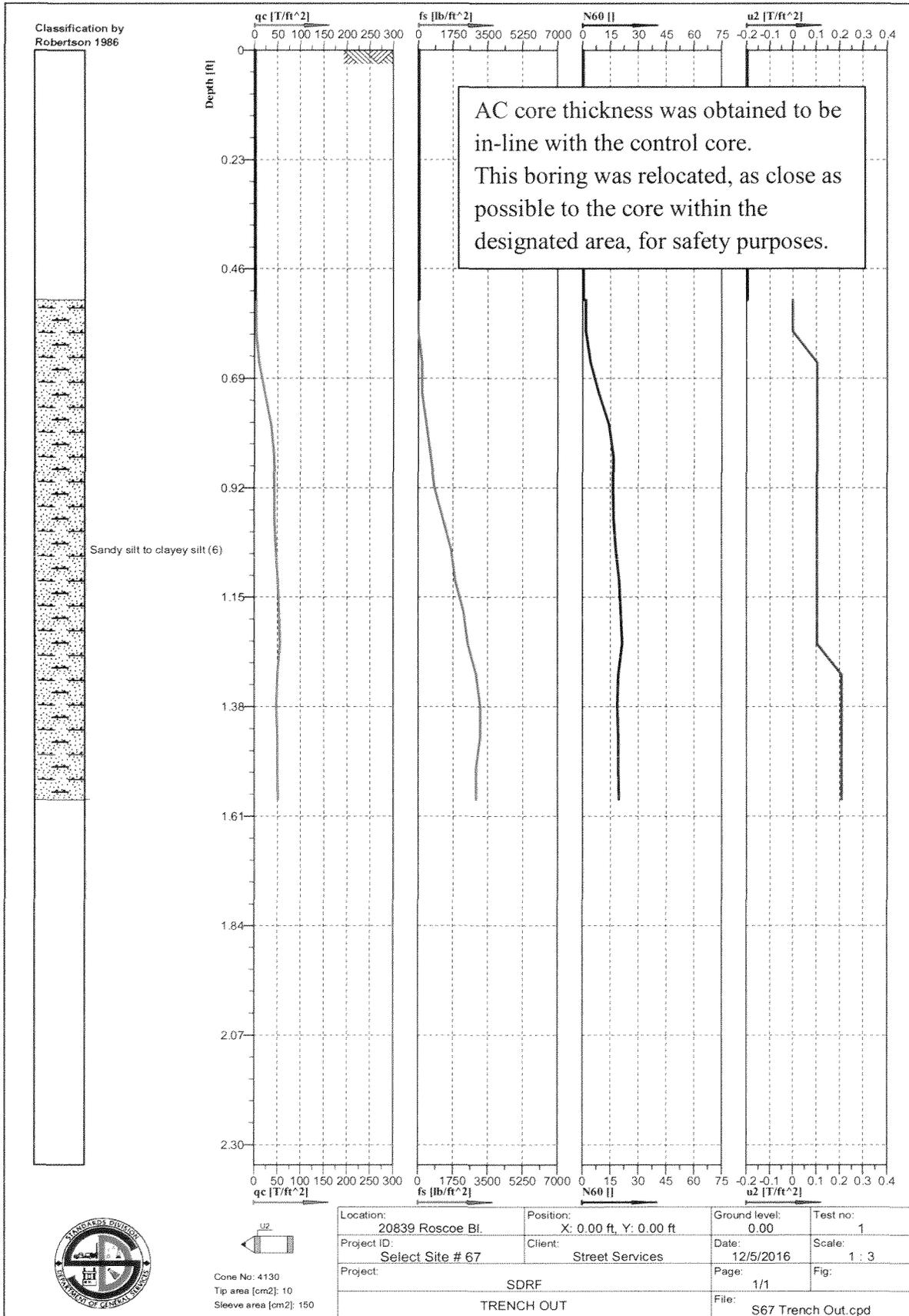
Lab No.: 17-741-225



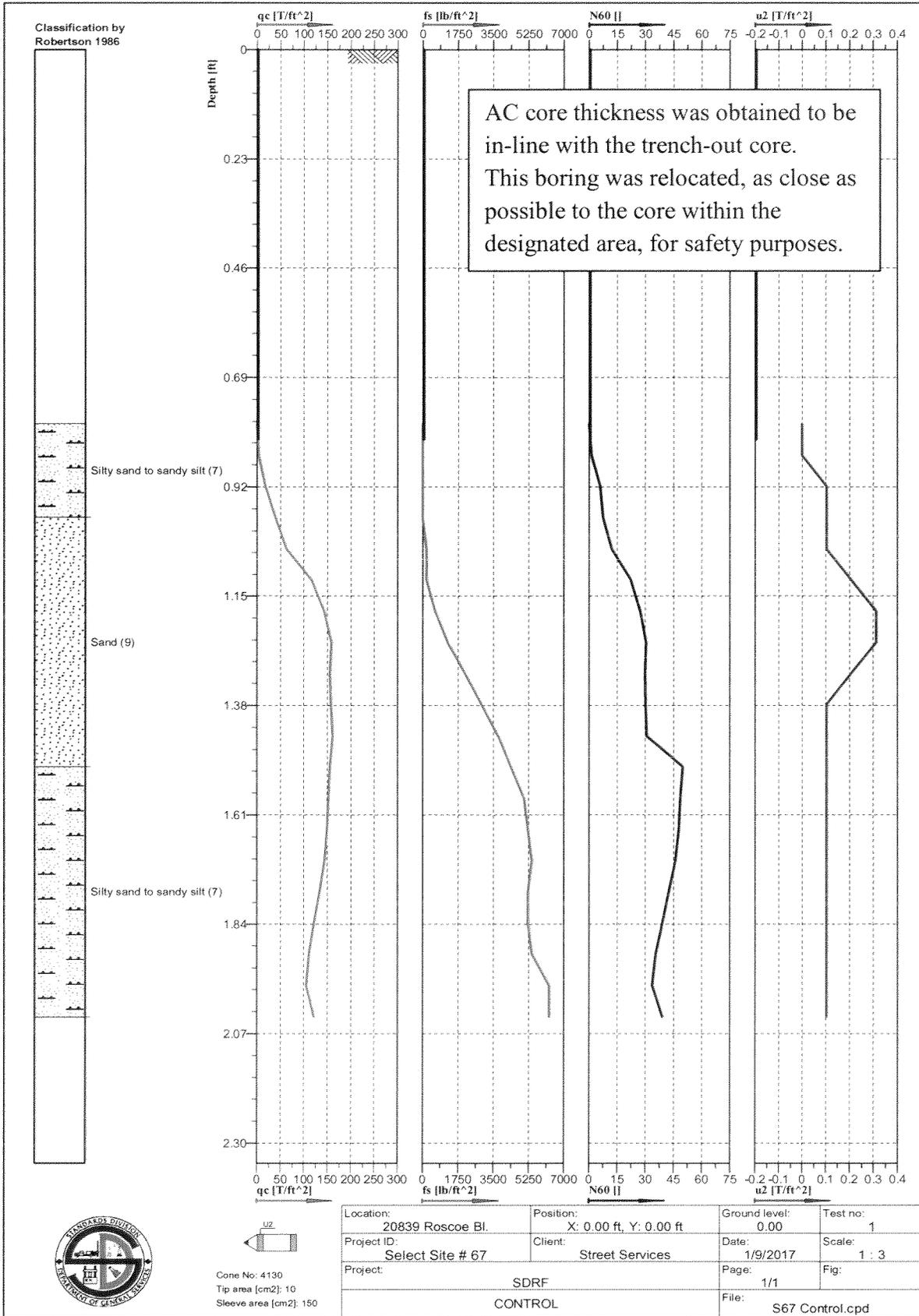
Lab No.: 17-741-226



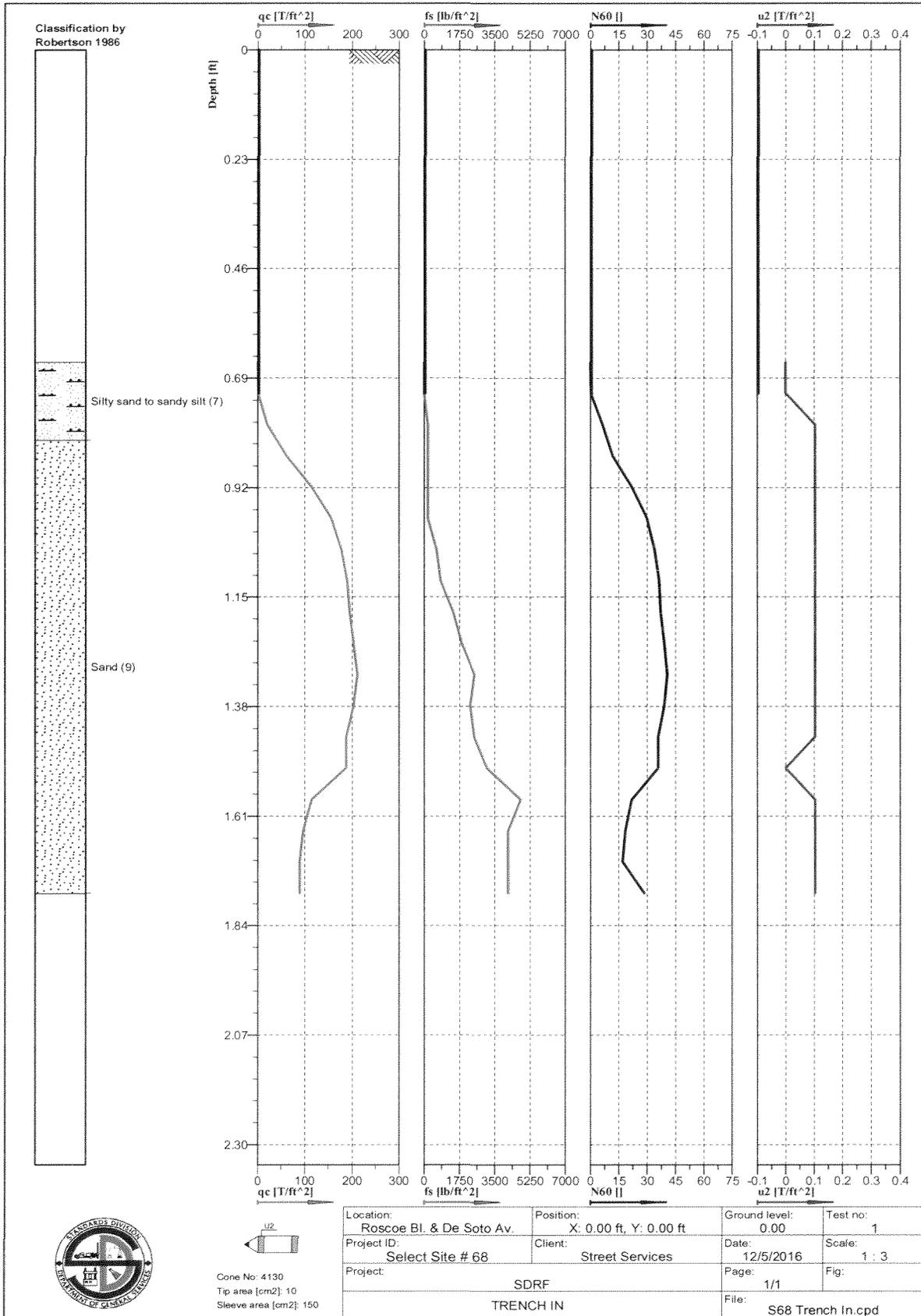
Lab No.: 17-741-227

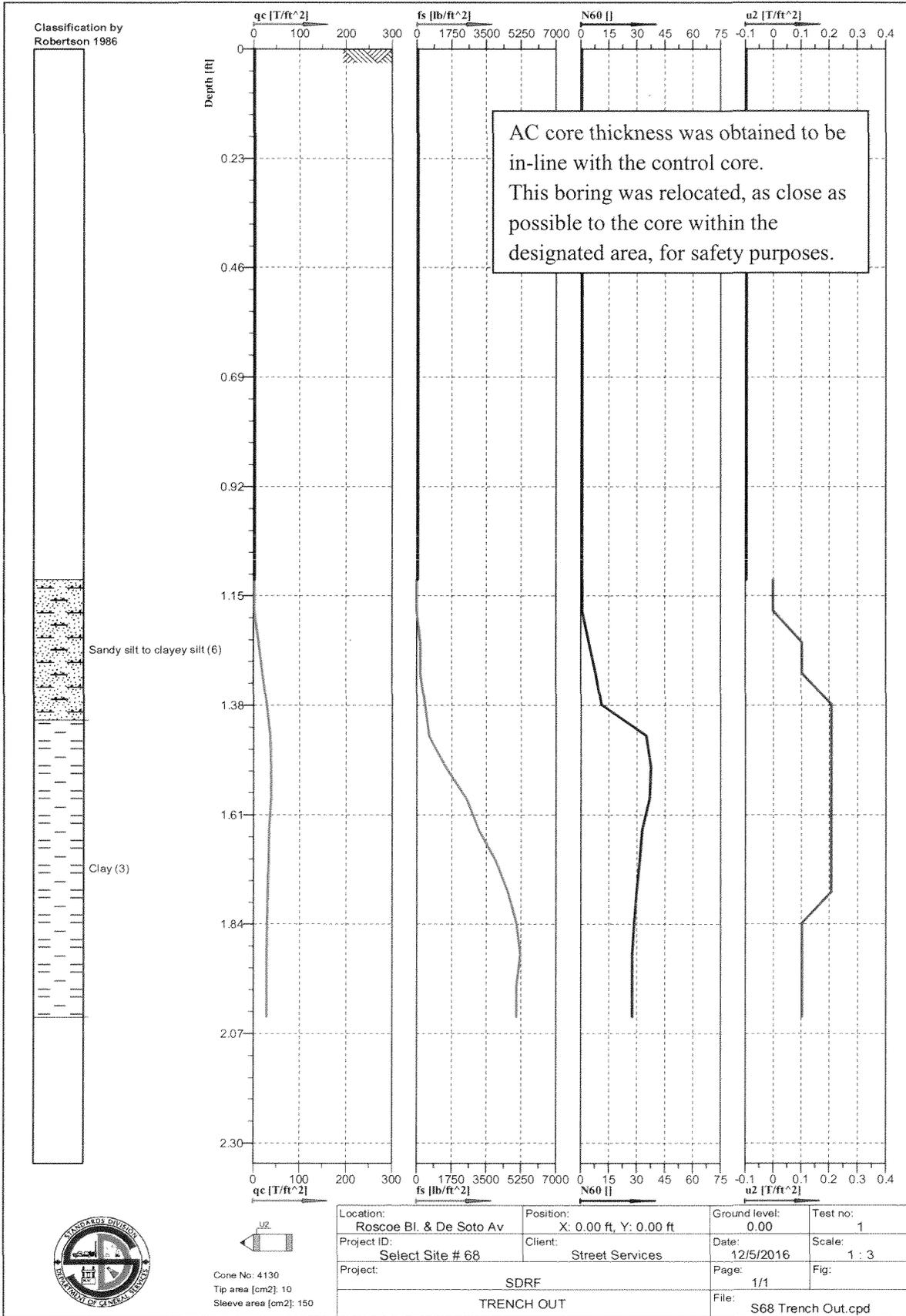


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150



Lab No.: 17-741-229

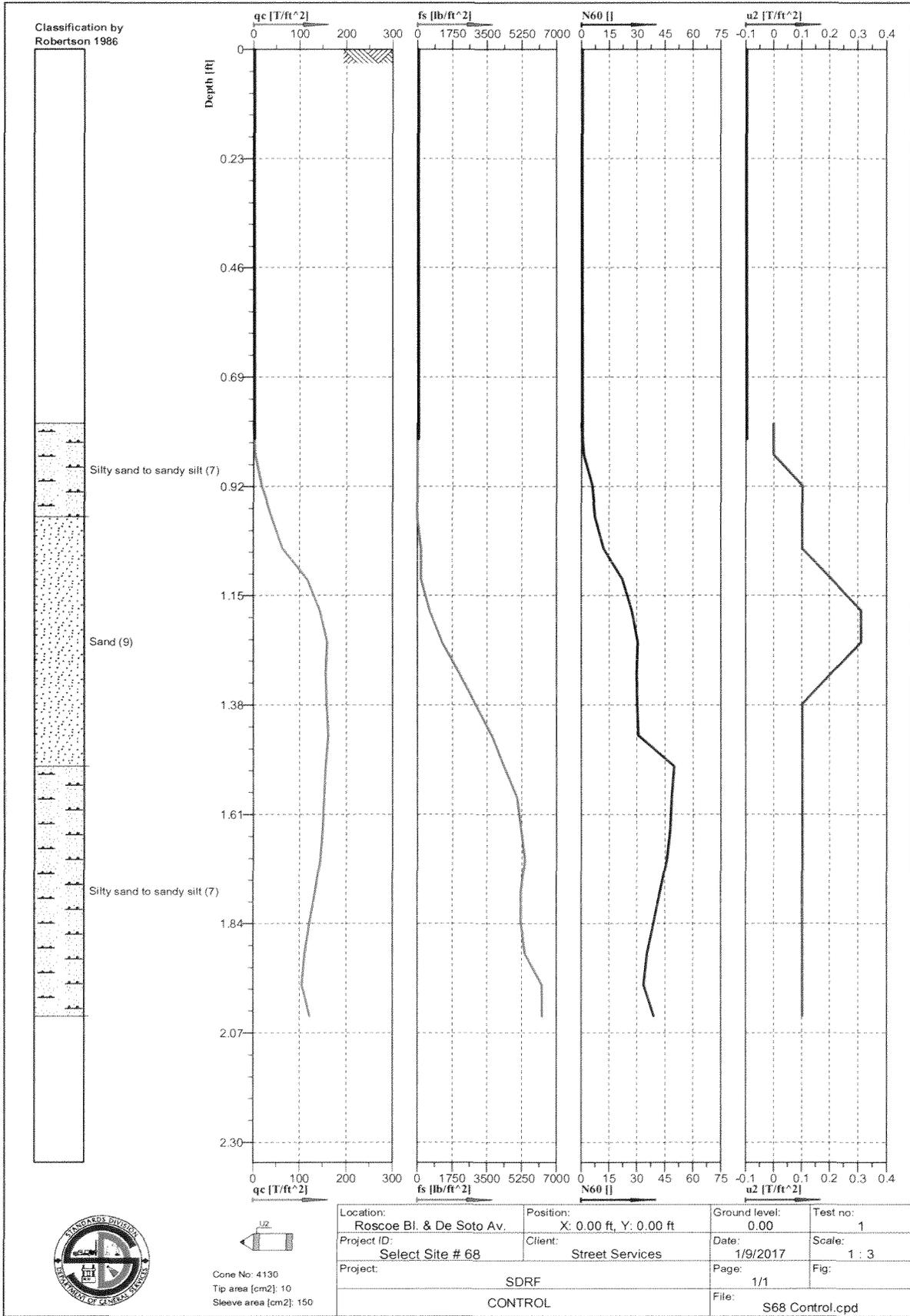




Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: Roscoe Bl. & De Soto Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 68	Client: Street Services	Date: 12/5/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH OUT		File: S68 Trench Out.cpd	

Lab No.: 17-741-231



U2
 Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: Roscoe Bl. & De Soto Av.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 68	Client: Street Services	Date: 1/9/2017	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: CONTROL
File: S68 Control.cpd			

Lab No.: 17-741-232

Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

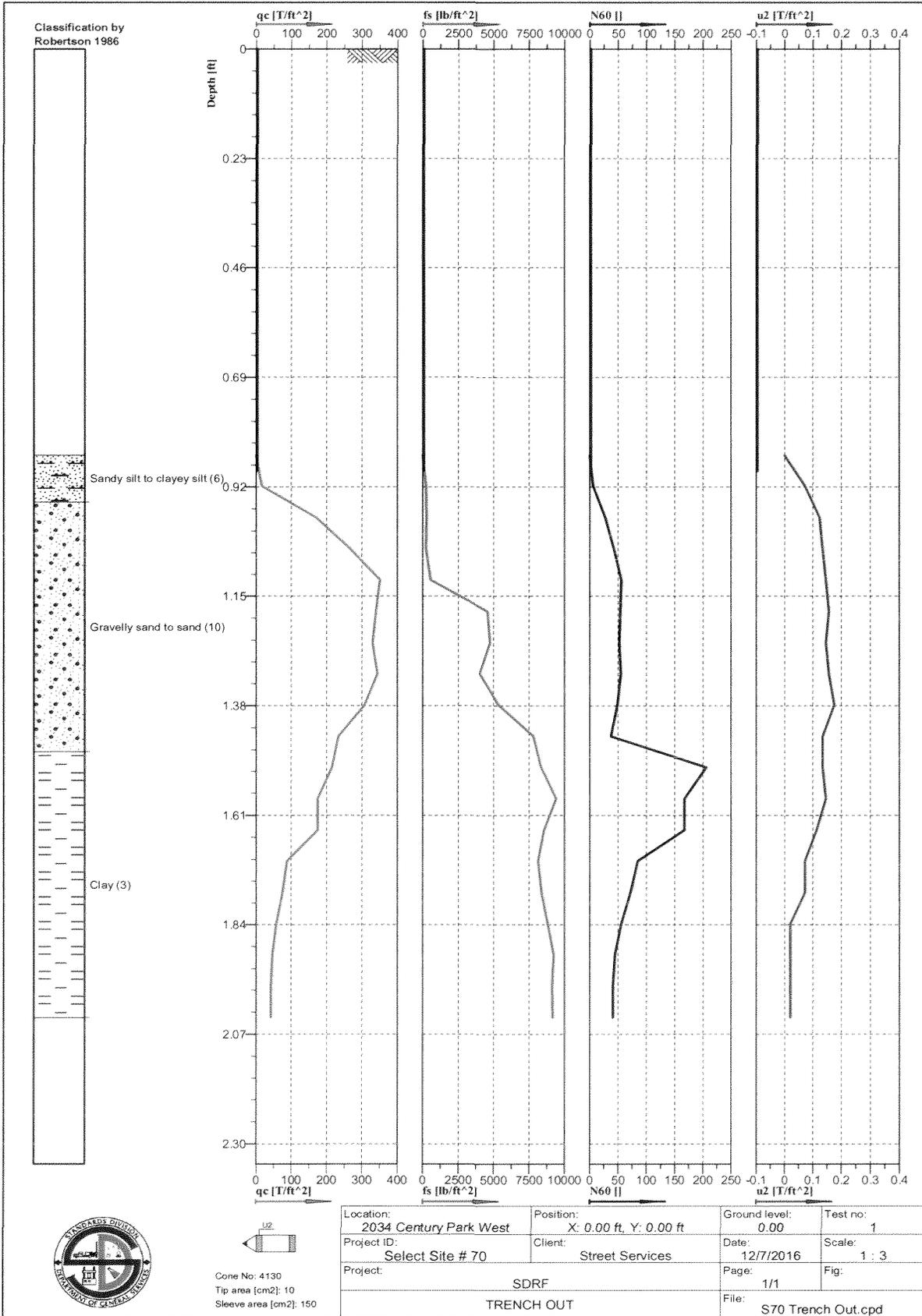
Asphalt thickness = 11.5”.



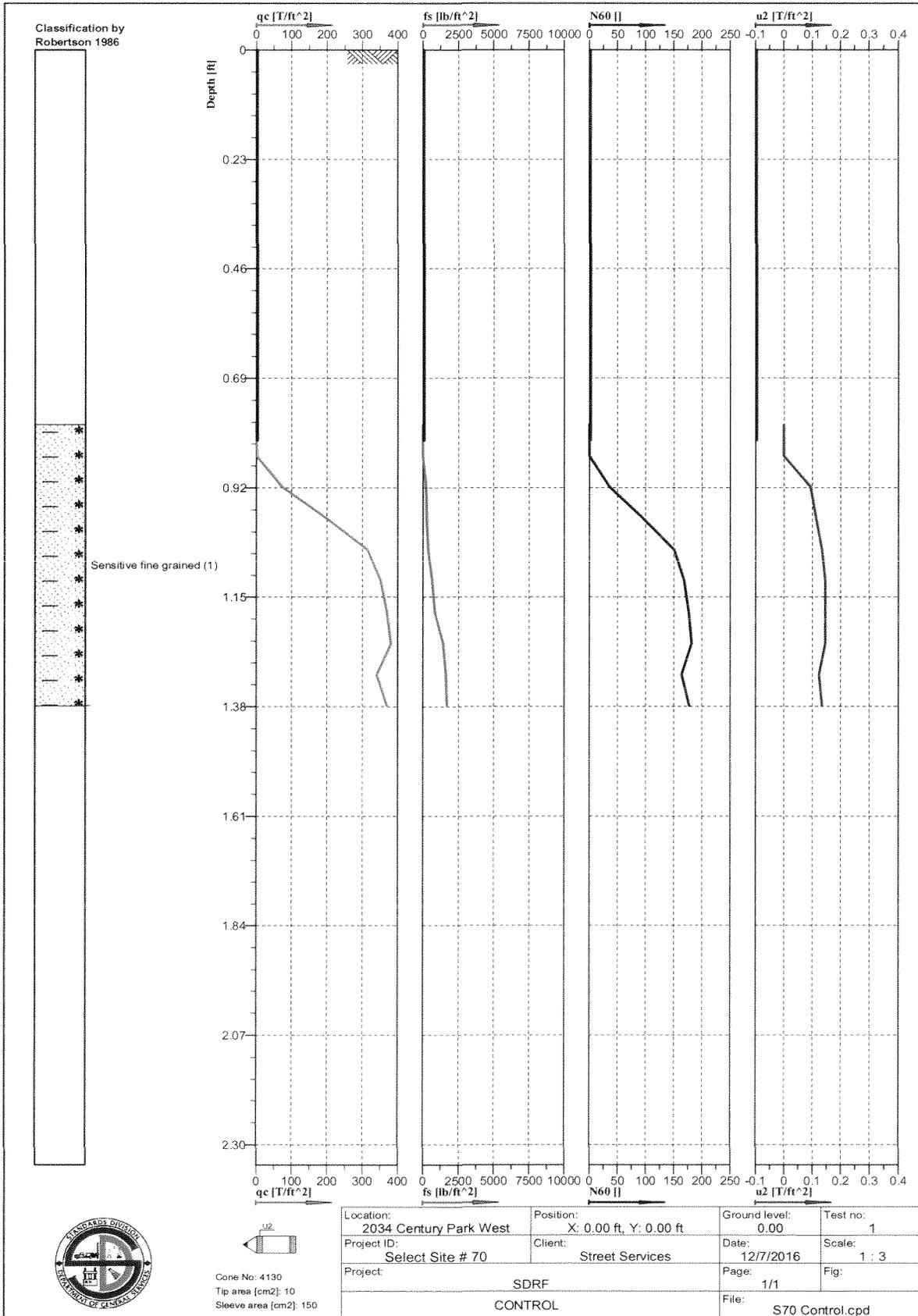
Cone No: 4130
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: 2034 Century Park West	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 70	Client: Street Services	Date: 12/7/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S70 Trench In.cpd	

Lab No.: 17-741-233



Lab No.: 17-741-234



Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

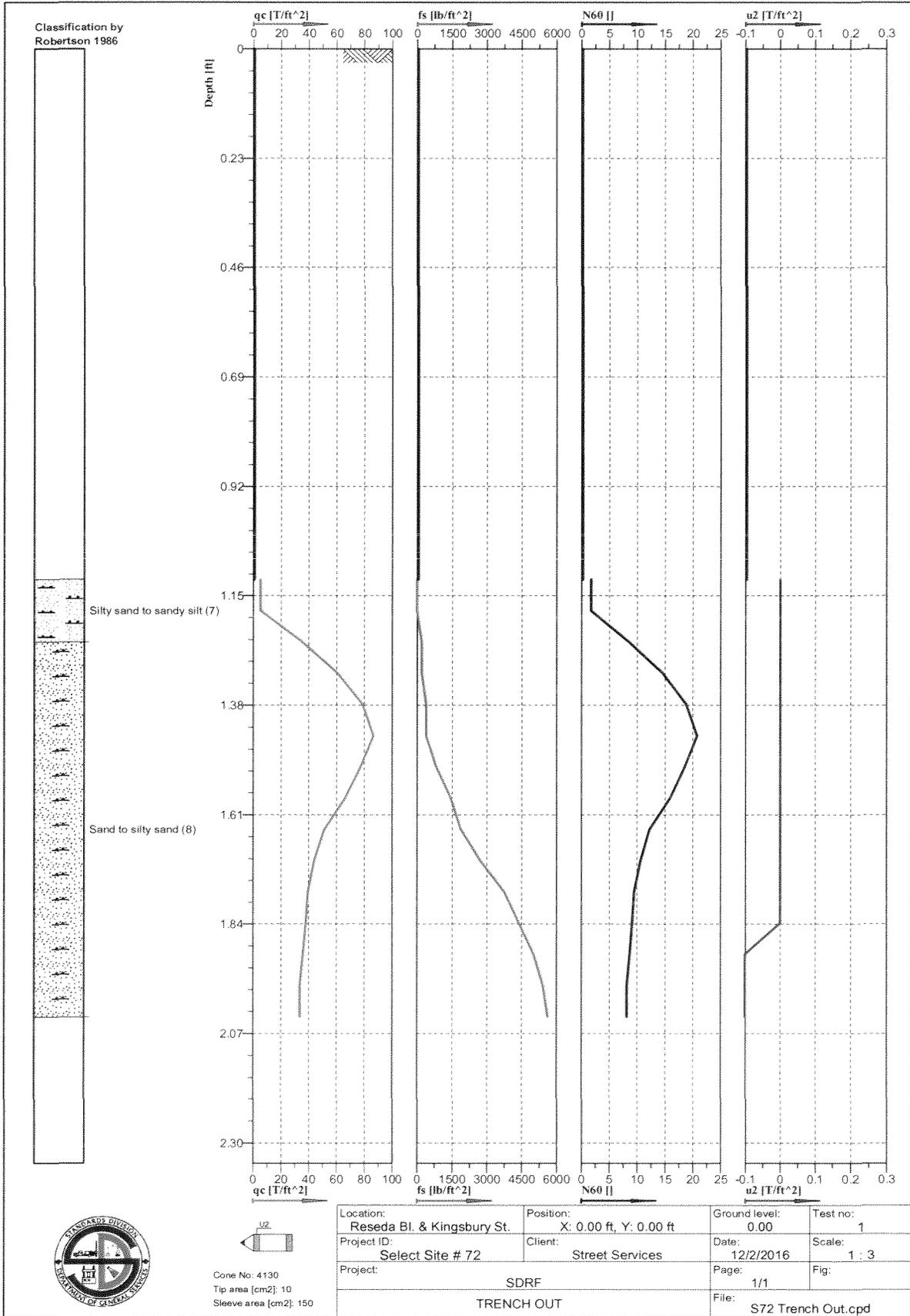
Asphalt thickness = 7.5”.



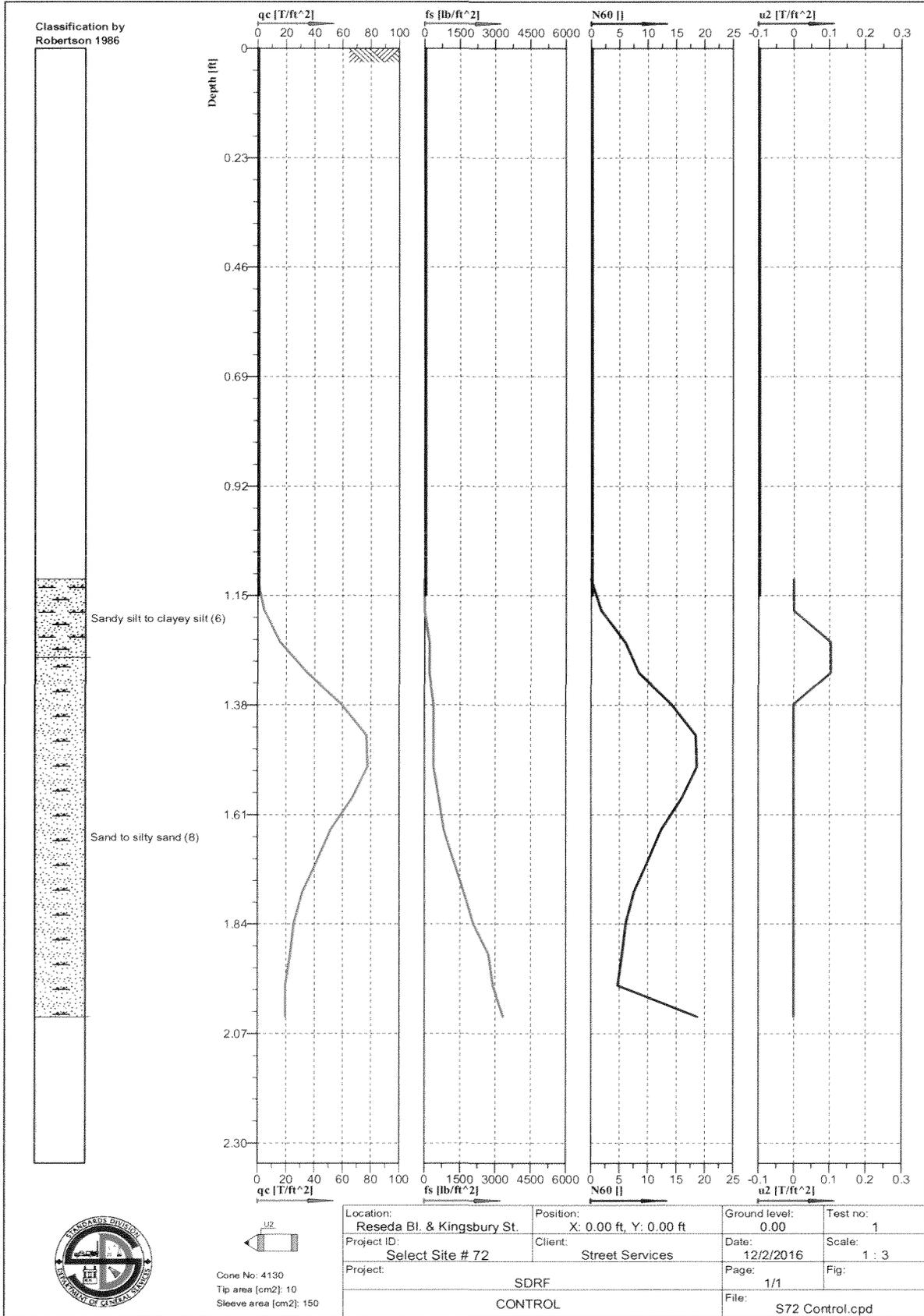
Cone No: 4130
 Tip area [cm2]: 10
 Sleeve area [cm2]: 150

Location: Reseda Bl & Kingsbury St	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 72	Client: Streett Services	Date: 12/2/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S72 Trench In.cpt	

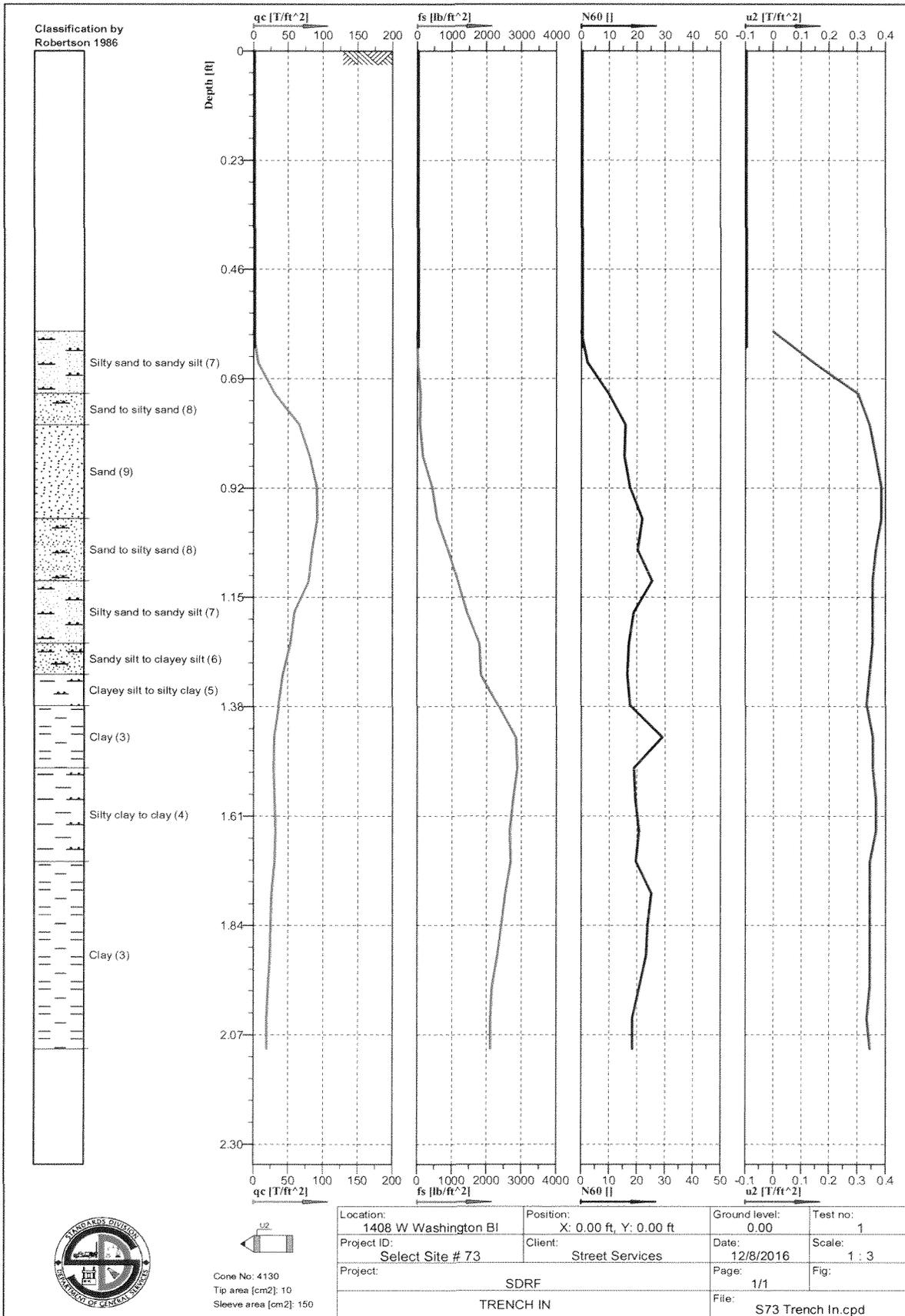
Lab No.: 17-741-236



Lab No.: 17-741-237



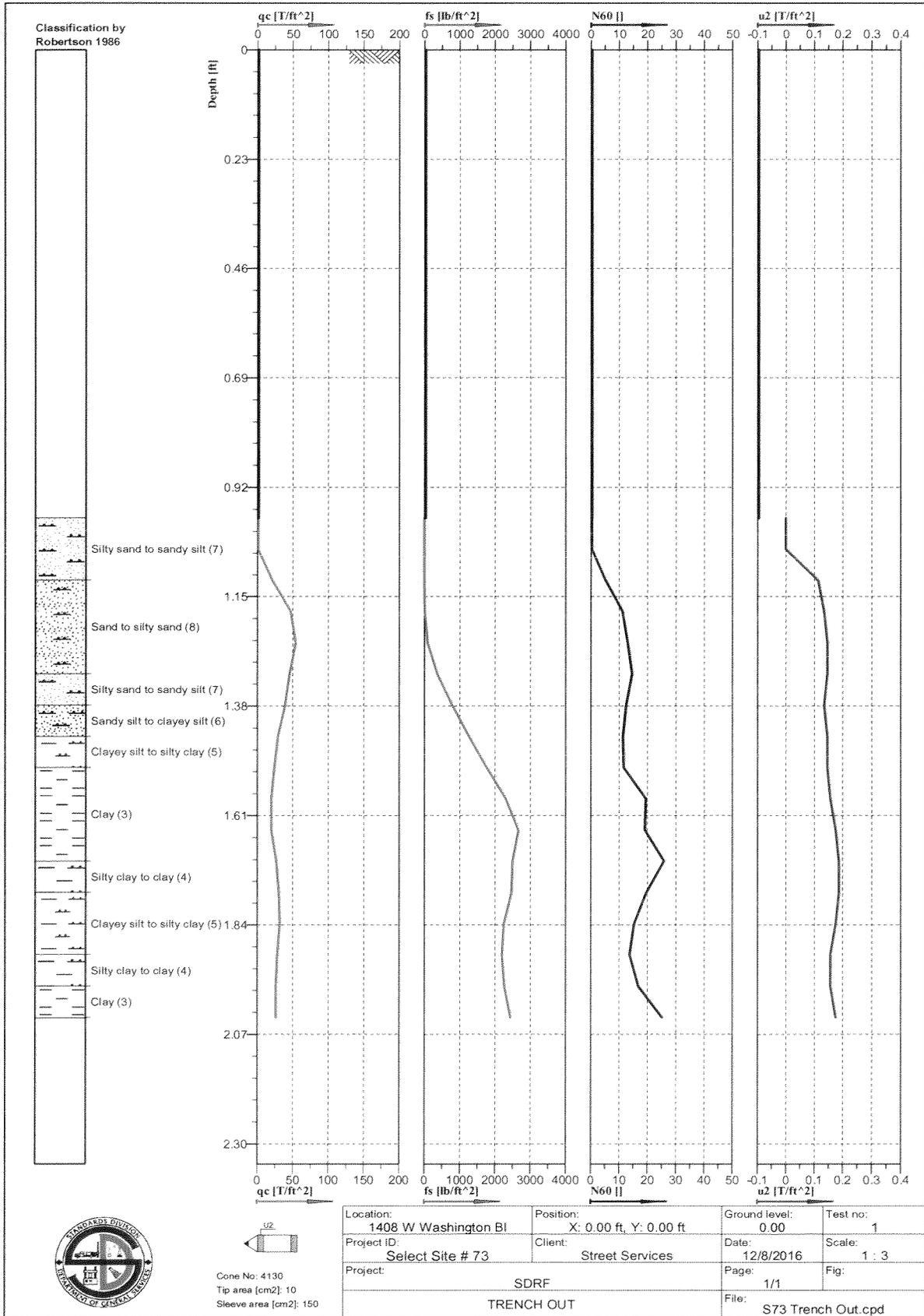
Lab No.: 17-741-238



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 1408 W Washington Bl	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 73	Client: Street Services	Date: 12/8/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1
TRENCH IN		File: S73 Trench In.cpd	

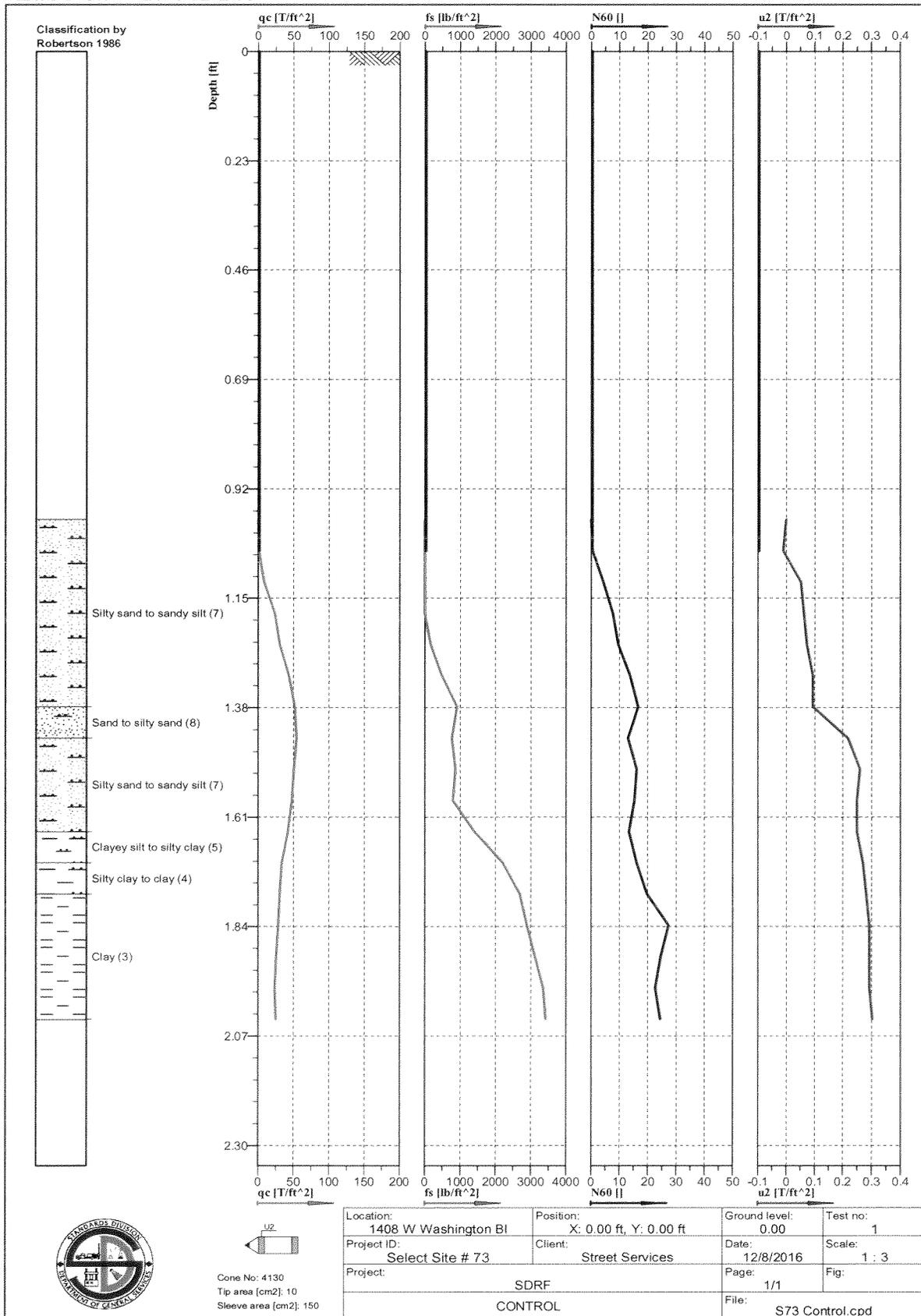
Lab No.: 17-741-239



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

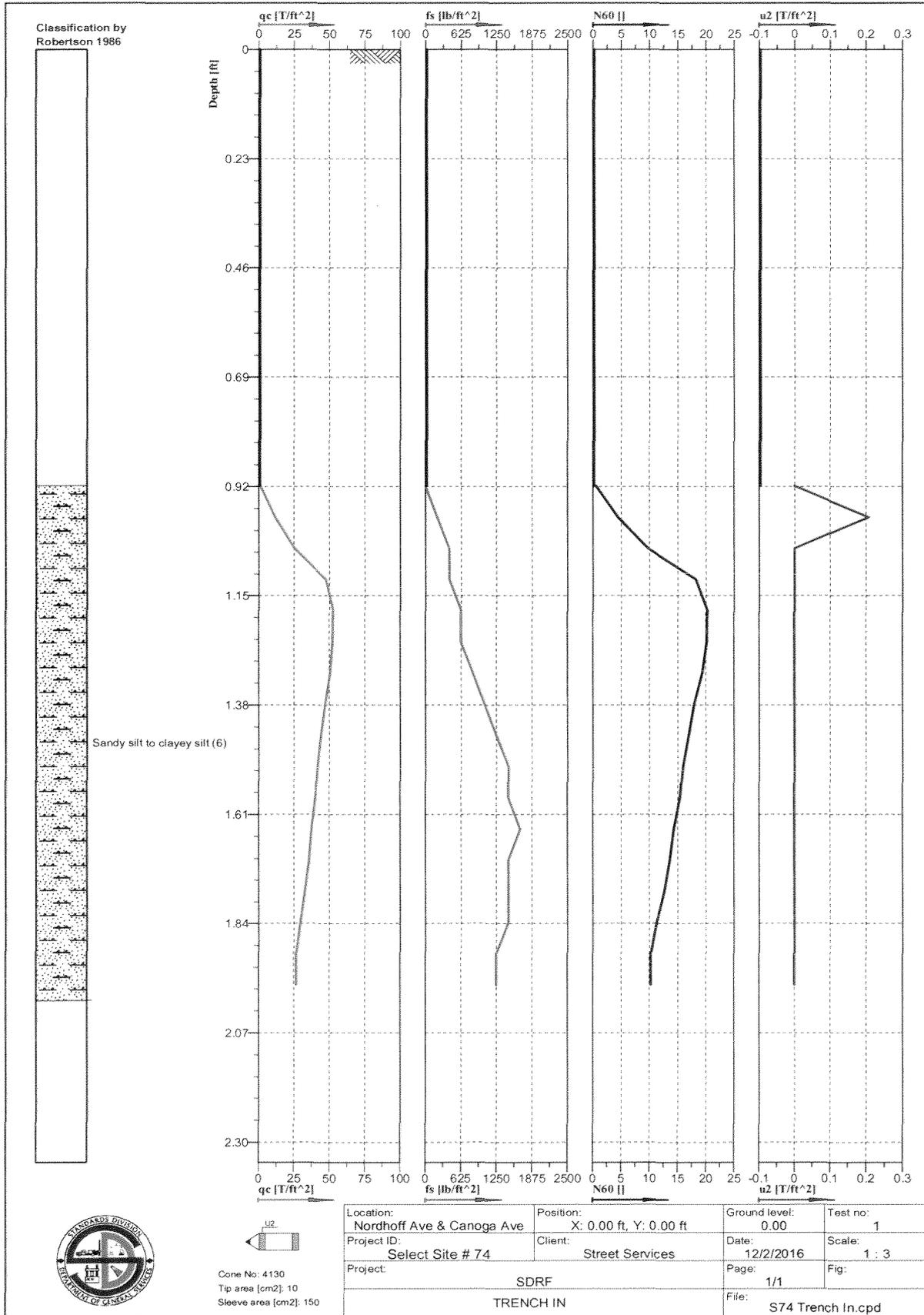
Location: 1408 W Washington Bl	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 73	Client: Street Services	Date: 12/8/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1
TRENCH OUT		File: S73 Trench Out.cpd	

Lab No.: 17-741-240

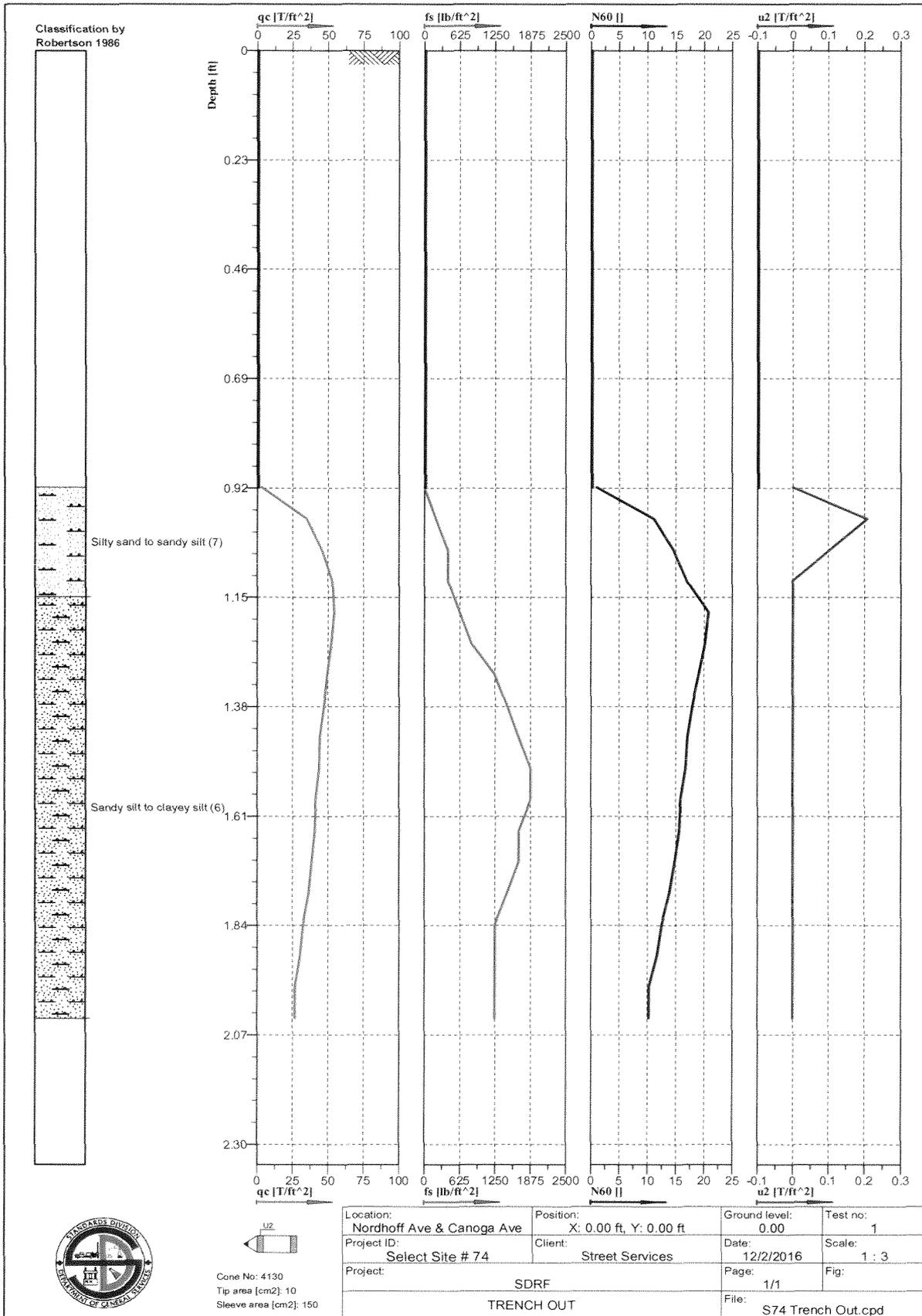


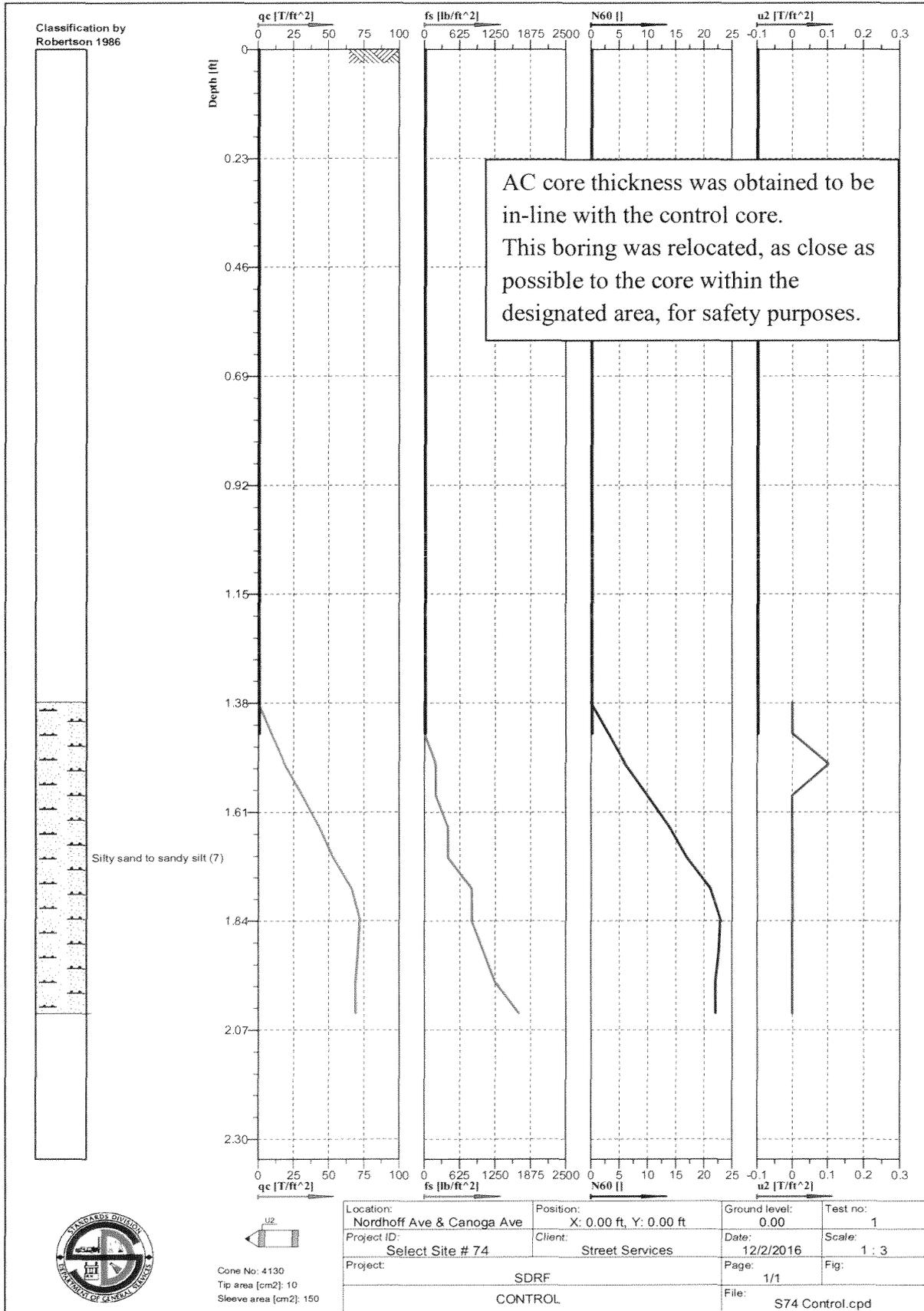
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Lab No.: 17-741-241

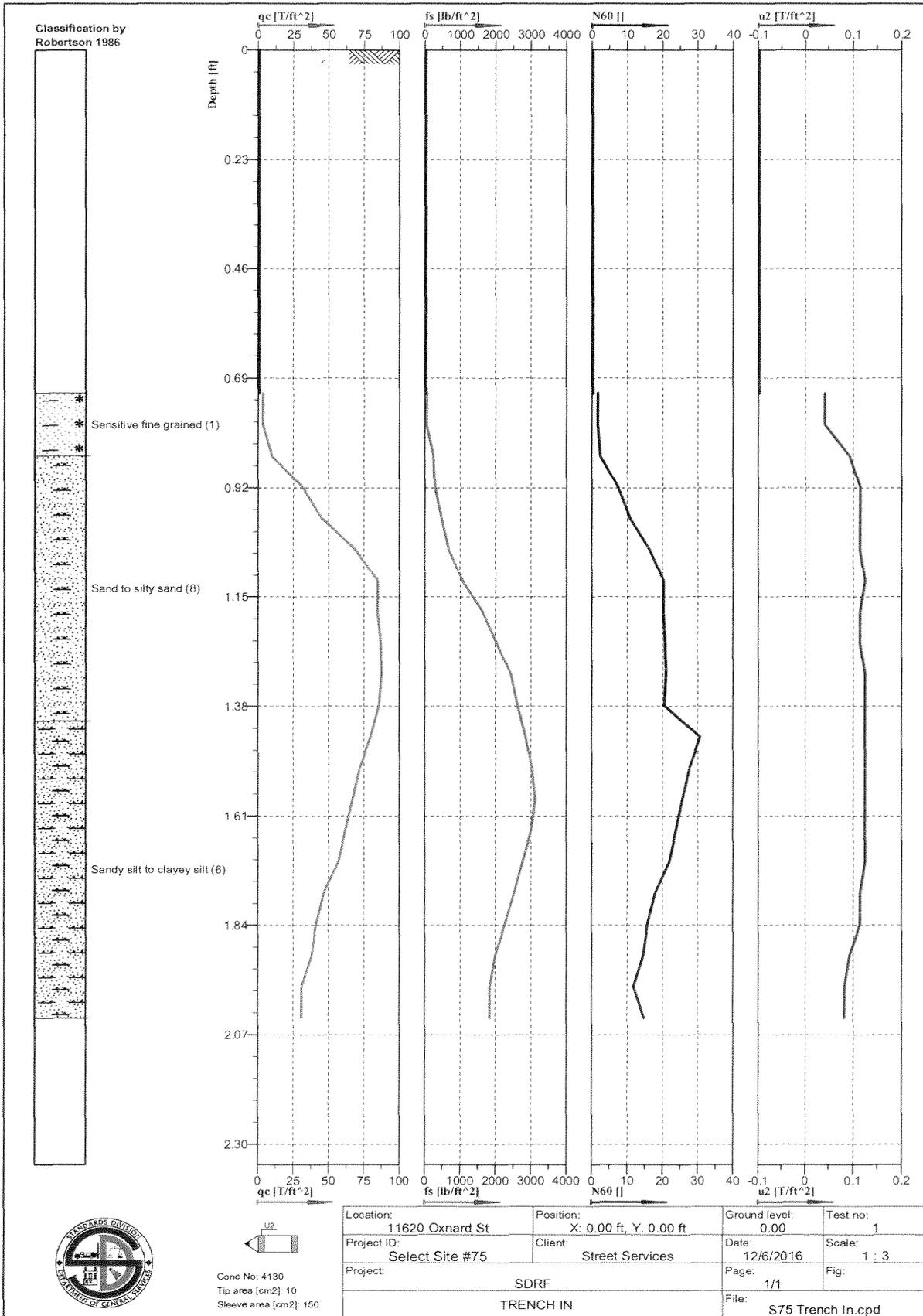


Lab No.: 17-741-242

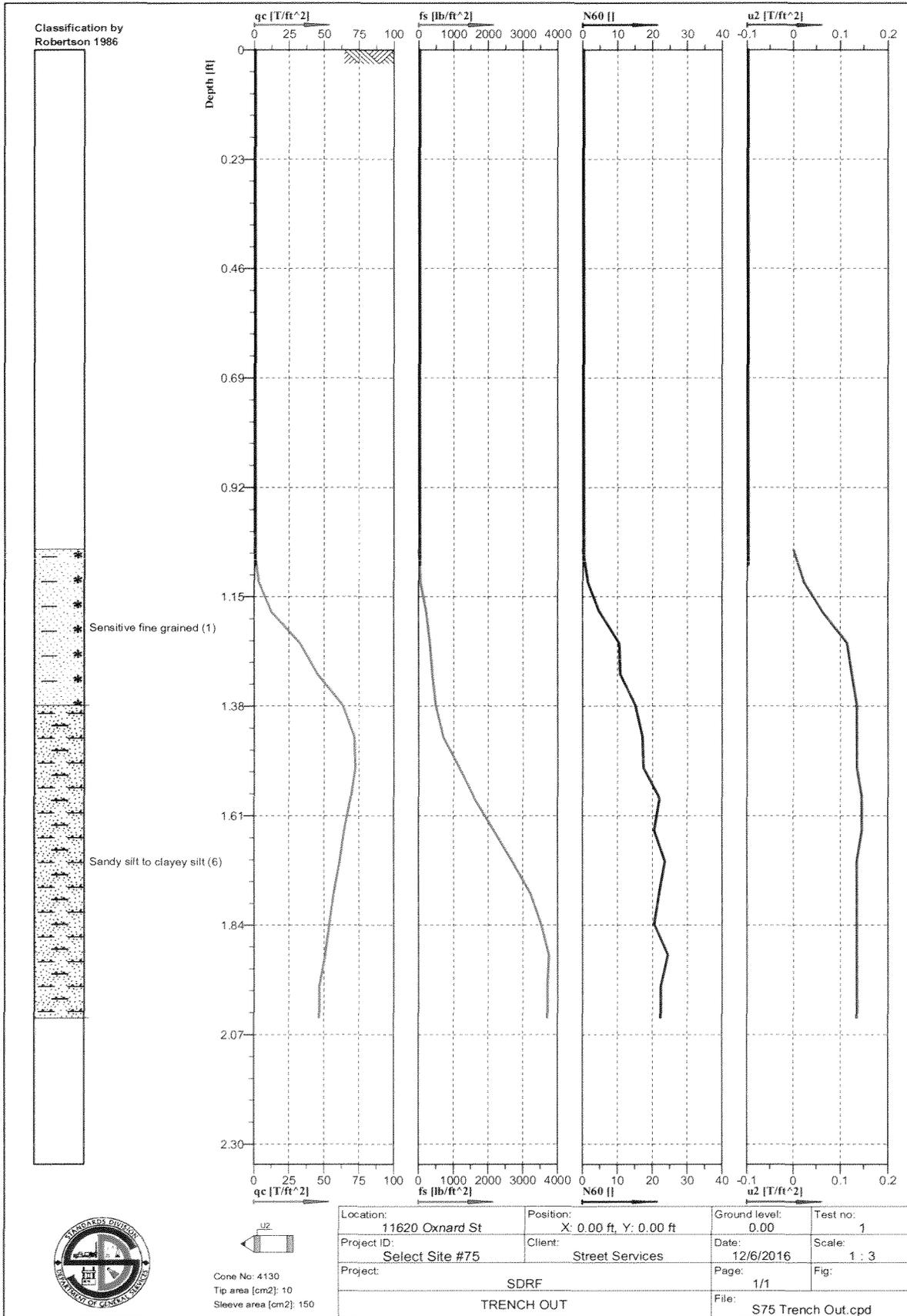




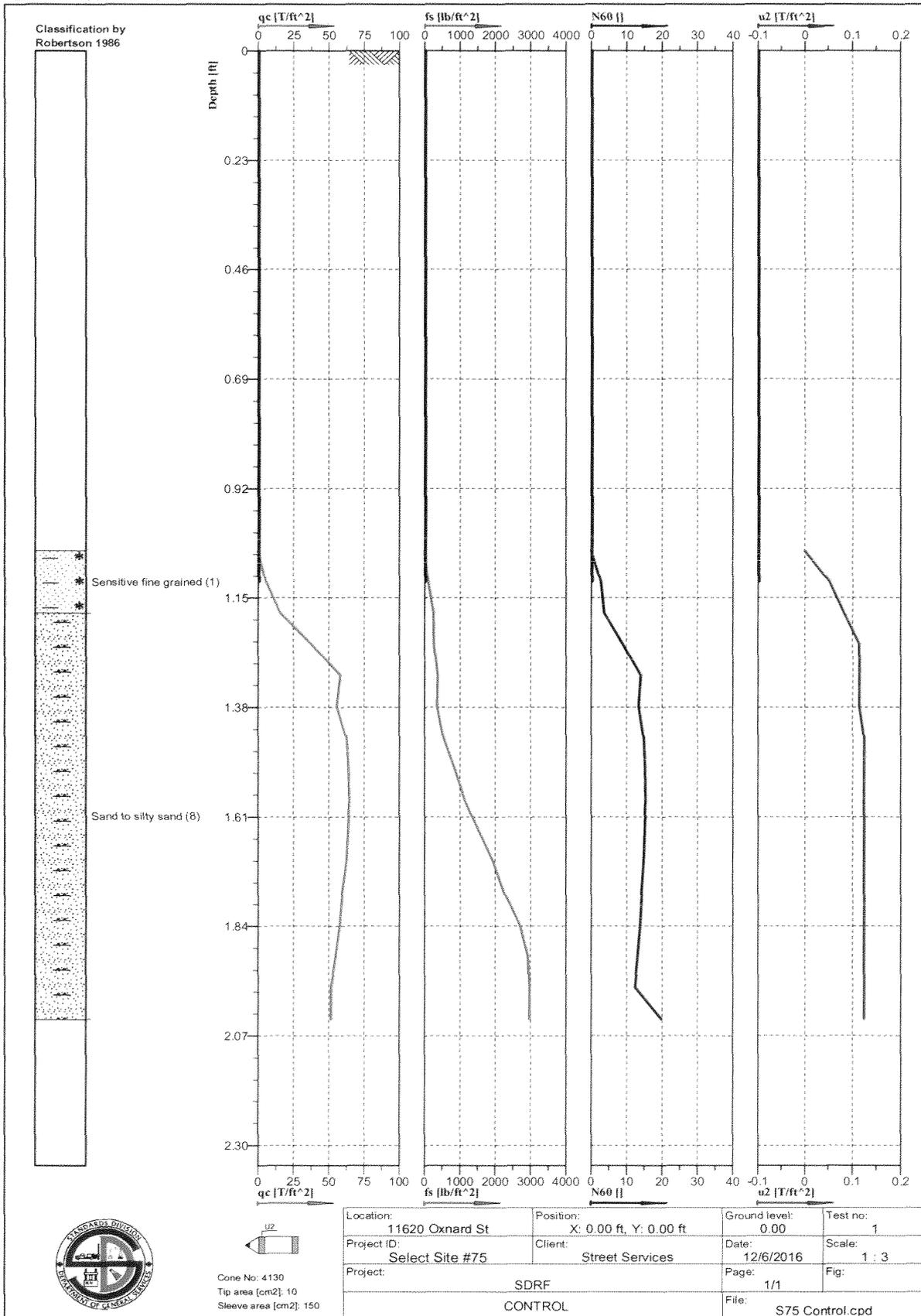
Lab No.: 17-741-244



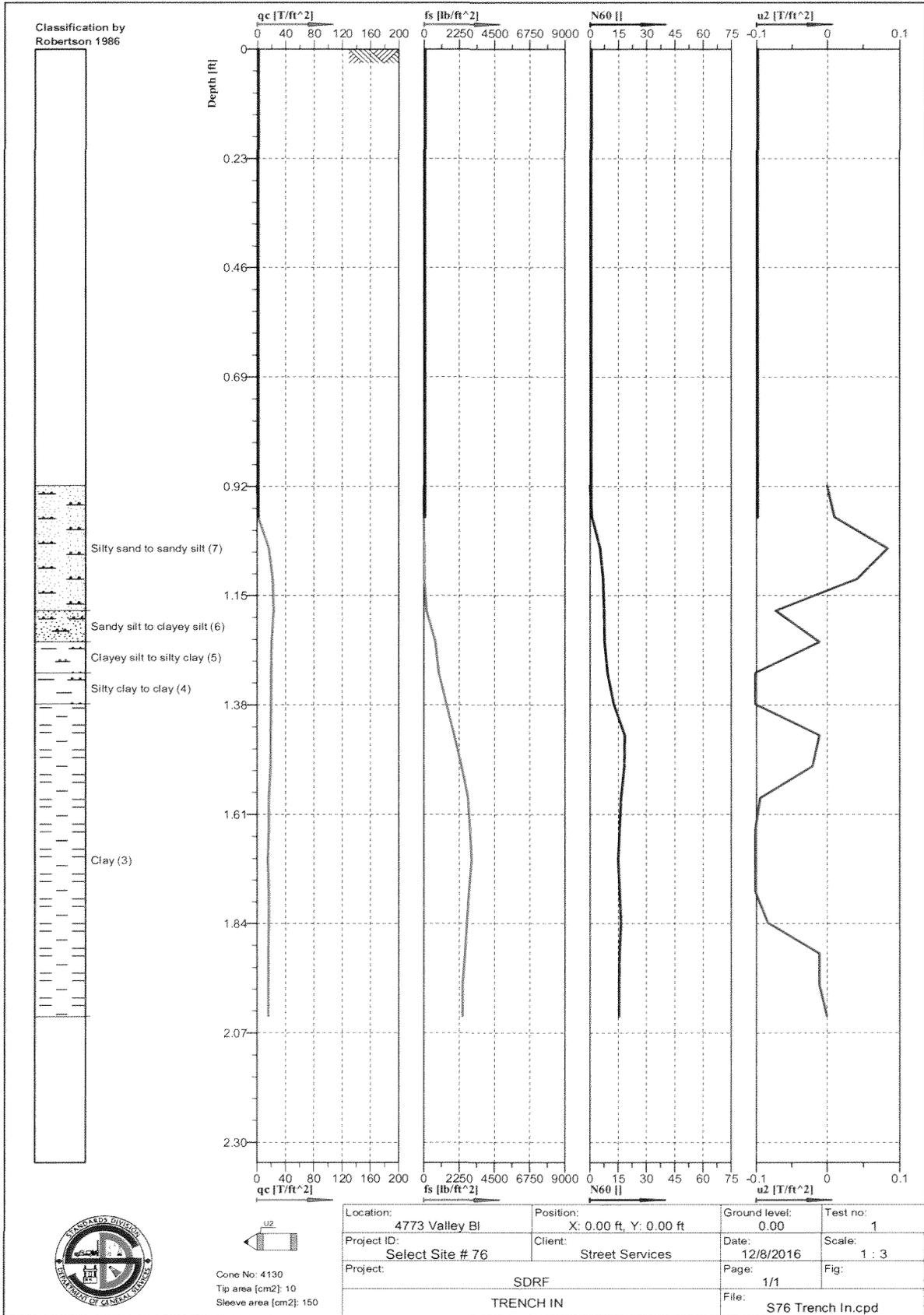
Lab No.: 17-741-245



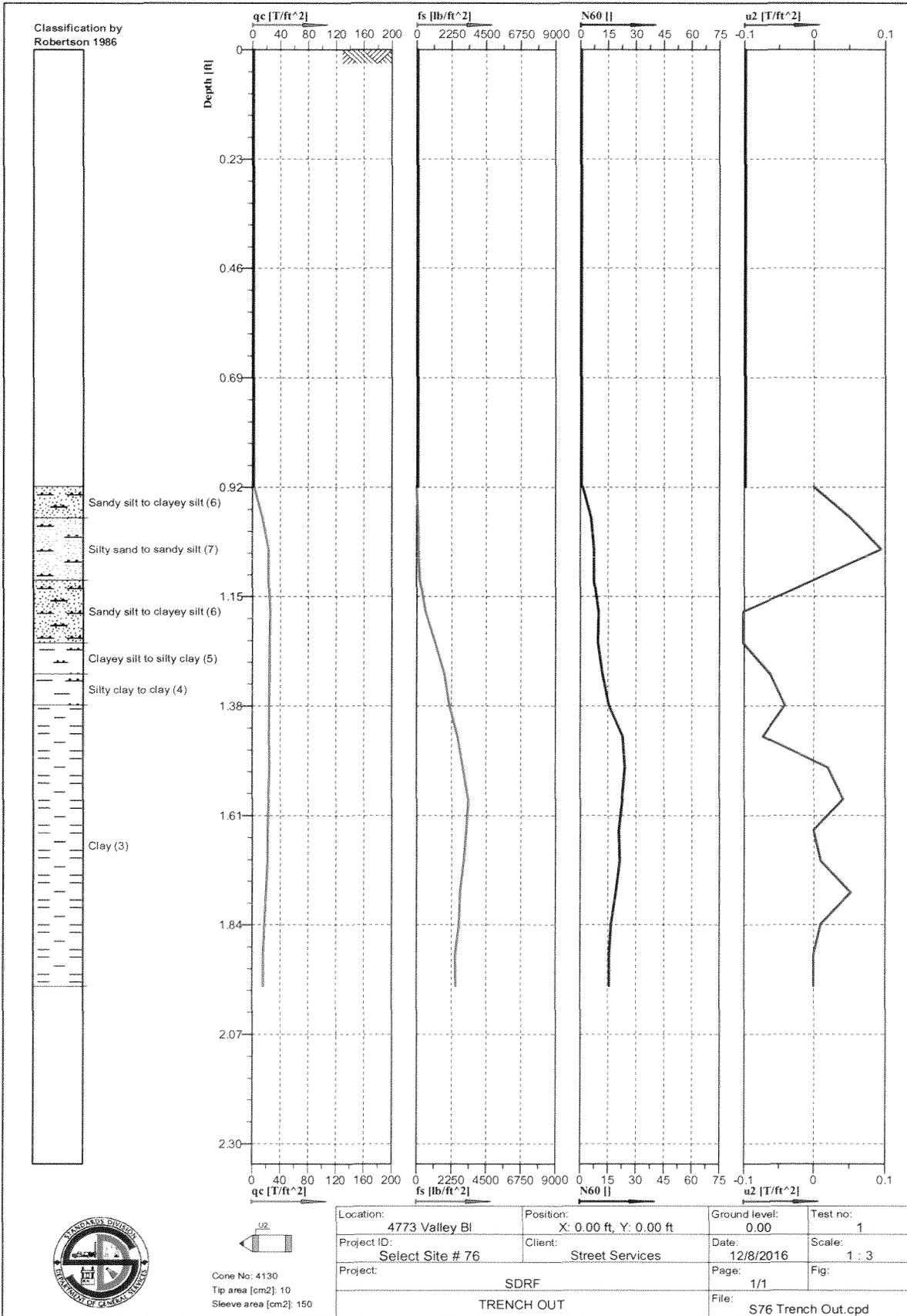
Lab No.: 17-741-246



Lab No.: 17-741-247

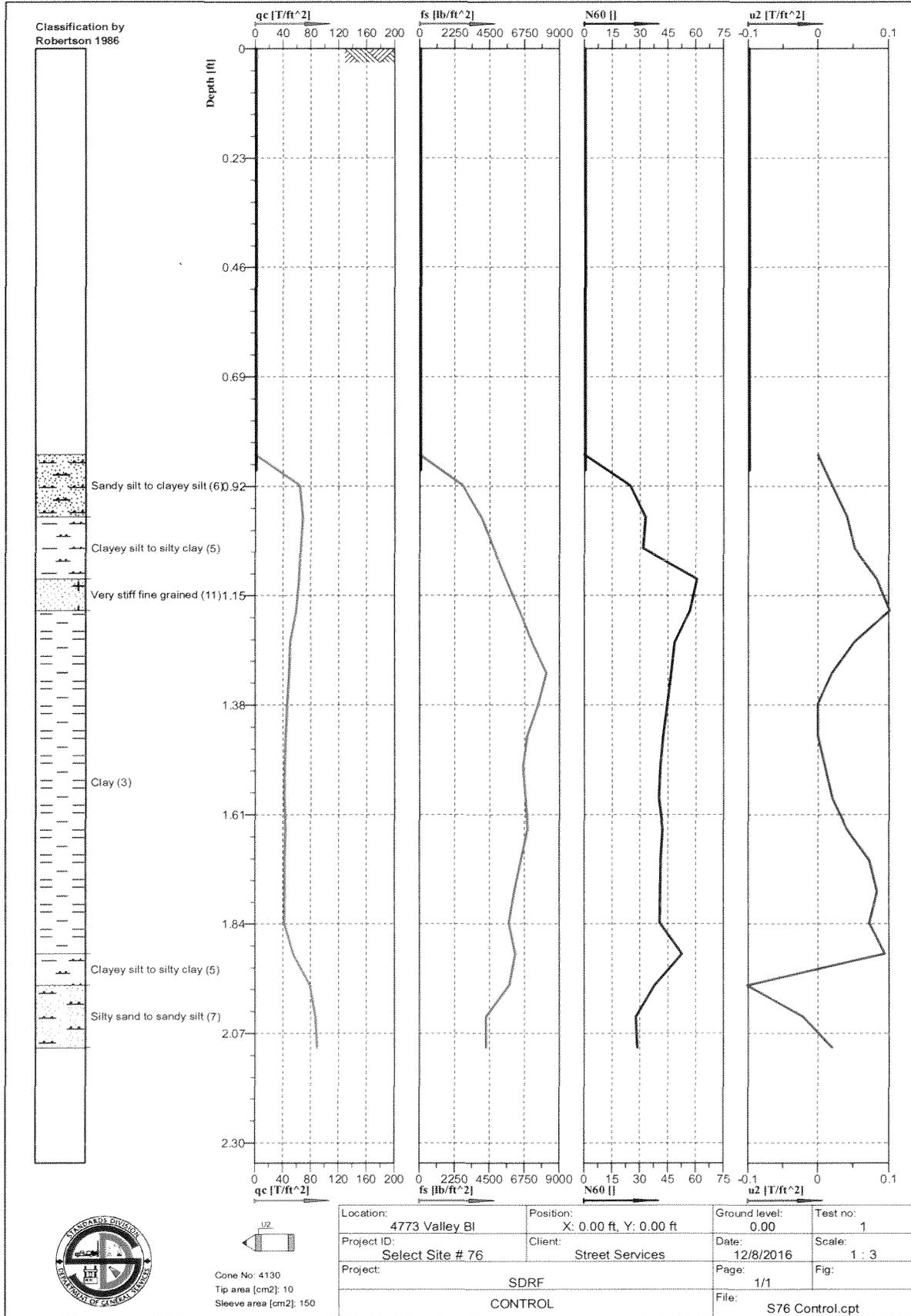


Lab No.: 17-741-248



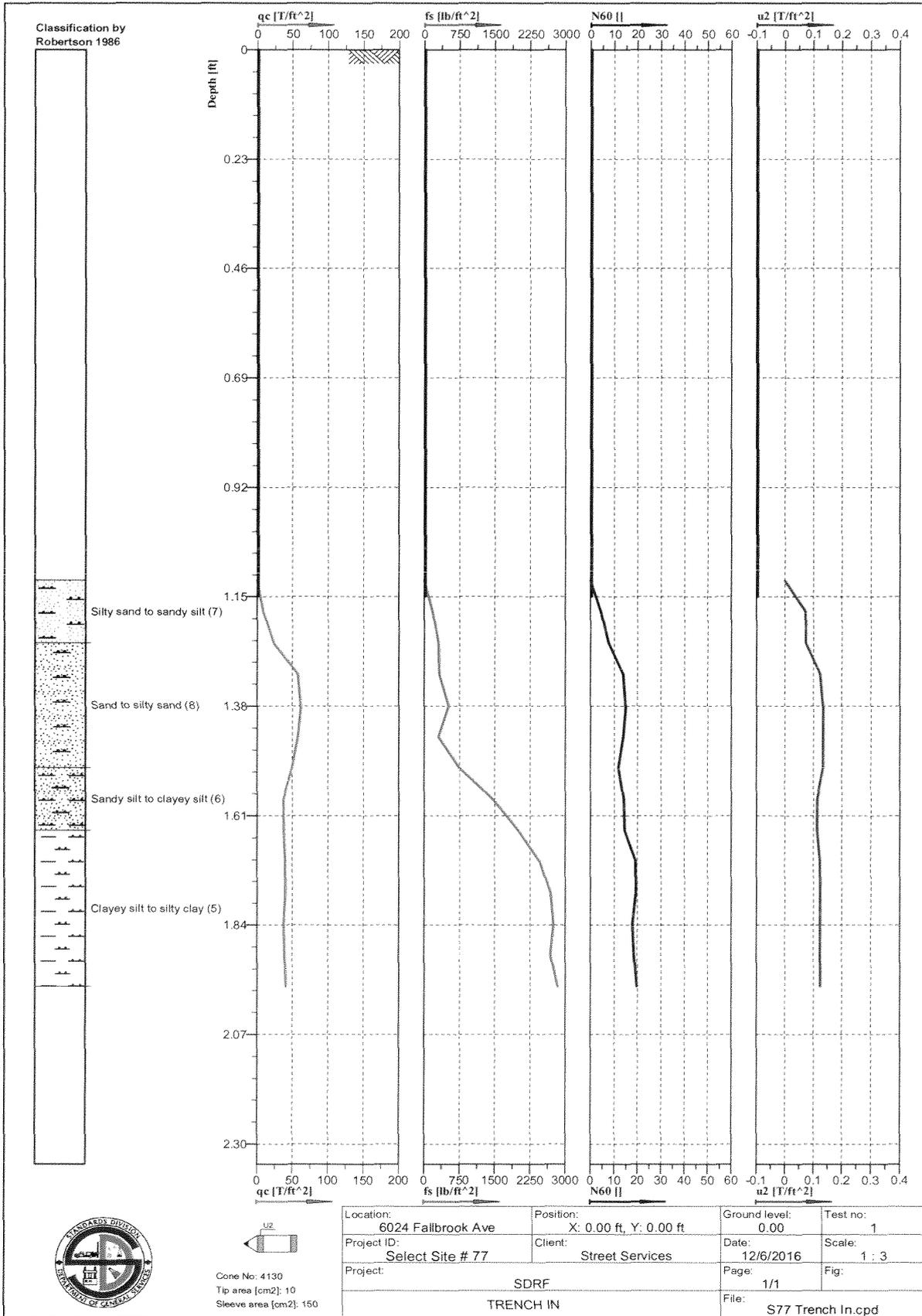
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Lab No.: 17-741-249

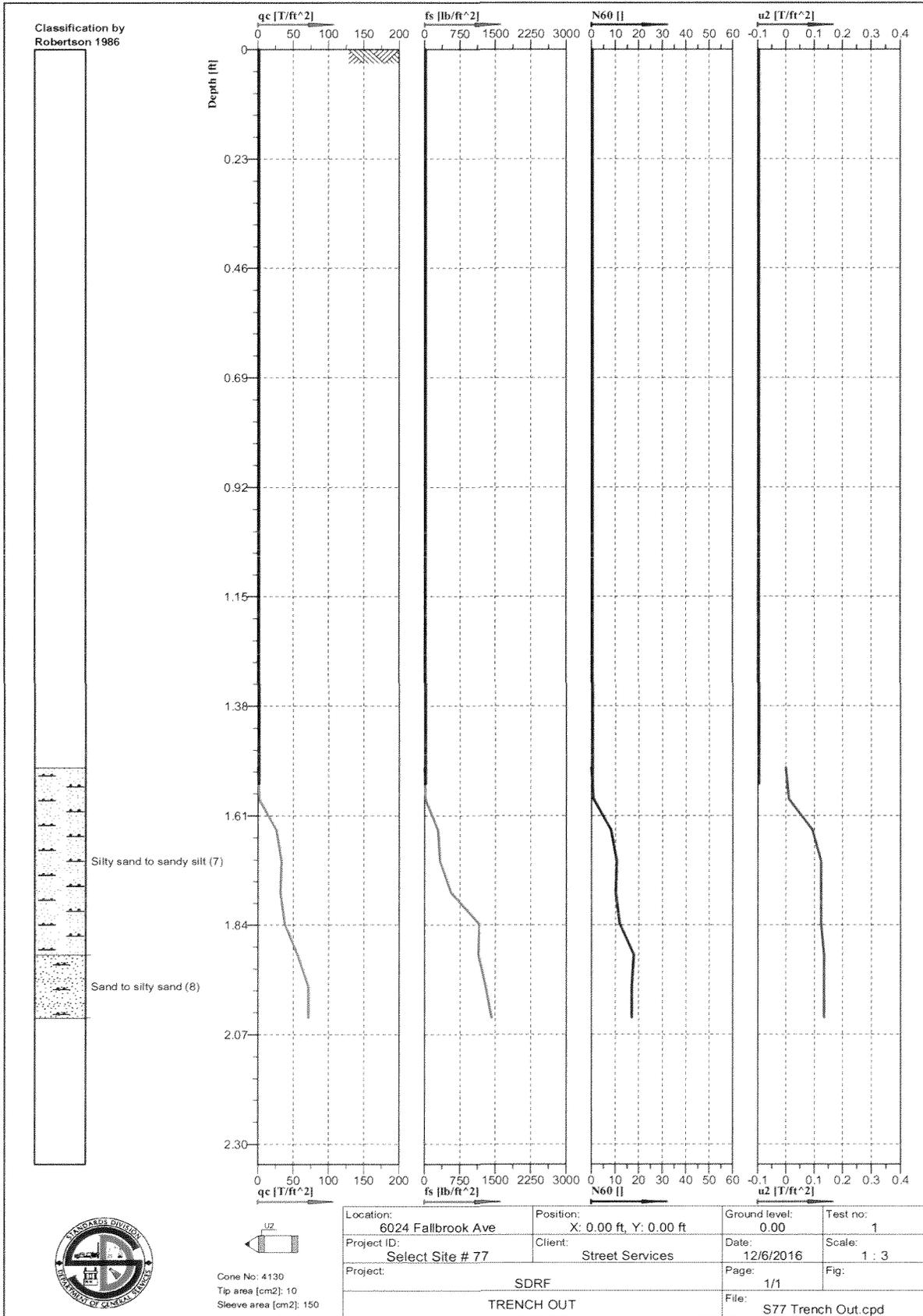


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

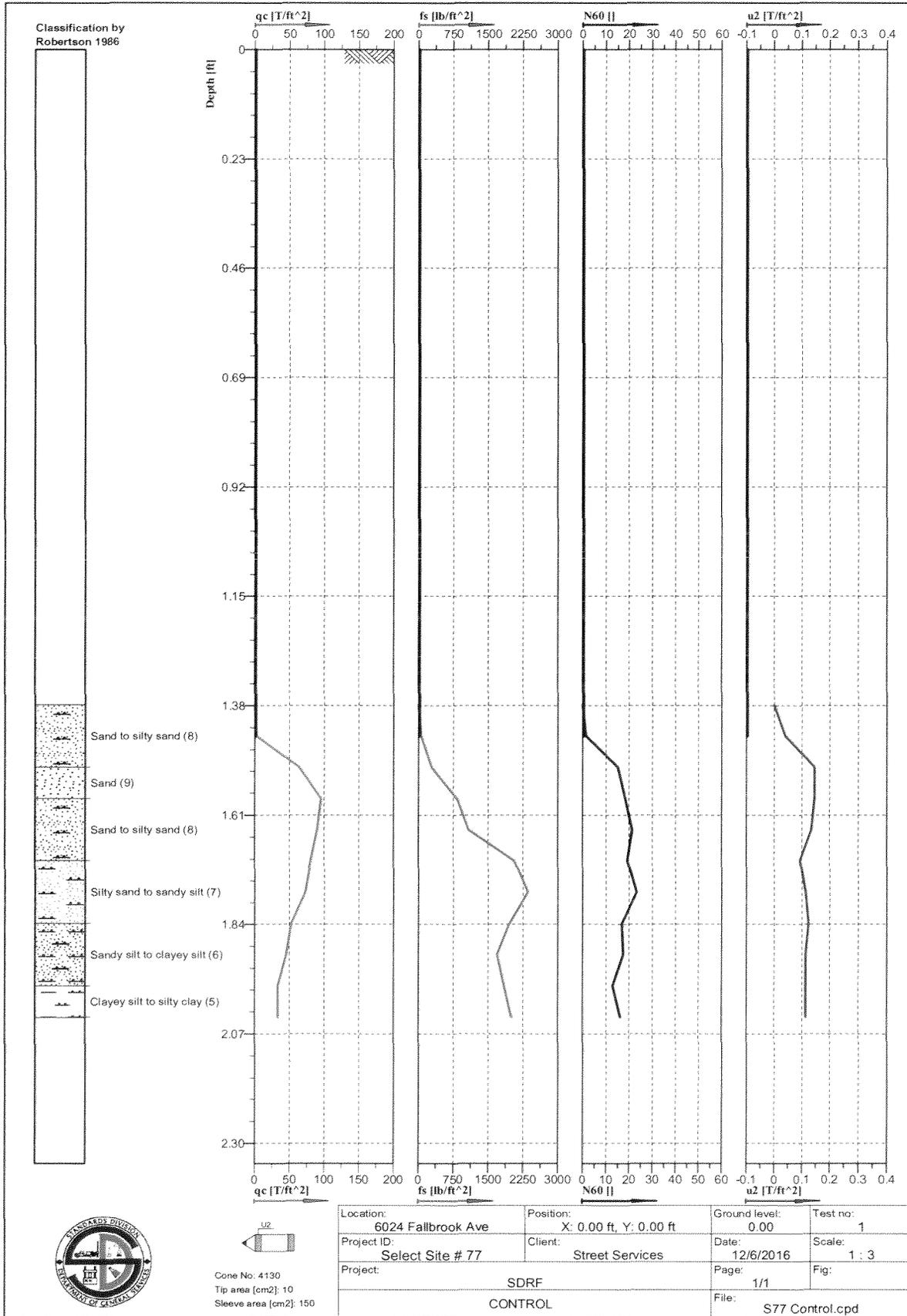
Lab No.: 17-741-250



Lab No.: 17-741-251



Lab No.: 17-741-252



Lab No.: 17-741-253

Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

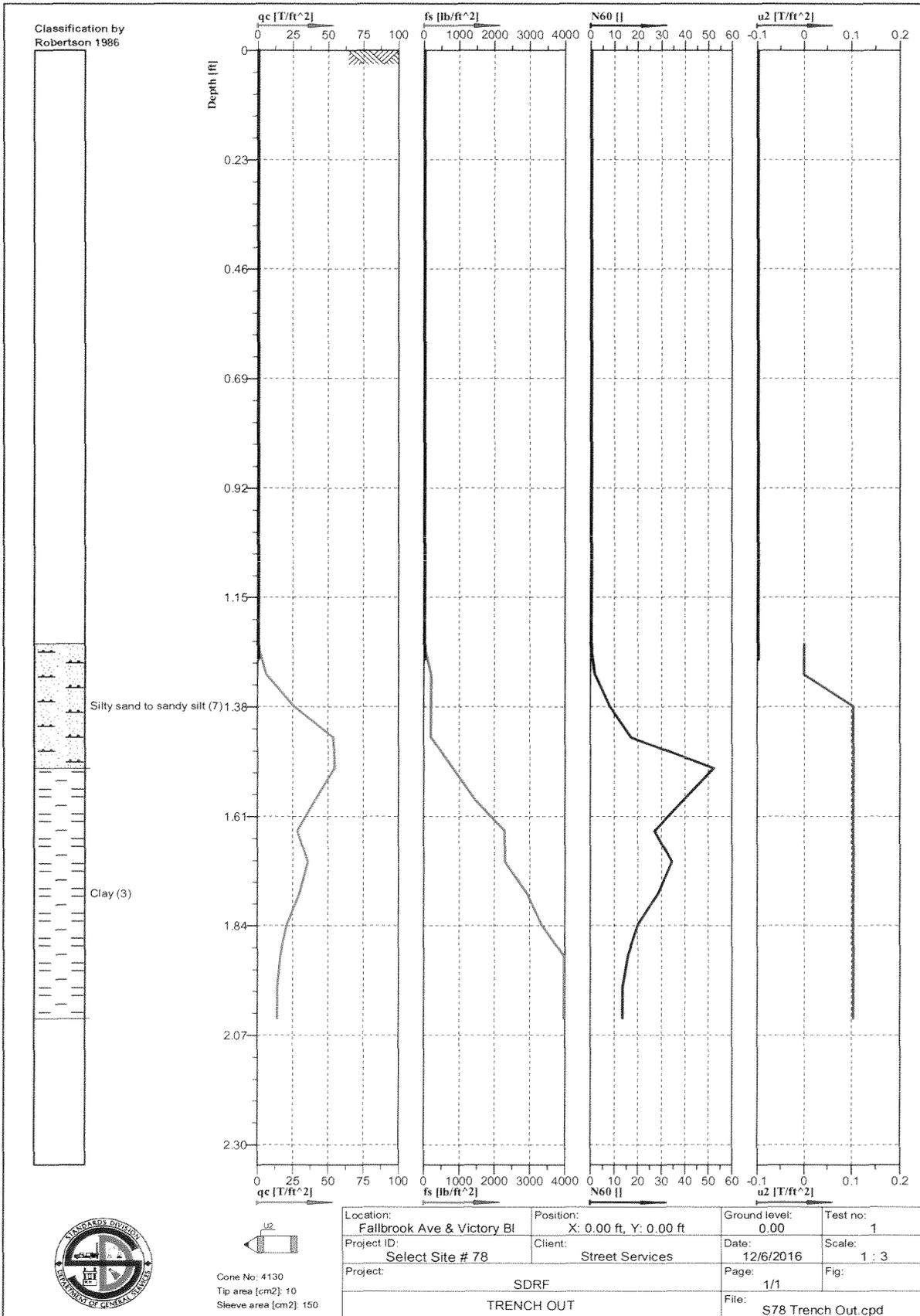
Asphalt thickness = 5.1”.



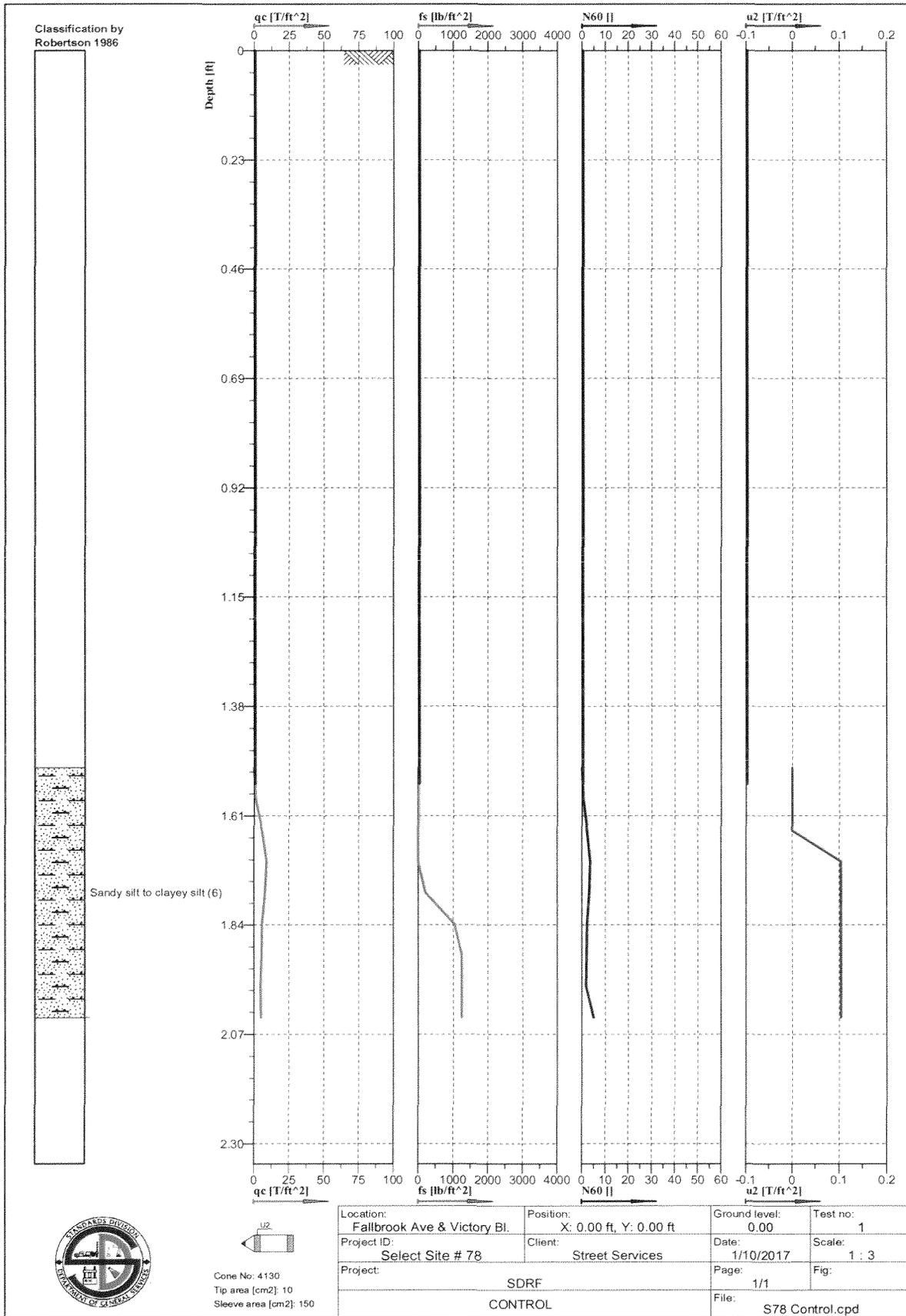
Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: Fallbrook Ave & Victory Bl.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 78	Client: Street Services	Date: 1/10/2017	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S78 Trench In.cpd	

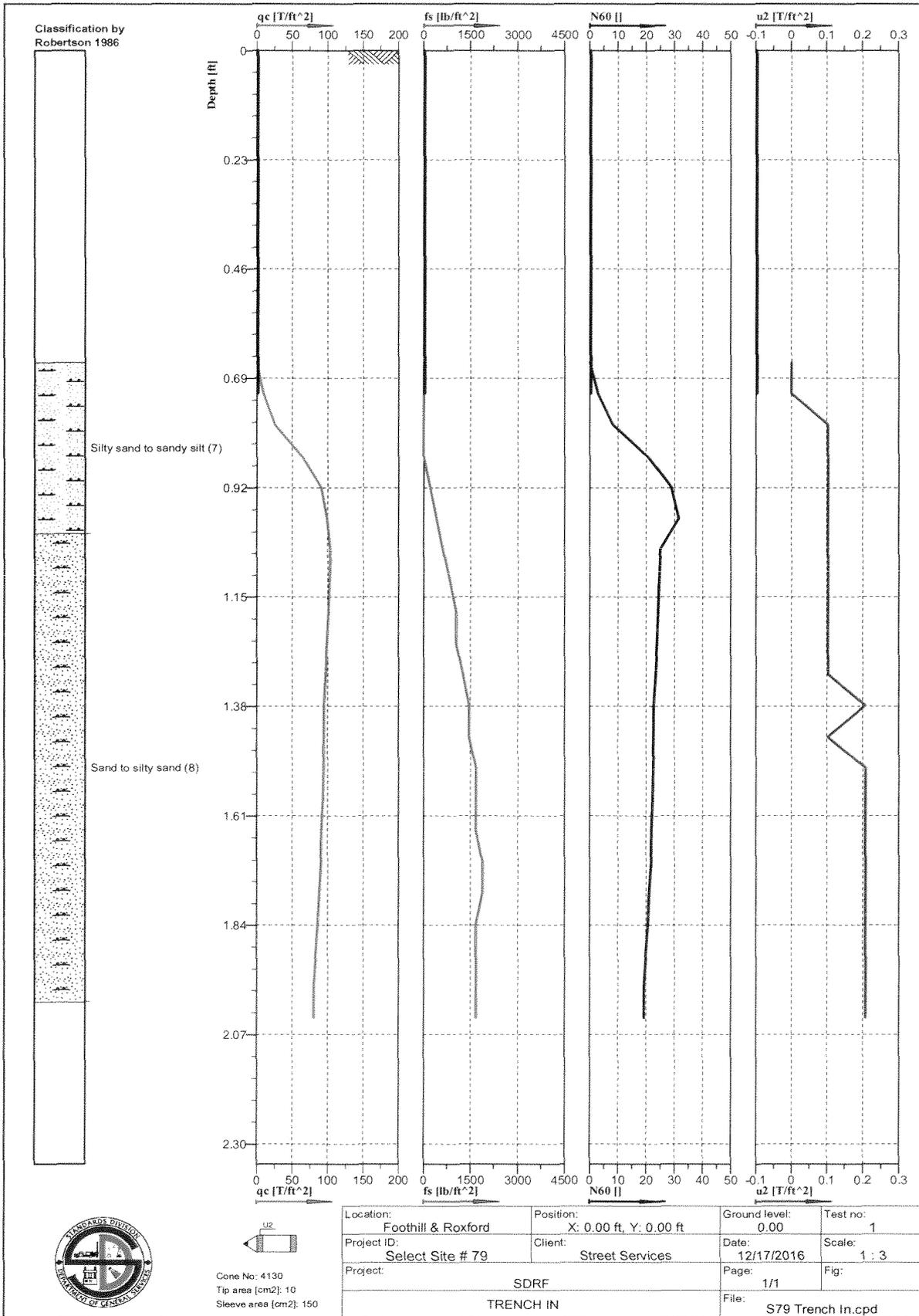
Lab No.: 17-741-254



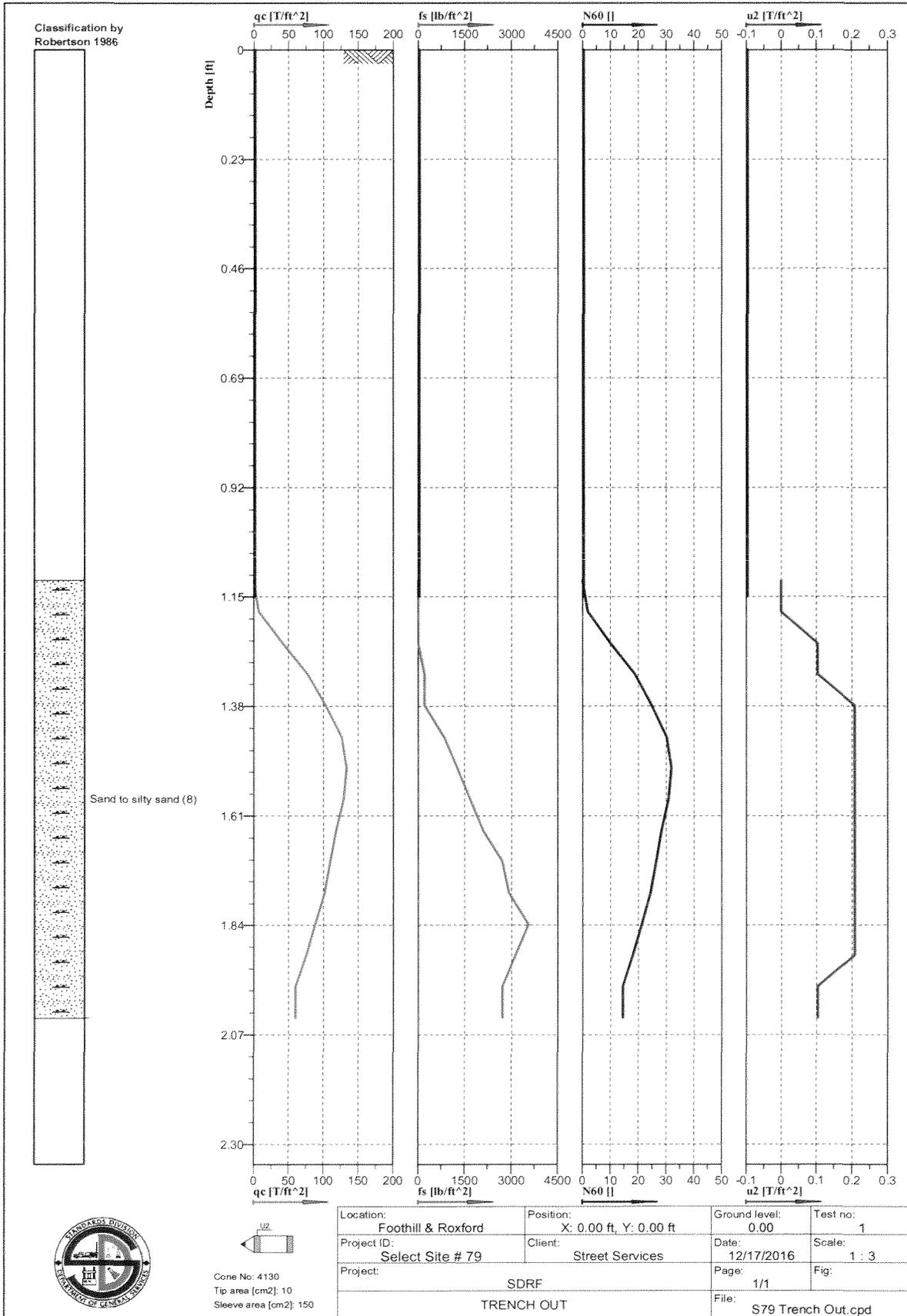
Lab No.: 17-741-255



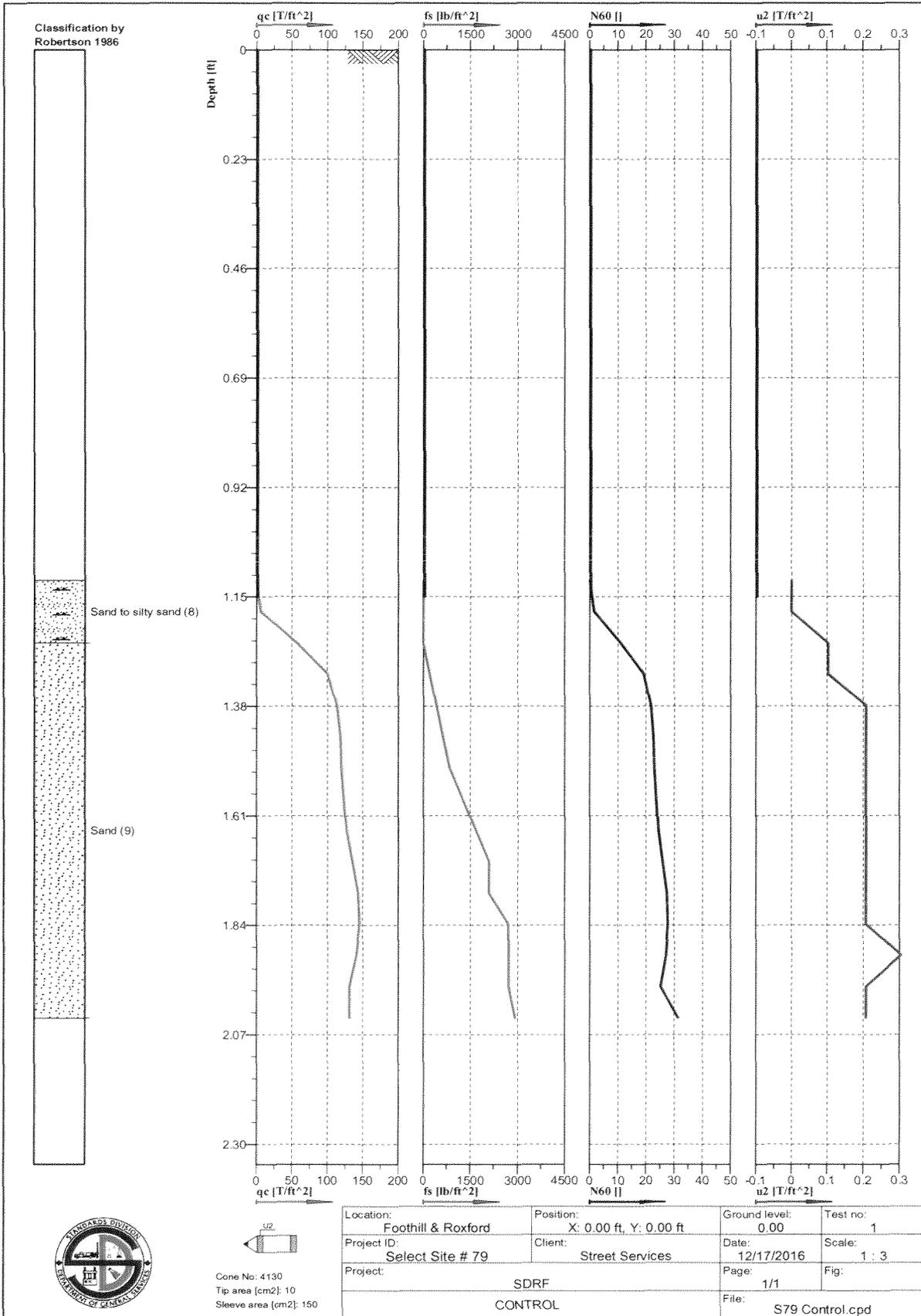
Lab No.: 17-741-256



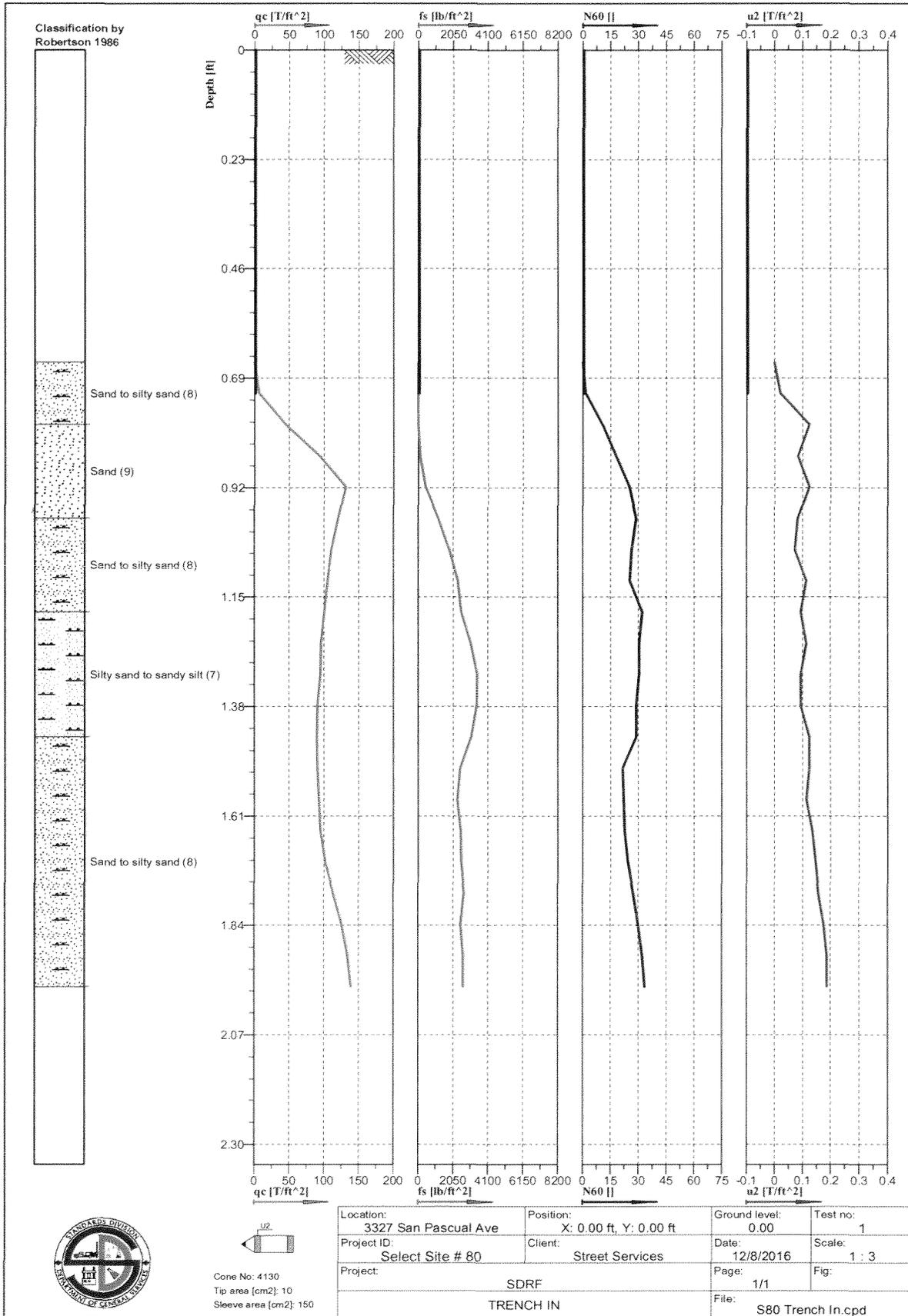
Lab No.: 17-741-257



Lab No.: 17-741-258



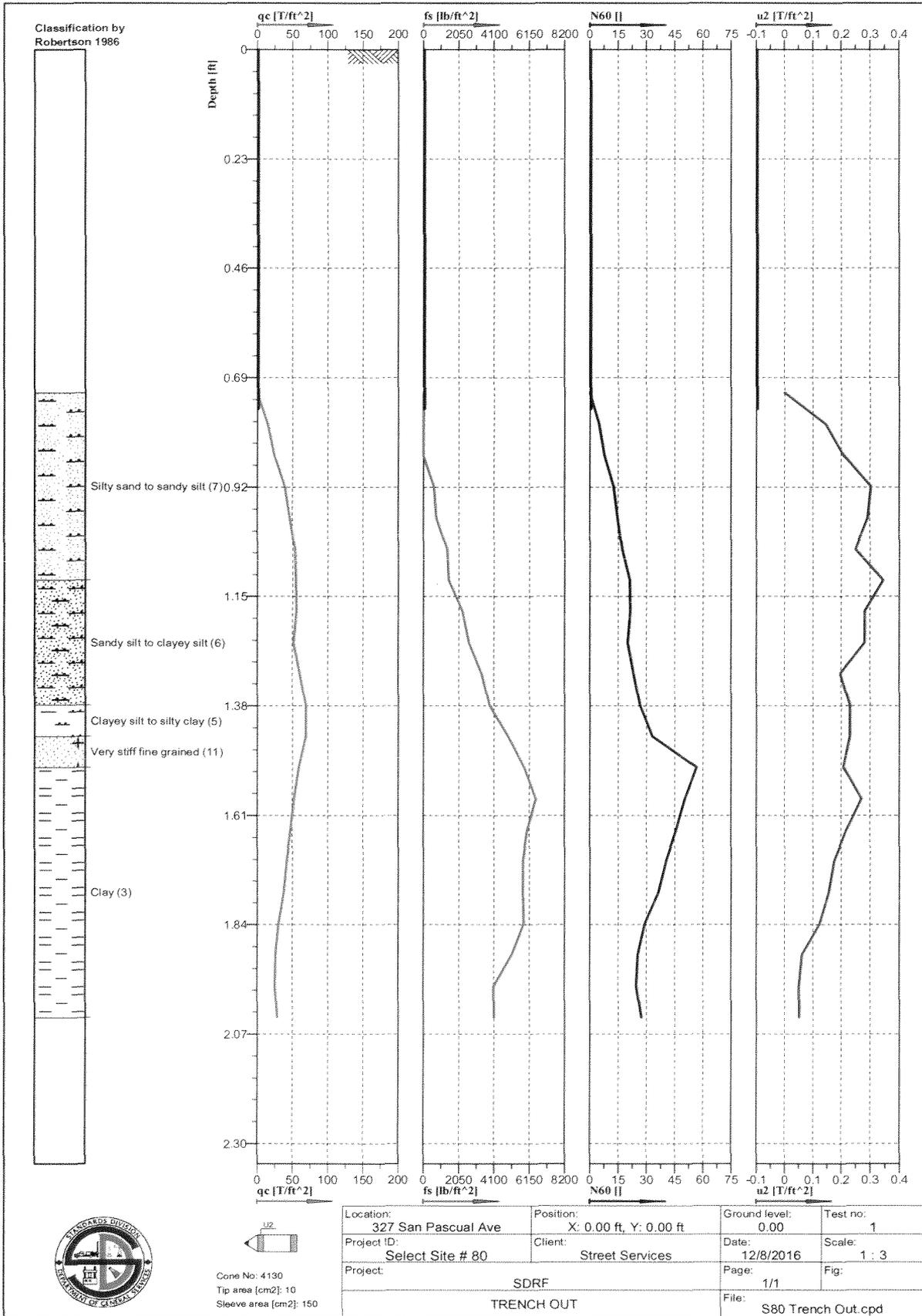
Lab No.: 17-741-259



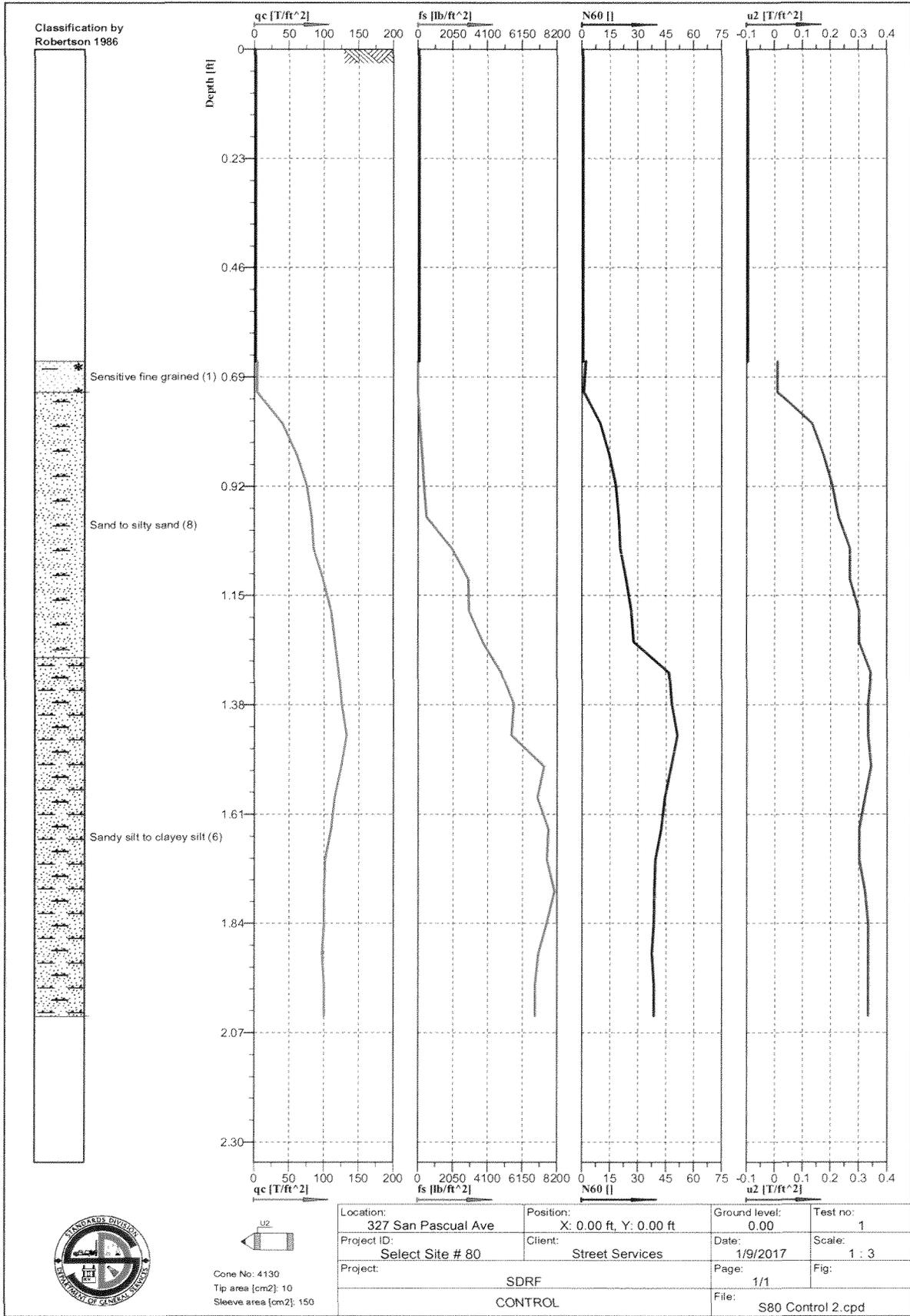
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 3327 San Pascual Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 80	Client: Street Services	Date: 12/8/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
TRENCH IN		File: S80 Trench In.cpd	

Lab No.: 17-741-260



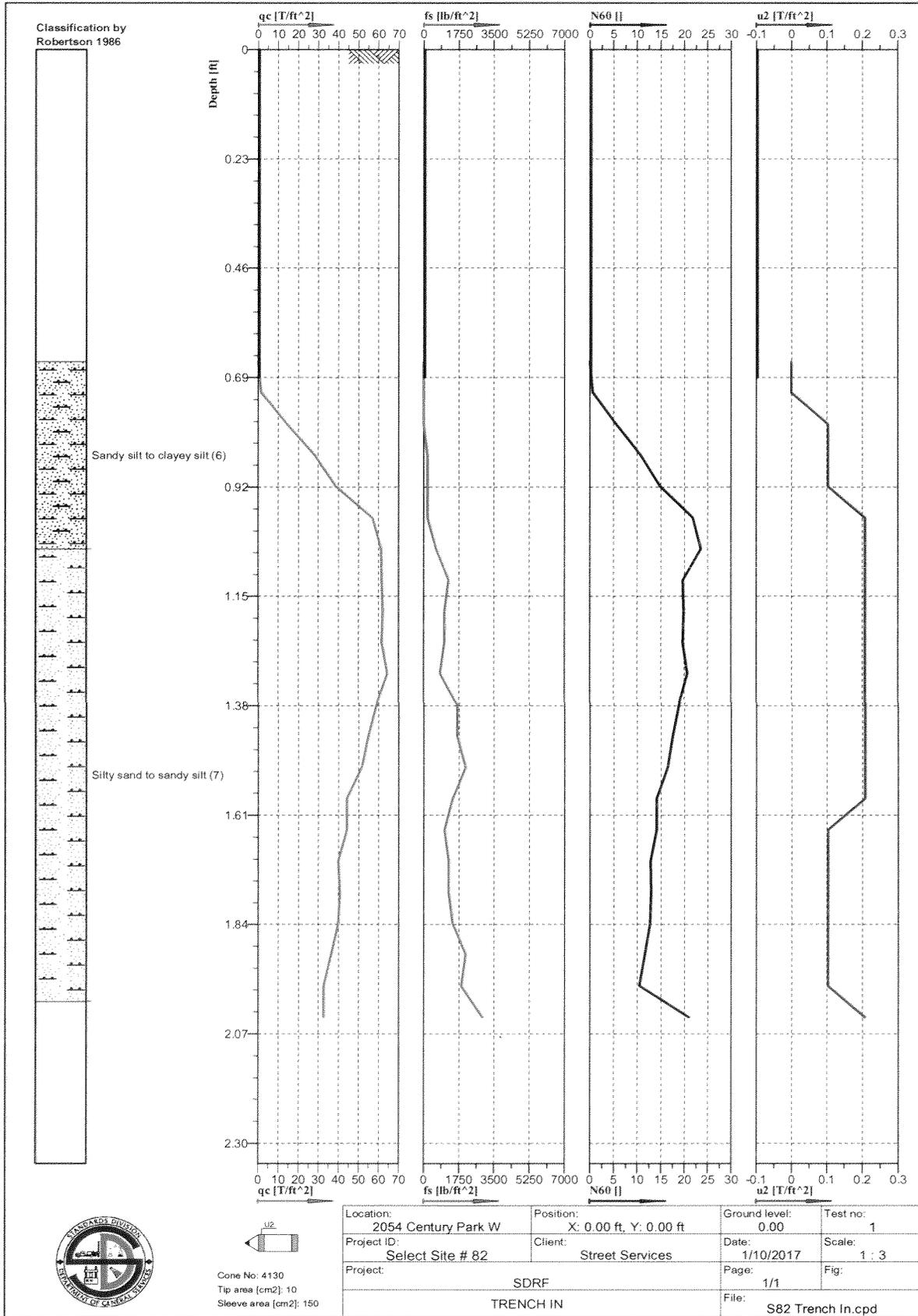
Lab No.: 17-741-261



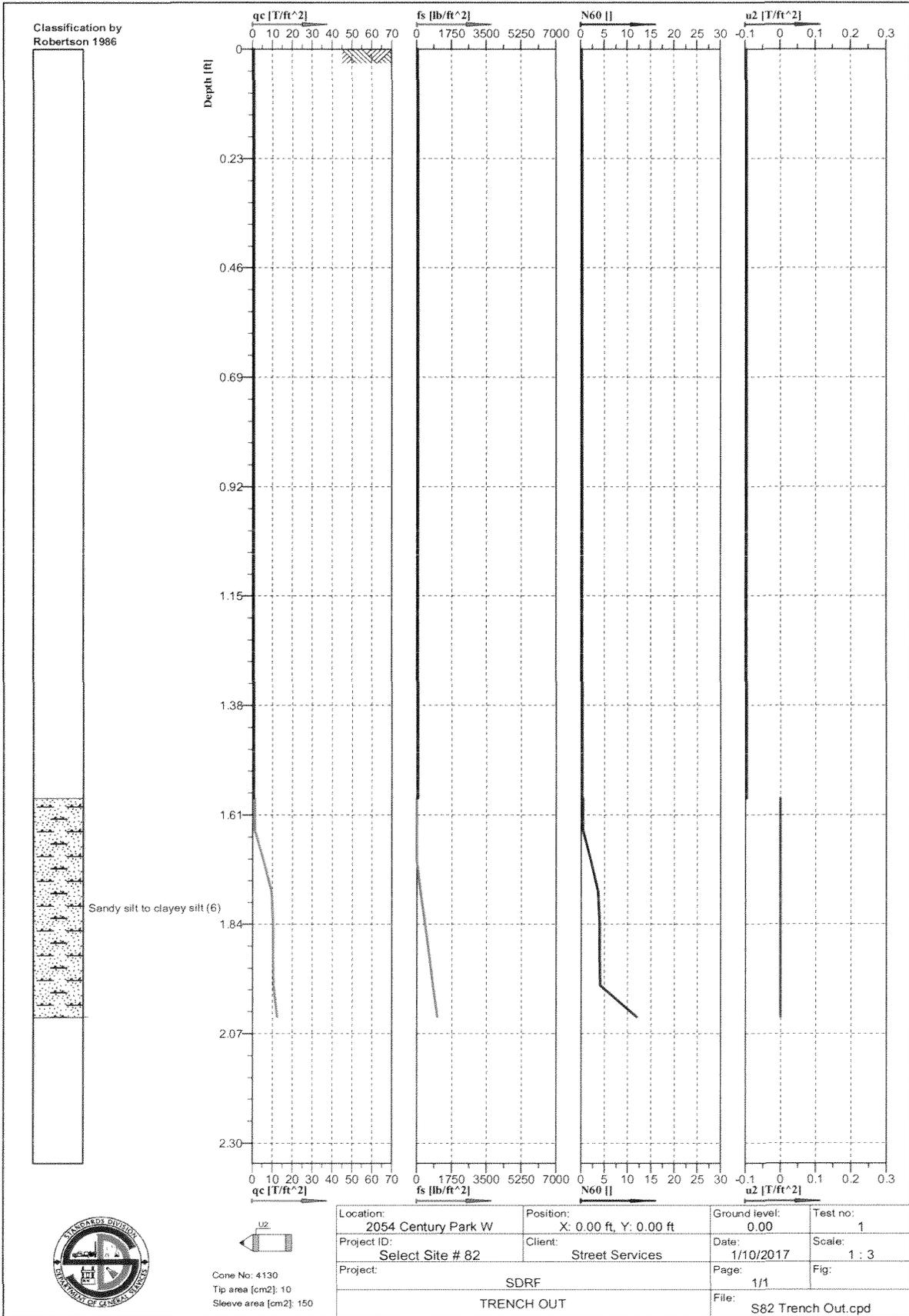
Cone No.: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 327 San Pascual Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no.: 1
Project ID: Select Site # 80	Client: Street Services	Date: 1/9/2017	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1
CONTROL		File: S80 Control 2.cpd	

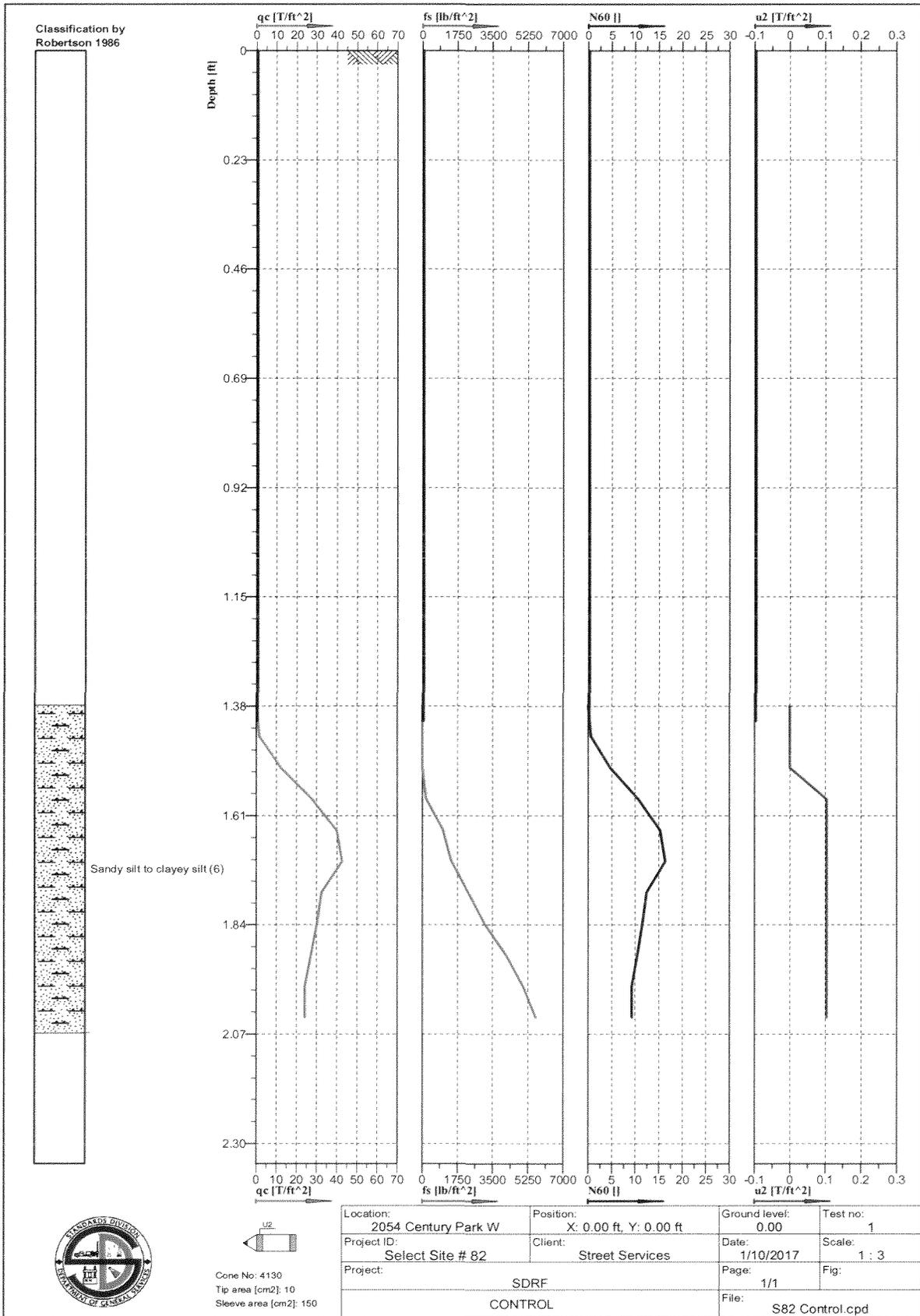
Lab No.: 17-741-262



Lab No.: 17-741-263



Lab No.: 17-741-264



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 2054 Century Park W	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 82	Client: Street Services	Date: 1/10/2017	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S82 Control.cpd	