

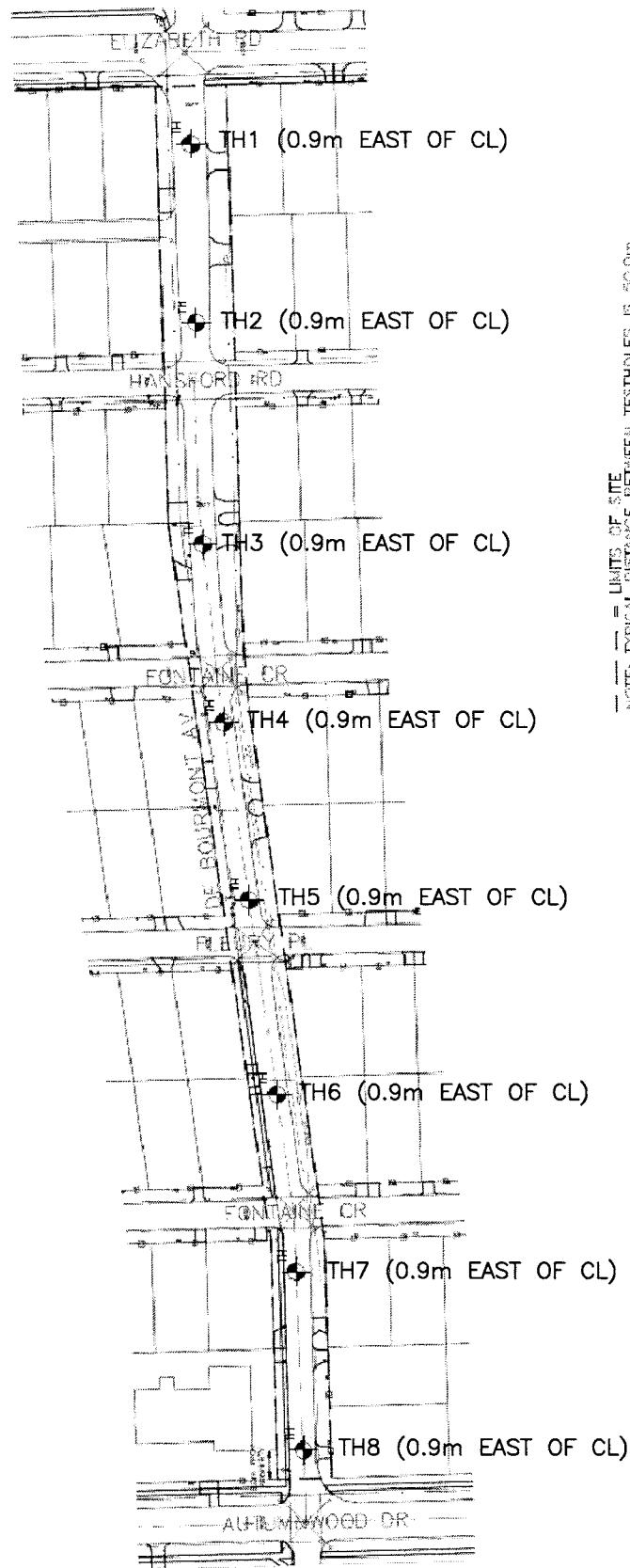
APPENDIX 'A' - GEOTECHNICAL REPORT

De Bourmont Avenue
Autumnwood Drive to Elizabeth Road.

Testhole ID	Testhole Location	Pavement Surface			Soil Description	Sample Depth (m)	Moisture Content (%)	Particle Size Analysis			Atterbergt Limit Plasticity Index
		Type	Thickness (mm)	Type				Gravel (%)	Sand (%)	Silt (%)	
TH1	See site plan	Asphalt / Concrete	69/144	Clay Fill	390	-----	-----	-----	-----	-----	-----
TH2	See site plan	Asphalt / Concrete	63/150	Clay	390	-----	-----	-----	-----	-----	-----
TH3	See site plan	Asphalt / Concrete	69/169	Clayey Silt	830	Clayey Silt	0.76	28	0	2.7	56.3
TH4	See site plan	Asphalt / Concrete	81/144	Clay	990	-----	-----	-----	-----	-----	-----
TH5	See site plan	Asphalt / Concrete	50/150	Clay	710	Clay	0.6	46	0.7	6.6	25.7
TH6	See site plan	Asphalt / Concrete	81/144	Silty Clay	530	-----	-----	-----	-----	-----	-----
TH7	See site plan	Asphalt / Concrete	87/188	Clay	480	Silty Clay	0.91	38	0	4.8	44.2
TH8	See site plan	Asphalt / Concrete	87/100	Clay	1330	-----	-----	-----	-----	-----	-----



DE BOURMONT AVENUE
FROM ALUMINUMWOOD DR TO ELIZABETH RD



GENIVAR

10 PRAIRIE WAY
WINNIPEG, MB R2J 3J8
Tel: (204)477-6650
Fax: (204)474-2864

CITY OF WINNIPEG
2010 STREET RENEWAL
TESTHOLE LOCATIONS
DE BOURMONT AVENUE

DATE: (YY/MM/DD)	10/04/23
APPROVED:	SSU
DRAWN BY:	AO
PROJ. NO.	DWG. NO. WE09 151 GEO-2



GENIVAR

Project No: WE-09-151-00-WE

TH1

Project: 2010 Street Renewal

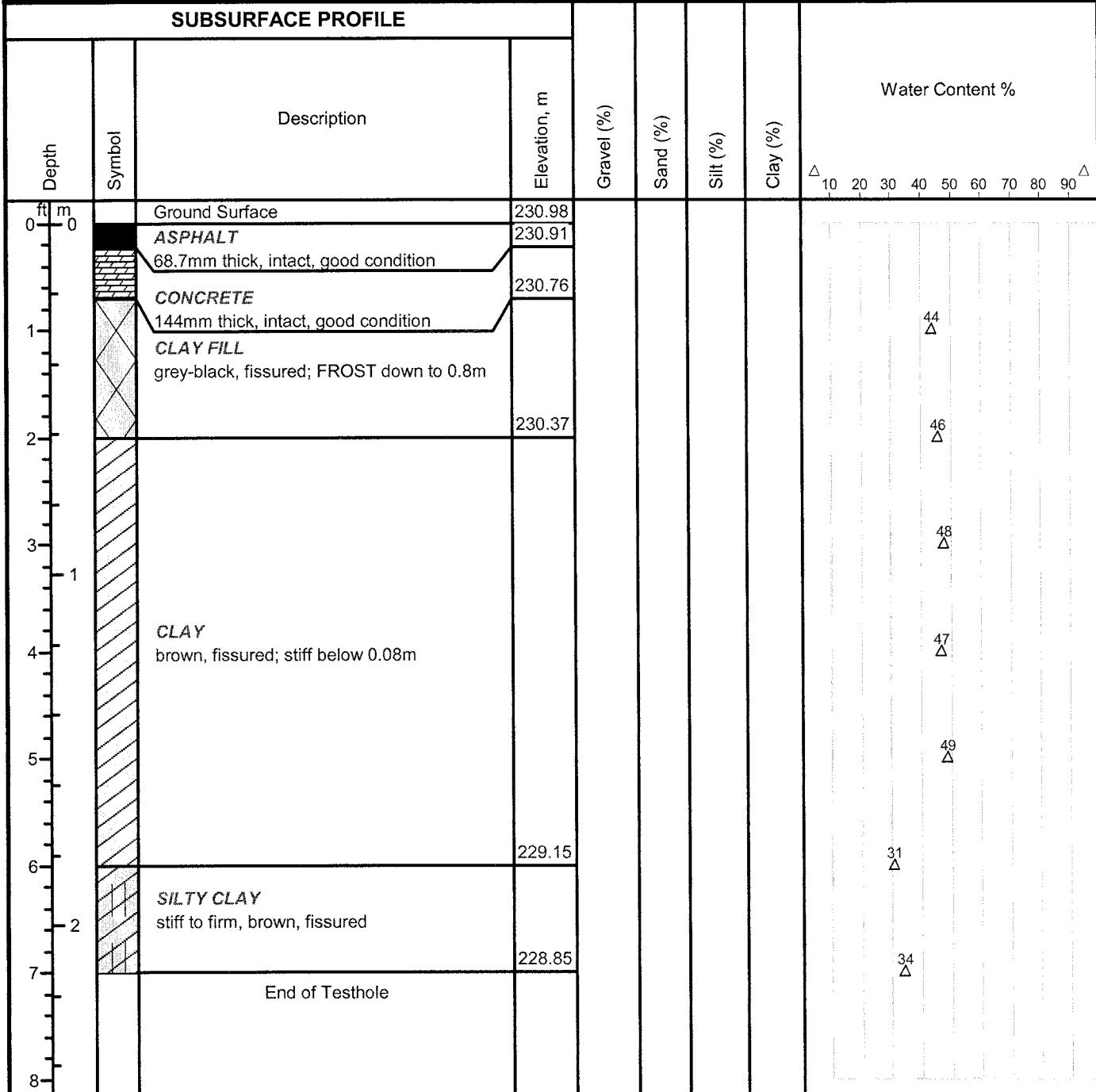
Client: City of Winnipeg

Enclosure:

Location: De Bourmont Ave.(Elizabeth-Autumnwood)

Engineer: SSU

SUBSURFACE PROFILE



Drill Method: Truck- Mounted

Genivar
10 Prairie Way
Winnipeg, Mb.
R2J 3J8

Datum: 230.98m

Drill Date: 01/11/10

Checked by: SSU

Hole Size: 125mm

Sheet: 1 of 1



GENIVAR

Project No: WE-09-151-00-WE

TH2

Project: 2010 Street Renewal

Client: City of Winnipeg

Enclosure:

Location: De Bourmont Ave.(Elizabeth-Autumnwood)

Engineer: SSU

SUBSURFACE PROFILE

Depth ft m	Symbol	Description	Elevation, m	Water Content %			
				Gravel (%)	Sand (%)	Silt (%)	Clay (%)
0		Ground Surface	230.9				
		ASPHALT 62.5mm thick, intact, good condition					
0.7		CONCRETE 150mm thick, intact, good condition	230.68				
1.2		CLAY grey-black, fissured; FROST down to 1.2m; brown below 0.6m; stiff below 1.2m	230.29				
4		CLAY brown, fissured; stiff below 0.08m					
6		SILTY CLAY stiff to firm, brown with shades of tan, fissured	229.07				
7		End of Testhole	228.77				

Drill Method: Truck- Mounted

Genivar
10 Prairie Way
Winnipeg, Mb.
R2J 3J8

Datum: 230.90m

Drill Date: 01/11/10

Checked by: SSU

Hole Size: 125mm

Sheet: 1 of 1



GENIVAR

Project No: WE-09-151-00-WE

TH3

Project: 2010 Street Renewal

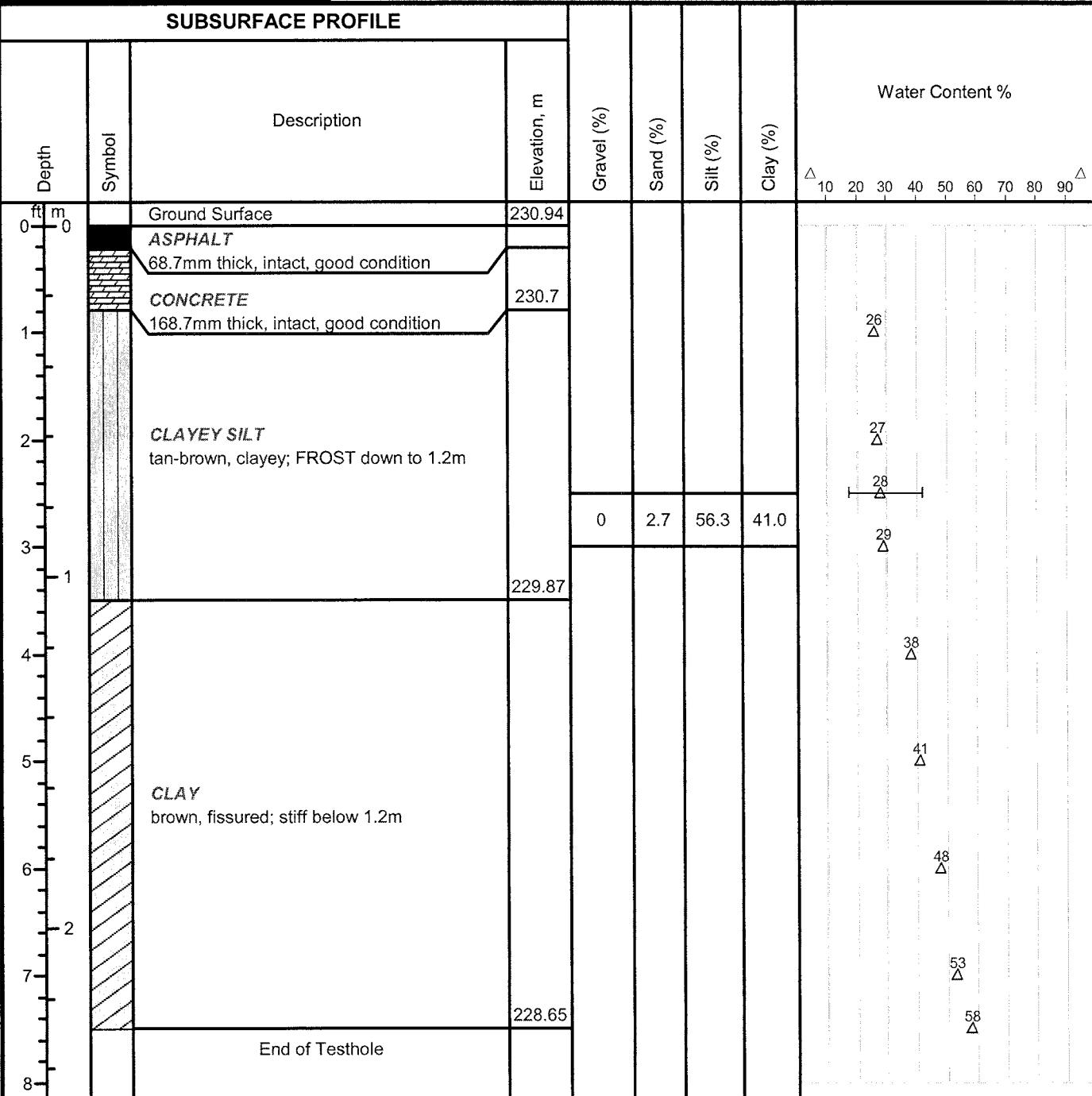
Client: City of Winnipeg

Enclosure:

Location: De Bourmont Ave.(Elizabeth-Autumnwood)

Engineer: SSU

SUBSURFACE PROFILE



Drill Method: Truck- Mounted

Genivar
10 Prairie Way
Winnipeg, Mb.
R2J 3J8

Datum: 230.94m

Drill Date: 01/11/10

Checked by: SSU

Hole Size: 125mm

Sheet: 1 of 1



GENIVAR

Project No: WE-09-151-00-WE

TH4

Project: 2010 Street Renewal

Client: City of Winnipeg

Enclosure:

Location: De Bourmont Ave.(Elizabeth-Autumnwood)

Engineer: SSU

SUBSURFACE PROFILE

Depth ft m	Symbol	Description	Elevation, m	Water Content %			
				Gravel (%)	Sand (%)	Silt (%)	Clay (%)
0		Ground Surface	230.91				
		ASPHALT 81mm thick, intact, good condition					
1		CONCRETE 144mm thick, intact, good condition	230.68				
2		CLAY brown, fissured; FROST down to 1.2m					
3							
4		SILT soft, tan-brown, trace of clay	229.69				
5		CLAY stiff, brown, fissured	229.54				
6		SILTY CLAY stiff, brown with silt inclusions, fissured	229.33				
7		End of Testhole	228.78				
8							

Drill Method: Truck- Mounted

Genivar
10 Prairie Way
Winnipeg, Mb.
R2J 3J8

Datum: 230.91m

Drill Date: 01/11/10

Checked by: SSU

Hole Size: 125mm

Sheet: 1 of 1



GENIVAR

Project No: WE-09-151-00-WE

TH5

Project: 2010 Street Renewal

Client: City of Winnipeg

Enclosure:

Location: De Bourmont Ave.(Elizabeth-Autumnwood)

Engineer: SSU

SUBSURFACE PROFILE

Depth ft m	Symbol	Description	Elevation, m	Water Content %			
				Gravel (%)	Sand (%)	Silt (%)	Clay (%)
0		Ground Surface	231.13				
		ASPHALT 50mm thick, intact, good condition					
		CONCRETE 150mm thick, intact, good condition	230.93				
1		CLAY grey-black, fissured; brown at 0.6m; FROST down to 0.9m					
2			230.22				
3		SILT soft, tan-brown, trace of clay	229.91	0.7	6.6	25.7	67.0
4		CLAY stiff, brown, fissured	229.61				
5		SILT soft, tan-brown, moist to wet	229				
6							
7		End of Testhole					
8							

Drill Method: Truck- Mounted

Genivar
10 Prairie Way
Winnipeg, Mb.
R2J 3J8

Datum: 231.13m

Drill Date: 01/11/10

Checked by: SSU

Hole Size: 125mm

Sheet: 1 of 1



GENIVAR

Project No: WE-09-151-00-WE

TH6

Project: 2010 Street Renewal

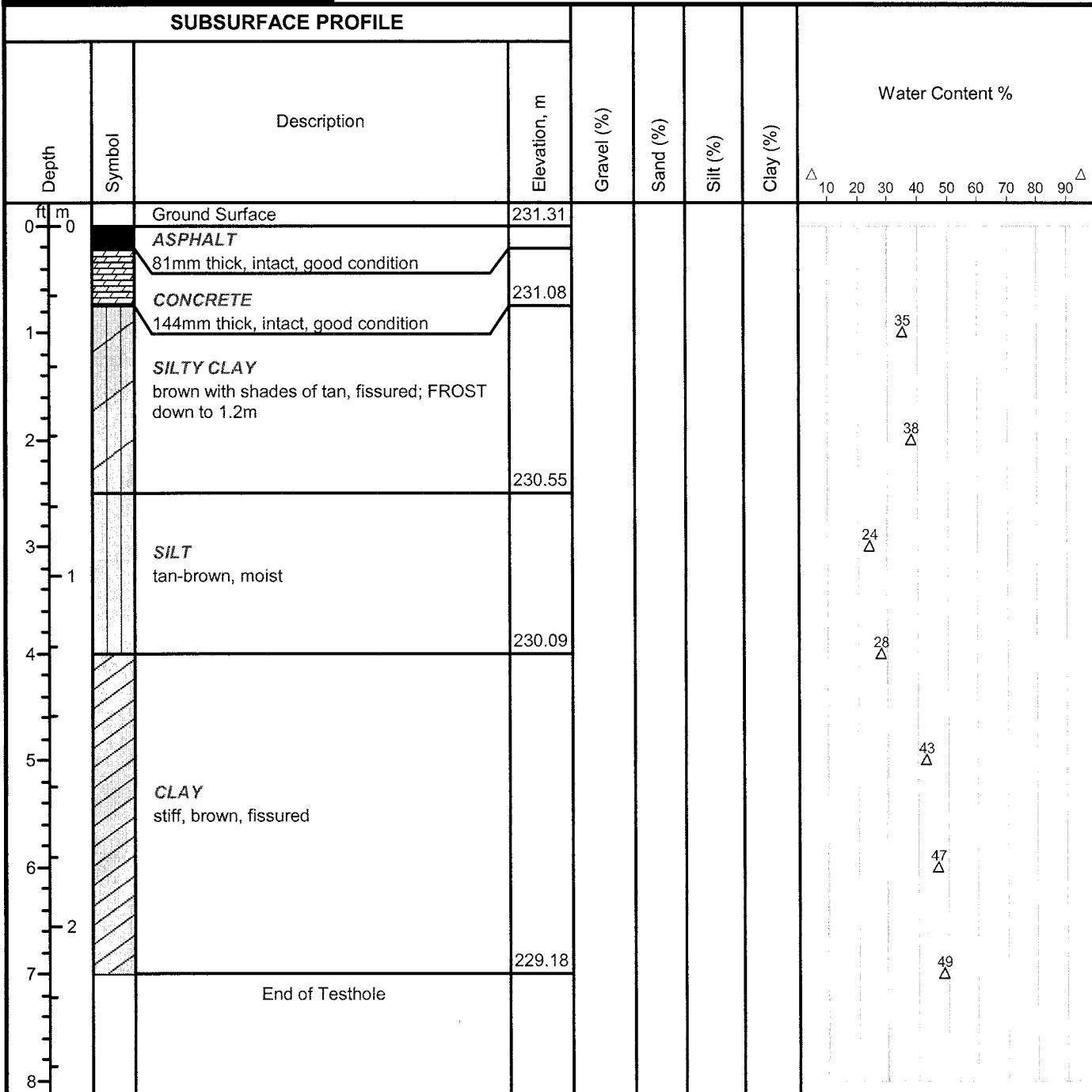
Client: City of Winnipeg

Enclosure:

Location: De Bourmont Ave.(Elizabeth-Autumnwood)

Engineer: SSU

SUBSURFACE PROFILE



Drill Method: Truck- Mounted

Genivar
10 Prairie Way
Winnipeg, Mb.
R2J 3J8

Datum: 231.31m

Drill Date: 01/11/10

Checked by: SSU

Hole Size: 125mm

Sheet: 1 of 1



GENIVAR

Project No: WE-09-151-00-WE

TH7

Project: 2010 Street Renewal

Client: City of Winnipeg

Enclosure:

Location: De Bourmont Ave.(Elizabeth-Autumnwood)

Engineer: SSU

SUBSURFACE PROFILE

Depth ft m	Symbol	Description	Elevation, m	Water Content %			
				Gravel (%)	Sand (%)	Silt (%)	Clay (%)
0		Ground Surface	231.13				
		ASPHALT 87mm thick, intact, good condition					
1		CONCRETE 188mm thick, intact, good condition	230.85				
2		CLAY brown, fissured; FROST down to 1m	230.37				
3		SILTY CLAY stiff to firm below 1m, brown with traces of tan colour, STRATIFIED		0	4.8	44.2	51.0
4							
5			229.61				
6		CLAY stiff, brown, fissured					
7		End of Testhole	229				
8							

Drill Method: Truck- Mounted

Genivar
10 Prairie Way
Winnipeg, Mb.
R2J 3J8

Datum: 231.13m

Drill Date: 01/11/10

Checked by: SSU

Hole Size: 125mm

Sheet: 1 of 1



GENIVAR

Project No: WE-09-151-00-WE

TH8

Project: 2010 Street Renewal

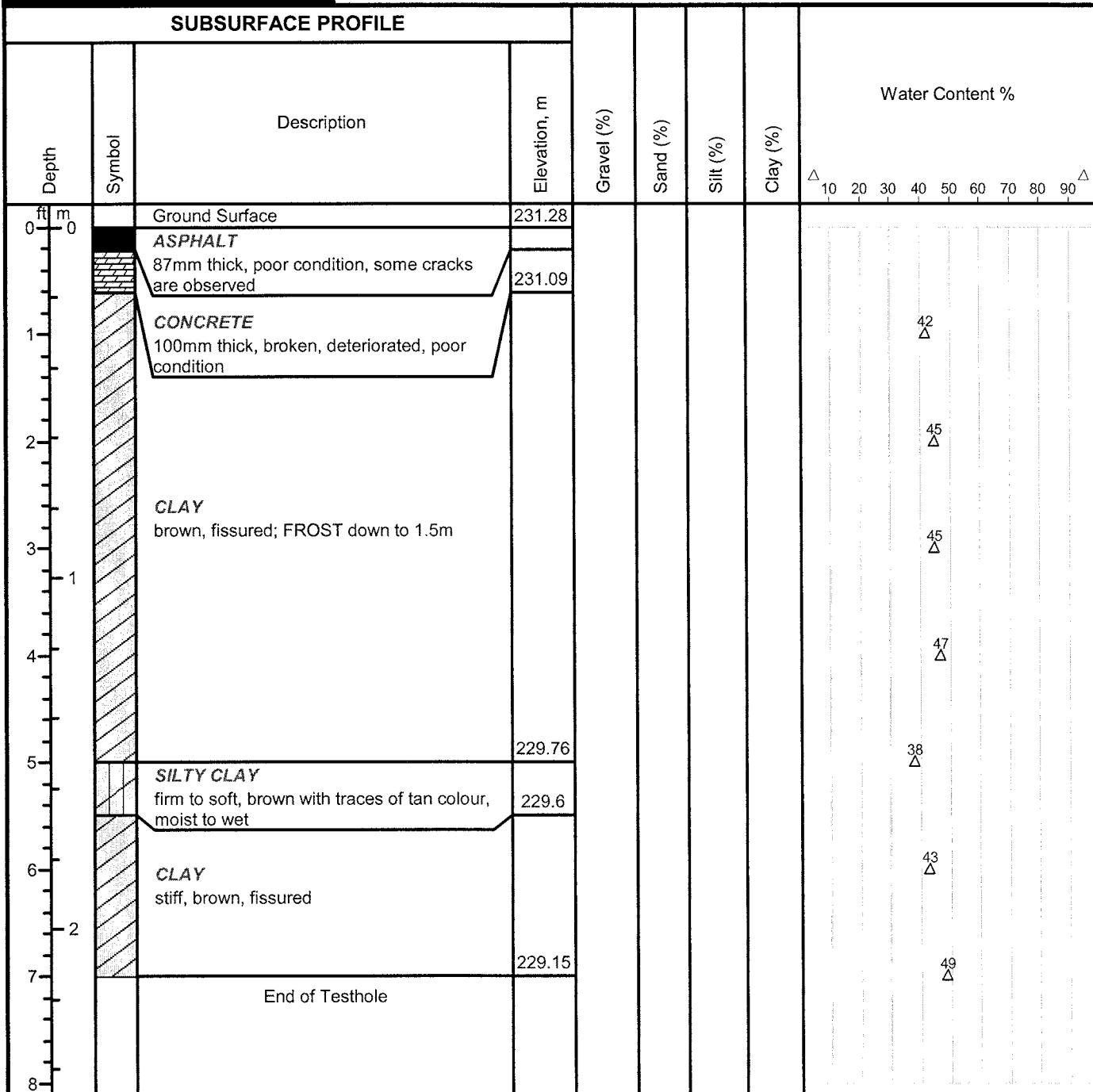
Client: City of Winnipeg

Enclosure:

Location: De Bourmont Ave.(Elizabeth-Autumnwood)

Engineer: SSU

SUBSURFACE PROFILE



Drill Method: Truck- Mounted

Genivar
10 Prairie Way
Winnipeg, Mb.
R2J 3J8

Datum: 231.28m

Drill Date: 01/11/10

Checked by: SSU

Hole Size: 125mm

Sheet: 1 of 1

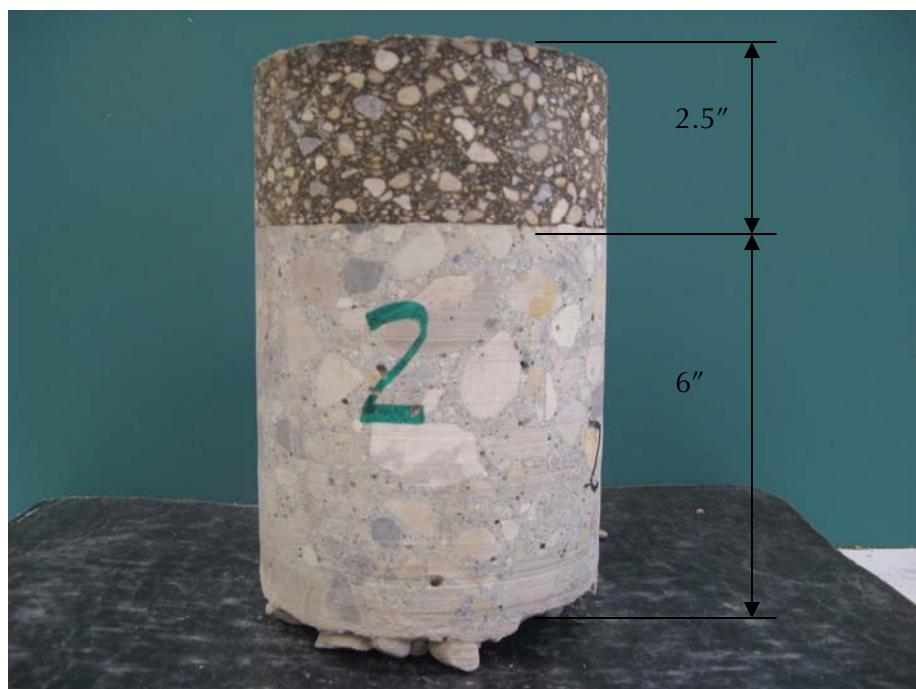
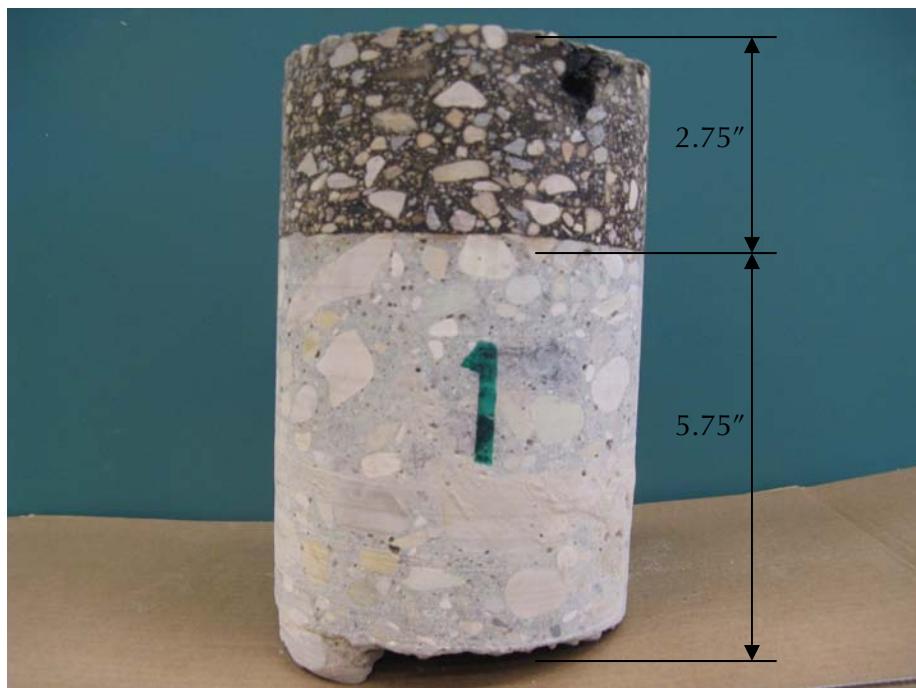
PROJECT:

2010 STREET RENEWAL

STREET:

DEBOURMONT

CORE SAMPLES FROM ELIZABETH ROAD TO AUTUMNWOOD DR.



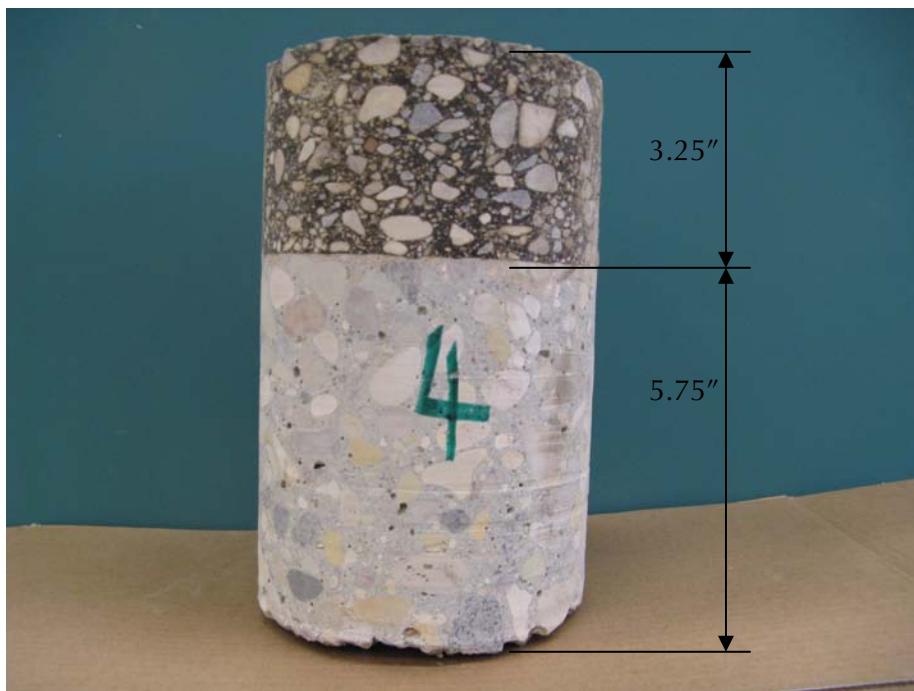
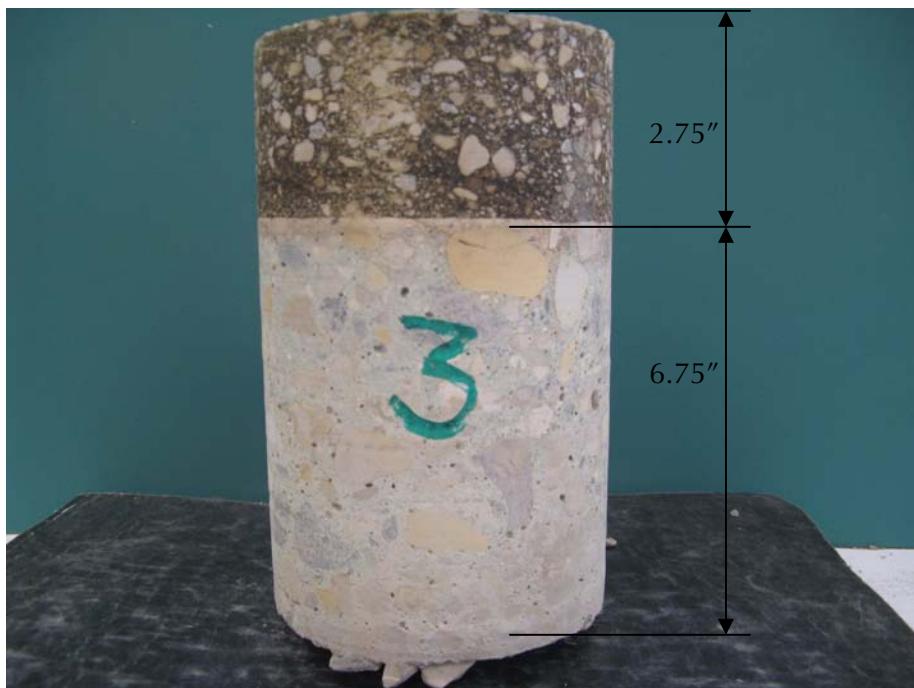
PROJECT:

2010 STREET RENEWAL

STREET:

DEBOURMONT

CORE SAMPLES FROM ELIZABETH ROAD TO AUTUMNWOOD DR.



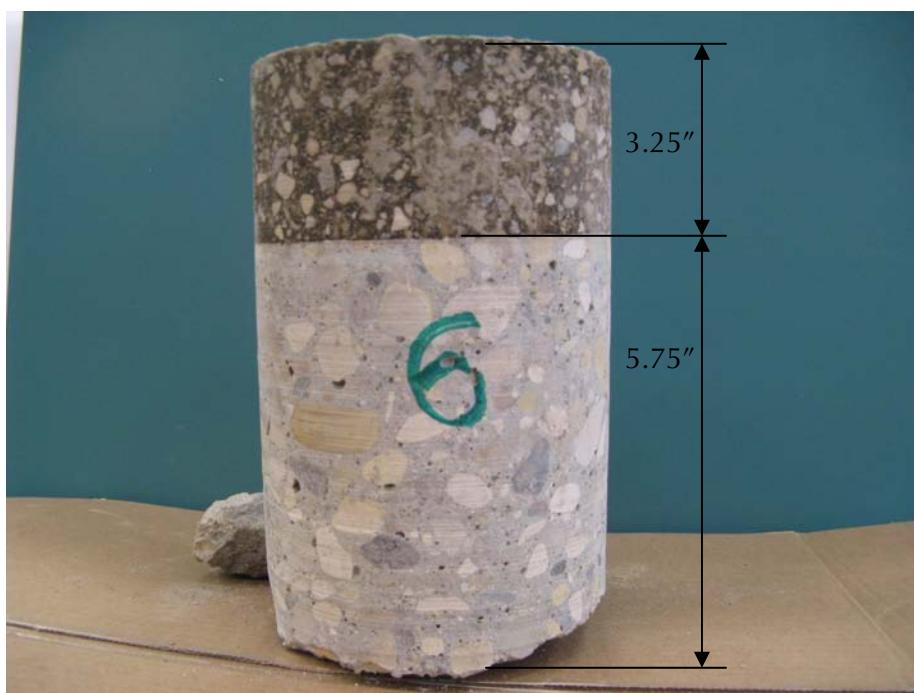
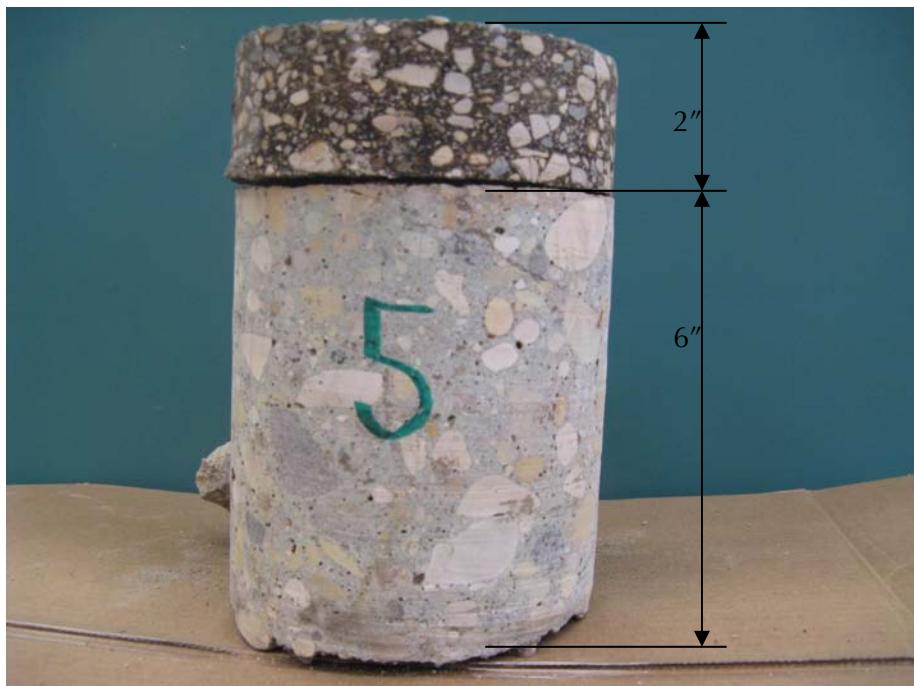
PROJECT:

2010 STREET RENEWAL

STREET:

DEBOURMONT

CORE SAMPLES FROM ELIZABETH ROAD TO AUTUMNWOOD DR.



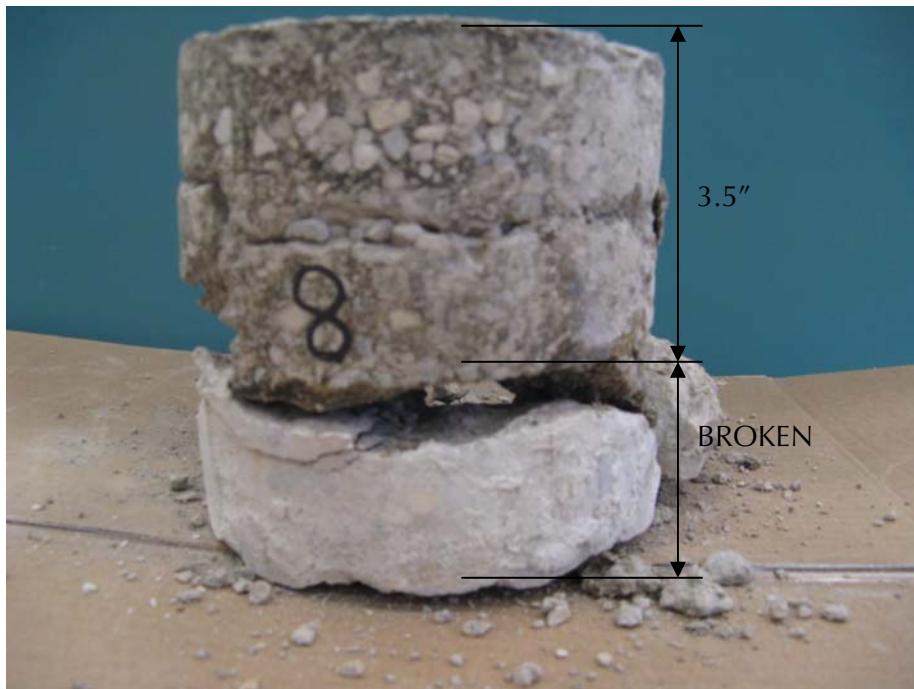
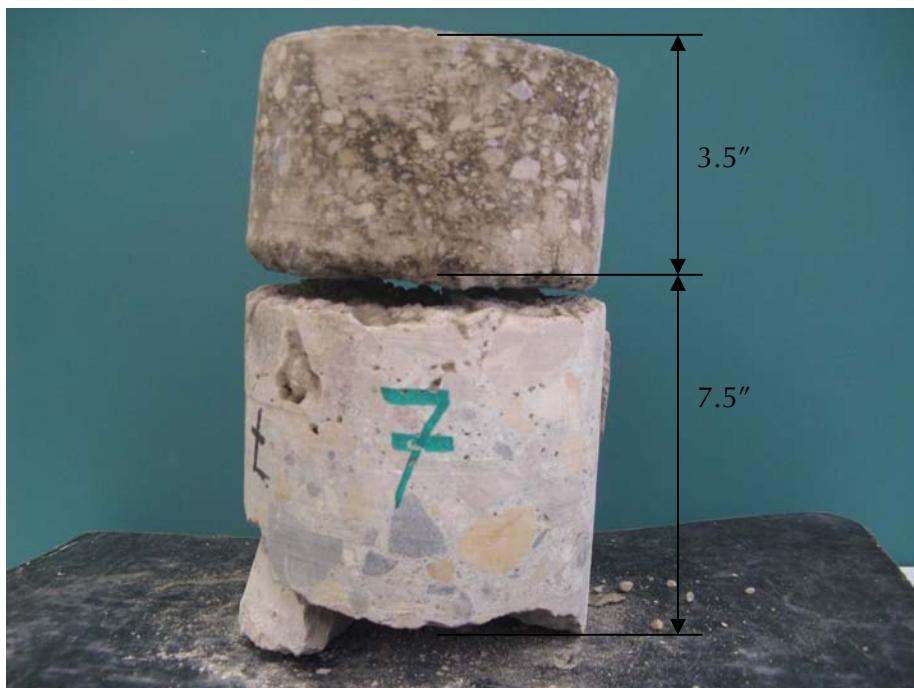
PROJECT:

2010 STREET RENEWAL

STREET:

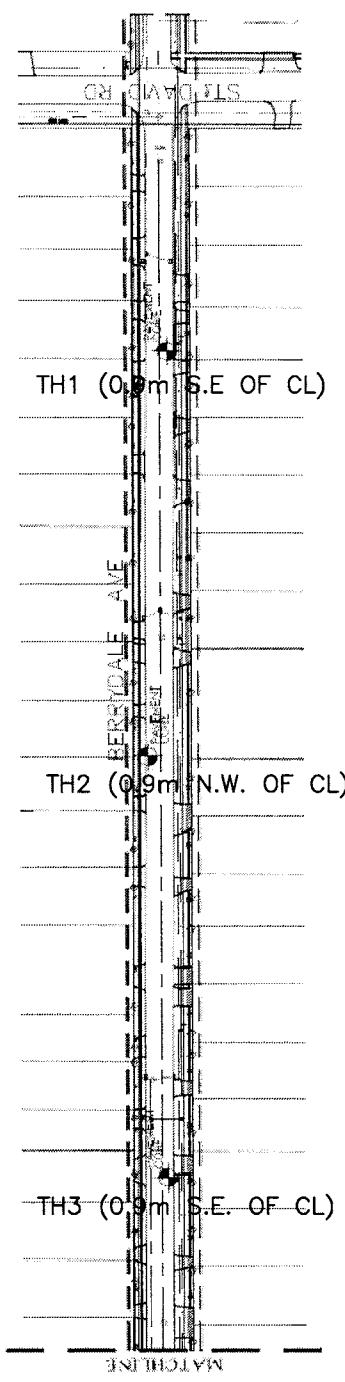
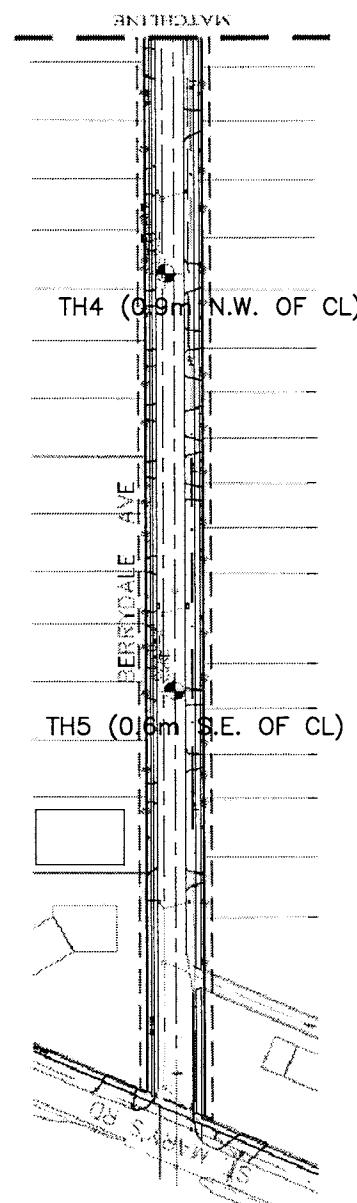
DEBOURMONT

CORE SAMPLES FROM ELIZABETH ROAD TO AUTUMNWOOD DR.



Berrydale Avenue
St. Mary's Road to St. David Road

BERRYDALE AVE
(FROM ST. MARY'S RD TO ST. DAVID RD)



— = LIMITS OF SITE
NOTE: TYPICAL DISTANCE BETWEEN PAVEMENT CORES IS 75.0m TO 100.0m



GENIVAR

10 PRAIRIE WAY
WINNIPEG, MB R2J 3J8
Tel: (204)477-6650
Fax: (204)474-2864

CITY OF WINNIPEG
2010 STREET RENEWAL

TESTHOLE LOCATIONS
BERRYDALE AVENUE

DATE: (YY/MM/DD)	10/04/23
APPROVED:	SSU
DRAWN BY:	AO
PROJ. NO.	DWG. NO. WE09 151 GEO-4



GENIVAR

Project No: WE-09-151-00-WE

TH1

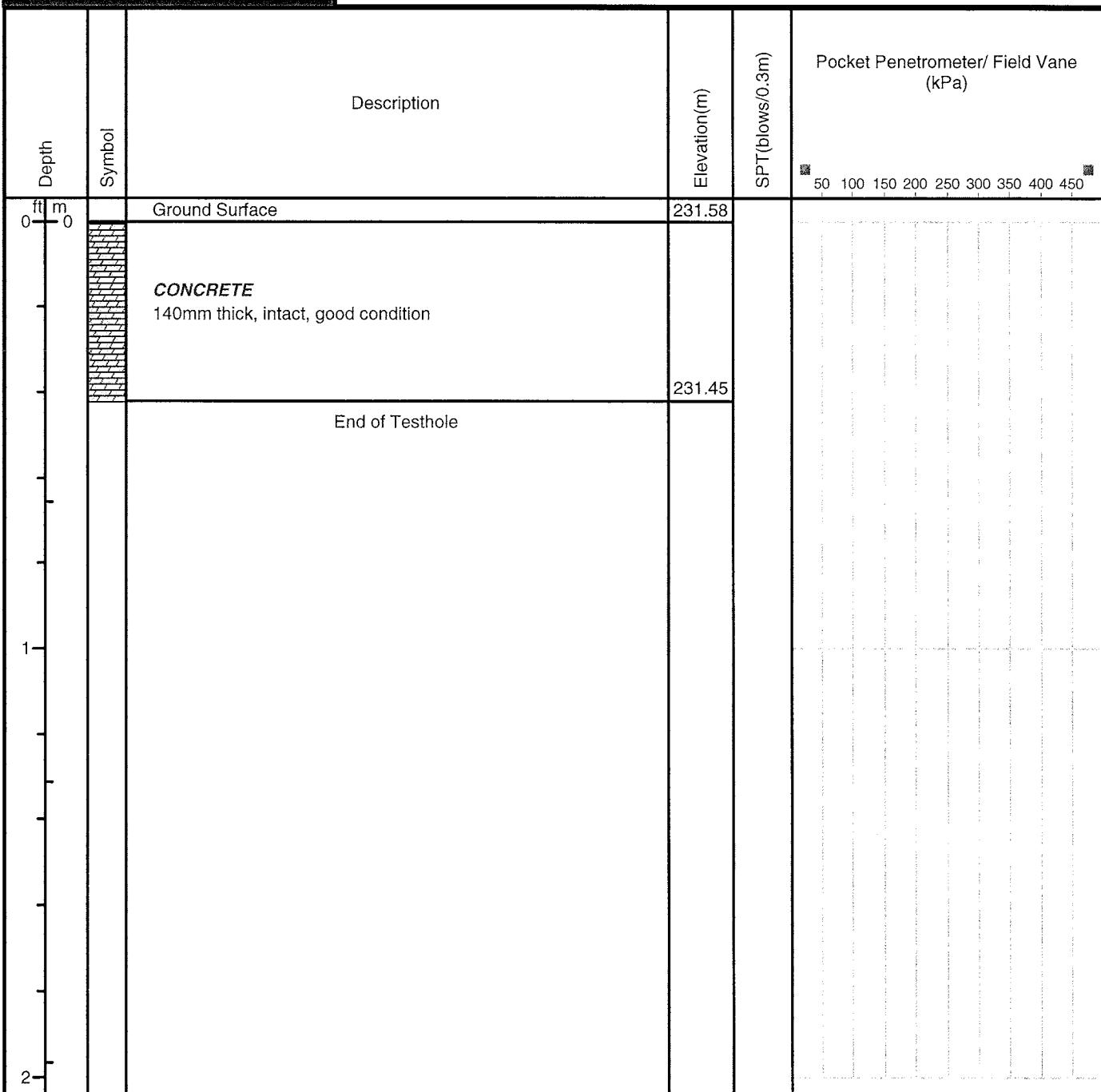
Project: 2010 Street Renewal

Client: City of Winnipeg

Logged: AO

Location: Berrydale Ave.(St. Mary's - St. David)

Engineer: S.S.U



Drill Method: Truck Mounted Core Drill

Drill Date: 12/23/09

Hole Size: 150 mm

GENIVAR
10 Prairie Street
Winnipeg, Manitoba
R2J 3J8

Elevation: 231.58m

Checked by: S.S.U.



GENIVAR

Project No: WE-09-151-00-WE

TH2

Project: 2010 Street Renewal

Client: City of Winnipeg

Location: Berrydale Ave.(St. Mary's-St. David)

Enclosure:

Engineer: SSU

SUBSURFACE PROFILE

Depth ft m	Symbol	Description	Elevation, m	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Water Content %									
								10	20	30	40	50	60	70	80	90	
0		Ground Surface	232.01														
		CONCRETE 140mm thick, intact, good condition															
			231.86														
		End of Testhole															
1																	
2																	

Drill Method: Truck- Mounted Core Drill

Drill Date: 12/23/09

Hole Size: 150mm

Genivar
10 Prairie Way
Winnipeg, Mb.
R2J 3J8

Datum: 232.01m

Checked by: SSU

Sheet: 1 of 1



GENIVAR

Project No: WE-09-151-00-WE

TH3

Project: 2010 Street Renewal

Client: City of Winnipeg

Location: Berrydale Ave.(St. Mary's-St. David)

Enclosure:

Engineer: SSU

SUBSURFACE PROFILE

Depth ft m	Symbol	Description	Elevation, m	Water Content %			
				Gravel (%)	Sand (%)	Silt (%)	Clay (%)
0		Ground Surface	231.8				
		CONCRETE 150mm thick, broken, deteriorated					
			231.65				
		End of Testhole					
1							
2							

Drill Method: Truck- Mounted Core Drill

Drill Date: 12/23/09

Hole Size: 150mm

Genivar
10 Prairie Way
Winnipeg, Mb.
R2J 3J8

Datum: 231.80m

Checked by: SSU

Sheet: 1 of 1



Project No: WE-09-151-00-WE

TH4

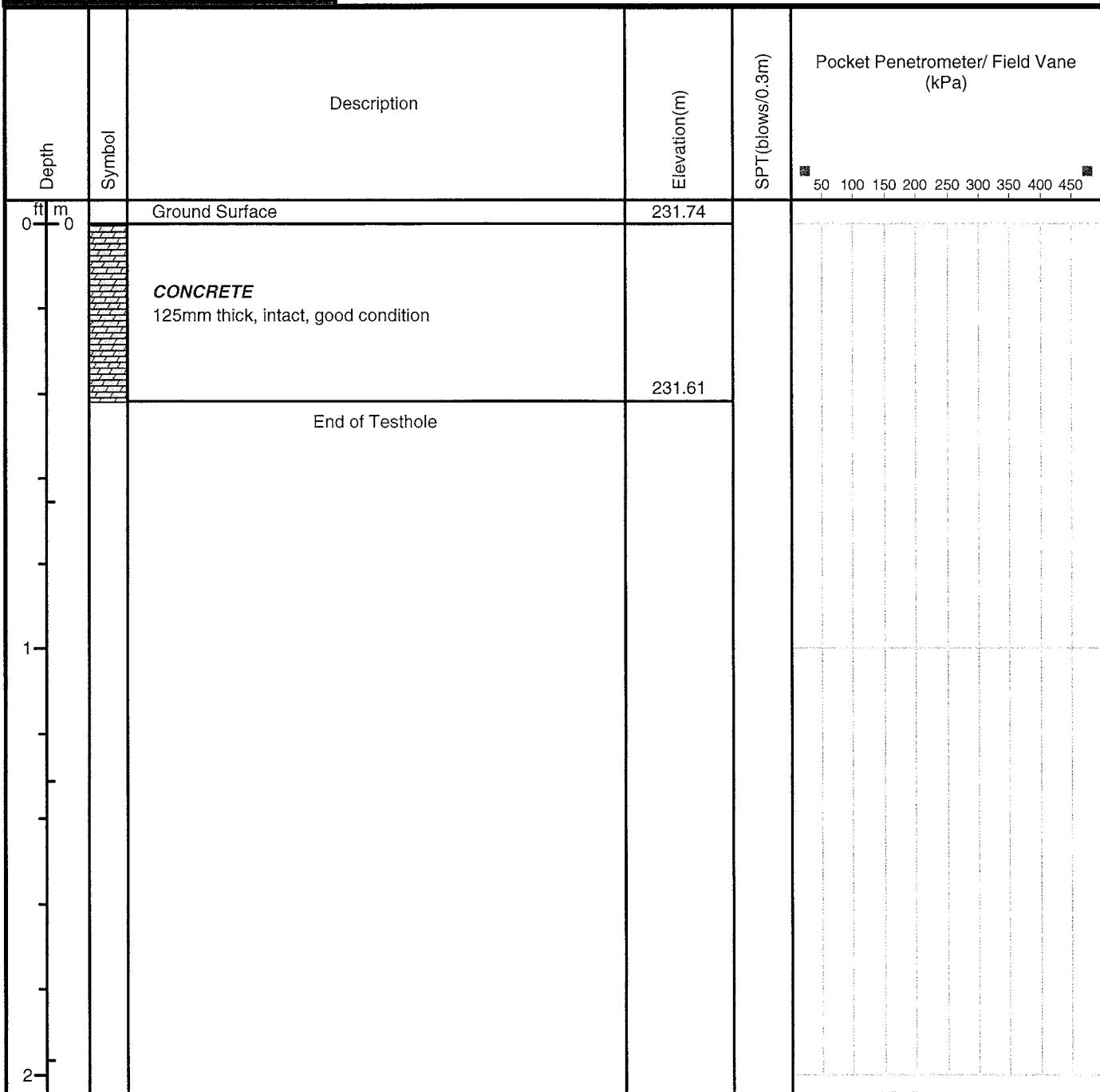
Project: 2010 Street Renewal

Client: City of Winnipeg

Logged: AO

Location: Berrydale Ave.(St. Mary's - St. David)

Engineer: S.S.U



Drill Method: Truck Mounted Core Drill

Drill Date: 12/23/09

Hole Size: 150 mm

GENIVAR
10 Prairie Street
Winnipeg, Manitoba
R2J 3J8

Elevation: 231.74m

Checked by: S.S.U.



Project No: WE-09-151-00-WE

TH5

Project: 2010 Street Renewal

Client: City of Winnipeg

Enclosure:

Location: Berrydale Ave.(St. Mary's-St. David)

Engineer: SSU

SUBSURFACE PROFILE

Depth ft m	Symbol	Description	Elevation, m	Water Content %			
				Gravel (%)	Sand (%)	Silt (%)	Clay (%)
0		Ground Surface	231.86				
		CONCRETE 125mm thick, intact, good condition					
			231.73				
		End of Testhole					
1							
2							

Drill Method: Truck- Mounted Core Drill

Drill Date: 12/23/09

Hole Size: 150mm

Genivar
10 Prairie Way
Winnipeg, Mb.
R2J 3J8

Datum: 231.86m

Checked by: SSU

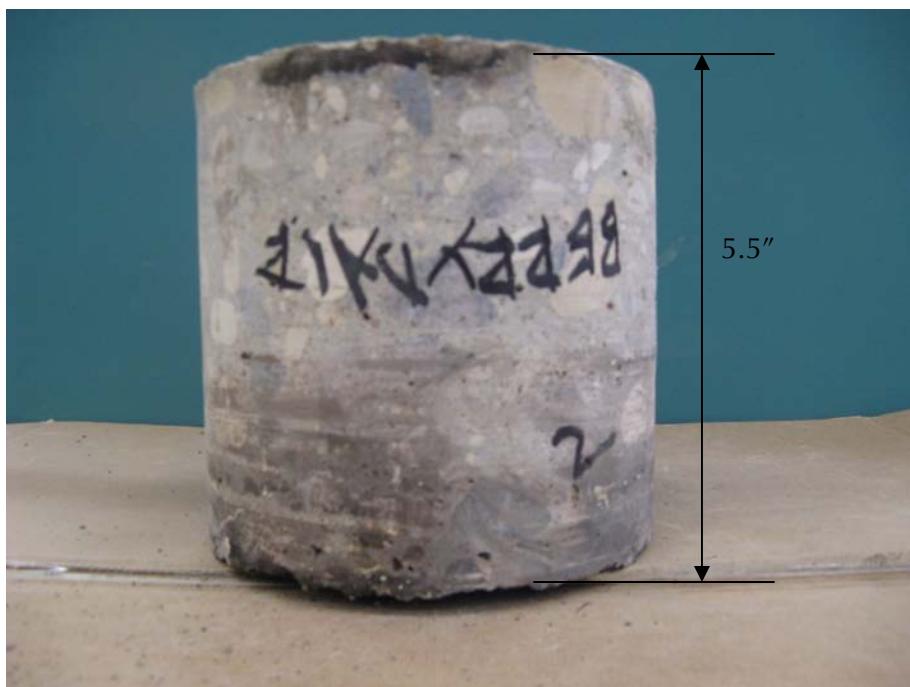
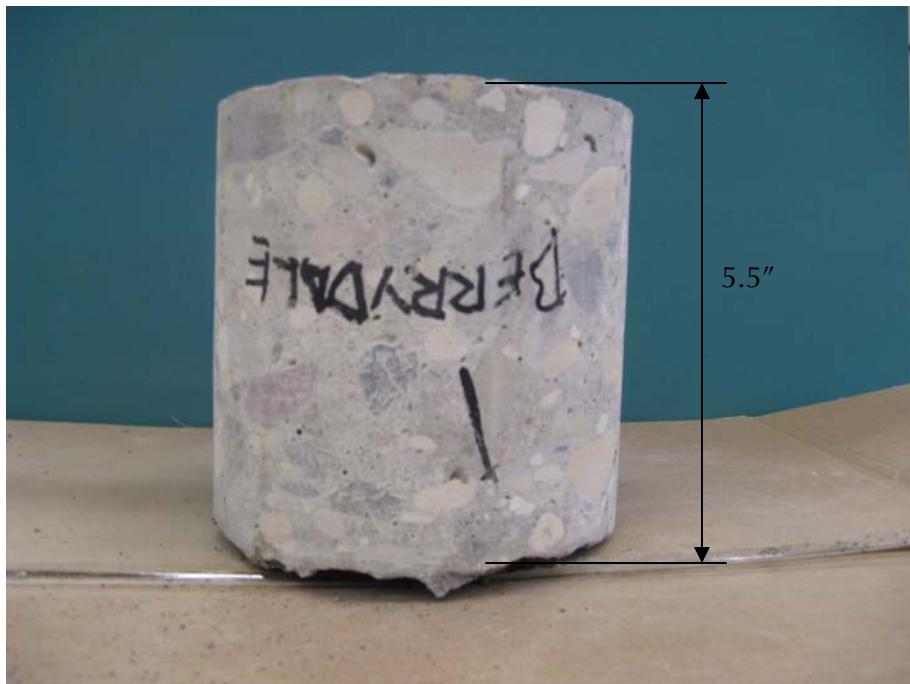
Sheet: 1 of 1

PROJECT:

2010 STREET RENEWAL

STREET:

BERRYDALE AVENUE BET. ST. MARY'S RD. AND ST. DAVID RD.
CORE SAMPLES FROM ST. DAVID RD. TO ST. MARY'S RD.

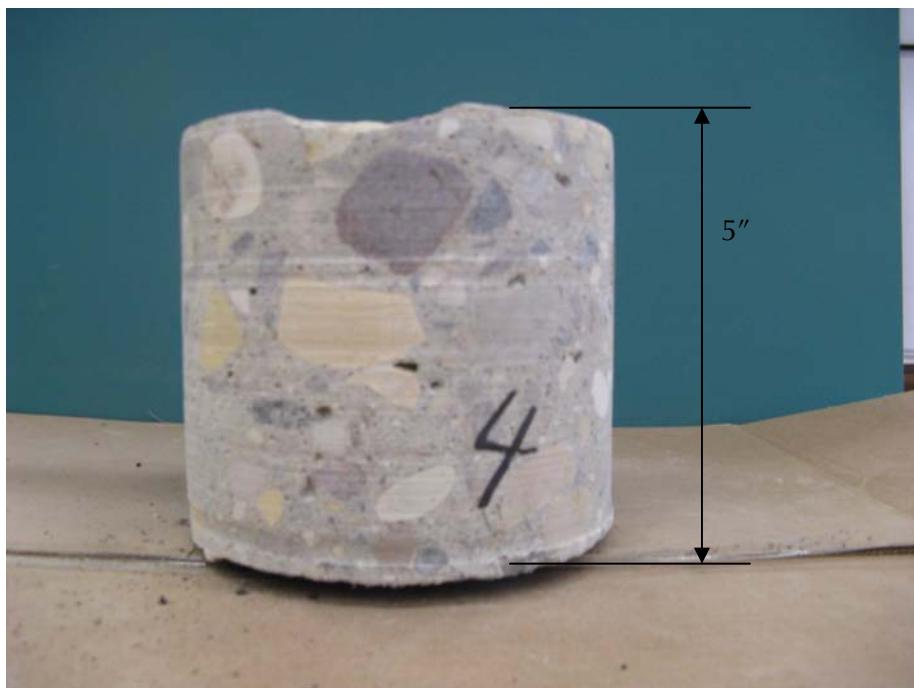


PROJECT:

2010 STREET RENEWAL

STREET:

BERRYDALE AVENUE BET. ST. MARY'S RD. AND ST. DAVID RD.
CORE SAMPLES FROM ST. DAVID RD. TO ST. MARY'S RD.

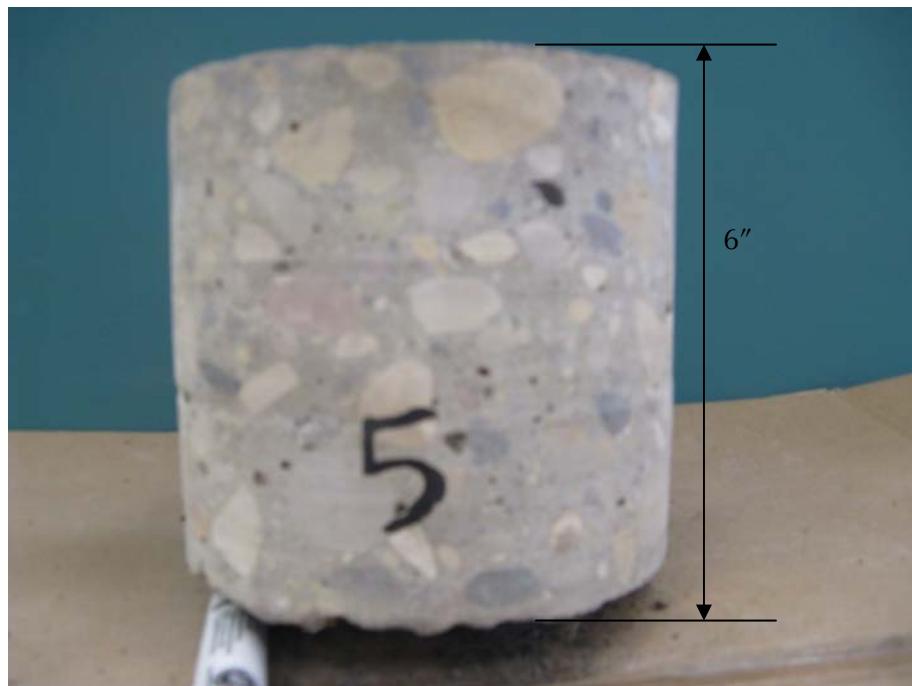


PROJECT:

2010 STREET RENEWAL

STREET:

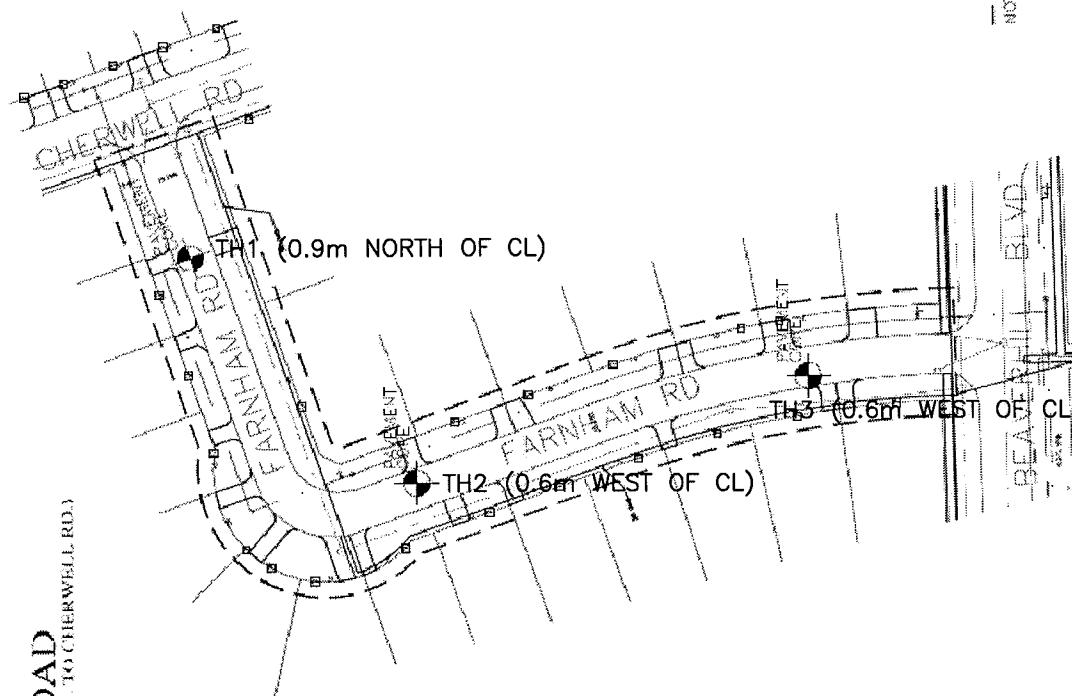
BERRYDALE AVENUE BET. ST. MARY'S RD. AND ST. DAVID RD.
CORE SAMPLES FROM ST. DAVID RD. TO ST. MARY'S RD.



Farnham Road
Beaverhill Boulevard to Cherwell Road



FARNHAM ROAD
(FROM BLAVERHILL BLVD. TO CHERWELL RD.)



NOTE: - = LIMITS OF SITE
- = TYPICAL DISTANCE BETWEEN PAVEMENT SPACES 75.0m TO 100.0m



GENIVAR

10 PRAIRIE WAY
WINNIPEG, MB R2J 3J8
Tel: (204)477-6650
Fax: (204)474-2864

CITY OF WINNIPEG
2010 STREET RENEWAL
TESTHOLE LOCATIONS
FARNHAM ROAD

DATE: (YY/MM/DD)	10/04/23
APPROVED:	SSU
DRAWN BY:	AO
PROJ. NO.	DWG. NO. WE09 151 GEO-3



GENIVAR

Project No: WE-09-151-00-WE

TH1

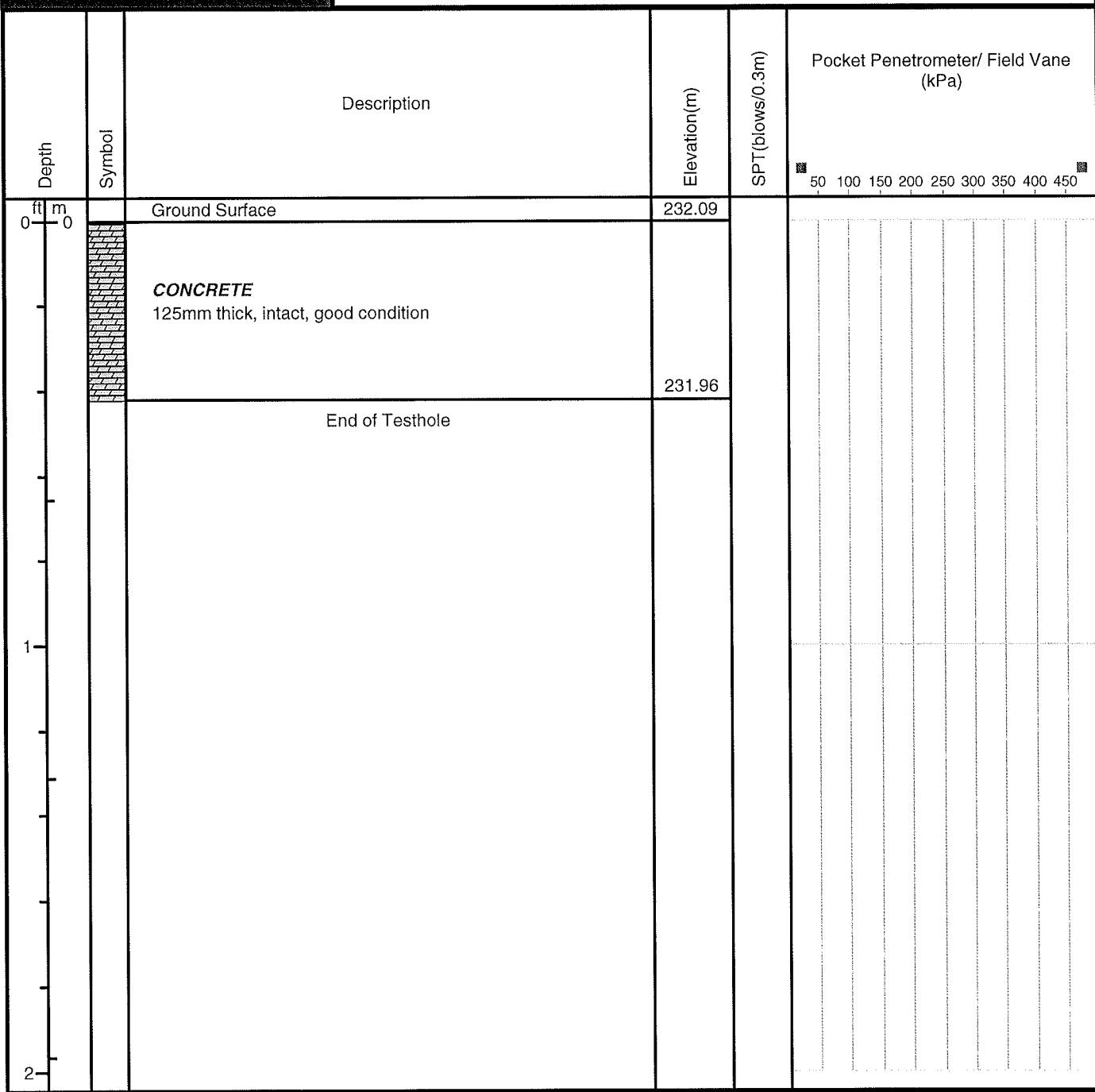
Project: 2010 Street Renewal

Client: City of Winnipeg

Logged: AO

Location: Farnham Rd. (Cherwell - Beaverhill)

Engineer: S.S.U



Drill Method: Truck Mounted Core Drill

Drill Date: 12/23/09

Hole Size: 150 mm

GENIVAR
10 Prairie Street
Winnipeg, Manitoba
R2J 3J8

Elevation: 232.09m

Checked by: S.S.U.



Project No: WE-09-151-00-WE

TH2

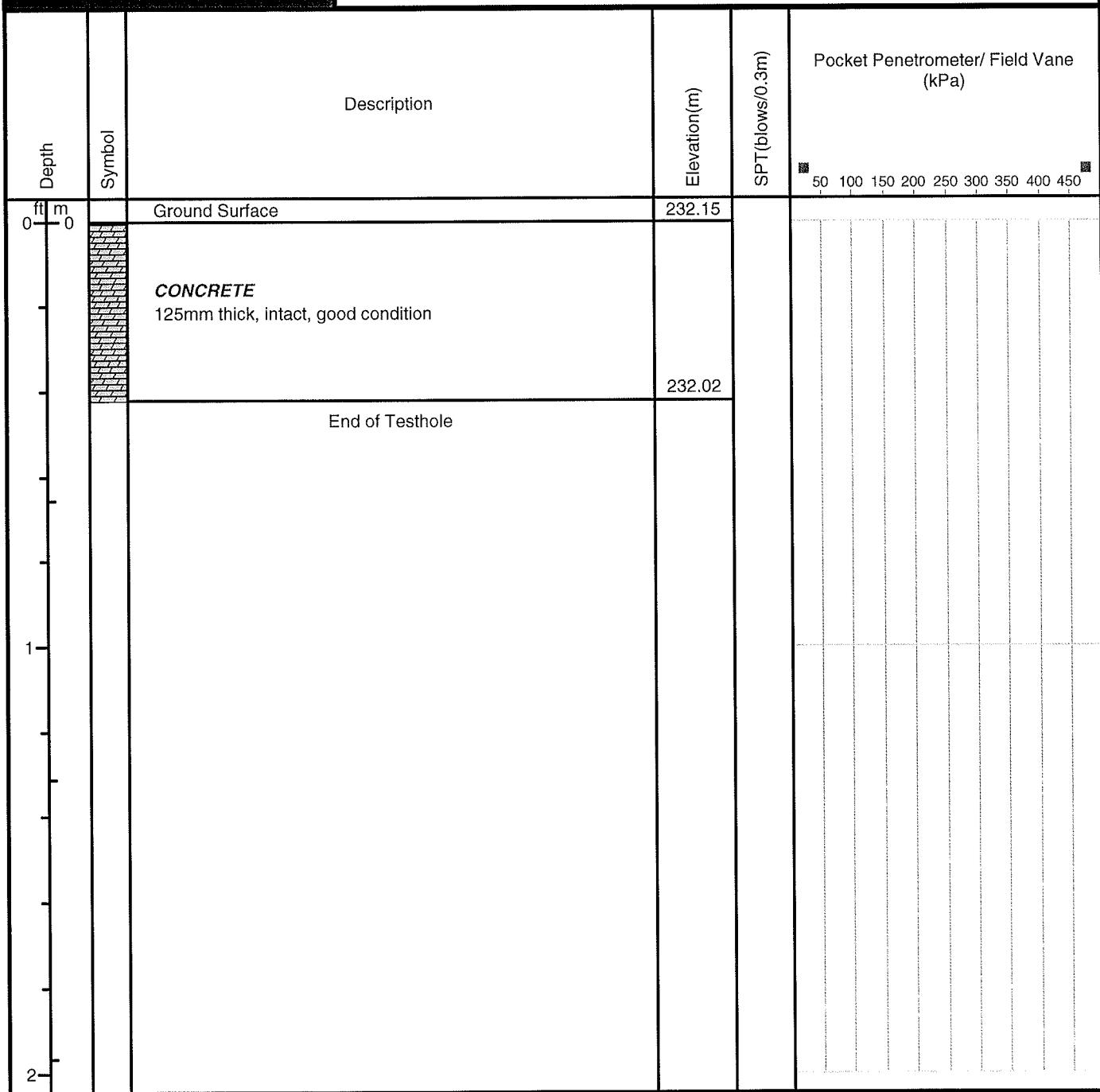
Project: 2010 Street Renewal

Client: City of Winnipeg

Logged: AO

Location: Farnham Rd. (Cherwell - Beaverhill)

Engineer: S.S.U



Drill Method: Truck Mounted Core Drill

Drill Date: 12/23/09

Hole Size: 150 mm

GENIVAR
10 Prairie Street
Winnipeg, Manitoba
R2J 3J8

Elevation: 232.15m

Checked by: S.S.U.



Project No: WE-09-151-00-WE

TH3

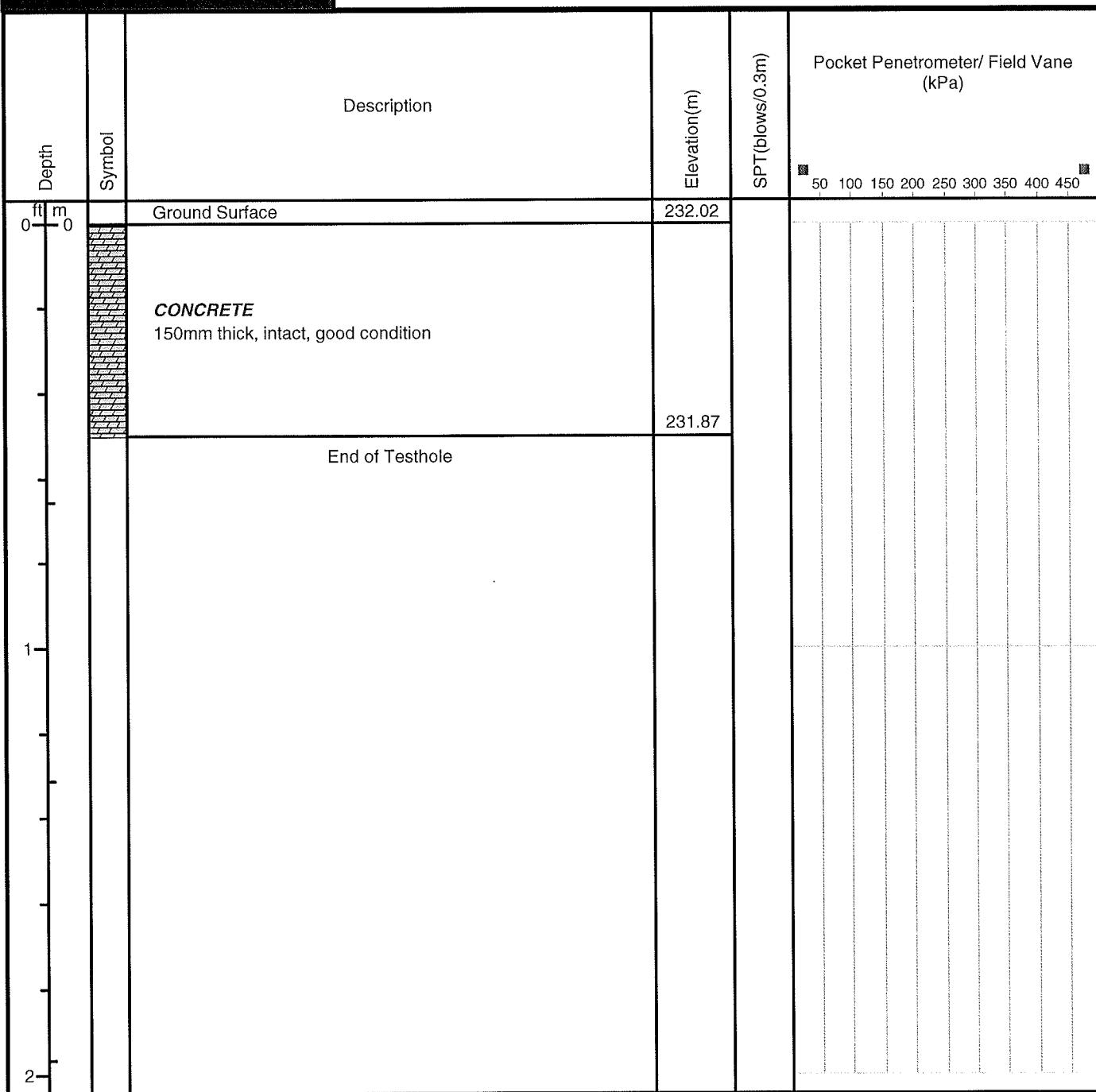
Project: 2010 Street Renewal

Client: City of Winnipeg

Logged: AO

Location: Farnham Rd. (Cherwell - Beaverhill)

Engineer: S.S.U



Drill Method: Truck Mounted Core Drill

Drill Date: 12/23/09

Hole Size: 150 mm

GENIVAR
10 Prairie Street
Winnipeg, Manitoba
R2J 3J8

Elevation: 232.02m

Checked by: S.S.U.

PROJECT:

2010 STREET RENEWAL

STREET:

FARNHAM ROAD

CORE SAMPLES FROM CHERWELL ROAD TO BEAVERHILL BLVD.

