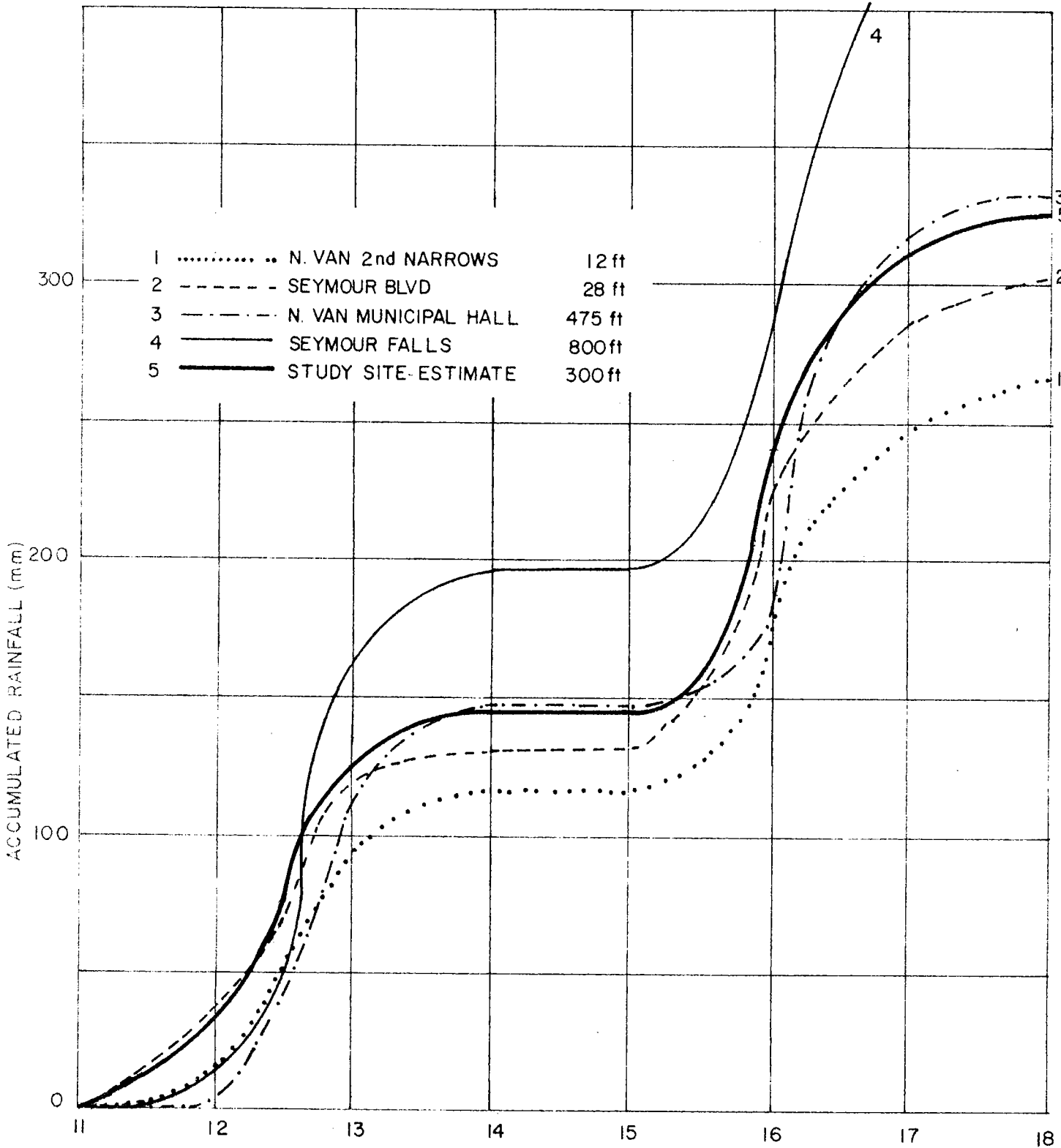


List of Drawings to Accompany Klohn Leonoff Report – November 1980

- D-2670-1 Survey of property conditions with respect to slope stability
**available for viewing in Clerk's Department at Municipal Hall*
- D-2670-2 Survey of properties connected to storm sewers
**available for viewing in Clerk's Department at Municipal Hall*
- A-2670-3 Mass Curves of Accumulated Rainfall
- A-2670-4 Intensity-Duration-Frequency curves at site
- A-2670-5 Cumulative Rainfall for 5 day Extreme Storms
- B-2670-6 Plan – 1305 & 1345 Lennox Street
- B-2670-7 Section – 1305 Lennox Street
- B-2670-8 Section – 1345 Lennox Street
- B-2670-9 Plan – 1425 Lennox Street
- B-2670-10 Section – 1425 Lennox Street
- B-2670-11 Plan – 1691, 1709 & 1753 Layton Drive
- B-2670-12 Section – 1691 Layton Drive
- B-2670-13 Section – 1709 Layton Drive
- B-2670-14 Section – 1753 Layton Drive
- B-2670-15 Plan – 2391, 2379 & 2360 Carman Place
- B-2670-16 Section – 2391 Carman Place
- B-2670-17 Section – 2379 Carman Place
- B-2670-18 Section – 2360 Carman Place
- B-2670-19 Plan – 2205, 2217 & 2223 Berkley Avenue
- B-2670-20 Sections – 2205 & 2217 Berkley Avenue
- B-2670-21 Section – 2223 Berkley Avenue



DECEMBER, 1979

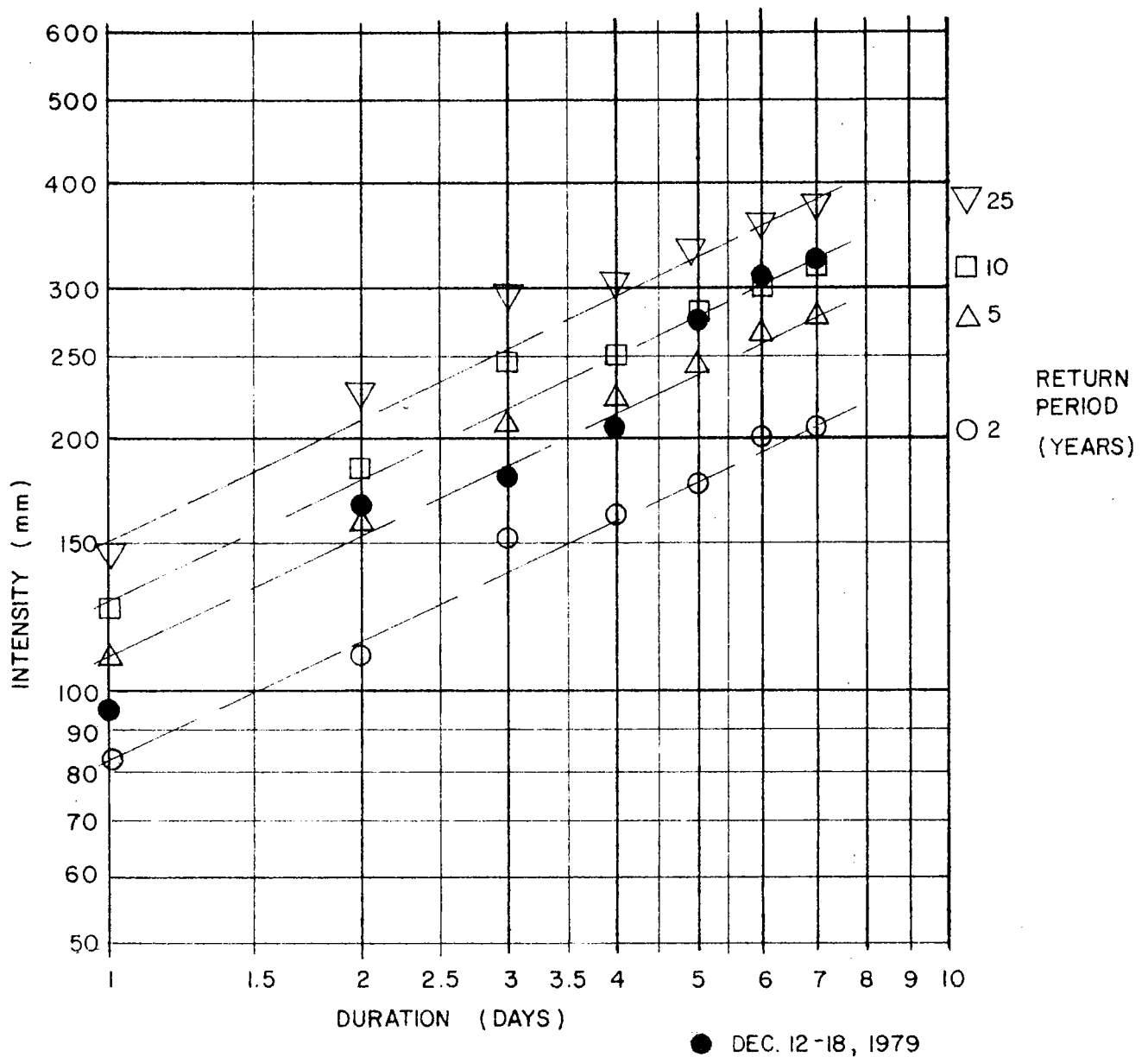
IN CONNECTION WITH OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED TO OUR CLIENT FOR GENERAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR REPRODUCTION OF DATA, STATEMENTS, CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS WITHOUT REFERRING OUR WRITTEN APPROVAL.



KLOHN LEONOFF LTD.
CONSULTING ENGINEERS

PROJECT				BERKLEY/RIVERSIDE SLIDE AREA STUDY			
TITLE				MASS CURVES OF ACCUMULATED RAINFALL			
DATE OF ISSUE		PROJECT No.		DWG. No.		REV.	
NOV. 3, 1980		VA 2670		A-2670-3			
APPROVED							

CLIENT: THE CORPORATION OF THE DISTRICT OF NORTH VANCOUVER



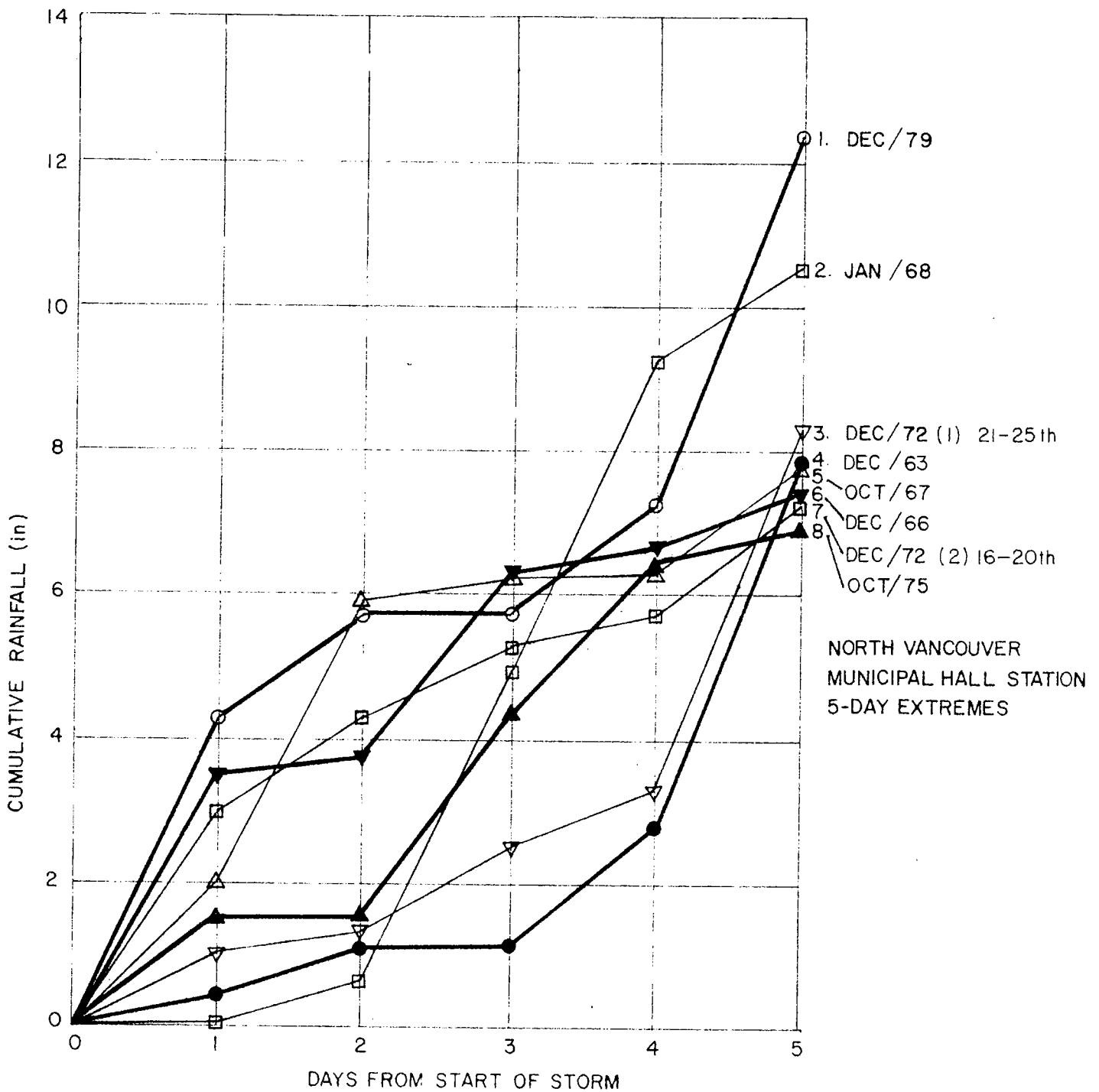
RAINFALL
INTENSITY-DURATION-FREQUENCY
AT STUDY AREA
(GENERATED FROM 3 STATIONS)

AS A MUTUAL PROTECTION TO OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION OF DATA, STATEMENTS, CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS IS RESERVED PENDING OUR WRITTEN APPROVAL.



KLOHN LEONOFF LTD.
CONSULTING ENGINEERS

PROJECT BERKLEY/RIVERSIDE SLIDE AREA STUDY			
TITLE INTENSITY-DURATION-FREQUENCY CURVES AT SITE			
CLIENT: THE CORPORATION OF THE DISTRICT OF NORTH VANCOUVER	DATE OF ISSUE NOV. 3, 1980	PROJECT No. VA 2670	OWG. No. A-2670-4
APPROVED			REV.



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KLOHN LEONOFF LTD.
CONSULTING ENGINEERS

PROJECT BERKLEY/RIVERSIDE SLIDE AREA STUDY

TITLE CUMULATIVE RAINFALL FOR 5-DAY EXTREME STORMS

CLIENT: THE CORPORATION OF THE DISTRICT OF NORTH VANCOUVER

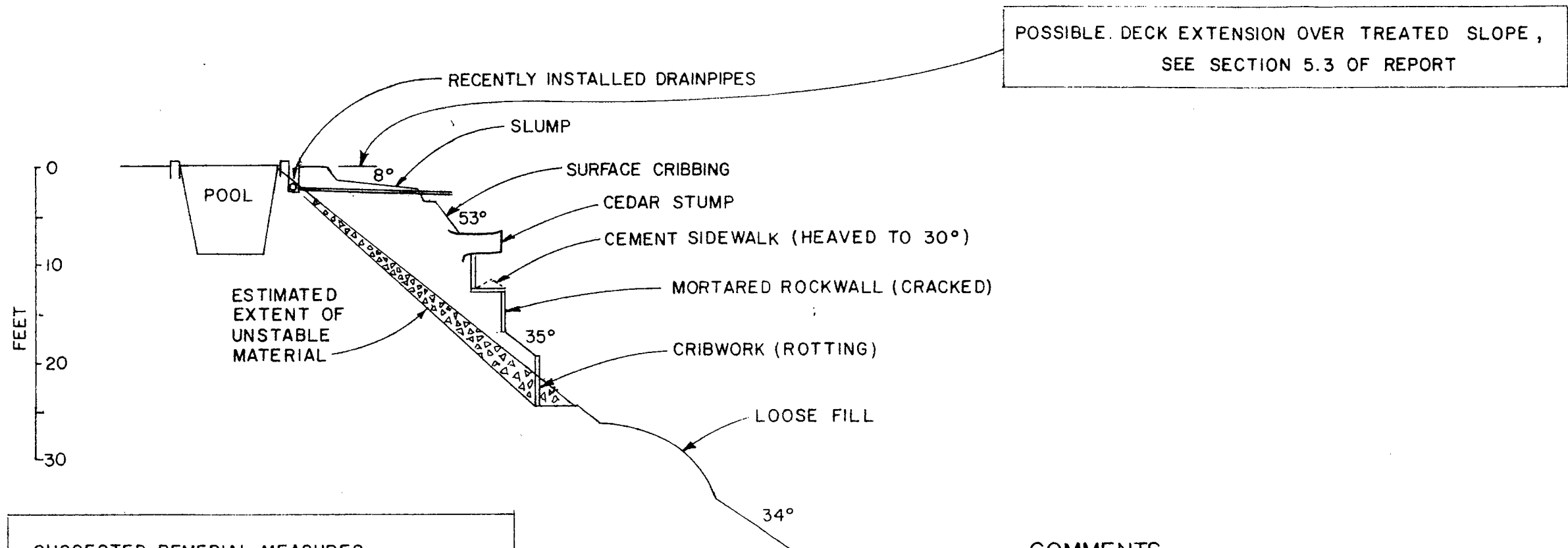
DATE OF ISSUE NOV. 3, 1980
APPROVED

PROJECT NO. VA 2670

DWG. No. A-2670-5

REV.

1305 LENNOX



POSSIBLE DECK EXTENSION OVER TREATED SLOPE, SEE SECTION 5.3 OF REPORT

SUGGESTED REMEDIAL MEASURES

- REMOVE UNSTABLE MATERIAL
- VEGETATE CUT SLOPE OR
- COVER EXPOSED SLOPE WITH BLANKET OF VERY ANGULAR FREE-DRAINING ROCKFILL


TREATMENT SCOPE WOULD DEPEND ON MATERIALS EXPOSED

COMMENTS

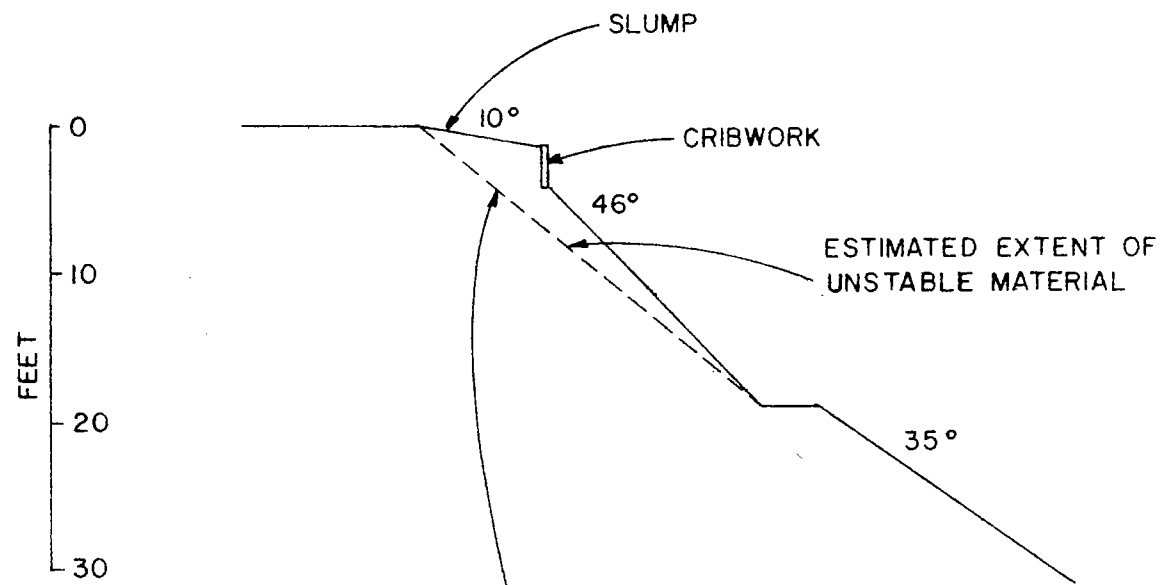
1. STEEP SLOPE
2. HISTORY OF SLUMPING
3. DRAINAGE OVER SLOPE, INCLUDING POOL DRAIN
4. REMEDIAL WORK INITIATED BY OWNER

TO BE READ WITH KLOHN LEONOFF REPORT DATED NOV. 3 1980

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 KLOHN LEONOFF LTD. CONSULTING ENGINEERS	PROJECT BERKLEY/RIVERSIDE SLIDE AREA STUDY		
	TITLE SECTION - 1305 LENNOX STREET		
CLIENT: DISTRICT OF NORTH VANCOUVER	DATE OF ISSUE NOV. 3 1980 <i>[Signature]</i>	PROJECT No. VA 2670	DWG. No. B-2670-7

1345 LENNOX




- POSSIBLE REMEDIAL MEASURES
- REMOVE UNSTABLE MATERIAL
 - VEGETATE CUT SLOPE OR
 - COVER WITH BLANKET OF VERY ANGULAR FREE-DRAINING ROCKFILL

COMMENTS

1. STEEP SLOPE
2. HISTORY OF SETTLEMENT AND SLUMPING
3. DRAINAGE OVER SLOPE

TO BE READ WITH KLOHN LEONOFF REPORT DATED NOV. 3 1980

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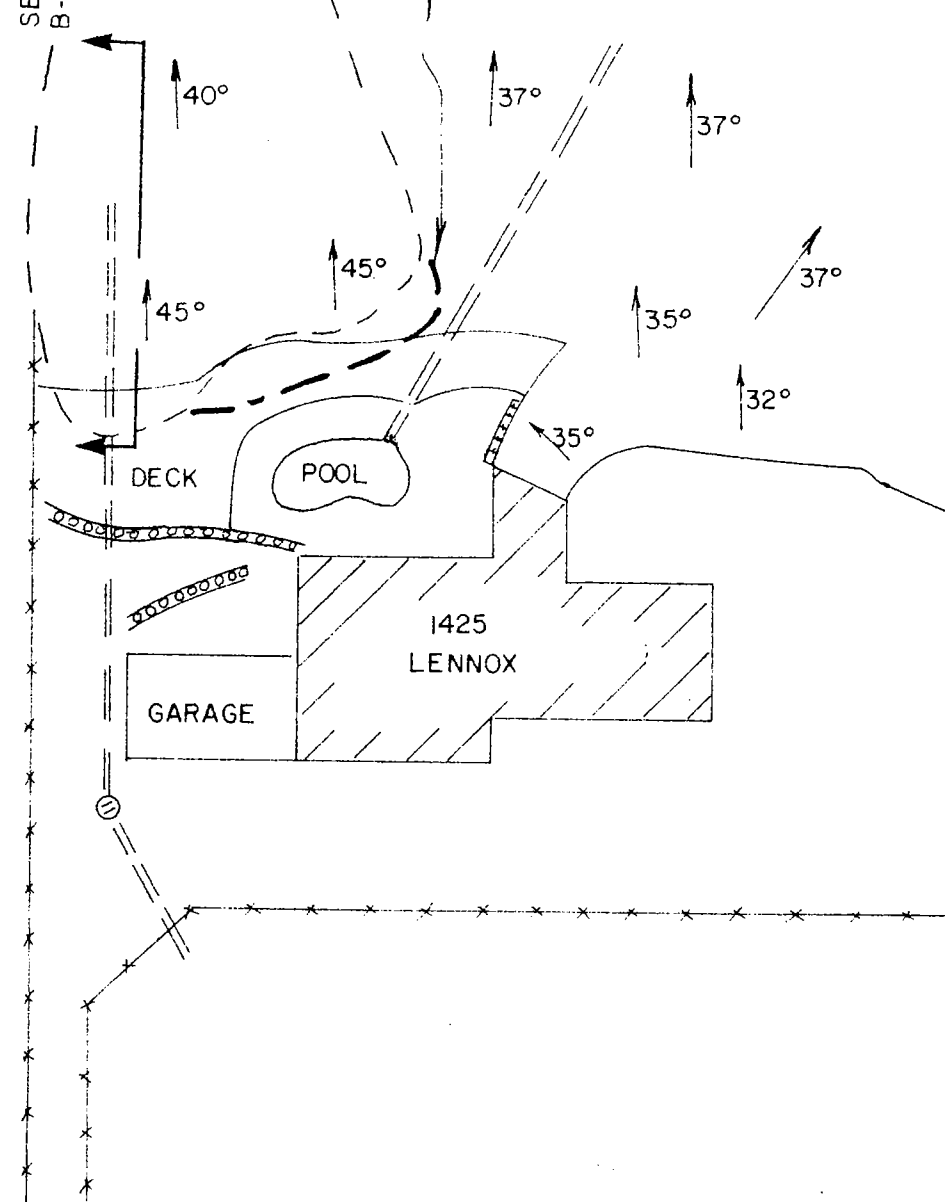
 <p>KLOHN LEONOFF LTD. CONSULTING ENGINEERS</p>	PROJECT BERKLEY/RIVERSIDE SLIDE AREA STUDY		
	TITLE SECTION - 1345 LENNOX STREET		
CLIENT: DISTRICT OF NORTH VANCOUVER	DATE OF ISSUE NOV 3 1980 APPROVED <i>H. Stuart</i>	PROJECT No. VA 2670	DWG. No. B-2670-8

1425 LENNOX



SEE DWG.
B-2670-10

ESTIMATED TOP OF CUT
OF UNSTABLE MATERIAL



LEGEND

- EXTENT OF 1972 SLIDE
- x-x-x- FENCE
- oooooo ROCKWALL
- ||||| CRIBWALL
- == == DRAINPIPE

NOT TO SCALE

TO BE READ WITH KLOHN LEONOFF REPORT DATED Nov. 3, 1980



KLOHN LEONOFF LTD.
CONSULTING ENGINEERS

CLIENT:

DISTRICT OF NORTH VANCOUVER

PROJECT
BERKLEY/RIVERSIDE SLIDE AREA STUDY

TITLE
PLAN-1425 LENNOX STREET

DATE OF ISSUE
Nov. 3, 1980

PROJECT NO
VA-2670

DWG. NO.
B-2670-9

REV.

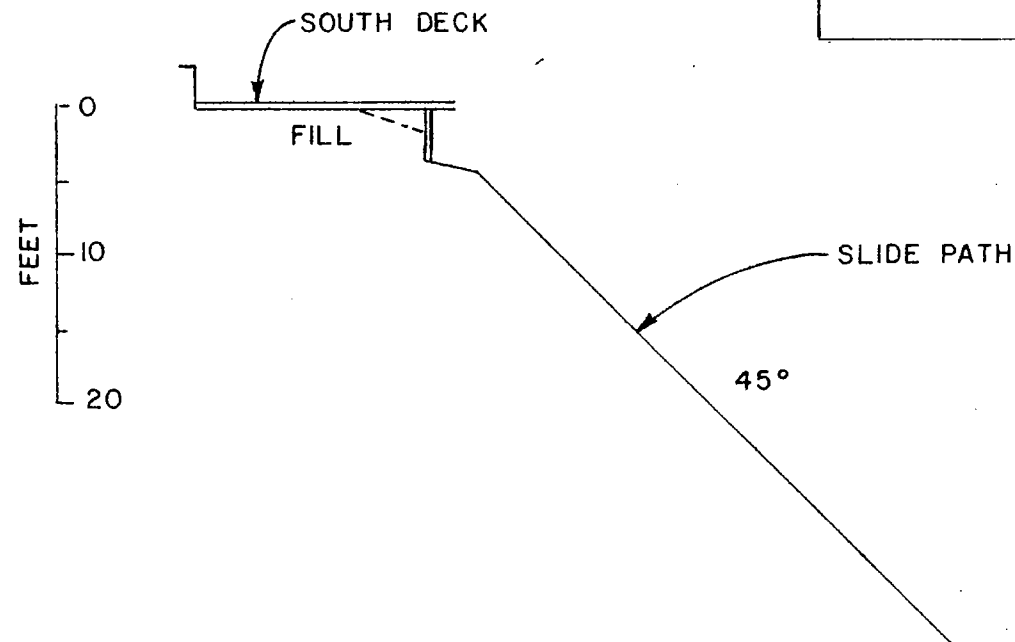
APPROVED
[Signature]

Scale: 1" = 10' (Horizontal)
1" = 20' (Vertical)
This drawing is a plan view of the slide area and is not to scale. The slide area is shown as a dashed line. The fence is shown as a line with 'x' marks. The rockwall is shown as a line with 'o' marks. The cribwall is shown as a line with vertical bars. The drainpipe is shown as a line with double bars. The house is shown as a hatched area. The deck and pool are shown as solid areas. The slope angles are shown as arrows with degrees. The north arrow is shown as a circle with 'Z'.

1425 LENNOX

POSSIBLE REMEDIAL MEASURES

- REMOVE UNSTABLE MATERIAL IN AREAS ADJOINING SLIDE
- VEGETATE CUT SLOPE OR
- COVER WITH BLANKET OF VERY ANGULAR FREE-DRAINING ROCKFILL



TO BE READ WITH KLOHN LEONOFF REPORT DATED NOV. 3 1980

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KLOHN LEONOFF LTD.
CONSULTING ENGINEERS

CLIENT: DISTRICT OF NORTH VANCOUVER

PROJECT BERKLEY/RIVERSIDE SLIDE AREA STUDY			
TITLE SECTION - 1425 LENNOX STREET			
DATE OF ISSUE NOV. 3 1980	PROJECT No. VA 2670	DWG. No. B-2670-10	REV.
APPROVED <i>[Signature]</i>			

1691, 1709 & 1753 LAYTON




LEGEND

- FENCE
- SLUMP SCARPS
- - - - - EXTENT OF SLUMPING

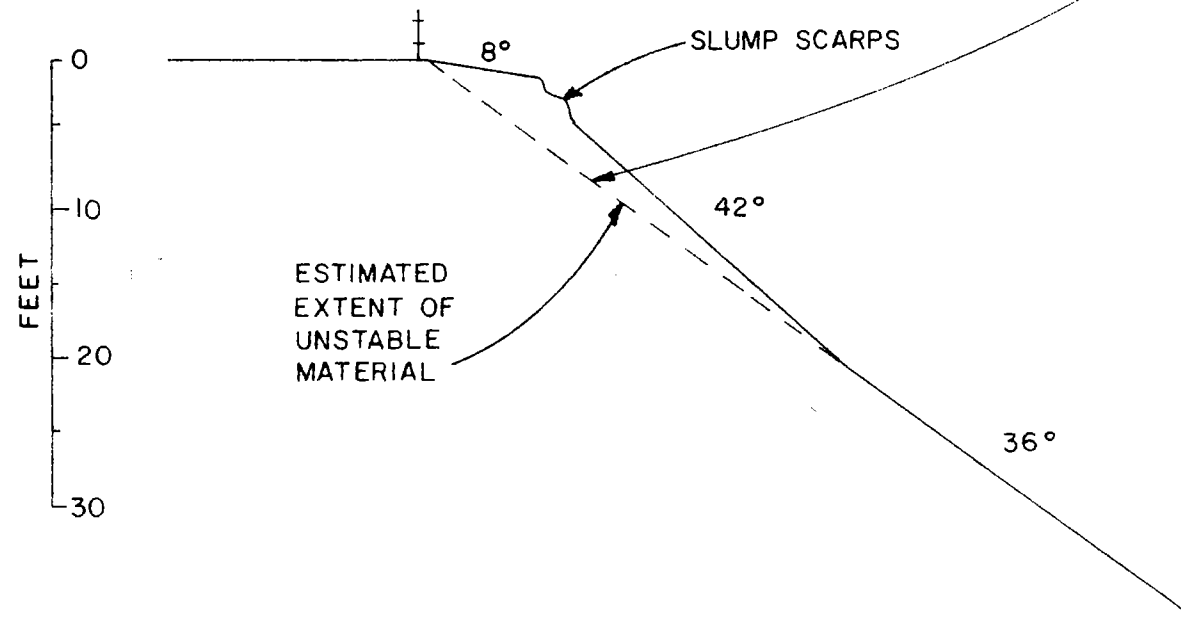
NOT TO SCALE

TO BE READ WITH KLOHN LEONOFF REPORT DATED Nov. 3, 1980

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 KLOHN LEONOFF LTD. CONSULTING ENGINEERS	PROJECT BERKLEY / RIVERSIDE SLIDE AREA STUDY			
	TITLE PLAN 1691, 1709 & 1753 LAYTON DRIVE			
CLIENT: DISTRICT OF NORTH VANCOUVER	DATE OF ISSUE Nov. 3, 1980	PROJECT No VA-2670	DWG. No. B-2670-11	REV.

1691 LAYTON



- POSSIBLE REMEDIAL MEASURES
- REMOVE UNSTABLE MATERIAL
 - VEGETATE CUT SLOPE OR
 - COVER WITH BLANKET OF VERY ANGULAR FREE-DRAINING ROCKFILL

COMMENTS

1. STEEP SLOPE
2. HISTORY OF SLUMPING AND CRACKING
3. SLOPE CONSISTS OF LOOSE, SANDY SOIL WITH EXTENSIVE DEBRIS SUCH AS STUMPS AND LOGS
4. DRAINAGE TO STORM SEWER SYSTEM, NATURAL DRAINAGE OVER SLOPE

TO BE READ WITH KLOHN LEONOFF REPORT DATED NOV. 3 1980

AS A MUTUAL PROTECTION FOR OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION OF DATA, STATEMENTS, CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS IS RESERVED PENDING OUR WRITTEN APPROVAL.

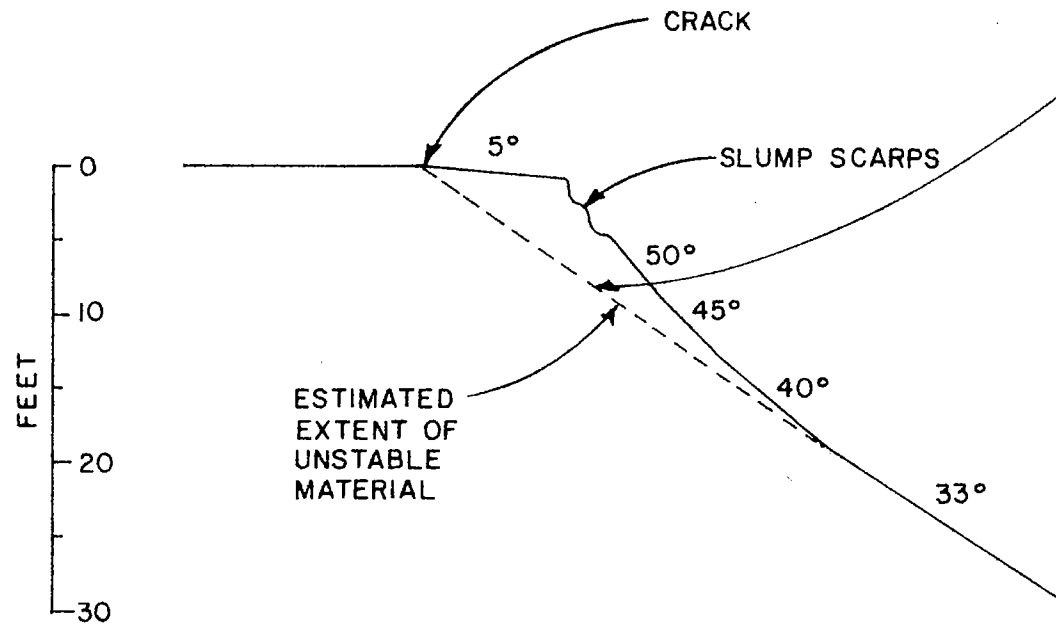


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CLIENT: DISTRICT OF NORTH VANCOUVER

PROJECT BERKLEY/RIVERSIDE SLIDE AREA STUDY			
TITLE SECTION - 1691 LAYTON DRIVE			
DATE OF ISSUE NOV. 3 1980	PROJECT NO. VA 2670	DWG. No B-2670-12	REV.
APPROVED <i>H. Stewart</i>			

1709 LAYTON



POSSIBLE REMEDIAL MEASURES

- REMOVE UNSTABLE MATERIAL
- VEGETATE CUT SLOPE OR
- COVER WITH BLANKET OF VERY ANGULAR FREE-DRAINING ROCKFILL

COMMENTS

1. STEEP SLOPE
2. HISTORY OF SETTLEMENT AND SLUMPING
3. DRAINAGE TO STORM SEWER SYSTEM

TO BE READ WITH KLOHN LEONOFF REPORT DATED NOV. 3 1980

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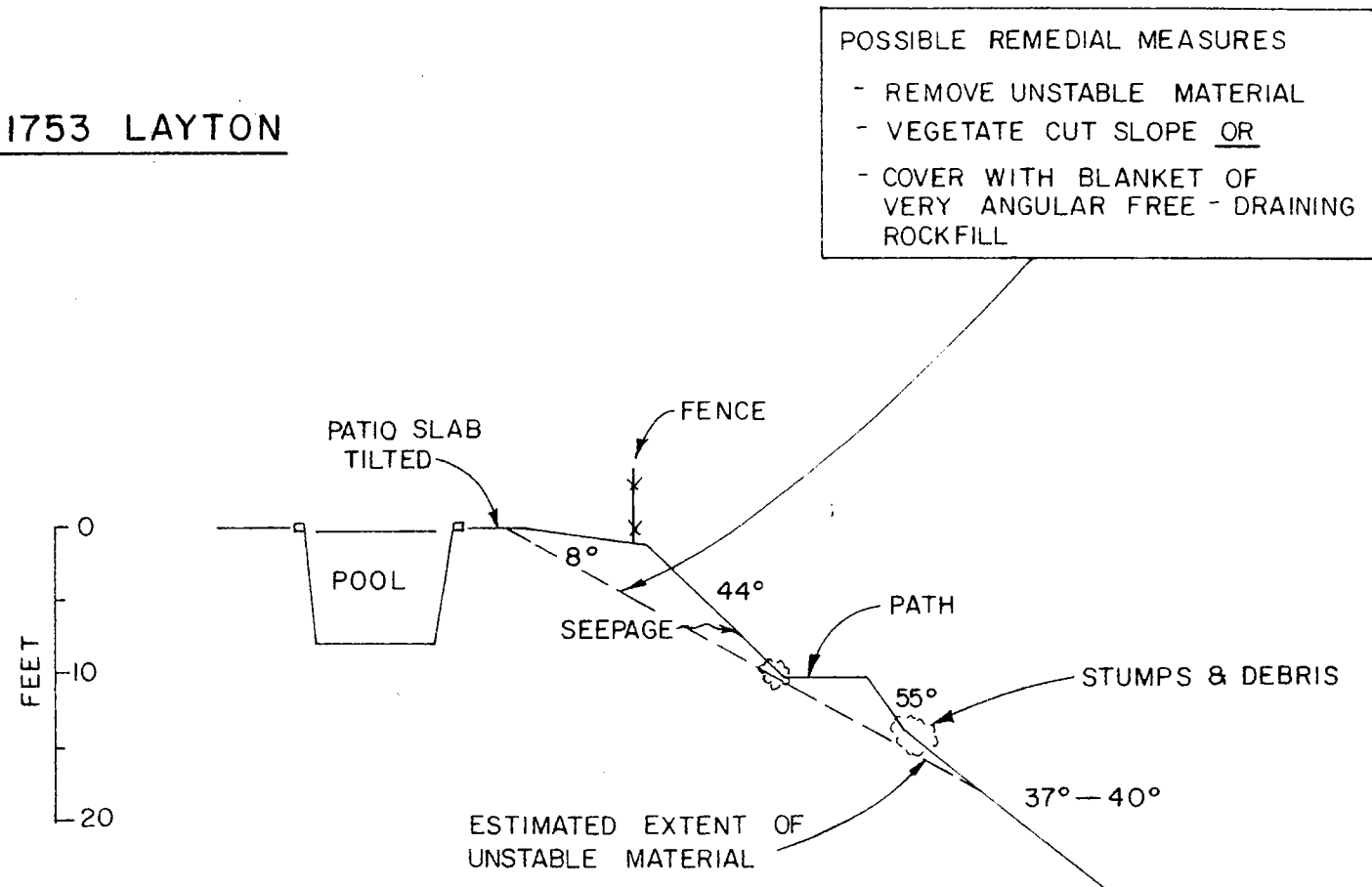
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CONSULTING ENGINEERS

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DISTRICT OF NORTH VANCOUVER


PROJECT BERKLEY/RIVERSIDE SLIDE AREA STUDY			
TITLE SECTION - 1709 LAYTON DRIVE			
DATE OF ISSUE NOV. 3 1980	PROJECT No. VA2670	DWG. No. B-2670-13	REV.
APPROVED <i>[Signature]</i>			

1753 LAYTON

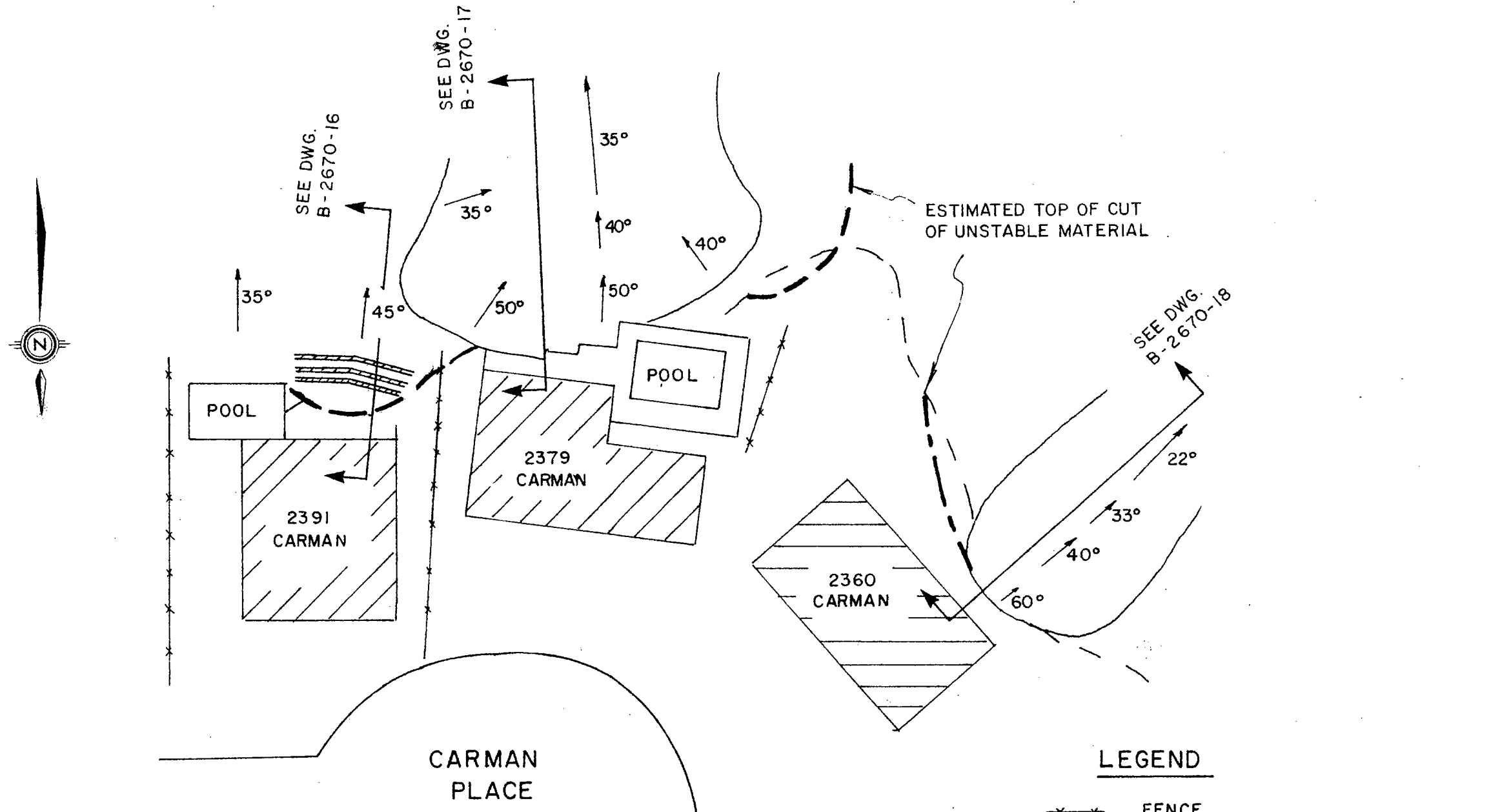


TO BE READ WITH KLOHN LEONOFF REPORT DATED NOV. 3 1980

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 <p>KLOHN LEONOFF LTD. CONSULTING ENGINEERS</p>	PROJECT BERKLEY/RIVERSIDE SLIDE AREA STUDY			
	TITLE SECTION - 1753 LAYTON DRIVE			
CLIENT: DISTRICT OF NORTH VANCOUVER	DATE OF ISSUE NOV. 3 1980 APPROVED <i>[Signature]</i>	PROJECT No. VA 2670	DWG. No. B-2670-14	REV.

2391, 2379 & 2360 CARMAN




LEGEND

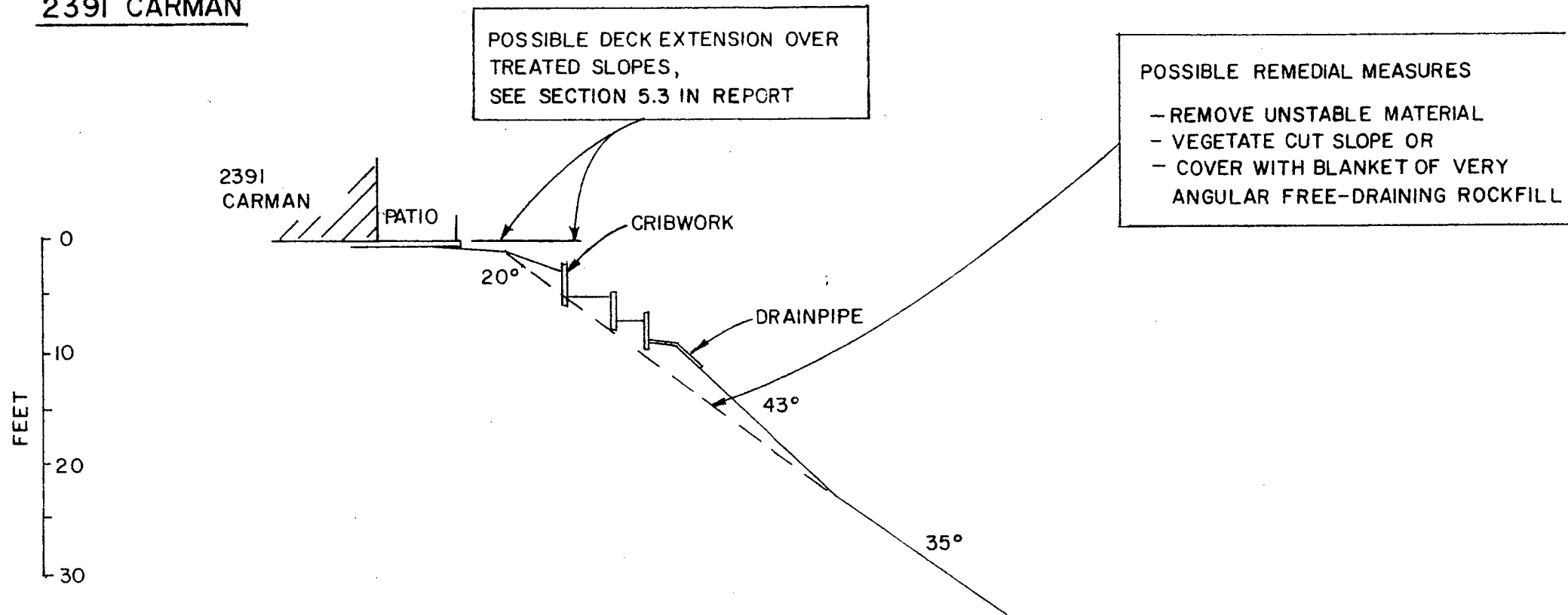
- x—x— FENCE
 - - - - - APPROXIMATE SLOPE CREST
 - ==== CRIBWORK
- NOT TO SCALE

TO BE READ WITH KLOHN LEONOFF REPORT DATED NOV. 3, 1980

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 KLOHN LEONOFF LTD. CONSULTING ENGINEERS	PROJECT BERKLEY/RIVERSIDE SLIDE AREA STUDY			
	TITLE PLAN 2391, 2379 & 2360 CARMAN PLACE			
CLIENT: DISTRICT OF NORTH VANCOUVER	DATE OF ISSUE Nov. 3, 1980 APPROVED <i>[Signature]</i>	PROJECT No. VA-2670	DWG. No. B-2670-15	REV.

2391 CARMAN



TO BE READ WITH KLOHN LEONOFF REPORT DATED NOV. 3 1980

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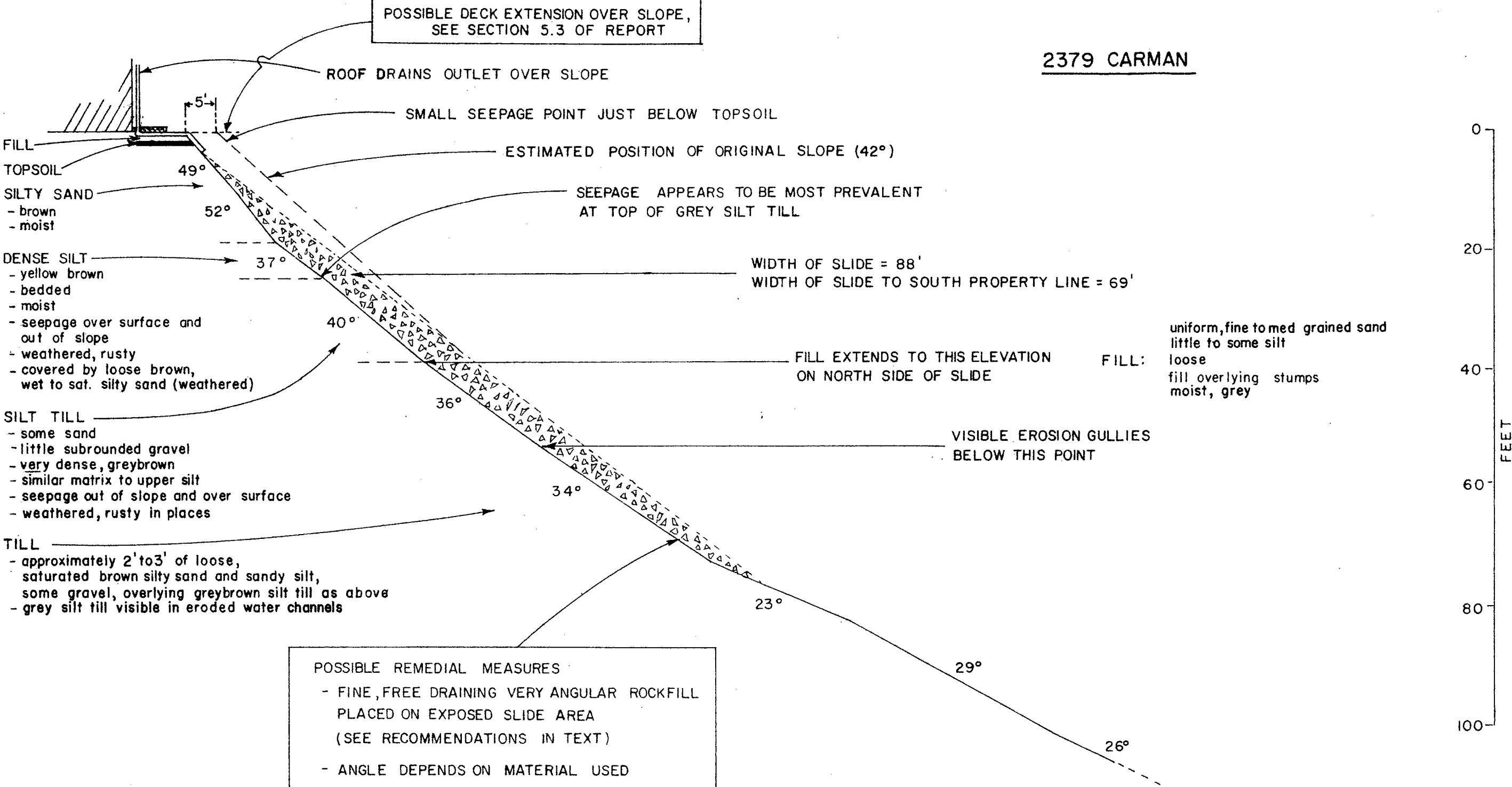


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CLIENT:
DISTRICT OF NORTH VANCOUVER

PROJECT BERKLEY RIVERSIDE SLIDE AREA STUDY			
TITLE SECTION - 2391 CARMAN PLACE			
DATE OF ISSUE NOV. 3 1980	PROJECT No. VA 2670	DWG. No. B-2670-16	REV.
APPROVED <i>[Signature]</i>			

2379 CARMAN



- FILL
- TOPSOIL
- SILTY SAND
 - brown
 - moist
- DENSE SILT
 - yellow brown
 - bedded
 - moist
 - seepage over surface and out of slope
 - weathered, rusty
 - covered by loose brown, wet to sat. silty sand (weathered)
- SILT TILL
 - some sand
 - little subrounded gravel
 - very dense, greybrown
 - similar matrix to upper silt
 - seepage out of slope and over surface
 - weathered, rusty in places
- TILL
 - approximately 2' to 3' of loose, saturated brown silty sand and sandy silt, some gravel, overlying greybrown silt till as above
 - grey silt till visible in eroded water channels

FILL: uniform, fine to med grained sand little to some silt
 loose
 fill overlying stumps
 moist, grey

POSSIBLE REMEDIAL MEASURES

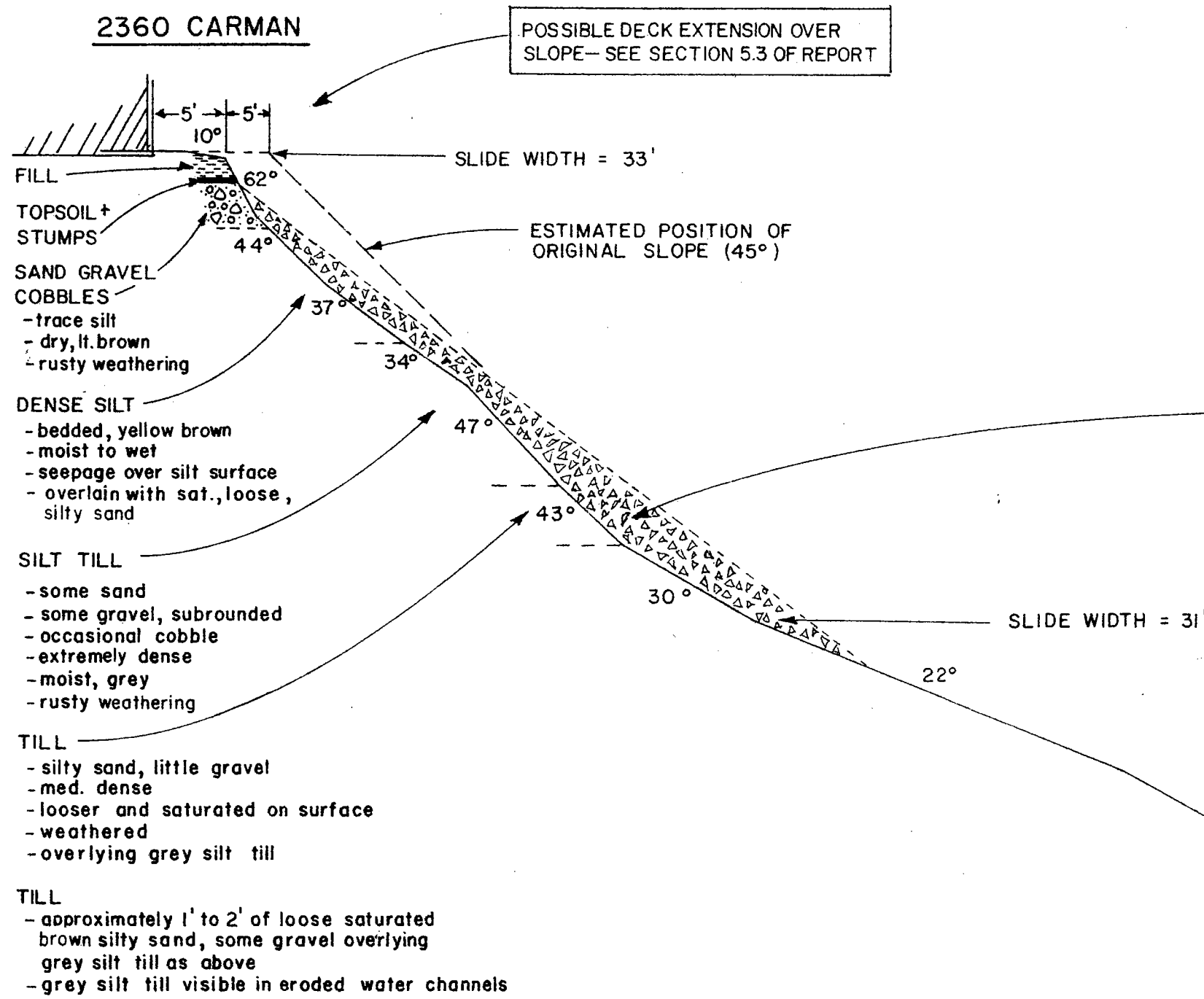
- FINE, FREE DRAINING VERY ANGULAR ROCKFILL PLACED ON EXPOSED SLIDE AREA (SEE RECOMMENDATIONS IN TEXT)
- ANGLE DEPENDS ON MATERIAL USED

TO BE READ WITH KLOHN LEONOFF REPORT DATED NOV. 3 1980

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	PROJECT BERKLEY/RIVERSIDE SLIDE AREA STUDY			
	TITLE SECTION - 2379 CARMAN PLACE			
CLIENT: DISTRICT OF NORTH VANCOUVER	DATE OF ISSUE NOV. 3 1980 APPROVED <i>[Signature]</i>	PROJECT No. VA 2670	DWG. No. B-2670-17	REV.

2360 CARMAN



NOTES

1. SLOPE ANGLES ARE SIMILAR TO 'NATURAL' SLOPE TO EITHER SIDE OF THE SLIDE, EXCEPT HEAD SCARP IS STEEPENED
2. DEPTH OF STRIPPED SOIL ~ 3.5 FEET AT SIDES OF SLIDE, INCREASING TO ~ 5 FEET AT MIDDLE OF SLIDE
3. ROOF & FOUNDATIONS DRAINED OVER SLOPE, DRAINPIPE RUNS ALONG NORTH BOUNDARY OF SLIDE ~ 25' DOWN THE SLOPE


POSSIBLE REMEDIAL MEASURES

- FINE, FREE DRAINING VERY ANGULAR ROCKFILL PLACED ON EXPOSED SLIDE AREA (SEE RECOMMENDATIONS IN TEXT)
- ANGLE DEPENDS ON MATERIAL USED

TILL
 - approximately 1' to 2' of loose saturated brown silty sand, some gravel overlying grey silt till as above
 - grey silt till visible in eroded water channels

TO BE READ WITH KLOHN LEONOFF REPORT DATED NOV. 3, 1980

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 <p>KLOHN LEONOFF LTD. CONSULTING ENGINEERS</p>	PROJECT BERKLEY/RIVERSIDE SLIDE AREA STUDY		
	TITLE SECTION-2360 CARMAN PLACE		
CLIENT: DISTRICT OF NORTH VANCOUVER	DATE OF ISSUE NOV. 3, 1980	PROJECT No. VA 2670	OWB. No. B-2670-18
	APPROVED: <i>[Signature]</i>		REV.

2205
BERKLEY

PROPERTY
LINE

2217
BERKLEY

FILL & STUMPS

FILL & STUMPS

FILL
& STUMPS

WIDTH OF SLIDE TO
PROPERTY LINE = 20'

SILT
- little sand
- lt. brown
- moist to wet
- saturated on surface

ESTIMATE OF POSITION
ORIGINAL SLOPE (@40°)

SECTION B

SECTION C

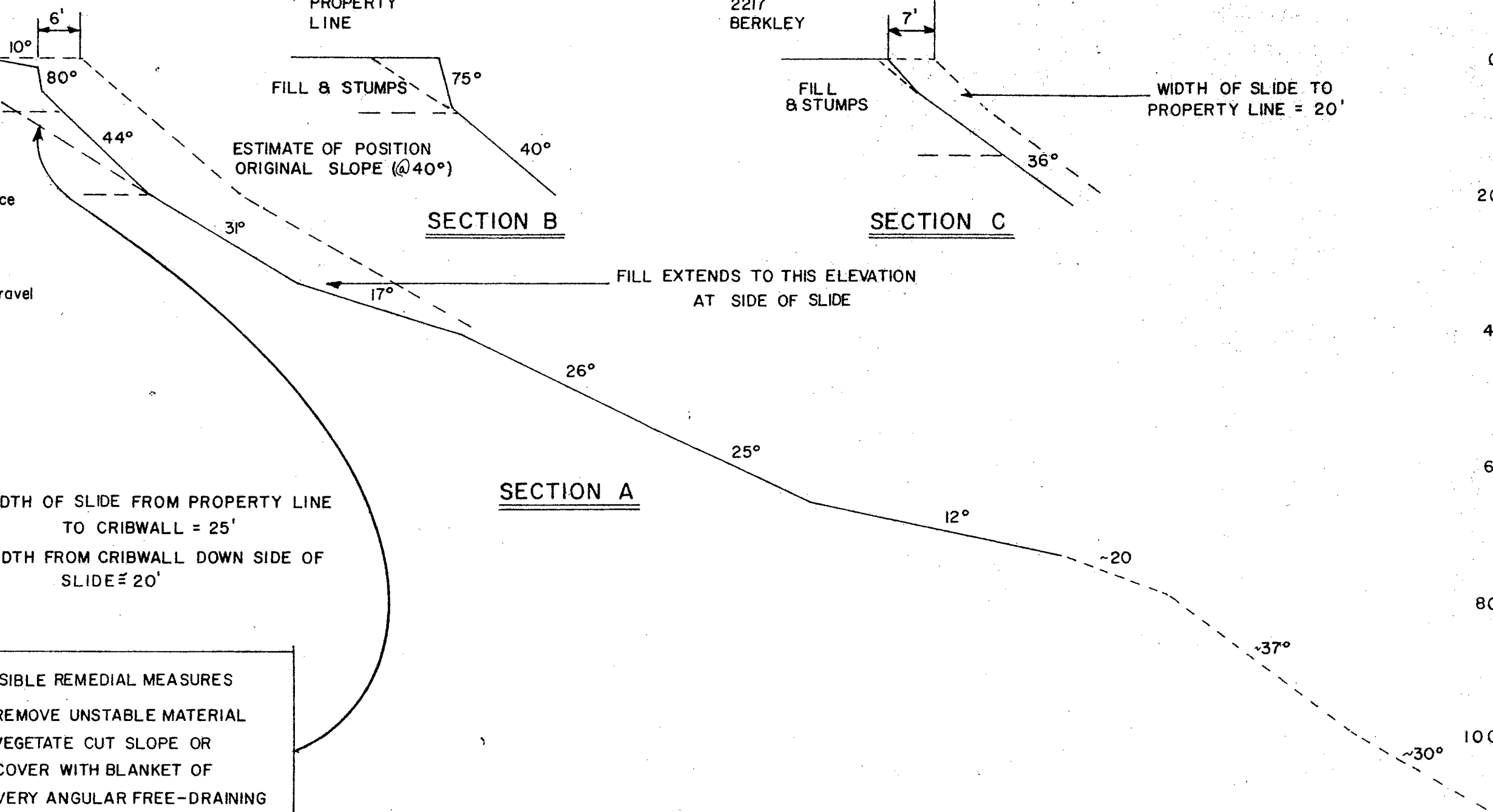
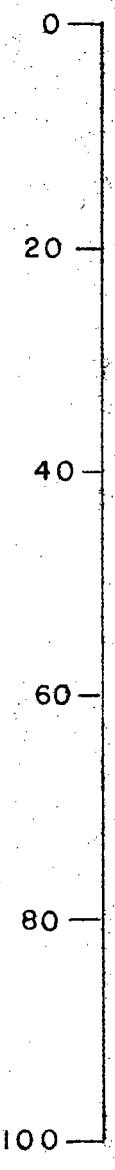
SILT
- some sand and gravel
- brown
- loose on surface
- saturated
- no visible till in
erosion gullies

FILL EXTENDS TO THIS ELEVATION
AT SIDE OF SLIDE

SECTION A

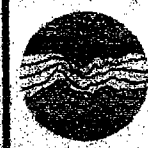
WIDTH OF SLIDE FROM PROPERTY LINE
TO CRIBWALL = 25'
WIDTH FROM CRIBWALL DOWN SIDE OF
SLIDE ≈ 20'

POSSIBLE REMEDIAL MEASURES
- REMOVE UNSTABLE MATERIAL
- VEGETATE CUT SLOPE OR
- COVER WITH BLANKET OF
VERY ANGULAR FREE-DRAINING
ROCKFILL



TO BE READ WITH KLOHN LEONOFF REPORT DATED NOV 3, 1980

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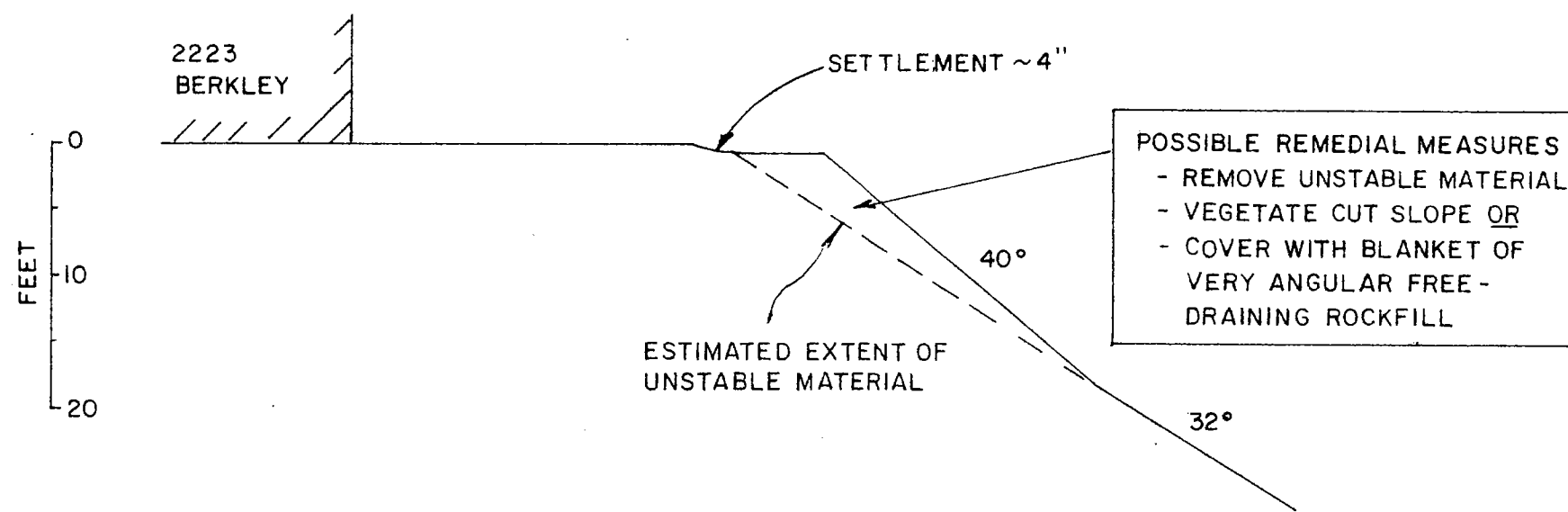


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CONSULTING ENGINEERS

CLIENT:
DISTRICT OF NORTH VANCOUVER

PROJECT BERKLEY RIVERSIDE SLIDE AREA STUDY			
TITLE SECTIONS-2205 & 2217 BERKLEY AVE.			
DATE OF ISSUE NOV 3, 1980	PROJECT No. VA2670	DWG. No. B-2670-20	REV.
APPROVED <i>[Signature]</i>			

2223 BERKLEY



- POSSIBLE REMEDIAL MEASURES
- REMOVE UNSTABLE MATERIAL
 - VEGETATE CUT SLOPE OR
 - COVER WITH BLANKET OF VERY ANGULAR FREE-DRAINING ROCKFILL

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CLIENT: DISTRICT OF NORTH VANCOUVER

PROJECT BERKLEY/RIVERSIDE SLIDE AREA STUDY			
TITLE SECTION - 2223 BERKLEY AVENUE			
DATE OF ISSUE Nov. 3, 1980	PROJECT No. VA 2670	DWG. No. B-2670-21	REV.
APPROVED <i>[Signature]</i>			