

DEMPSTER HIGHWAY MILE 0-78

DRILL LOGS & LAB ANALYSIS

1969

**LIBRARY**

GR-05-002 B

Drawer # ~~008~~ 24



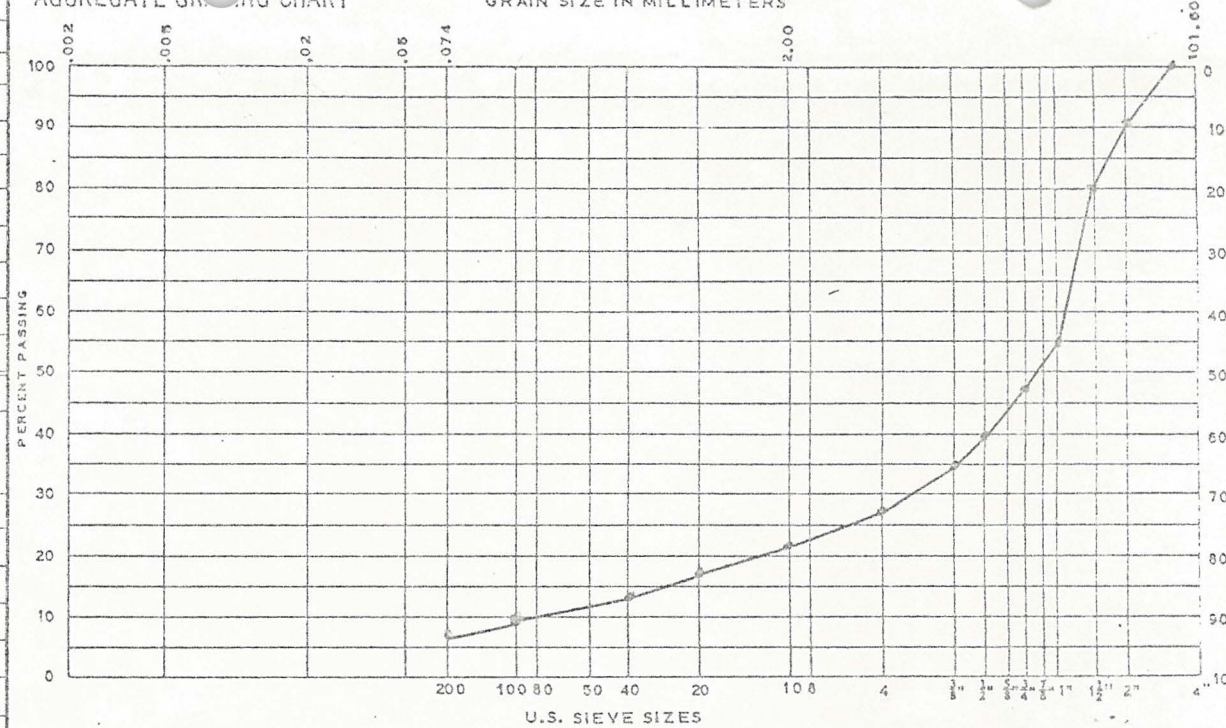
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

FINER BY HEIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
3"	100	# 4 27.5
2"	90.7	# 10 22.1
1 1/2"	79.6	# 20 17.6
1"	55.6	# 40 14.0
3/4"	47.5	# 100 9.6
1/2"	40.6	# 200 7.6
3/8"	35.2	

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.W.										
		WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 3000 + 00  
 HOLE No. \_\_\_\_\_ DEPTH 0' - 4'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 1 LAB SAMPLE No. 2830  
 D. P. W. WHITEHORSE - SOILS LAB  
*J.W.*  
26-3-71

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

approx. mile 57

MATERIALS ENGINEER

DATE

LIBRARY

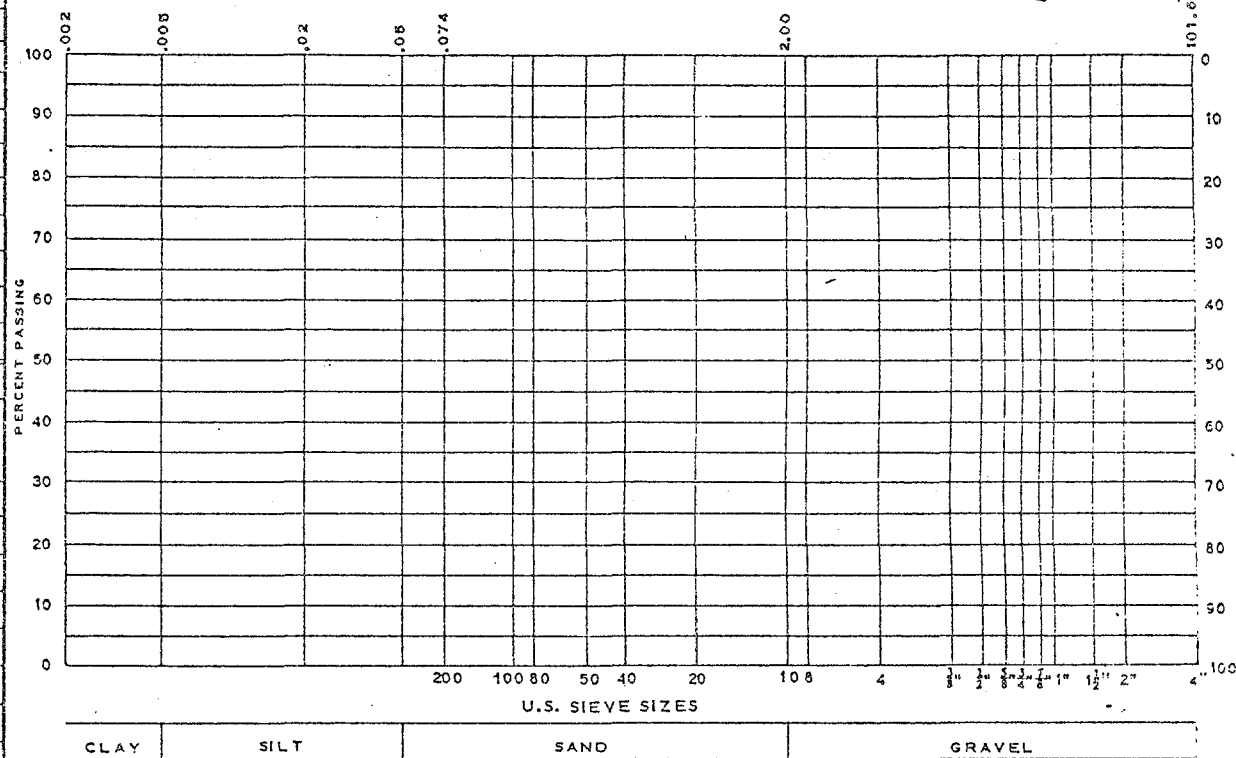
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

FINER BY EIGHT		SIEVE ANALYSIS SAMPLE NUMBER										
		ORGANIC MATERIAL										
# + 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F. M.
		ORGANIC										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT: DENISTEIL HI-WAY  
 LOCATION: STA. 3000+00  
 HOLE NO. \_\_\_\_\_ DEPTH: 4'-7"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 1969  
 FIELD SAMPLE No. 2 LAB SAMPLE No. 2834  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

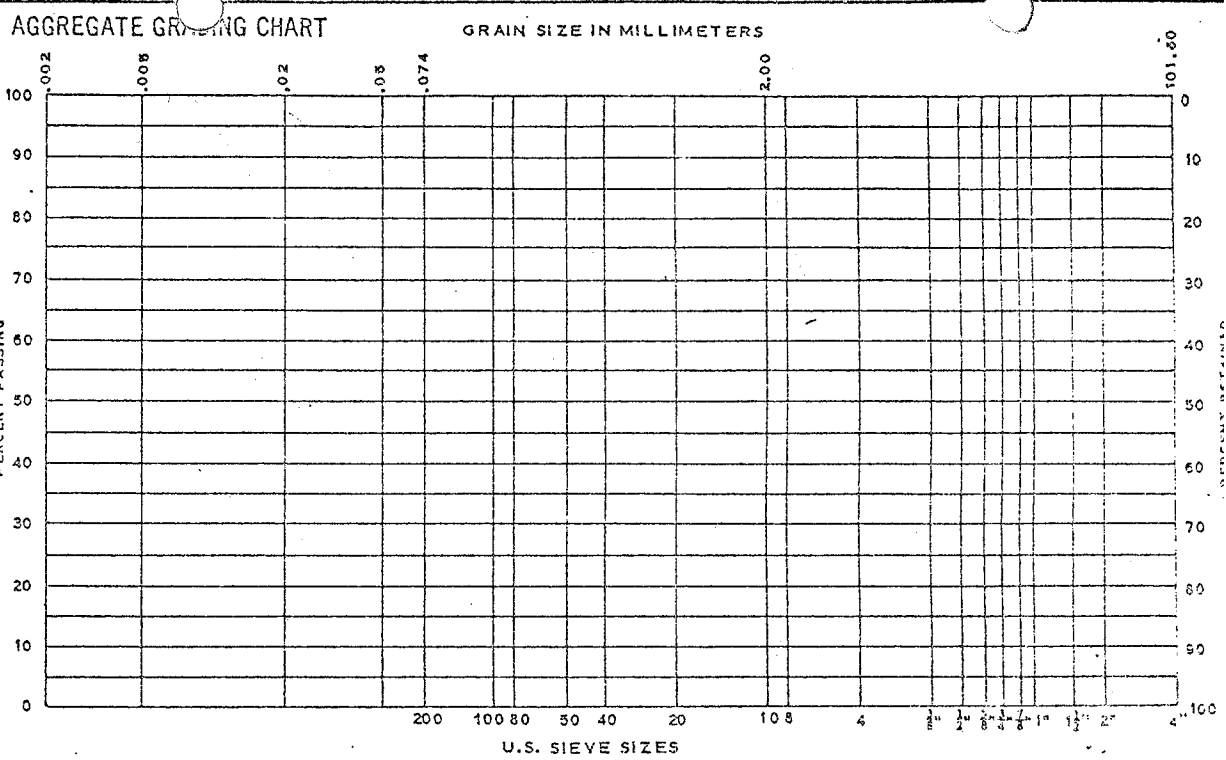
MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

FINER BY EIGHT		SIEVE ANALYSIS SAMPLE NUMBER							
81.8% PASSING # 200 SIEVE									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS		M.G. SOI. % LOSS	D.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 M.L.				0.0							
SILT-FINE SAND MIXTURE													



CLAY	SILT	SAND	GRAVEL
------	------	------	--------

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

LOCATION: DEMPSTER HIGHWAY

LOCATION: STA. 3000+00

HOLE No. \_\_\_\_\_ DEPTH: 7' to 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 69

FIELD SAMPLE No. # 3 LAB SAMPLE No. 2835

D. P. W. WHITEHORSE - SOILS LAB D. W.

26-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_

\_\_\_\_\_

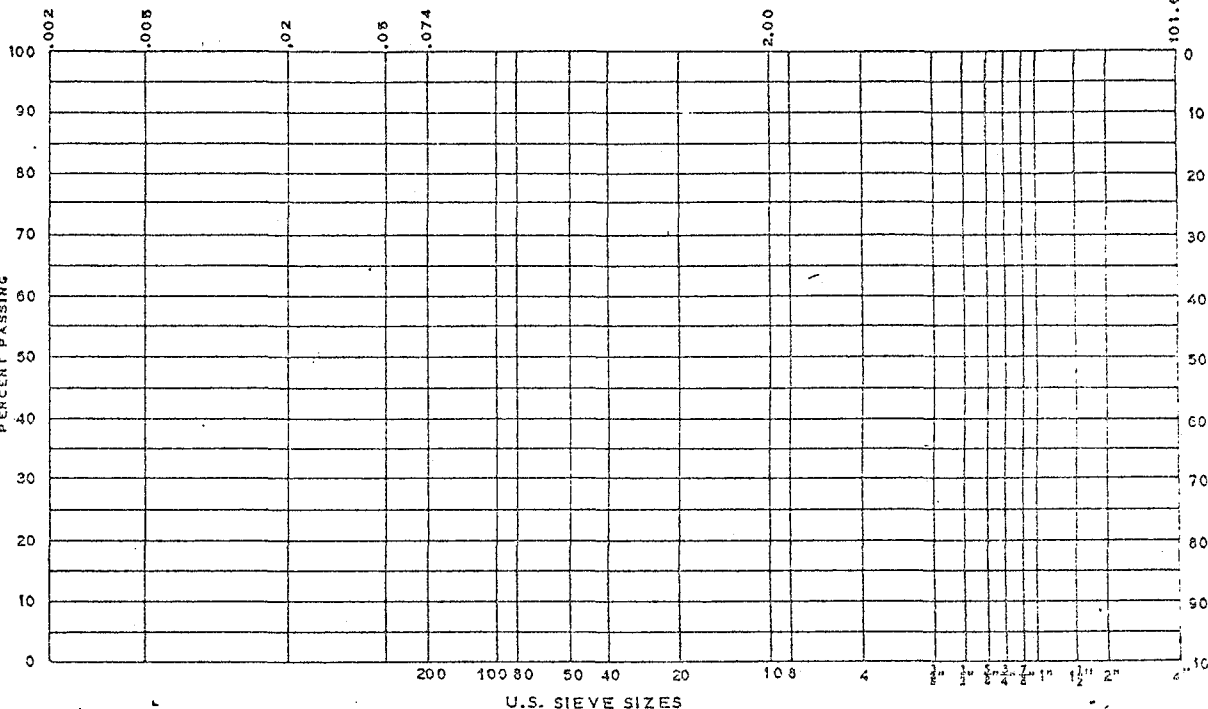
AGGREGATE DEPOSIT REPORT (Cont'd)

FINER  
BY  
EIGHT

SIEVE ANALYSIS  
SAMPLE NUMBER

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY	SILT	SAND	GRAVEL
------	------	------	--------

ORGANIC MATERIAL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A.	MG SO <sub>4</sub>	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F. %
						% LOSS	% LOSS					
		ORGANIC										

TYPICAL PETROGRAPHIC ANALYSIS  
COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY.  
 LOCATION SIA 4000+00 - 3185'  
 HOLE No. \_\_\_\_\_ DEPTH 3'-6'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE '67  
 FIELD SAMPLE No. 4. LAB SAMPLE No. Z838  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE 25-3-71

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE



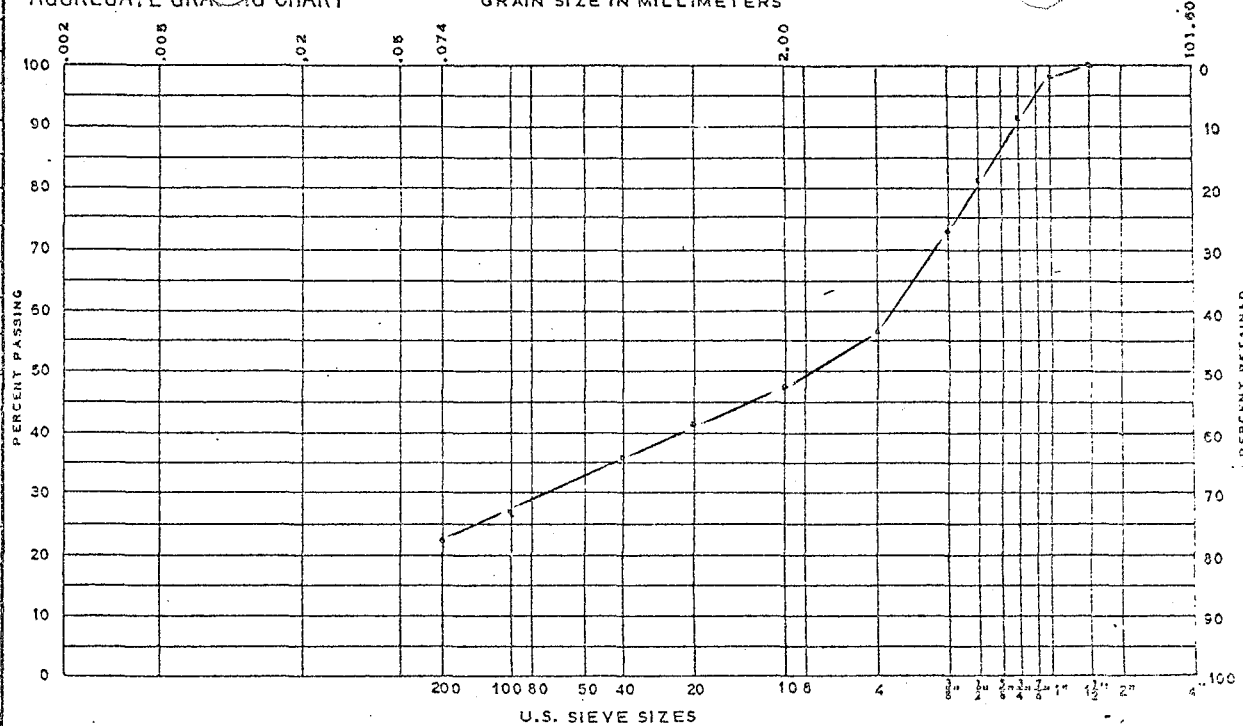
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

FINER BY SIGHT	SIEVE ANALYSIS			
	SAMPLE NUMBER			
70	1 1/2"	52.3	#4	
180	1	47.7	10	
16.1	3/4	41.2	20	
30.1	1/2	35.4	40	
72.9	3/8	26.4	100	
		22.3	200	

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b	21.8	18.4		3.4						
		S.M.										
		SILTY SAND										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT: DEMPSTEK HI-WAY  
 LOCATION: STA. 3135  
 HOLE No. \_\_\_\_\_ DEPTH: 4'-10"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 67  
 FIELD SAMPLE No. 12 LAB SAMPLE No. 2846  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

FINE AGGREGATE

ROCK TYPE

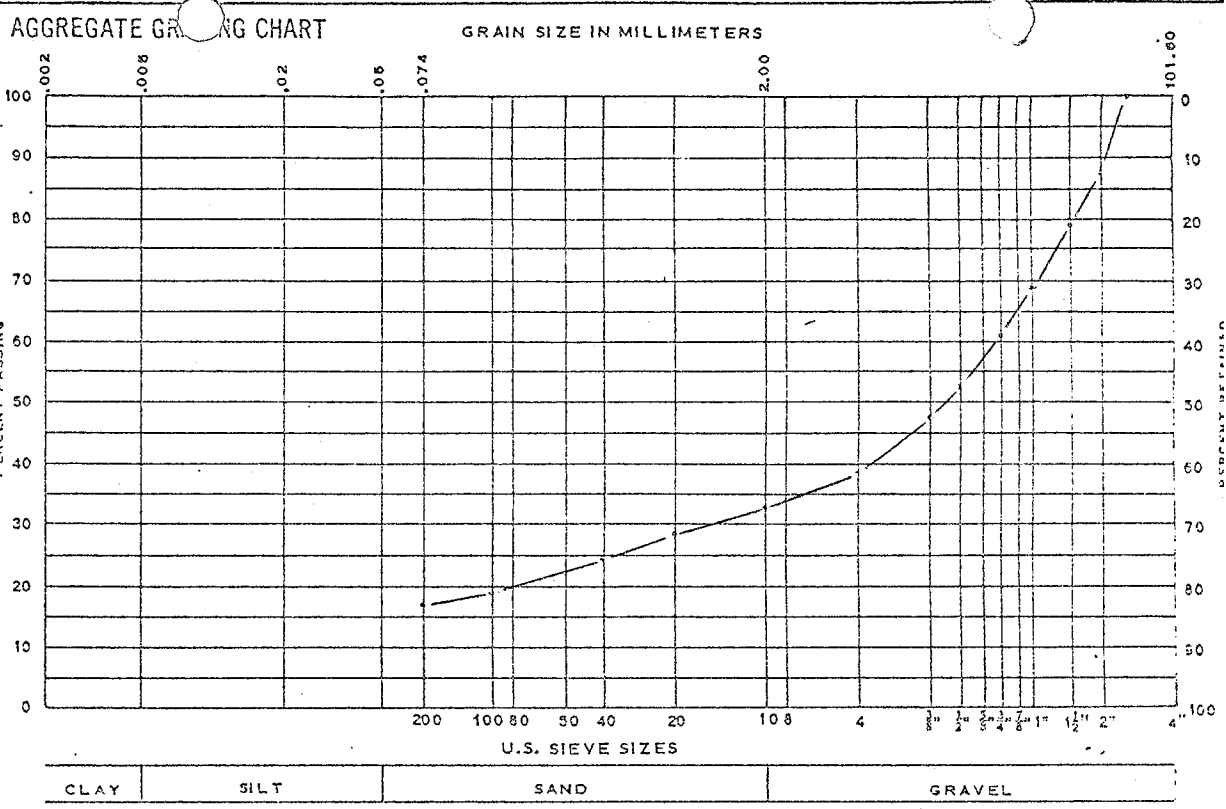
%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

FINER BY EIGHT	SIEVE ANALYSIS			
	SAMPLE NUMBER			
100	3"	38.4	#4	
81.7	2"	33.0	10	
74.3	1 1/2"	28.4	20	
61.2	1"	24.7	40	
40.6	3/4"	19.2	100	
32.7	1/2"	16.7	200	
47.4	3/8"			



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MAG SO4 % LOSS	D.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEWSTER HIGHWAY

LOCATION: .....

HOLE No. .... DEPTH: .....

SAMPLE TYPE: ..... DATE SAMPLED: JUNE '69

FIELD SAMPLE No. .... LAB SAMPLE No. 2847 & 48

D. P. W. WHITEHORSE - SOILS LAB 78-7

Government of Yukon  
 Community & Transportation Services  
 Transportation Engineering, S-3  
 P.O. Box 2703 (201 Range Road)  
 Whitehorse, Yukon, Y1A 2C6

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

2847 - 3'-10' - STA. 3125 - SAMPLE # 13

2848 - 4'-10' - STA. 3115 - " # 14

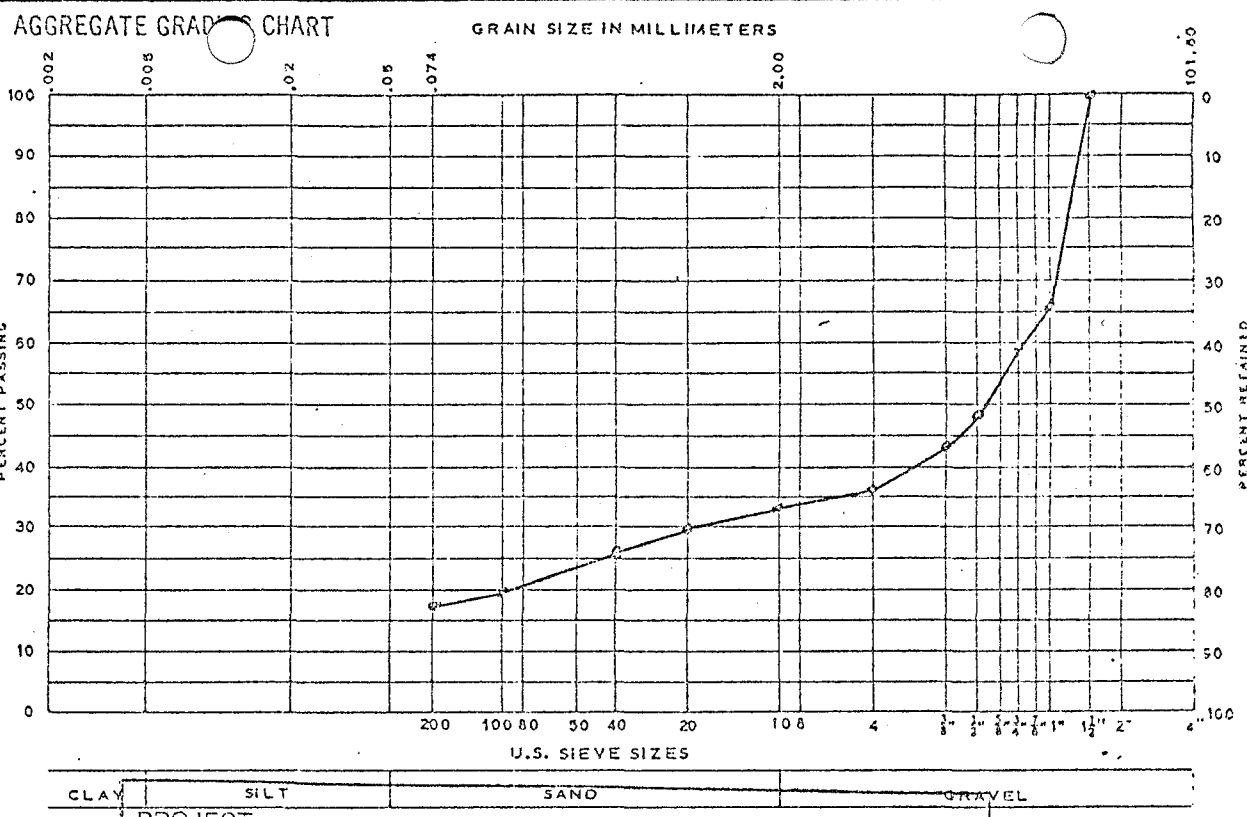
~~2851 - 3'-10' - STA. 3085 - # 17~~

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSA, Y.T.

PROJECT DEMONSTRATION HIGHWAY TEST HOLE NO. 9-10-11-17  
 LOGGED BY ED MELANSON DATE JUNE 19 STATION 3115 - 3125 - 3095  
 ENTERED BY G. KUBISKI DATE JULY 69 3095  
 CHECKED BY G. KUBISKI DATE JULY 69 HOLE ADVANCED BY 4" 40000

SAMPLE NO.	% PASSING LIMITS			L.L.	P.L.	P.I.	Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10								
14									4		ROAD BED FILL T.H. 9
									10		SANDY GRAVEL WITH COBBLES
15									4		ROAD BED FILL T.H. 10
									10		SANDY GRAVEL WITH COBBLES
16									4		ROAD BED FILL T.H. 11
									10		SAND, GRAVEL WITH COBBLES
17									4		ROAD BED FILL T.H. 12
									10		SAND, GRAVEL WITH COBBLES

SIEVE ANALYSIS		SAMPLE NUMBER	
PERCENT	SIEVE	PERCENT	SIEVE
100	# 4	36.4	# 10
66.2	# 10	32.8	# 20
59.0	# 20	29.6	# 40
48.5	# 40	26.4	# 100
44.3	# 100	20.4	# 200
	# 200	17.4	



ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPHL. ABSORB.	F.M.
	A-1-b G.P.			0.0							
POOR TO FAIR GRADED GRAVEL											

#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: \_\_\_\_\_

LOCATION: DEMPSTER HIGHWAY

HOLE No. \_\_\_\_\_ DEPTH: 3' to 10'

SAMPLE TYPE: STA. 3105 DATE SAMPLED: JUNE 69

FIELD SAMPLE No. 15 LAB SAMPLE No. 2849

D. P. W. WHITEHORSE - SOILS LAB *J. ml.*

29-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

##### FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

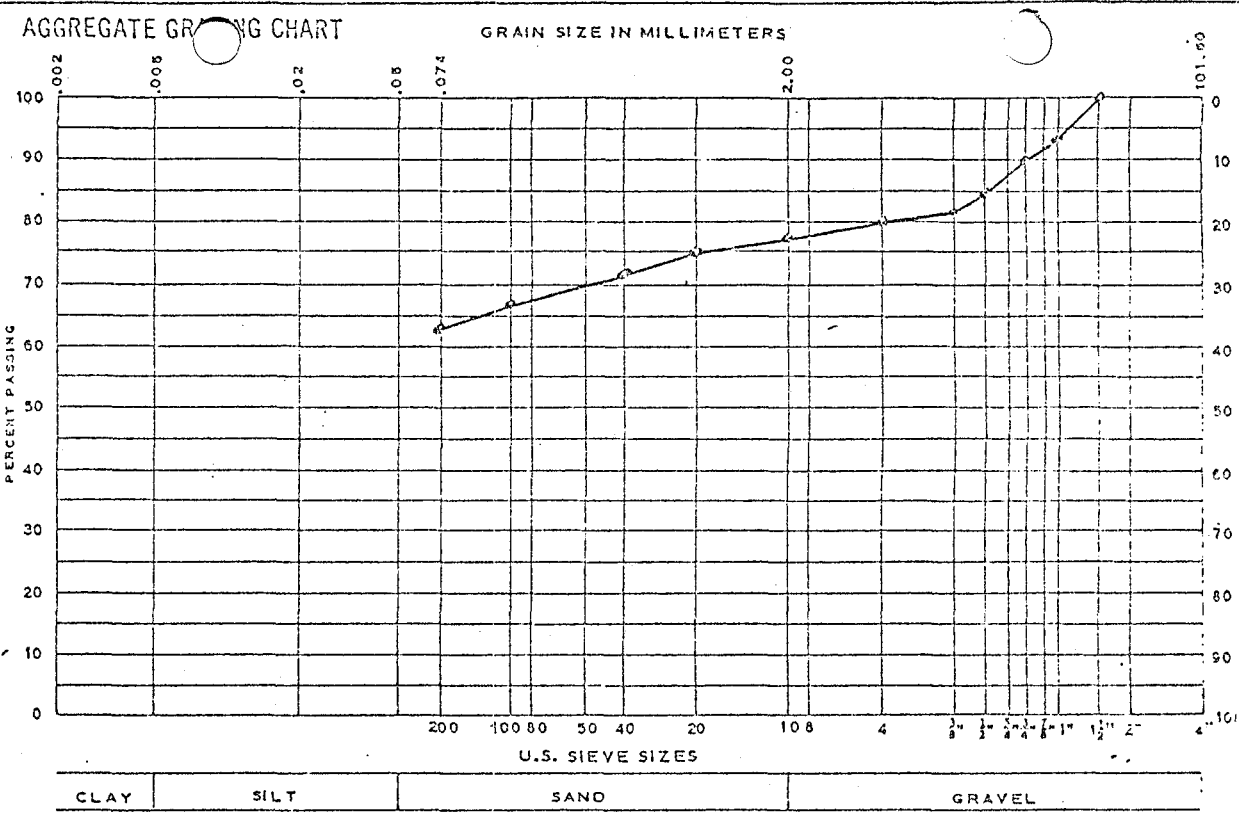
\_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

SIEVE ANALYSIS		SAMPLE NUMBER	
FINER BY SIGHT	7/10	# 4	79.7
1/2"	93.7	# 10	77.6
"	↓	# 20	74.9
2"	90.0	# 40	72.1
"	85.2	# 100	67.0
3"	82.5	# 200	62.9
+ 4"			

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 804 % LOSS	ORG.	COLOUR	% WATER ABSORB.	% ASPH. ASSORB.	F.M.
		A-4	25.2	21.1	4.1							
		M.L.										
		SANDY SILT WITH SLIGHT PLASTICITY										



#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY

LOCATION: STA. 3095

HOLE NO. \_\_\_\_\_ DEPTH: 4' to 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 69

FIELD SAMPLE No. 16 LAB SAMPLE No. 2850

D. P. W. WHITEHORSE - SOILS LAB D.M.

29-3-71

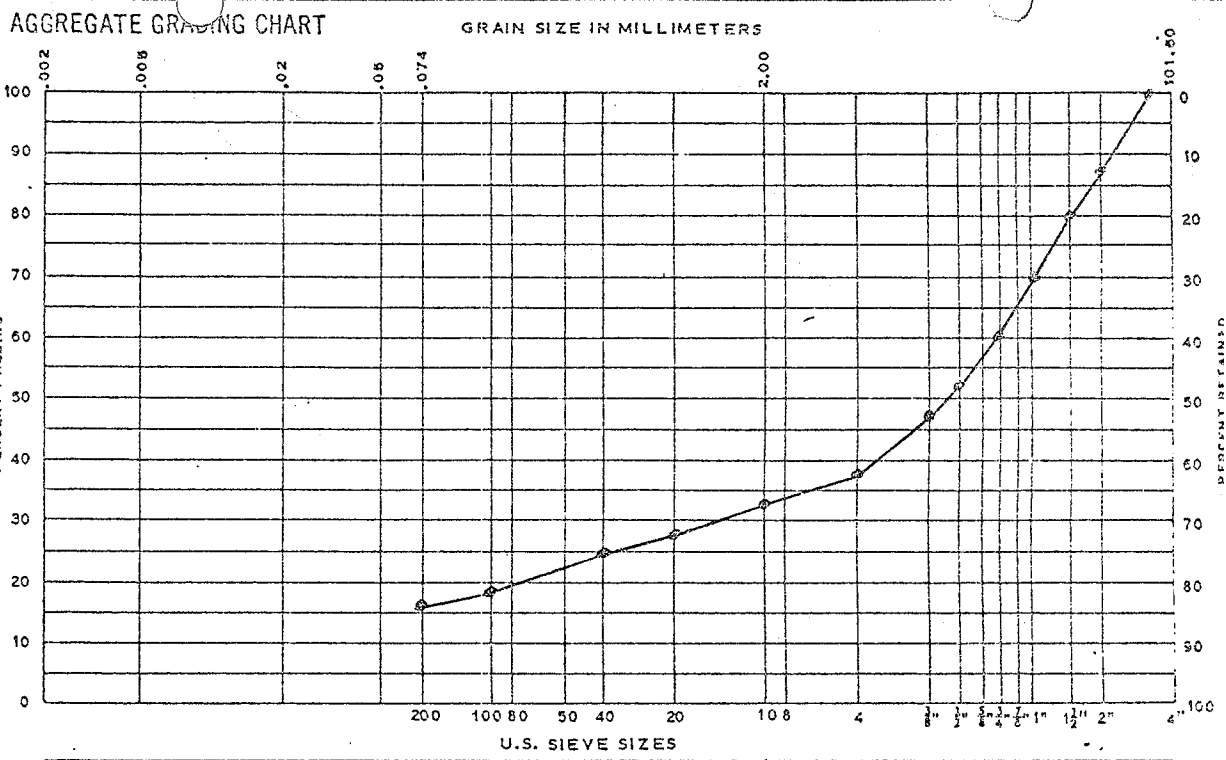
TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

##### FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

FINER BY EIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
5"	100	# 4 38.4
2"	97.7	# 10 33.0
1 1/2"	79.3	# 20 28.4
1"	69.2	# 40 24.7
3/4"	60.6	# 100 19.2
1/2"	52.7	# 200 16.7
3/8"	47.4	



MPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b	18.9	17.6		1.3						
		G.W.										
		WELL GRADED GRAVEL										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY

LOCATION: STA. 3085

HOLE No. \_\_\_\_\_ DEPTH: 3' - 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 69

FIELD SAMPLE No. 17 LAB SAMPLE No. 2851

D. P. W. WHITEHORSE - SOILS LAB *ex. mt.*

29-3-71

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

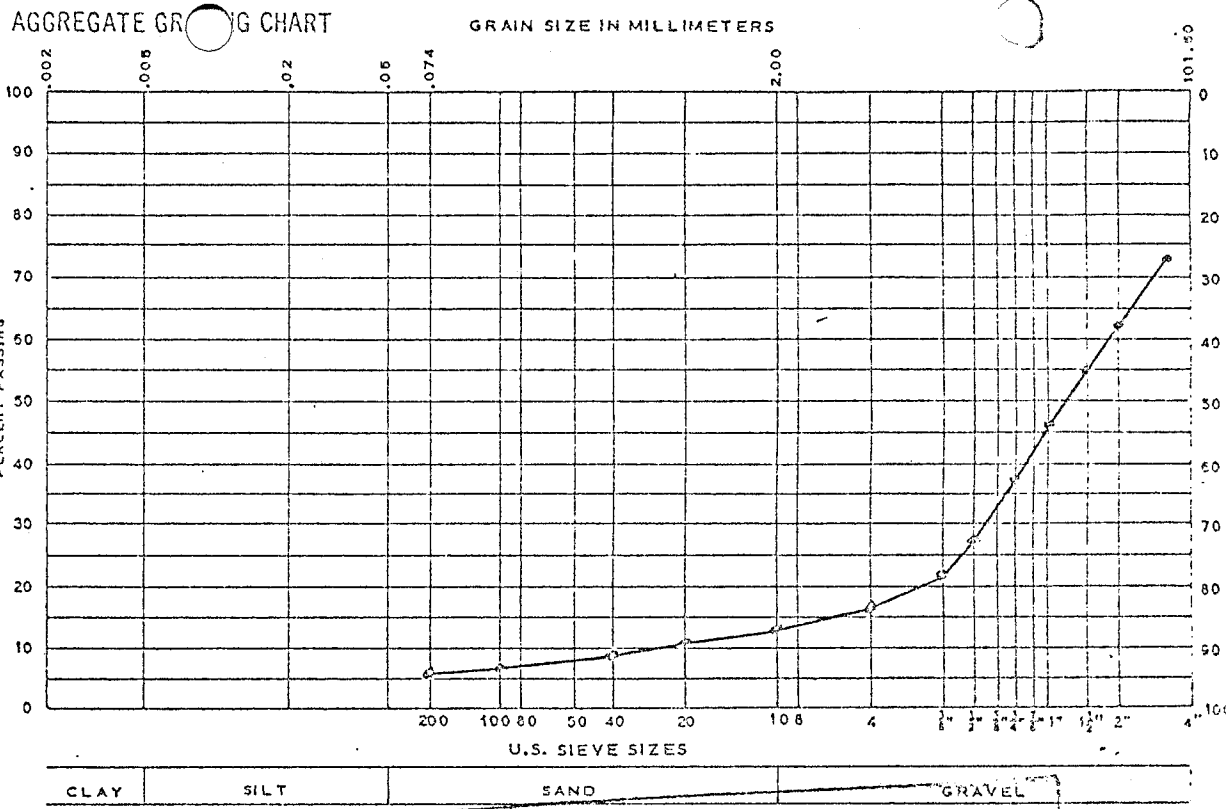
MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMOLITION HIGHWAY TEST HOLE NO. 13-14-15-16  
 LOGGED BY ED. MELANSON DATE JUNE 69 STATION 3075 - 3065  
 ENTERED BY G. KUBISKI DATE JULY 69 3055 - 3045  
 CHECKED BY G. KUBISKI DATE JULY 69 HOLE ADVANCED BY 4" ANCHOR

SAMPLE NO.	% PASSING			LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.					
									4		ROAD BED FILL T.H. <u>13</u>
											SAND.
18									10		
									3		ROAD BED FILL T.H. <u>14</u>
											SAND, SILT GRAVEL COBBLES
19									10		
									4		ROAD BED FILL T.H. <u>15</u>
											S
20									10		SAND, GRAVEL COBBLES
									4		ROAD BED FILL T.H. <u>16</u>
											WET SAND
21									10		SAND WITH LARGE STONES.

SIEVE ANALYSIS		SAMPLE NUMBER	
NEARLY	7.5		
HT	100		
"	73.2	# 4	16.4
"	62.6	# 10	13.4
"	55.4	# 20	11.1
"	46.2	# 40	9.4
"	37.4	# 100	7.2
"	27.3	# 200	6.0
"	22.4		



PL. E.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 504 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		POOR to FAIR GRADED GRAVEL										

#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT.....

LOCATION: DEMPSTER HIGHWAY

HOLE No. .... DEPTH: 4' to 10'

SAMPLE TYPE STA. 3075 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 18 LAB SAMPLE No. 2852

D. P. W. WHITEHORSE - SOILS LAB J. M. L.

29-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

##### FINE AGGREGATE

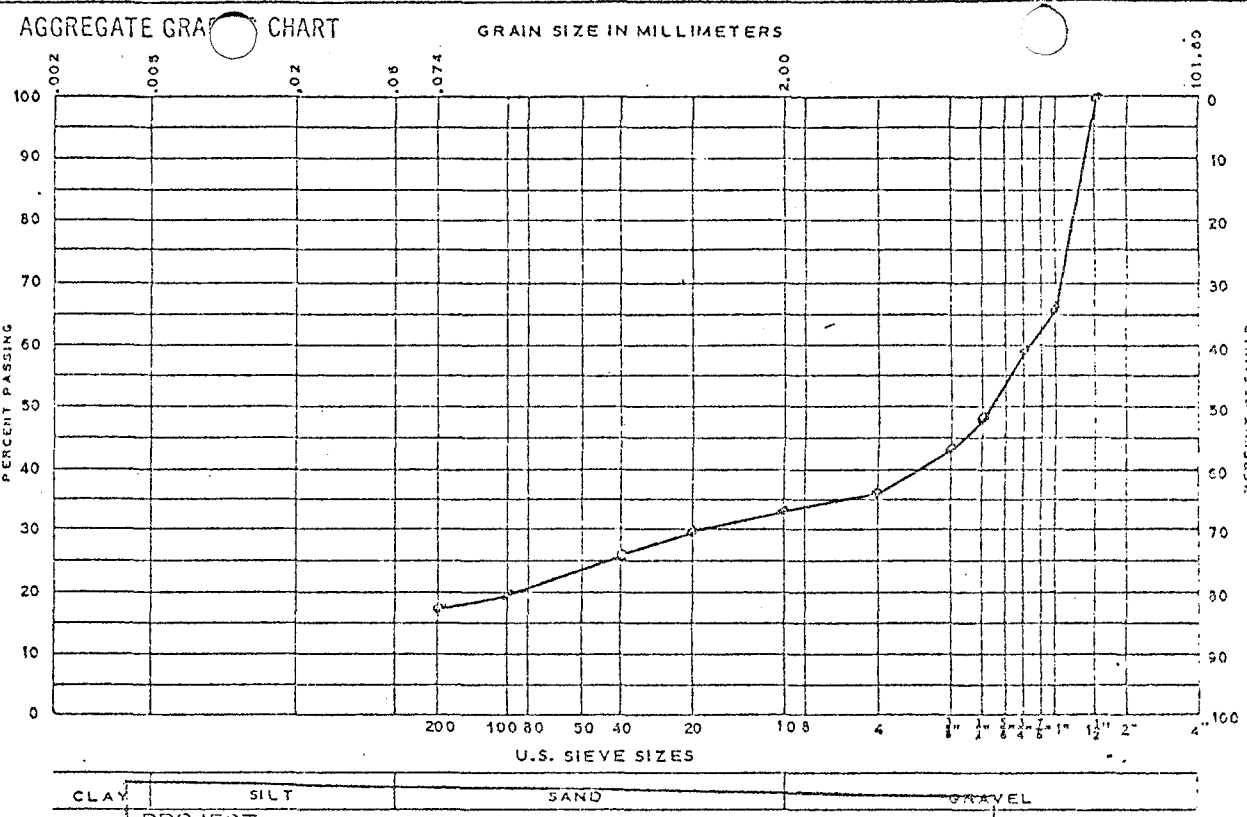
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

		SIEVE ANALYSIS	
		SAMPLE NUMBER	
HT	$\frac{1}{2}$	$\frac{1}{2}$	
"	100	# 4	36.4
"	60.2	# 10	32.9
"	57.5	# 20	29.6
"	45.5	# 40	26.4
"	41.3	# 100	20.4
		# 200	17.4

E	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.C. SO. % LOSS	USPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.N.
		R-1-b			0.0							
		G.P.										
		POOR TO FAIR GRADED GRAVEL										



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: \_\_\_\_\_

LOCATION: DEMPSTER HIGHWAY

HOLE No. \_\_\_\_\_ DEPTH: 3' to 10'

SAMPLE TYPE: STA. 3065 DATE SAMPLED: JUNE 69

FIELD SAMPLE No. 19 LAB SAMPLE No. 2853

D. P. W. WHITEHORSE - SOILS LAB

J. m.  
29-3-71

\_\_\_\_\_  
TESTING ENGINEER

\_\_\_\_\_  
DATE

FINE AGGREGATE

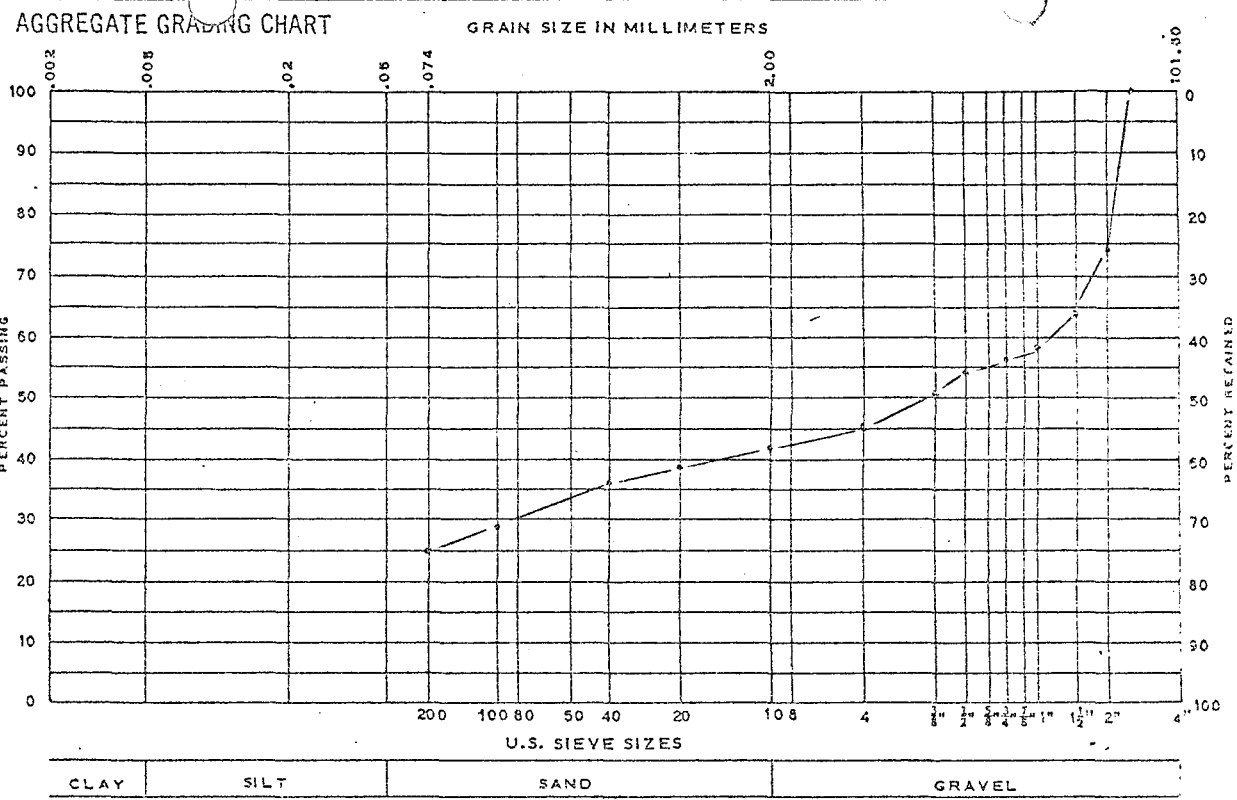
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_  
MATERIALS ENGINEER

\_\_\_\_\_  
DATE

FINER BY SIGHT		SIEVE ANALYSIS	
		SAMPLE NUMBER	
20	3"	54.5	1/2"
4.3	2	50.4	3/8"
1.5	1 1/2	45.1	#4
1.4	1	41.9	#10
0.2	3/4	35.7	#20
		35.5	#40
		28.7	#100
		25.1	#200



DEPTH	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	U.A. % LOSS	M.G. 504 % LOSS	DSPC	COLOR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.8	10.4	3.4							
		DIRTY GRAVEL										
		A-1-B G.P.										
		POORLY GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEWSTEEL HWY

LOCATION: \_\_\_\_\_

HOLE No. \_\_\_\_\_ DEPTH \_\_\_\_\_

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE '69

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 2854-66

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE 25-3-71

FINE AGGREGATE

ROCK TYPE	%

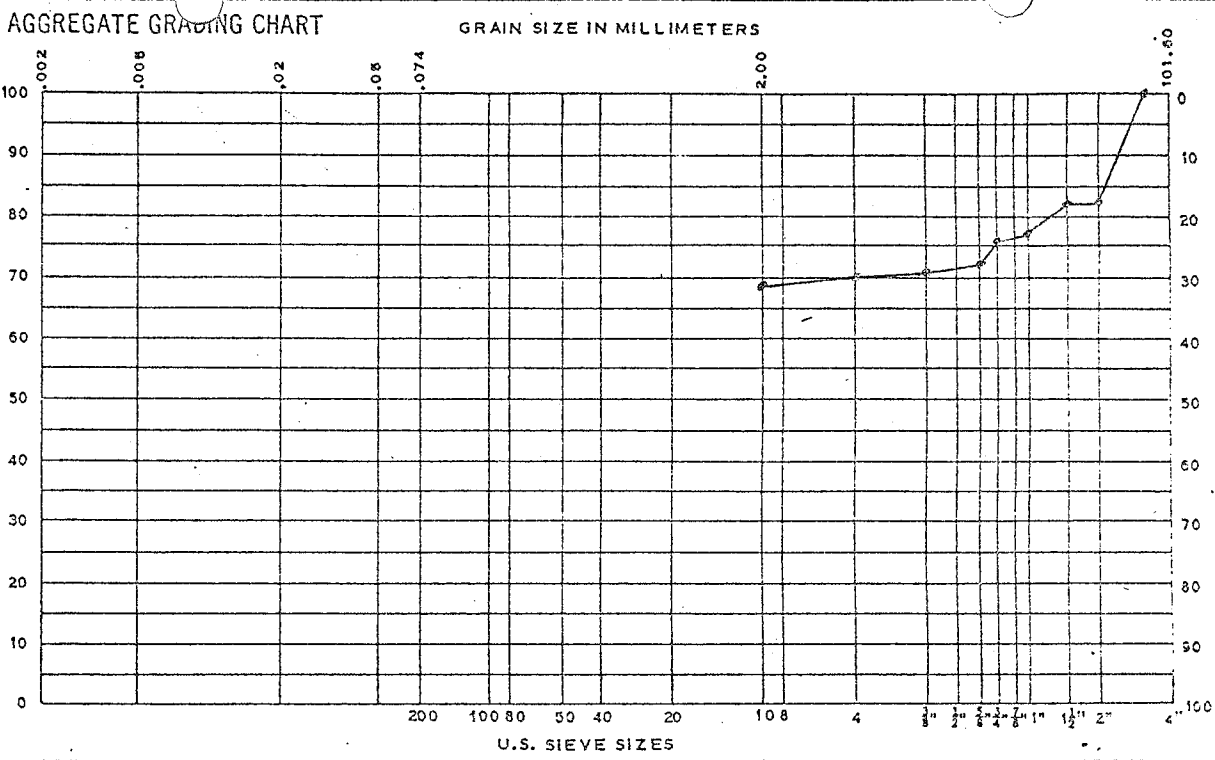
MATERIALS ENGINEER'S REMARKS

2854 - 4'-10' STA. 3055 SAMPLE # 20

2866 3'-10' " 2790 " # 37

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY EIGHT		SIEVE ANALYSIS SAMPLE NUMBER			
3"	100				
3 1/4"	82.6				
3 1/2"	82.6				
3 3/4"	77.1	MATERIAL DESIGN # 10			
4"	75.9	SIEVE LOST			
4 1/4"	72.4				
4 1/2"	72.0				
4 3/4"	70.7				
5"	69.2				



SPL. NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	U.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSAC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
					0.0							

CLAY	SILT	SAND	GRAVEL
------	------	------	--------

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

PROJECT'S REMARKS DEMPSTER HIGHWAY

LOCATION STA. 3045

HOLE NO. \_\_\_\_\_ DEPTH 7' to 10'

SAMPLE TY. E \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 21 LAB SAMPLE No. 2855

D. P. W. WHITEHORSE - SOILS LAB *J.W.L.* 26-3-71

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

\_\_\_\_\_ MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DENNDSTER HIGHWAY TEST HOLE NO. 17-18-19-20  
 LOGGED BY ED MELANSON DATE JULY 19 STATION 3035 - 3025  
 ENTERED BY G. KUBISKI DATE JULY 19 3015 + 3005 3000-  
 CHECKED BY G. KUBISKI DATE JULY 19 HOLE ADVANCED BY 4" AUGER

SAMPLE NO.	% PASSING LIMITS			L.L.	P.L.	P.L.	Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10								
											ROAD BED FILL T.H. 17
									4		
12									6		FROZEN ORGANIC CLAY
23									10		SAND GRAVEL.
											ROAD BED FILL T.H. 18
									3		
24									4 1/2		FROZEN ORGANIC
25											SAND WITH STONES 2"
									10		
											ROAD BED FILL T.H. 19
									4		
26									8		FROZEN ORGANIC SILT SAND
27									10		SANDY GRAVEL
											ROAD FILL T.H. 20
									4 1/2		
28									10		SANDY GRAVEL

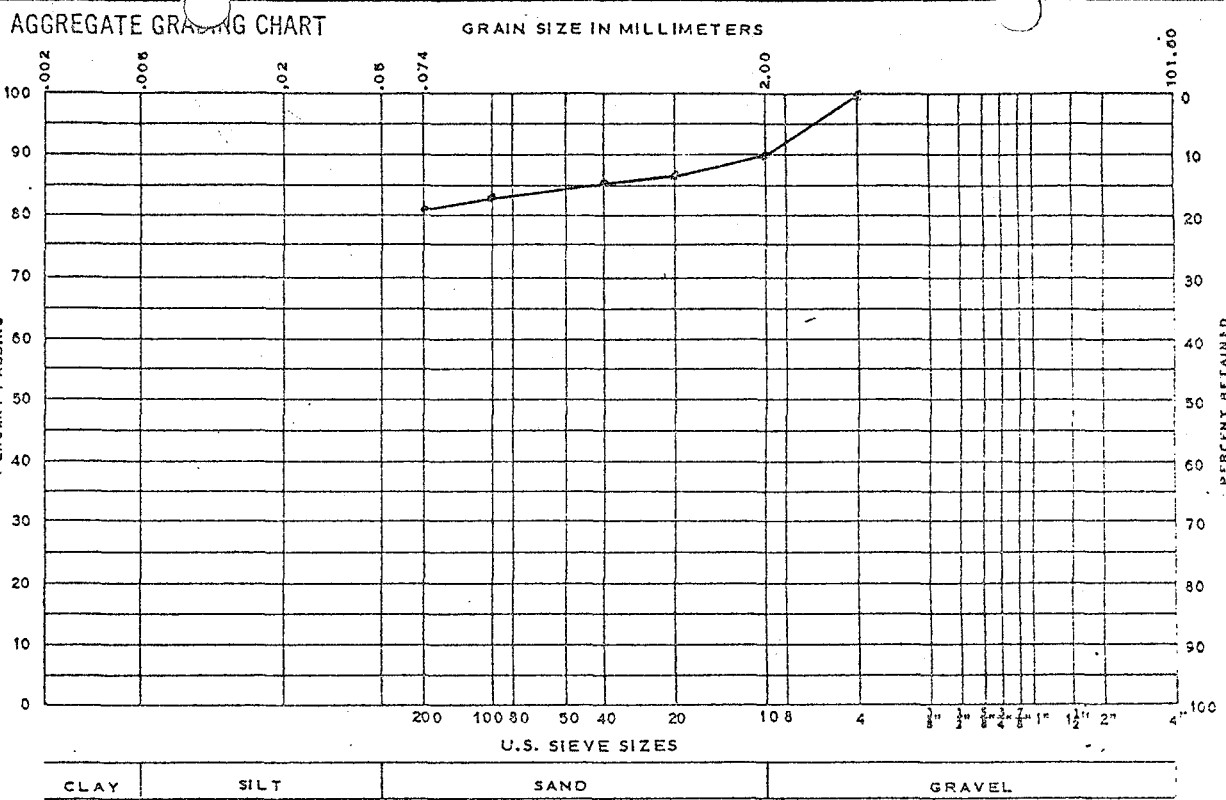
3055

3025

3015  
3000

3000

FINER BY EIGHT		SIEVE ANALYSIS SAMPLE NUMBER							
# 7	100								
# 10	90.1								
# 20	87.6								
# 40	86.1								
# 100	83.5								
# 200	81.3								



MPL E NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			36.9	25.3		11.6						
A-6 M.L. SAND - CLAYEY SILT WITH LOW TO MED. PLASTICITY MIXTURE												

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEARBSTER HIGHWAY

LOCATION STA. 3035

DEPTH 4' to 6'

DATE SAMPLED JUNE 69

LAB SAMPLE No. 22 LAB SAMPLE No. 2856

D. P. W. WHITEHORSE - SOILS LAB

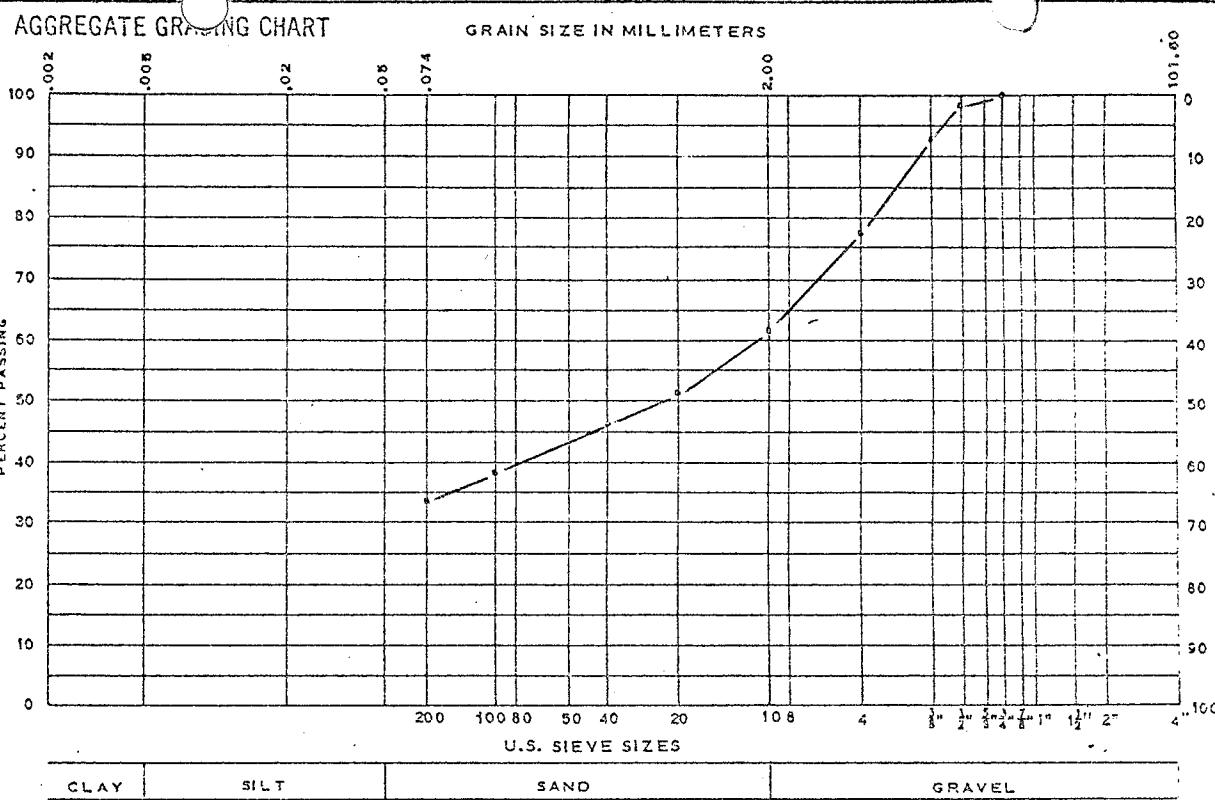
26-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

FINER BY EIGHT	SIEVE ANALYSIS			
	SAMPLE NUMBER			
75.0	3/4"	67.6	#10	
78.4	1/2"	51.1	20	
73.2	3/8"	46.0	40	
76.6	2"	39.5	100	
		34.1	200	



AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SOL. % LOSS	BSFC	COLOUR	% WATER ABSORB.	% ASPH. ADSORB.	F.M.
			27.7	20.7		3.0						
		A-2-4										
		S.M.										
		SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEANSTER HI-WAY

LOCATION STA. 3035

HOLE No. \_\_\_\_\_ DEPTH 6'-10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 27

FIELD SAMPLE No. 23 LAB SAMPLE No. 2857

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER [Signature] DATE 25-3-71

FINE AGGREGATE	
ROCK TYPE	%

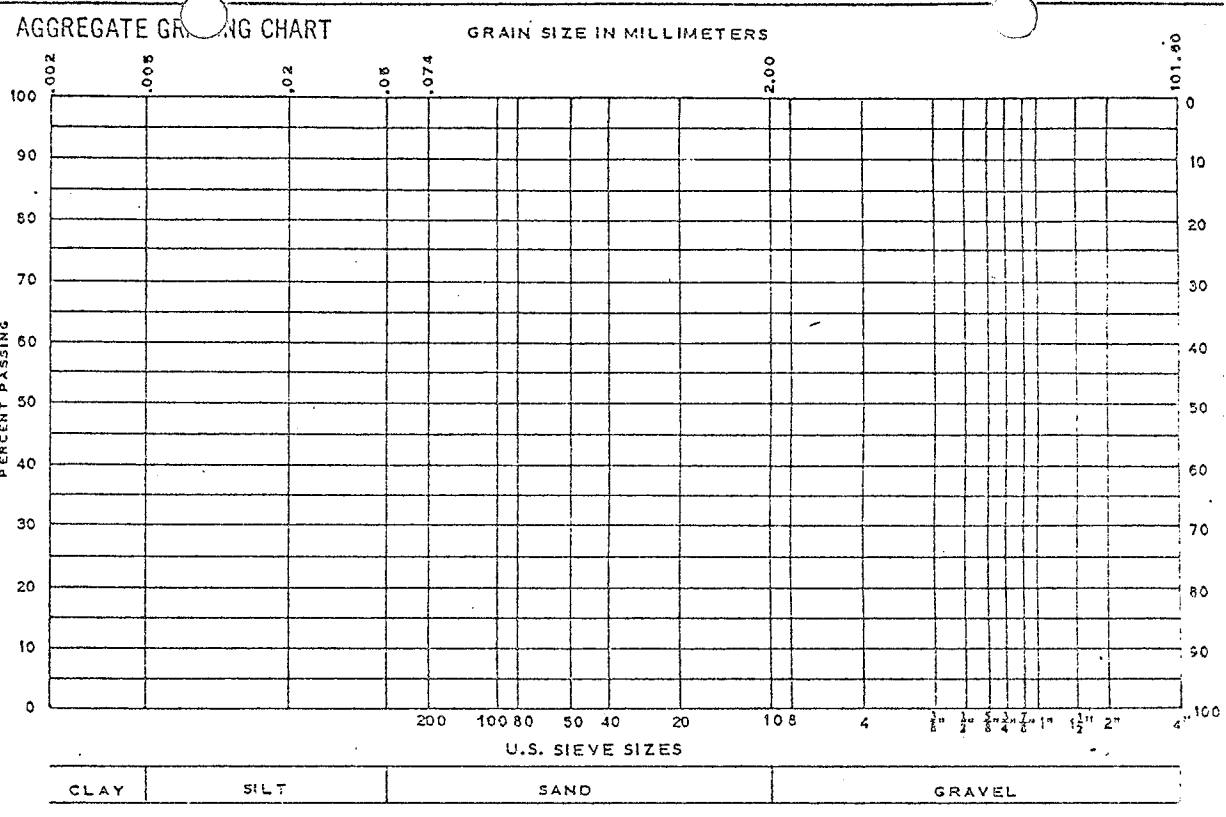
MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

AGGREGATE DEPOSIT REPORT (Cont'd)

FINER BY WEIGHT		SIEVE ANALYSIS										
		SAMPLE NUMBER										
		ORGANIC MATERIAL										
		MORE THAN 75% PASSING #200 SIEVE.										
+ 4"												
AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SOL. % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		ORGANIC				0						



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER-AL-WAY

LOCATION STA. 3025

HOLE No. \_\_\_\_\_ DEPTH 3' 4 1/2'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 74 LAB SAMPLE No. 2858

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE 25-3-71

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

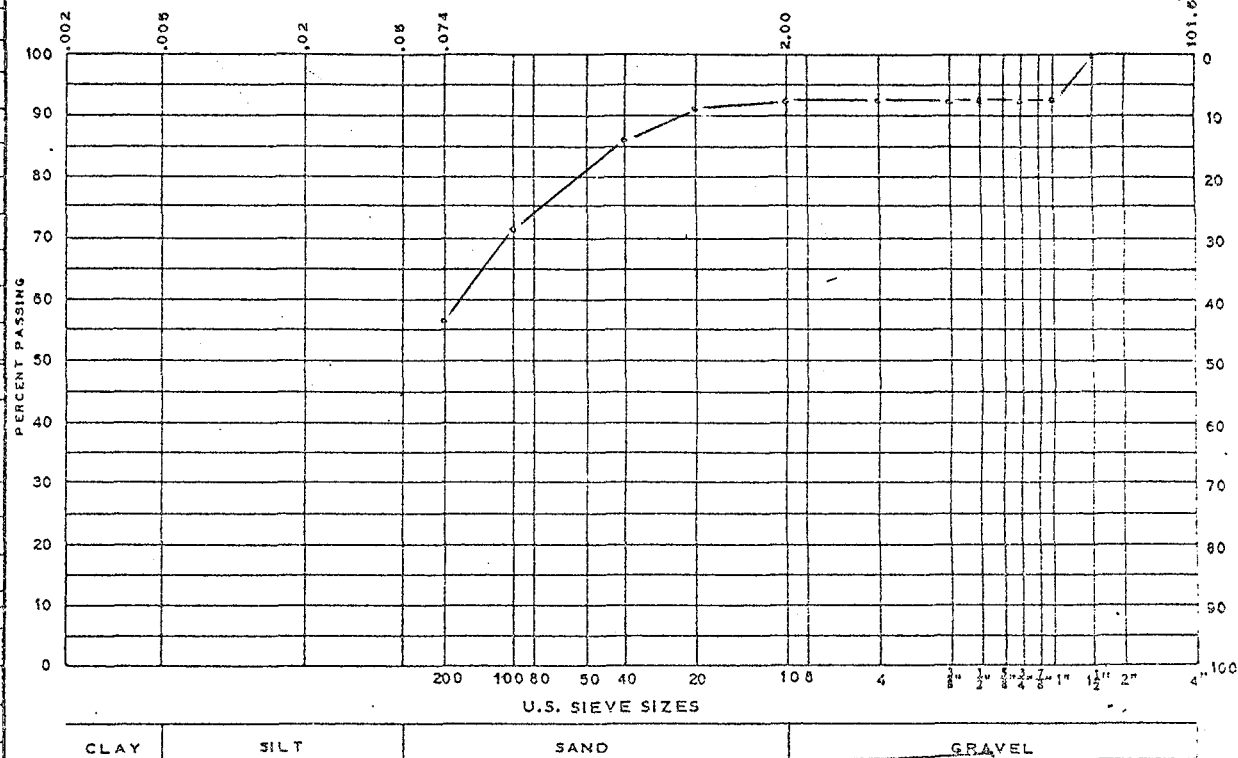
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

FINER BY WEIGHT		SIEVE ANALYSIS SAMPLE NUMBER			
100	1/2"	93.5	#10		
92.7	1"	90.7	#20		
73.7	3/4"	86.1	#40		
97.7	1/2"	71.0	#100		
97.7	3/8"	53.7	#30		
71.7	#4				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT.....  
 LOCATION DENNISVILLE HWY STA. 3325  
 HOLE No. .... DEPTH 4 1/2' - 10'  
 SAMPLE TYPE ..... DATE SAMPLED JUNE '67  
 FIELD SAMPLE No. 25 ..... LAB SAMPLE No. Z359  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

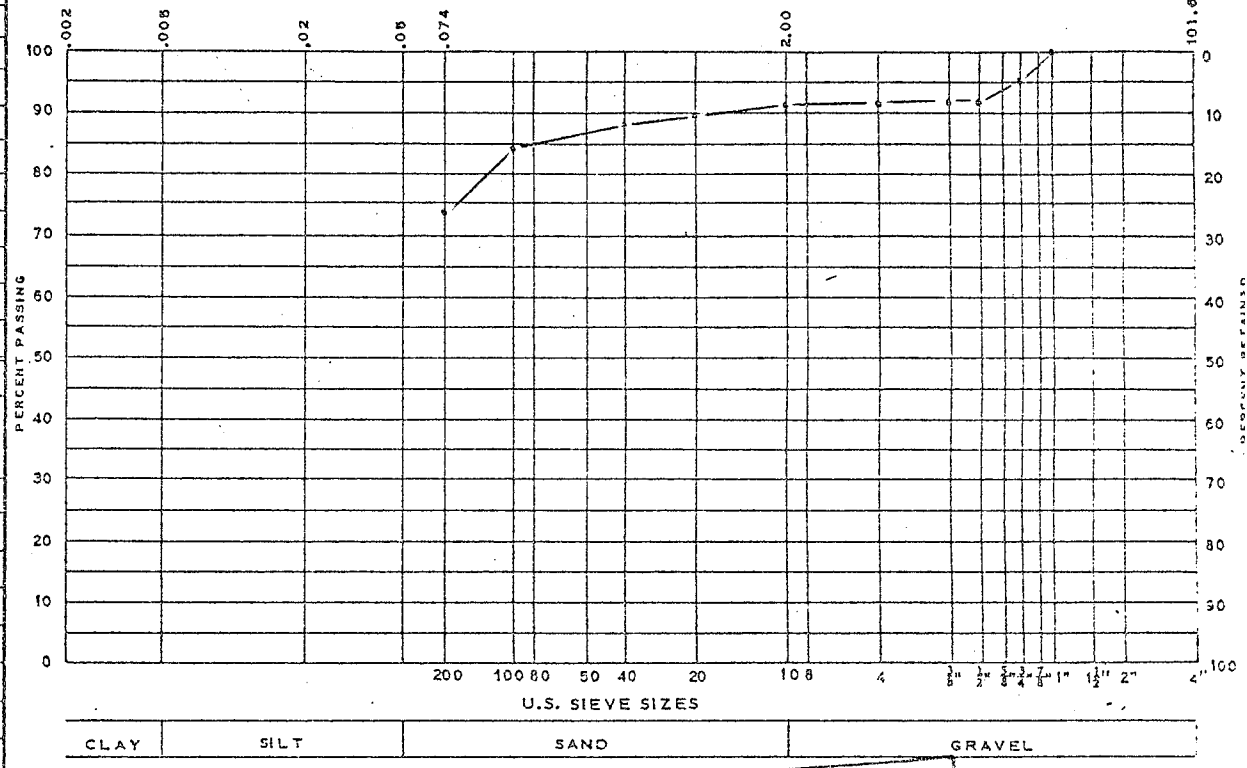
MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

FINER BY EIGHT		SIEVE ANALYSIS				SAMPLE NUMBER											
300	1"	473	710														
823	3/4"	816	20														
120	1/2"	880	40														
768	3/8"	843	100														
118	#4	738	200														
% + 4"																	
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MC SO4 % LOSS	DSAC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.					
		A-4	30.1	27.7	2.7								M.L. SANDY SILT				

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEWATER A1-WAY

LOCATION STA 3015

HOLE NO. \_\_\_\_\_ DEPTH 4'-8"

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 26 LAB SAMPLE No. Z600

D. P. W. WHITEHORSE - SOILS LAB

FINE AGGREGATE

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

TESTING ENGINEER

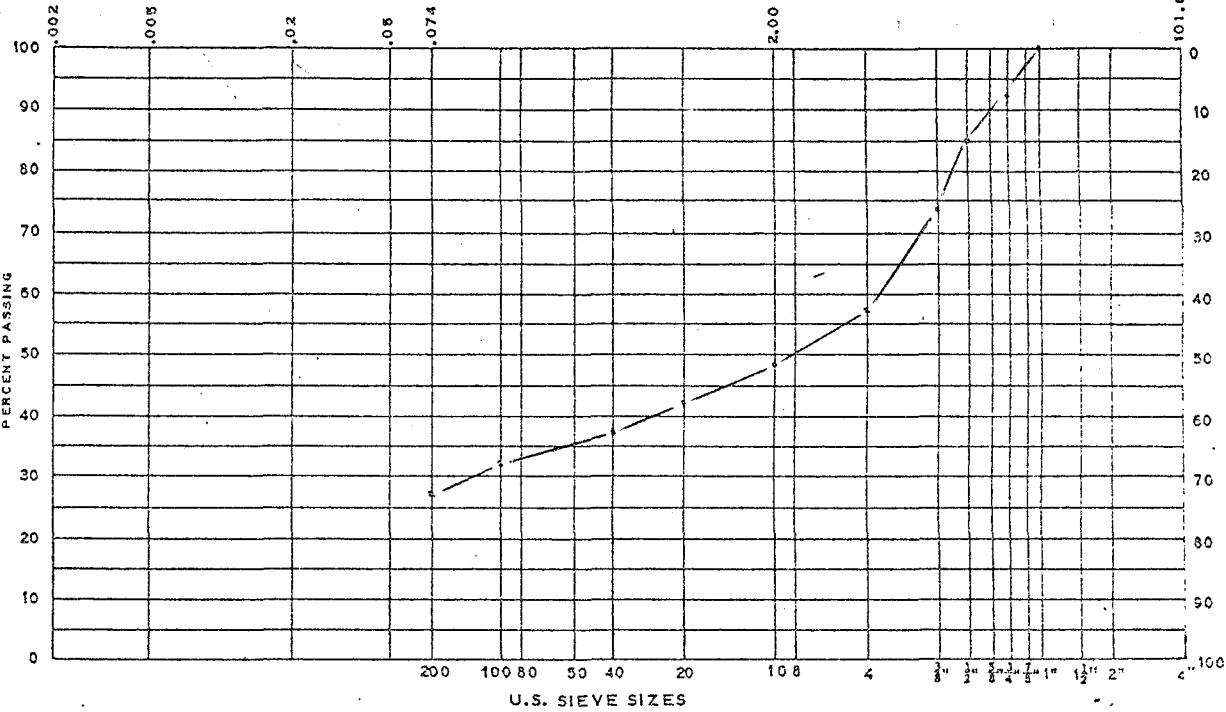
DATE 25-3-71

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER			
100.0	1"	48.0	#10	
70.7	3/4"	42.1	20	
55.0	1/2"	37.6	40	
74.0	3/8"	31.7	100	
57.5	#4	27.0	200	

AGGREGATE GRADING CHART



AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	D.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
A-2-4												
S.M.												
SILTY SAND												

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMATEL 11-WAY

LOCATION: STA 3015

HOLE No.      DEPTH: 8L 10'

SAMPLE TYPE      DATE SAMPLED

FIELD SAMPLE No. 27      LAB SAMPLE No. 2861

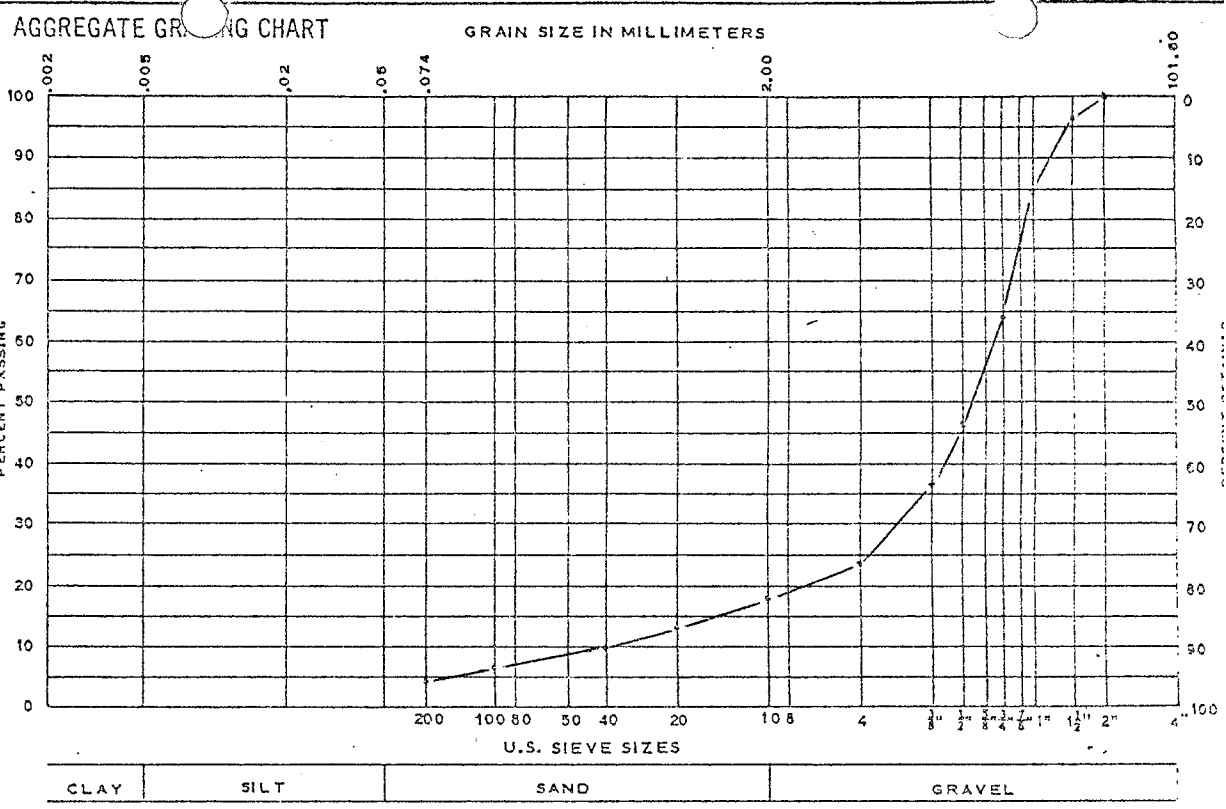
D. P. W. WHITEHORSE - SOILS LAB

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

TESTING ENGINEER      DATE 25-3-71

FINER BY WEIGHT		SIEVE ANALYSIS			
		SAMPLE NUMBER			
100.0	2"	23.9	#4		
96.1	1 1/2	18.0	#10		
84.6	1	13.5	#20		
64.4	3/4	7.9	#40		
46.4	1/2	6.1	#100		
36.0	3/8	4.6	#30		



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPC	COLOR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a				0						
		G.W.										
		WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEARBSTER HI-WAY

LOCATION: \_\_\_\_\_

HOLE No. \_\_\_\_\_ DEPTH: \_\_\_\_\_

SAMPLE TYPE: \_\_\_\_\_ DATE SAMPLED: JUNE '69

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 2841

D. P. W. WHITEHORSE - SOILS LAB 2862

TESTING ENGINEER: \_\_\_\_\_ DATE: 25-3-69

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

~~2841 3185+00 - 3'-5' - SAMPLE #7~~

2862 - 3000+00 - 4 1/2' - 10' - " #28

MATERIALS ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

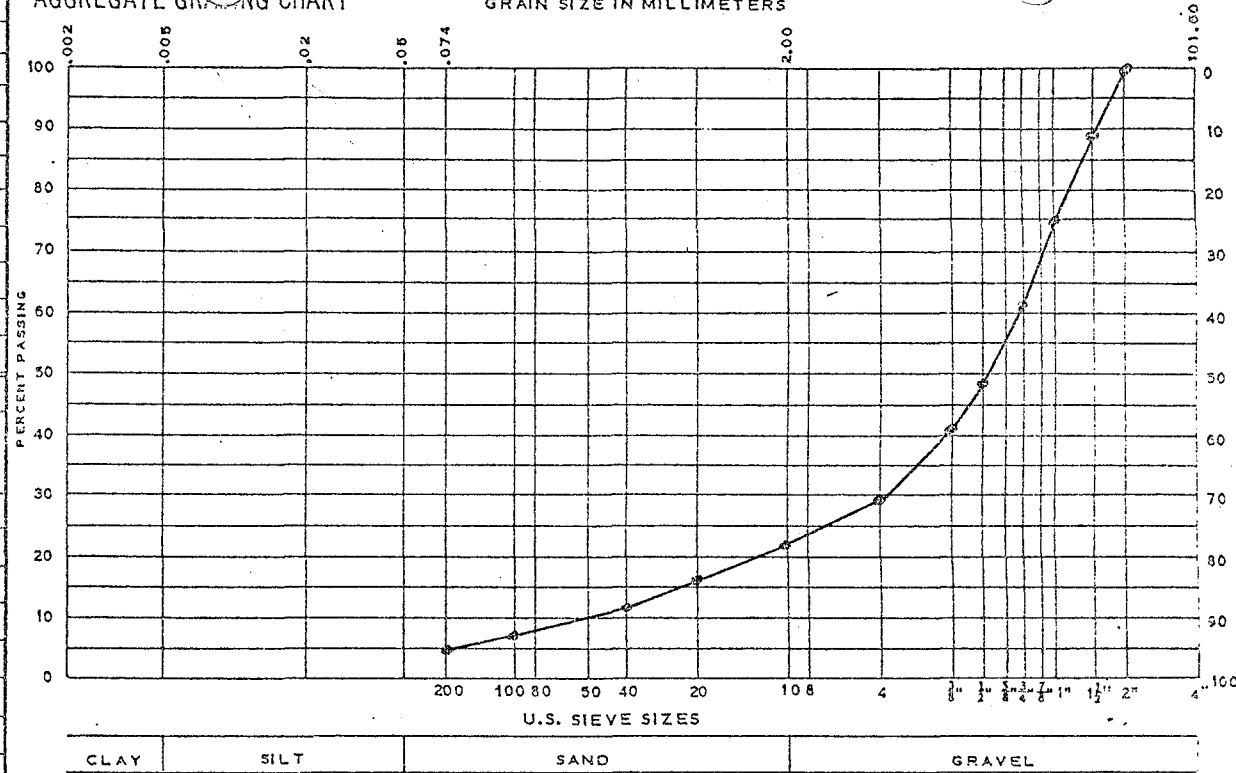
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMOLISHED HIGHWAY TEST HOLE NO. 21-22-23-24  
 LOGGED BY ED NELSON DATE JUNE 69 STATION 2995 - 2997  
 ENTERED BY G. KORISKI DATE JULY 69 2995 - 2980  
 CHECKED BY G. KORISKI DATE JULY 69 HOLE ADVANCED BY 4" AUGER MCBIDE

SAMPLE NO.	PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.L.					
										21		ROAD BED FILL T.H. 21
												SANDY GRAVEL
29										10		
										22		ROAD BED FILL T.H. 22
												SANDY GRAVEL SOME COBBLES
30										10		
										23		ROAD BED FILL T.H. 23
												SAND, GRAVEL SOME COBBLES UP TO 8"
31										10		
										24		ROAD BED FILL T.H. 24
												SAND GRAVEL
32										10		

FINER BY HEIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
2"	100	# 4 29.4
1 1/2"	88.9	# 10 22.1
1"	74.4	# 20 16.0
3/4"	61.0	# 40 11.8
1/2"	48.5	# 100 7.2
3/8"	41.1	# 200 5.4

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	D50C	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY  
 LOCATION: STA. 2995  
 HOLE NO.: ..... DEPTH: 2 1/2' to 10'  
 SAMPLE TYPE: ..... DATE SAMPLED: JUNE 69  
 FIELD SAMPLE No. 29 LAB SAMPLE No. 2863  
 D. P. W. WHITEHORSE - SOILS LAB D. W.  
29-3-71

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

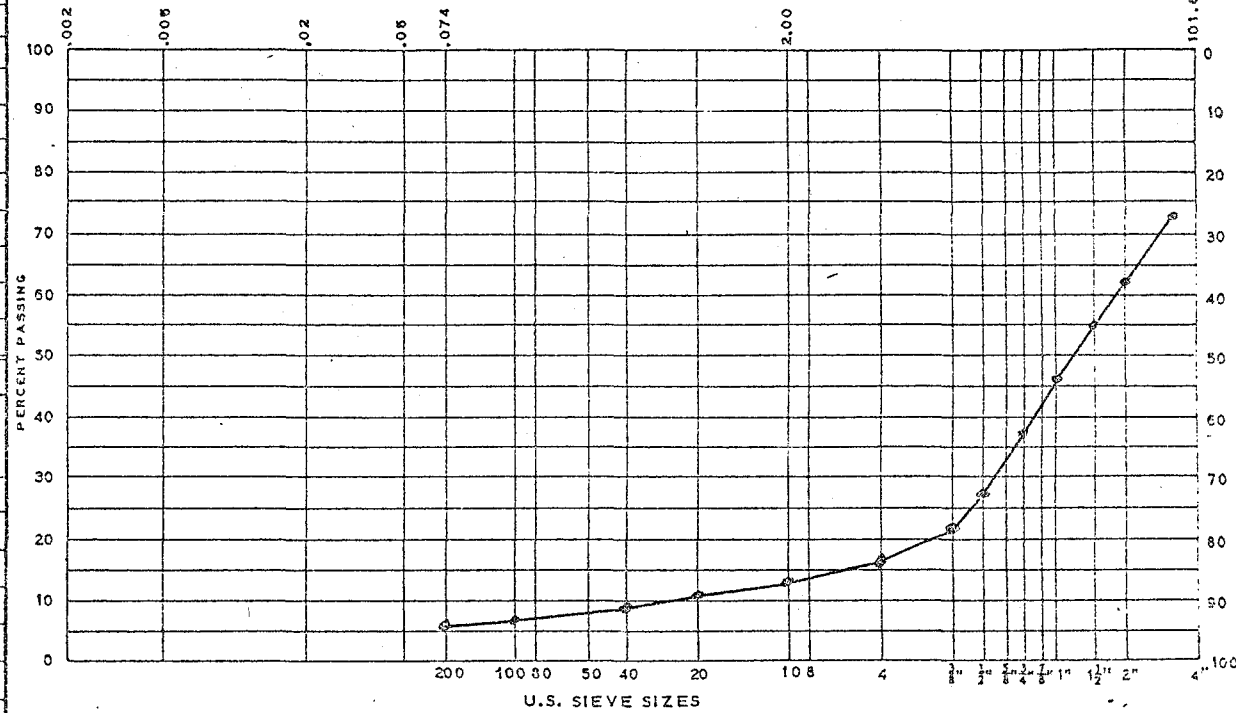
FINE AGGREGATE

ROCK TYPE	%

AGGREGATE DEPOSIT REPORT (Cont'd)

FINER BY EIGHT	SIEVE ANALYSIS			
	%			
5"	100			
3"	73.2	# 4	16.4	
2"	62.6	# 10	13.4	
1½"	55.4	# 20	11.1	
1"	46.2	# 40	9.4	
¾"	37.4	# 100	7.2	
½"	27.3	# 200	6.0	
⅜"	22.4			

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		POOR TO FAIR GRADED GRAVEL										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: \_\_\_\_\_  
 LOCATION: DEMPSTER HIGHWAY  
 HOLE NO.: \_\_\_\_\_ DEPTH: 2' to 10'  
 SAMPLE TYPE: STA. 299D DATE SAMPLED: JUNE 69  
 FIELD SAMPLE NO.: 30 LAB SAMPLE NO.: 2864  
 D. P. W. WHITEHORSE - SOILS LAB J. W.  
29-3-71

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

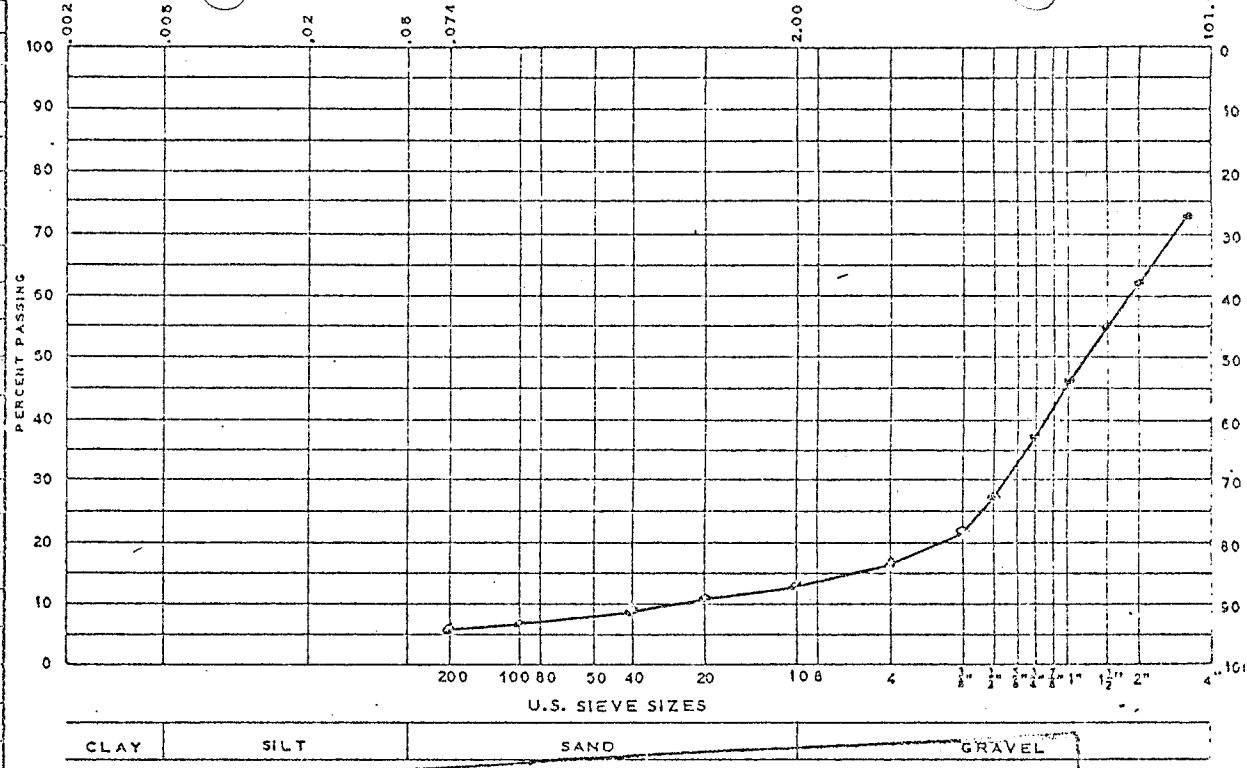
MATERIALS ENGINEER

DATE

SIEVE ANALYSIS  
SAMPLE NUMBER

FINER BY LIGHT	PERCENT	SIEVE	PERCENT
5"	100		
3"	73.2	# 4	16.4
2"	62.6	# 10	13.4
1 1/2"	55.4	# 30	11.1
1"	46.2	# 40	9.4
3/4"	37.4	# 100	7.2
1/2"	27.3	# 200	6.0
3/8"	22.4		

AGGREGATE GRADING CHART



PILE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DS <sub>10</sub> C	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		POOR to FAIR GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: \_\_\_\_\_

LOCATION: DEMPESTER HIGHWAY

HOLE NO. \_\_\_\_\_ DEPTH: 3' to 10'

SAMPLE TYPE: STA. 2985 DATE SAMPLED: JUNE 69

FIELD SAMPLE No. 31 LAB SAMPLE No. 2865

D. P. W. WHITEHORSE - SOILS LAB J. W.

29-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

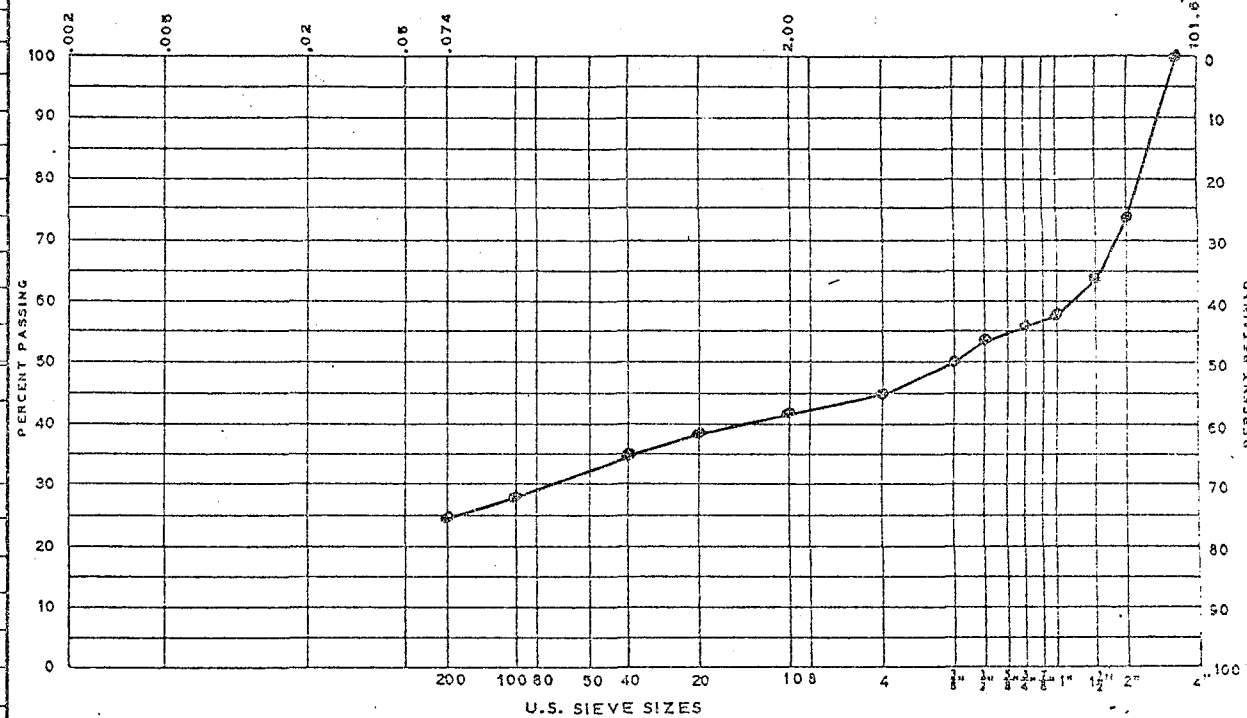
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

FINER BY SIEVE	SIEVE ANALYSIS	
	PERCENT	SAMPLE NUMBER
3"	100	# 4 45.1
2"	74.3	# 10 41.9
1 1/2"	63.9	# 20 38.7
1"	58.4	# 40 35.5
3/4"	56.2	# 100 28.7
1/2"	54.5	# 200 25.1
3/8"	50.4	

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.8	19.4	3.4							
		A-1-b										
		C.P.										
		POORLY GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT \_\_\_\_\_  
 LOCATION DEMPSTER HIGHWAY  
 HOLE NO. \_\_\_\_\_ DEPTH 3' - 10'  
 SAMPLE TIME STA. 2980 DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 32 LAB SAMPLE No. 28.66  
 D. P. W. WHITEHORSE - SOILS LAB J. M.  
 29-3-71

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

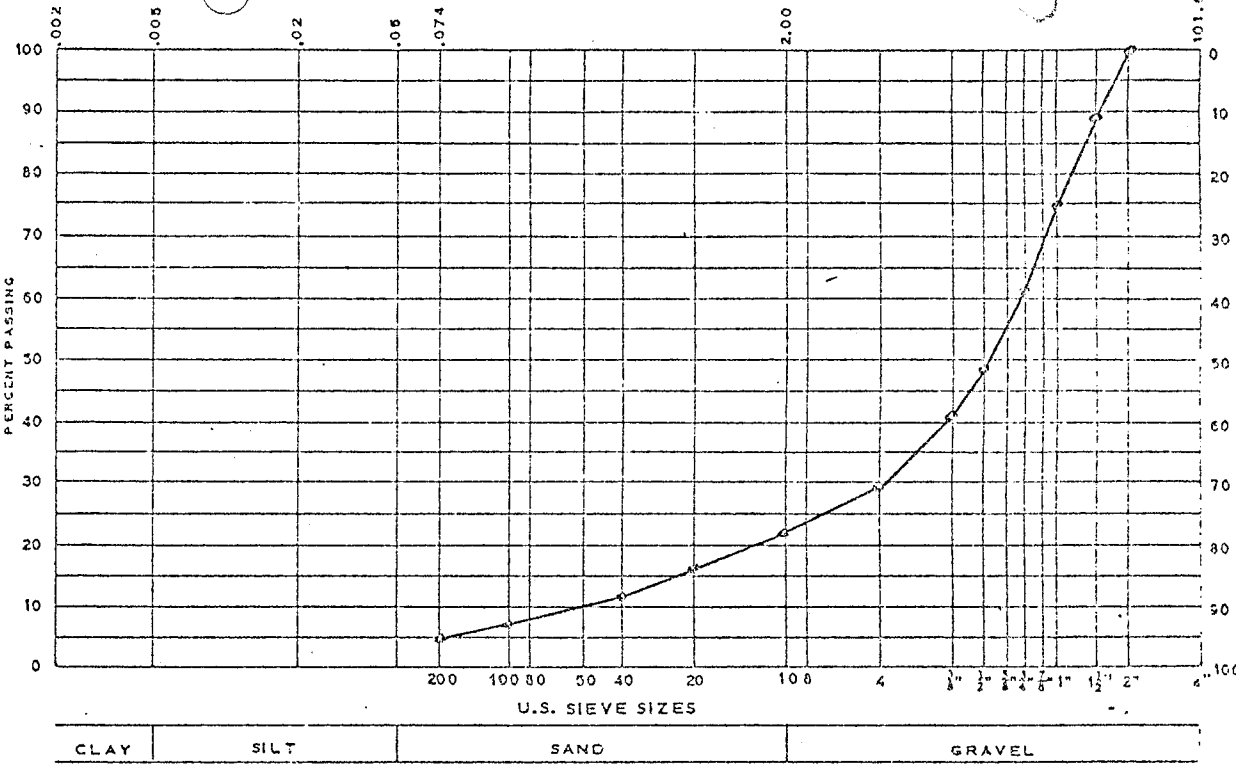
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSA, Y.T.

PROJECT DEMIDSTER HI WASH TEST HOLE NO. 25-26-27-28  
 LOGGED BY ED. MELANSON DATE JUNE 69 STATION 2975-2970  
 ENTERED BY G. KUBISKI DATE JUNE 69 2465 - 2460  
 CHECKED BY G. KUBISKI DATE JULY 69 HOLE ADVANCED BY 4" DIAMETER MOBILE

SAMPLE NO.	% PASSING				LIMITS			Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L	P.L	P.I					
33										10		T.H. <u>25</u> SAND GRAVEL with LARGE ROCKS UP TO 14"
34										4 1/2		ROAD FILL T.H. <u>26</u> FROZEN PERMAFROST (ROCK AT 9 FT) ORGANIC SILT, SAND
35 36										5 7 10		ROAD BED FILL T.H. <u>27</u> FROZEN ORGANIC FROZEN SAND, CLAY SMALL STONES.
37										3 10		ROAD FILL T.H. <u>28</u> SAND GRAVEL CLAY

		SIEVE ANALYSIS	
		SAMPLE NUMBER	
1/2"	100	# 4	29.4
"	83.9	# 10	22.1
"	74.4	# 20	16.0
"	61.0	# 40	11.8
"	48.5	# 100	7.2
"	41.1	# 200	5.4

AGGREGATE GRADING CHART



ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
	A-1-a			00							
	G.W.										
	WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY  
 LOCATION: STA. 2975  
 HOLE No. \_\_\_\_\_ DEPTH: 9' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 33 LAB SAMPLE No. 2867  
 D. M. W. WHITEHORSE - SOILS LAB D. W.

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

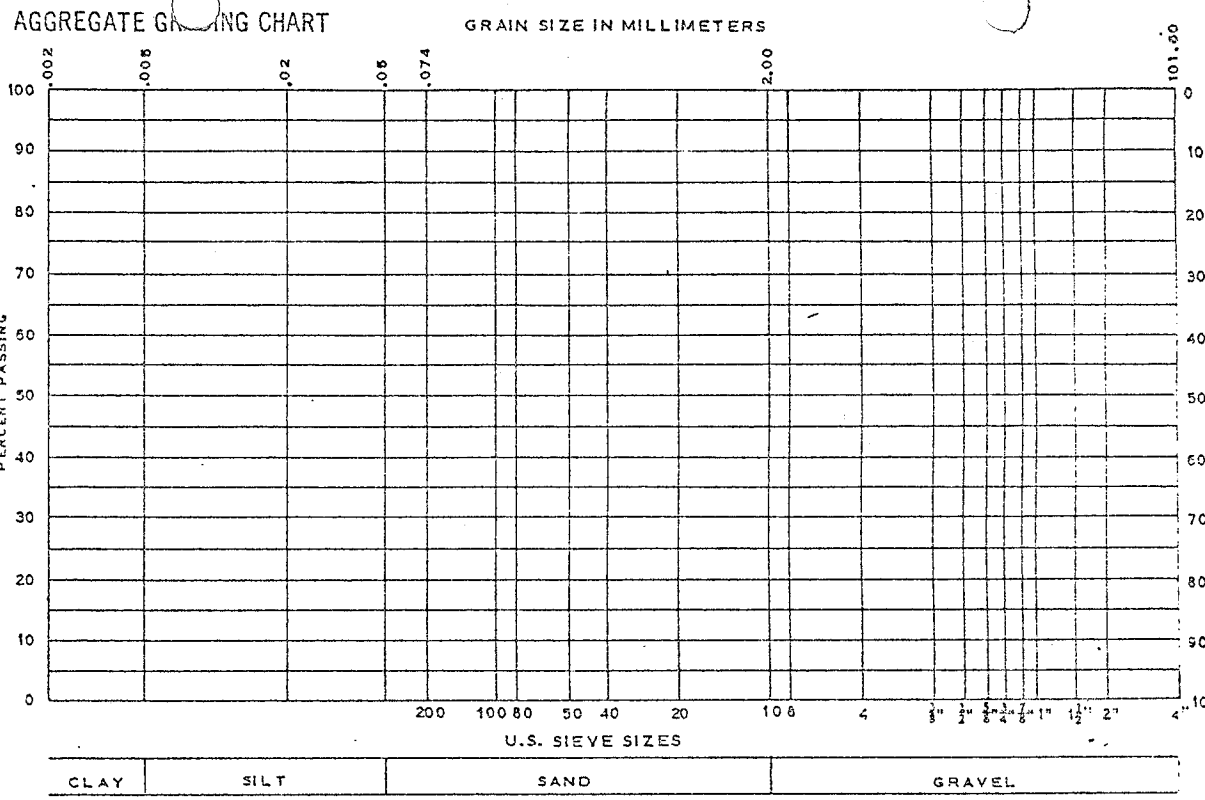
FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

% FINER BY WEIGHT		SIEVE ANALYSIS									
		SAMPLE NUMBER									
ORGANIC MATERIAL											
ORGANIC											



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT DEMONSTRATION HIGHWAY

LOCATION STA. 2970

HOLE No. \_\_\_\_\_ DEPTH 4 1/2 - 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 1969

FIELD SAMPLE No. 34 LAB SAMPLE No. 2868

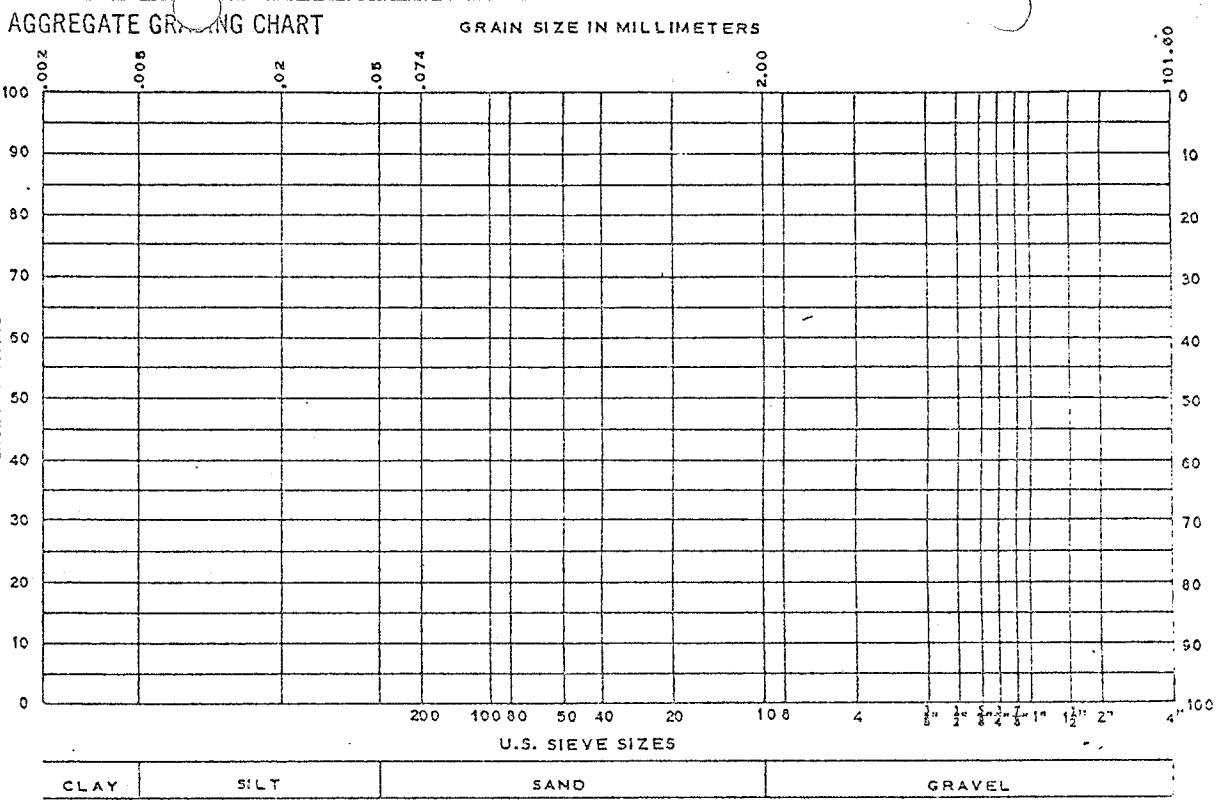
D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

23-3-71 DATE

MATERIALS ENGINEER'S REMARKS

FINER BY WEIGHT	SIEVE ANALYSIS				
	SAMPLE NUMBER				
ORGANIC MATERIAL					



TYPICAL PETROGRAPHIC ANALYSIS												
COARSE AGGREGATE												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MAG SO <sub>4</sub> % LOSS	DSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSEY HWY

LOCATION STA. 2965

HOLE No. \_\_\_\_\_ DEPTH 5'-7"

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED 9-6-69

FIELD SAMPLE No. 35 LAB SAMPLE No. 2869

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE 25-3-71

TYPICAL PETROGRAPHIC ANALYSIS	
FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

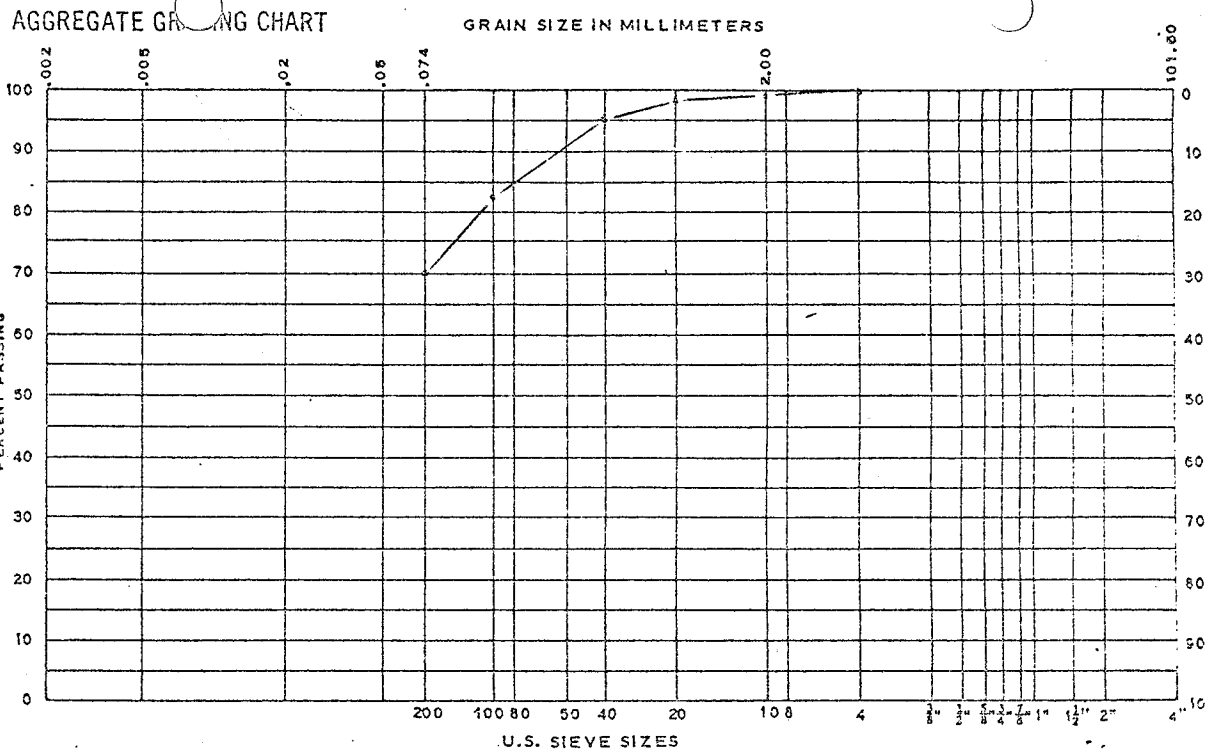
\_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT		SIEVE ANALYSIS				
		SAMPLE NUMBER				
100	#4					
71.3	#10					
65.2	#20					
44.9	#40					
33.3	#60					
20.0	#100					



AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	30.1	27.4	2.7							
		M.L.										
		SANDY SILT										

CLAY SILT SAND GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY RECORDS

PROJECT: DENVER AIRWAY STA 2965

LOCATION: DENVER AIRWAY STA 2965

HOLE No. DEPTH 7-10'

SAMPLE TYPE DATE SAMPLED JUN '69

FIELD SAMPLE No. 36 LAB SAMPLE No. 2870

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER DATE 25-3-71

FINE AGGREGATE

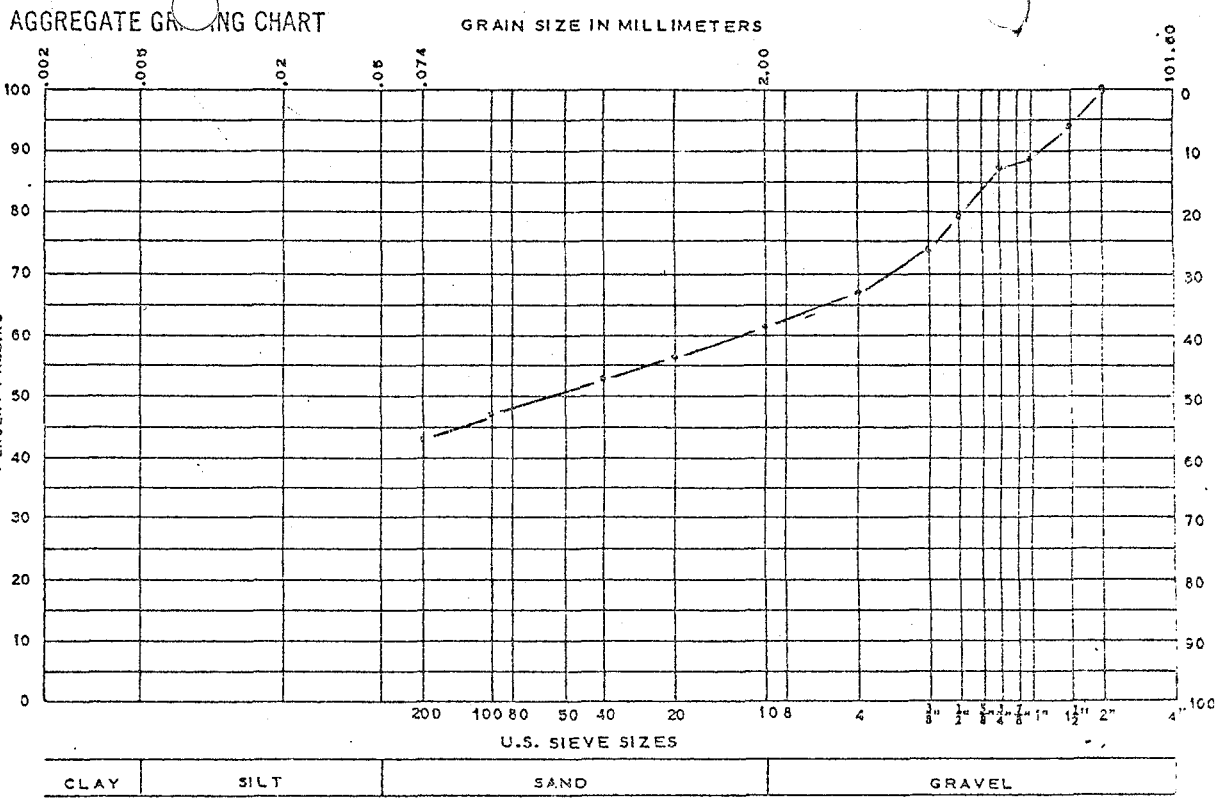
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

% FINER BY WEIGHT	SIEVE ANALYSIS				
	SAMPLE NUMBER				
100.0	2"	79.0	3/8"		
94.5	1 1/2"	66.6	3/4"		
89.2	1"	60.6	10"		
87.6	3/4"	56.6	20"		
76.7	1/2"	52.8	40"		
		46.5	100"		
		43.3	200"		



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	U.A. % LOSS	Mg SO4 % LOSS	D5PC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	21.7	17.0	4.7							
		S.M. - S.C.										
		SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HI-WAY

LOCATION: STA. 2960

HOLE NO.: \_\_\_\_\_ DEPTH: 3' 10"

SAMPLE TYPE: \_\_\_\_\_ DATE SAMPLED: JUNE 69

FIELD SAMPLE No. 37 LAB SAMPLE No. 2871

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER: \_\_\_\_\_ DATE: 25-3-77

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

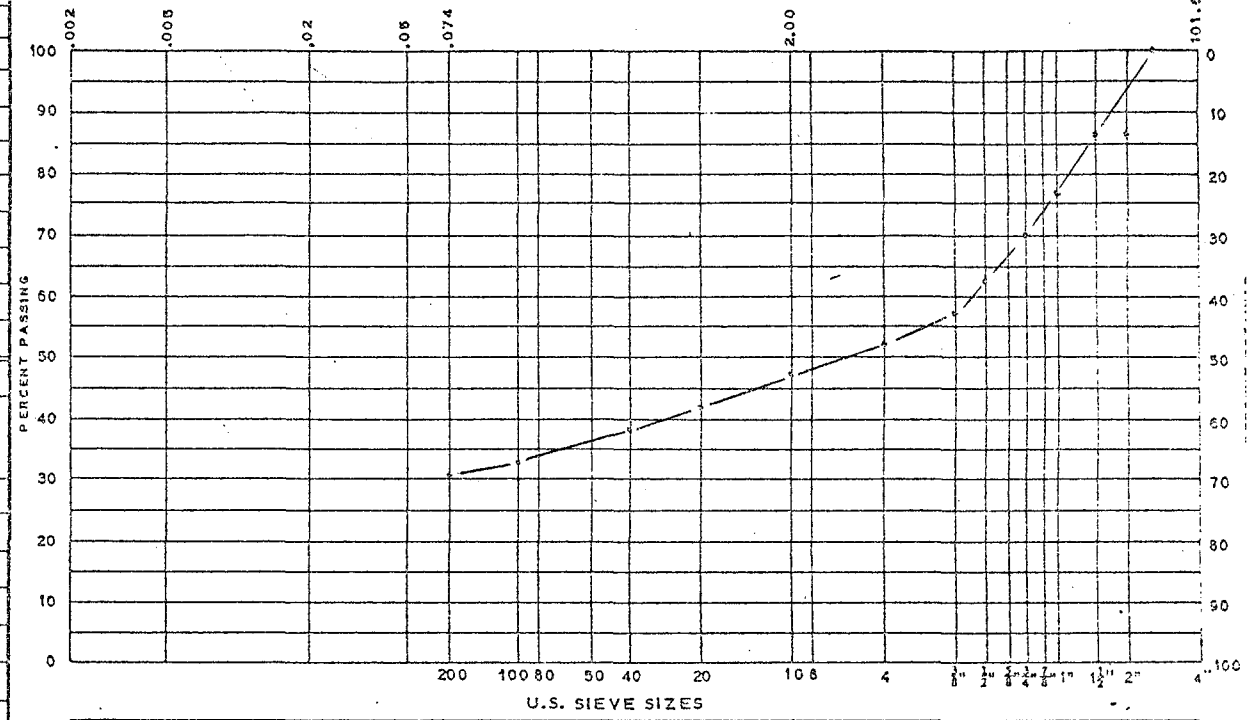
PROJECT DAMPSTER HIGHWAY TEST HOLE NO. 29-30-31-32  
 LOGGED BY ED. NELSON DATE JUNE 29 STATION 29.55-29.70-  
 ENTERED BY G. KUBISKI DATE JULY 19 2945-2940  
 CHECKED BY G. KUBISKI DATE JULY 19 HOLE ADVANCED BY 4" DOUGLAS McRICK

SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L	P.L	P.I					
38										6 10	ROAD BED FILL  SAND GRAVEL CLAY	<span style="border: 1px solid black; padding: 2px;">T.H. 29</span>
39										3 10	ROAD BED FILL  SAND, GRAVEL LARGE COBBLES.	<span style="border: 1px solid black; padding: 2px;">T.H. 30</span>
40										2 10	ROAD BED FILL  SAND, GRAVEL LARGE COBBLES.	<span style="border: 1px solid black; padding: 2px;">T.H. 31</span>
41										1 10	ROAD BED FILL  SAND, GRAVEL LARGE COBBLES WITH CLAY	<span style="border: 1px solid black; padding: 2px;">T.H. 32</span>

FINER BY EIGHT	SIEVE ANALYSIS	
	SAMPLE NUMBER	
47.0	3 1/2	47.2 #10
46.3	2	42.3 20
36.3	1 1/2	38.6 40
36.4	1	33.3 100
46.8	3/4	30.5 200
42.6	1/2	
57.1	3/8	
57.7	1/4	

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY SILT SAND GRAVEL

AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SOL. % LOSS	USPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.7	20.7	2.0							
		A-2-4										
		S.M.										
		SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMAREST HWY  
 LOCATION: STA. 2955  
 HOLE No. \_\_\_\_\_ DEPTH: 6'-10"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED \_\_\_\_\_  
 FIELD SAMPLE No. 38 LAB SAMPLE No. 2872  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

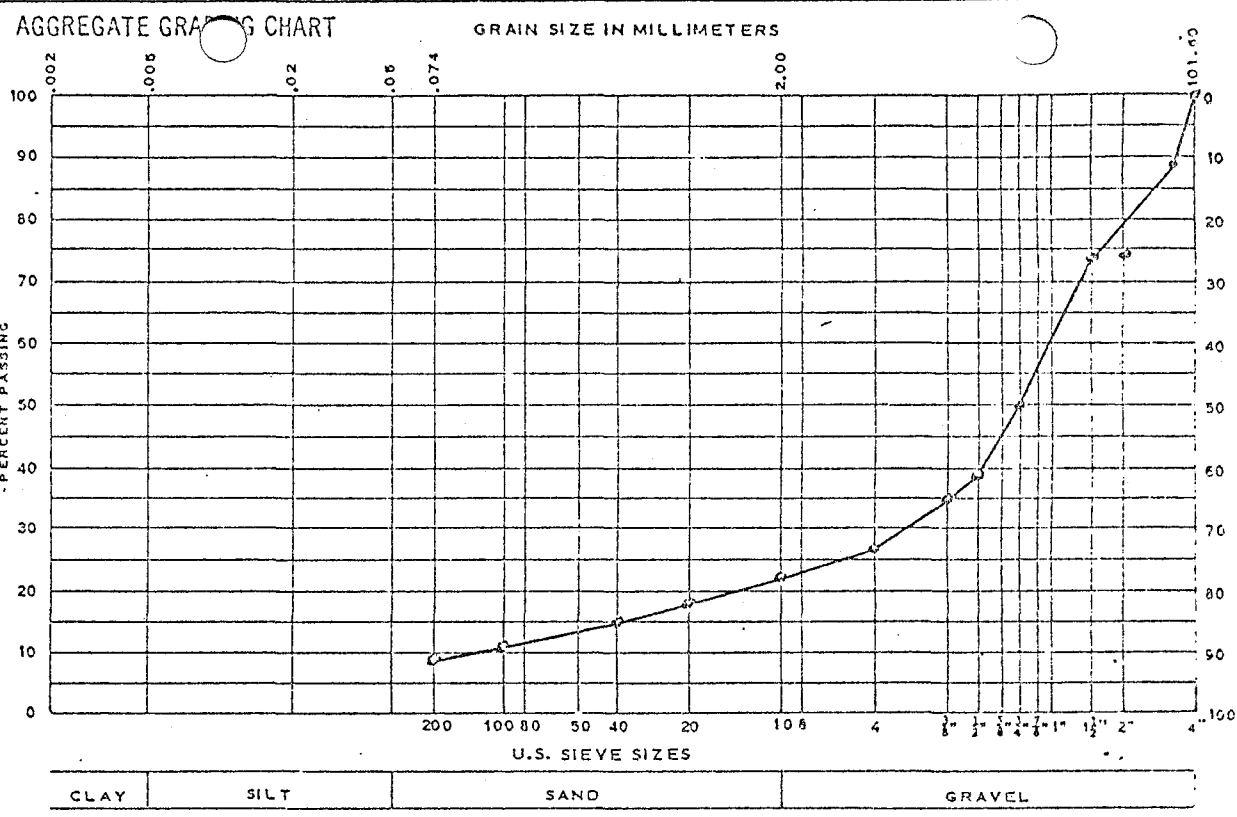
25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

SIEVE SIZE	SIEVE ANALYSIS	
	WEIGHT	SAMPLE NUMBER
# 4	70	70
# 10	100	27.0
# 20	98.4	23.5
# 40	77.0	18.0
# 100	74.0	15.0
# 200	64.3	11.4
# 425	49.4	9.5
# 600	39.6	
# 840	34.7	
+ 4"		



PL. E. O.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.C.S. % LOSS	B.S. %	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F. M.
		A-1-U			0.0							
		G.W.										
		FAIRLY WELL GRADED GRAVEL										

#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

#### LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY

LOCATION: STA. 2950

HOLE NO.: \_\_\_\_\_ DEPTH: 3' to 10'

SAMPLE TYPE: \_\_\_\_\_ DATE SAMPLED: JUNE 65

FIELD SAMPLE NO.: 39 LAB SAMPLE NO.: 2873

D. P. W. WHITEHORSE - SOILS LAB. J.W.

DATE: 29-3-71

##### FINE AGGREGATE

ROCK TYPE	%

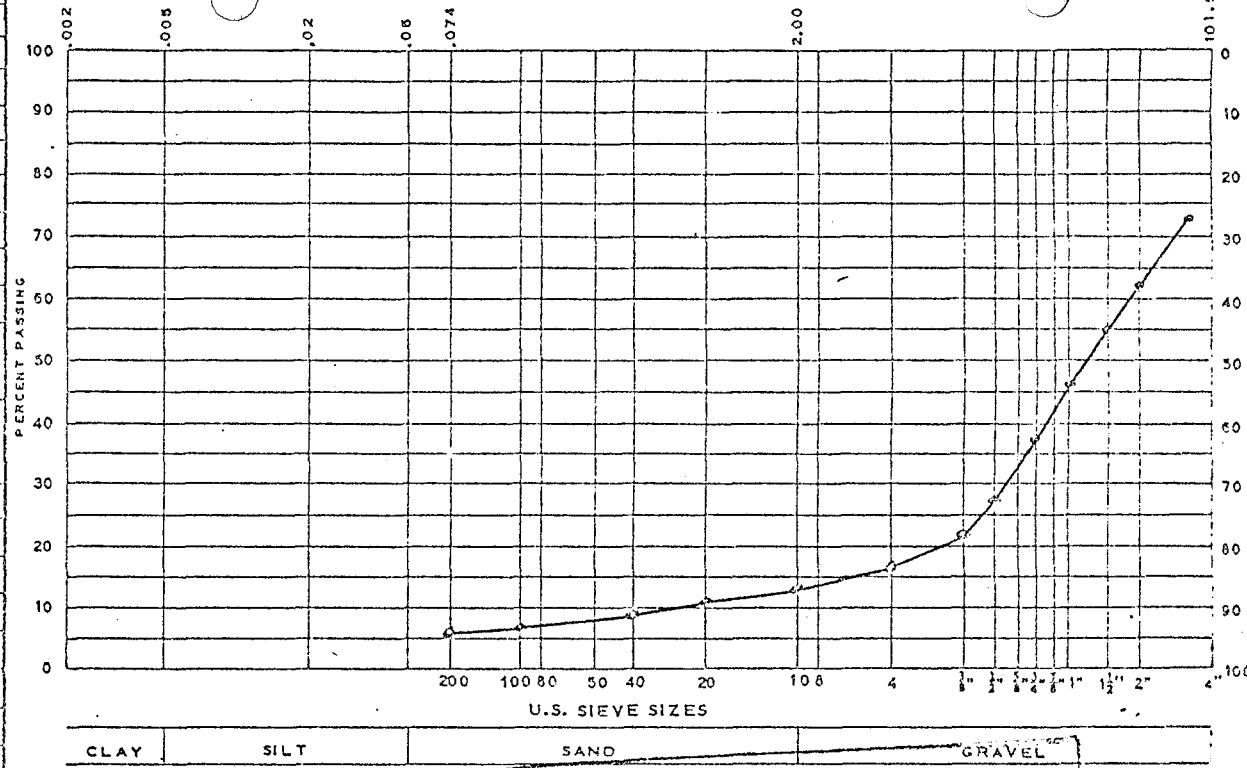
#### MATERIALS ENGINEER'S REMARKS

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

SIEVE ANALYSIS		SAMPLE NUMBER	
INER	%		
75"	100		
3"	75.2	# 4	16.4
2"	62.6	# 10	13.4
1.5"	53.4	# 20	11.1
1"	46.2	# 40	9.4
0.75"	37.4	# 100	7.2
0.6"	27.3	# 200	6.0
0.5"	22.4		

AGGREGATE GRADING CHART



PL. NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		POOR to FAIR GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: \_\_\_\_\_  
 LOCATION: DEMPSTER HIGHWAY  
 HOLE NO.: \_\_\_\_\_ DEPTH: 2' to 10'  
 SAMPLE TYPE: STA. 2945 DATE SAMPLED: JUNE 69  
 FIELD SAMPLE No.: 40 LAB SAMPLE No.: 2874  
 D. P. W. WHITEHORSE - SOILS LAB J. M. V.  
29-3-71

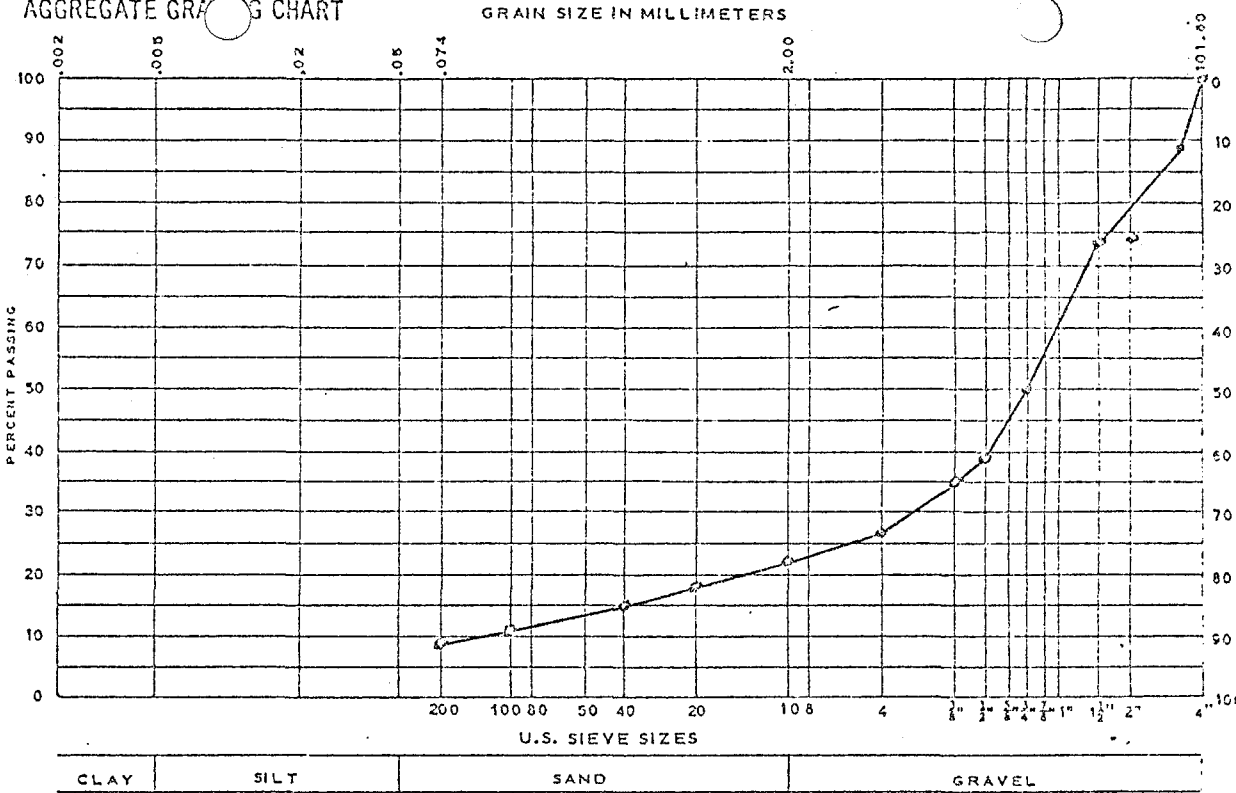
TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

SIEVE ANALYSIS	SAMPLE NUMBER	
	70	70
3"	1.00	# 7 27.0
"	58.4	# 10 22.5
"	77.0	# 20 18.0
3/4"	74.0	# 40 15.0
"	64.3	# 100 11.4
1/2"	49.4	# 200 9.5
"	39.6	
3/8"	34.7	

AGGREGATE GRADING CHART



CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MIC. SOL. % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
A-1-a			0.0							
C.W.										
FAIRLY WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 2940  
 HOLE NO. \_\_\_\_\_ DEPTH 3' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 65  
 FIELD SAMPLE No. 41 LAB SAMPLE No. 2875  
 D. P. W. WHITEHORSE - SOILS LAB J. W.  
29-3-71

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HIGHWAY TEST HOLE NO. 33-34-35-36  
 LOGGED BY ED. MELANSON DATE JULY 69 STATION 2935+ 2930  
 ENTERED BY G. KUBISKI DATE JULY 69 2925 - 2920  
 CHECKED BY G. KUBISKI DATE JULY 69 HOLE ADVANCED BY 4" JIGGER MOBILE

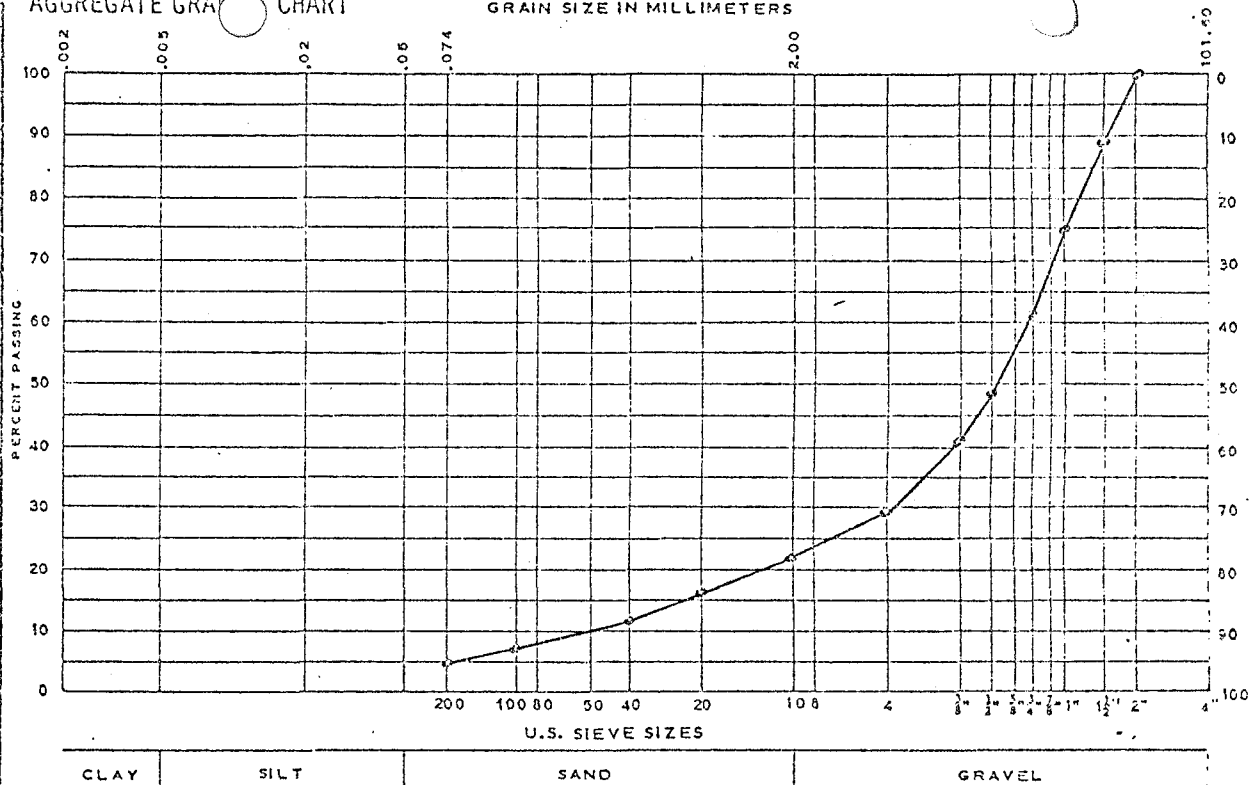
SAMPLE NO.	% PASSING LIMITS			L.L.	P.L.	P.I.	Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10								
									3		ROAD BED FILL T.H. 33
42									10		SAND GRAVEL LARGE COBBLES
									3		ROAD FILL T.H. 34
43									10		SAND GRAVEL COBBLES
									4		ROAD BED FILL T.H. 35
44									9		SAND CLAY
									10		GRAVEL COBBLES
									5		ROAD BED FILL T.H. 36
45									10		GRAVEL COBBLES SAND
											SAND, CLAY SILT DAMP.

SIEVE ANALYSIS  
SAMPLE NUMBER

DEPTH	7/8"	# 4	# 10	# 20	# 40	# 100	# 200
"	100	29.4					
2"	88.9	22.1					
"	74.4	16.0					
"	61.0	11.8					
"	48.5	7.2					
"	41.1	5.4					

AGGREGATE GRAPH CHART

GRAIN SIZE IN MILLIMETERS



DEPTH	ELEV. OP. DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 504 % LOSS	OSP.C	COLOUR	% WATER ABSORB.	% ASPH. ADSORB.	P.M.
		A-1-a			00							
		G.W.										
		WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 29.35  
 HOLE NO. \_\_\_\_\_ DEPTH 3' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 42 LAB SAMPLE No. 2876  
 D. P. W. WHITEHORSE - SOILS LAB D. W.

TESTING ENGINEER

DATE

29-3-71

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

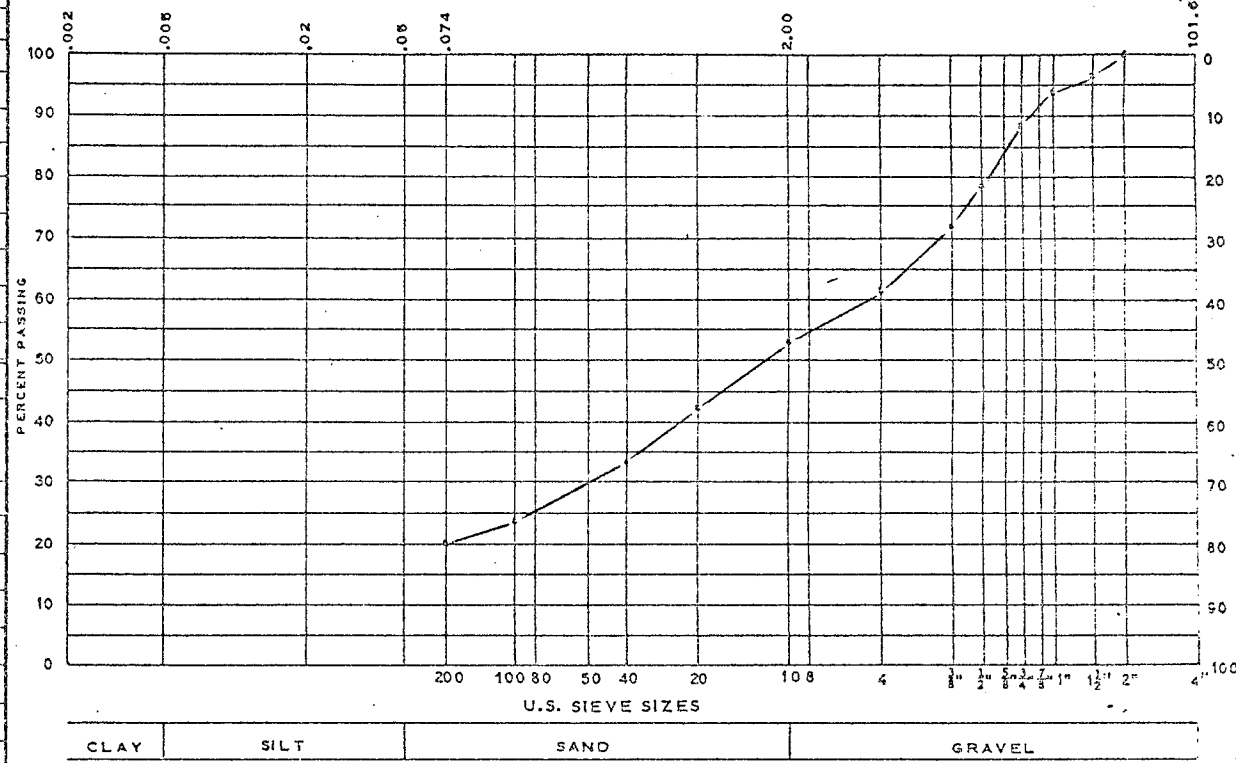
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

FINER BY WEIGHT	SIEVE ANALYSIS			
	SAMPLE NUMBER			
100	2"	61.2	74	
76.7	1 1/2"	53.1	10	
74.1	1"	42.7	20	
33.5	3/4"	33.6	40	
23.8	1/2"	23.9	100	
76.7	3/8"	200	200	

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



EMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.8	18.4		3.4						
		A-1-b										
		G.W.										
		WELL GRADED GRAVEL										
		21.8-1										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT DEARBSTER HWY  
 LOCATION STA. 2930  
 HOLE No. \_\_\_\_\_ DEPTH 3'-10"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 43 LAB SAMPLE No. 2877  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

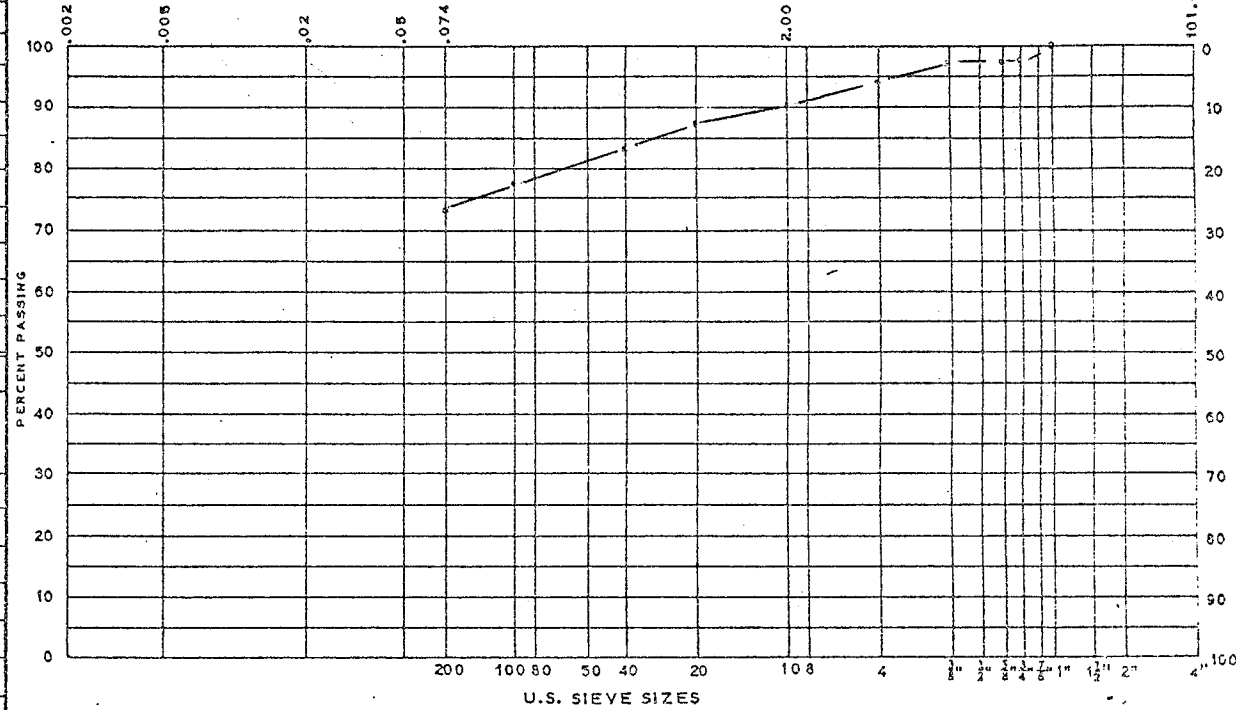
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

FINER BY WEIGHT	SIEVE ANALYSIS													
	SAMPLE NUMBER													
100.0	1"		40.3	#10										
97.6	3/4"		36.6	#20										
97.6	1/2"		33.7	#40										
97.6	3/8"		77.2	#40										
91.7	1/4"		75.4	#200										
%														
* + 4"														
AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	U.A. % LOSS	MG SO4 % LOSS	DSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.		
		A-4	30.1	27.4	2.7									
		M.L.												
		SANDY SILT												

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY	SILT	SAND	GRAVEL
------	------	------	--------

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

FINE AGGREGATE

ROCK TYPE

LABORATORY REMARKS

PROJECT  
 LOCATION: DEMPSTER HI-WAY STA. 2925  
 HOLE No. \_\_\_\_\_ DEPTH 4.9'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE '69  
 FIELD SAMPLE No. 49 LAB SAMPLE No. 2878  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

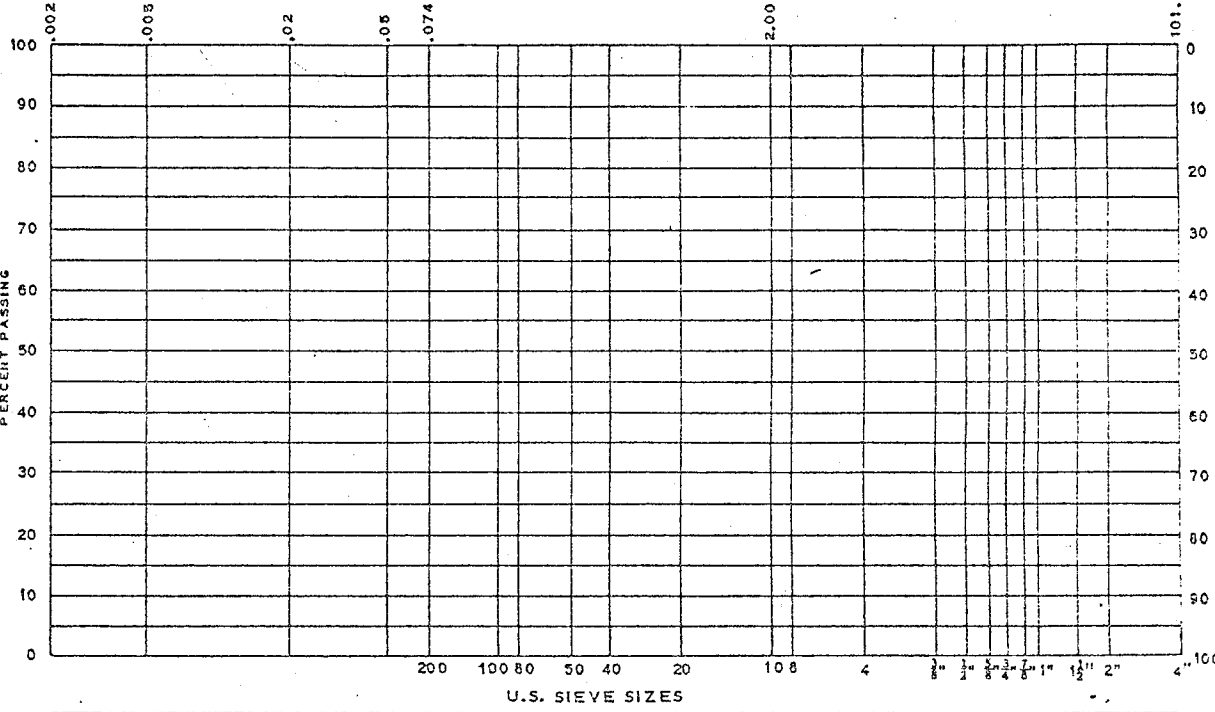
MATERIALS ENGINEER

DATE

FINER BY WEIGHT		SIEVE ANALYSIS SAMPLE NUMBER																				
96.5% PASSING #200 SIEVE																						
% + 4"																						
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MC SO <sub>4</sub> % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.										
		A-4 M-L SILT-FINE SAND MIXTURE				0.0																

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY	SILT	SAND	GRAVEL
------	------	------	--------

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2920

HOLE No. \_\_\_\_\_ DEPTH 5' to 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. #45 LAB SAMPLE No. 2879

D. P. W. WHITEHORSE - SOILS LAB J. M.

26-3-71

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

TESTING ENGINEER

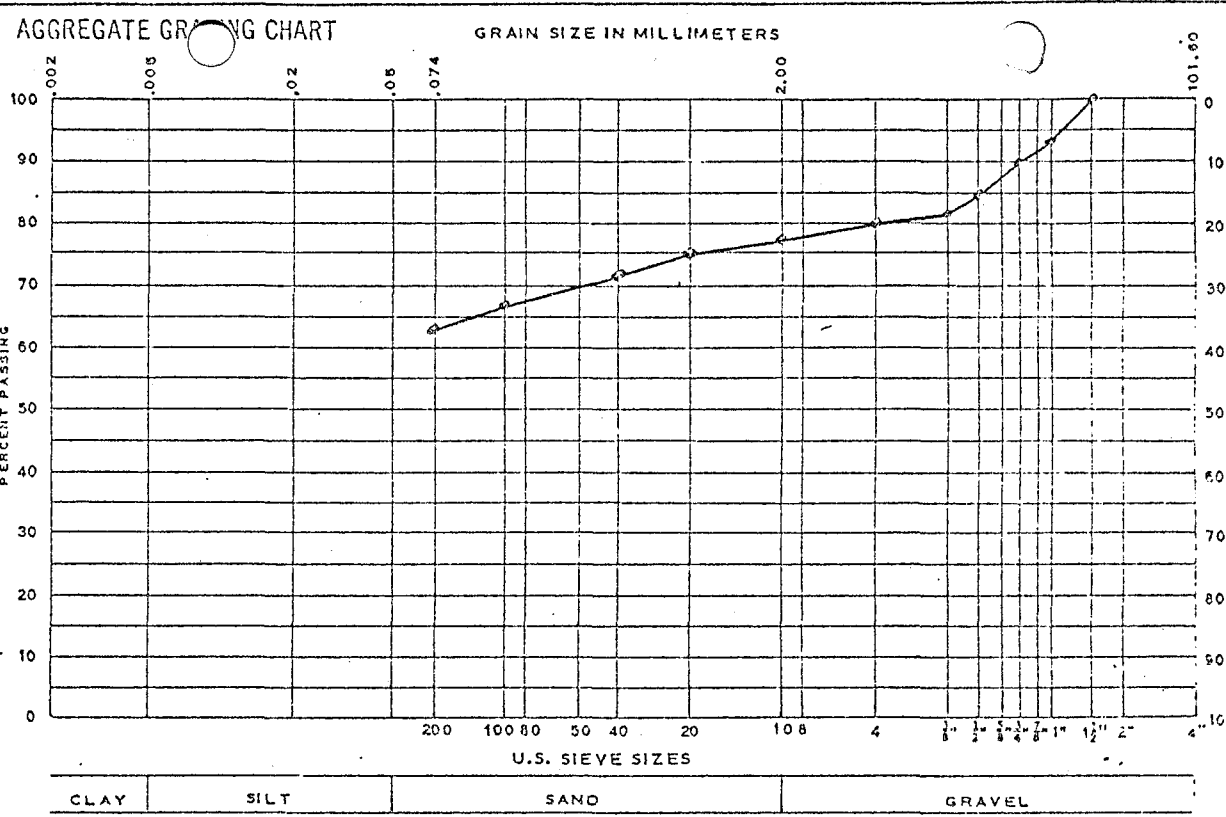
DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMESTER HIGHWAY TEST HOLE NO. 37-38-39-40  
 LOGGED BY ED. MELVINSON DATE JUNE 19 STATION 2915 - 2910 - 2905  
 ENTERED BY G. KORISKI DATE JULY 19 2900  
 CHECKED BY G. KORISKI DATE JULY 19 HOLE ADVANCED BY 4' JAGER MOBILE

SAMPLE NO.	PASSING LIMITS						Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L	P.L					
											ROAD BED FILL T.H. <u>37</u>
								5			
<u>46</u>											DAMP SILTY SAND
								10			
								12			
											ROAD FILL 0-24' T.H. <u>38</u>
											GRAVEL & COBBLES.
								10			
								24			
											ROAD BED FILL T.H. <u>39</u>
								2			SAND, GRAVEL LARGE COBBLES
<u>47</u>											
								10			
								12			
											ROAD BED FILL T.H. <u>40</u>
											SAND GRAVEL LARGE ROCK,
<u>48</u>											
								10			

FINER BY SIGHT		SIEVE ANALYSIS SAMPLE NUMBER	
1/2"	93.7	# 4	79.7
"	↓	# 10	77.6
3/4"	90.0	# 20	74.9
2"	85.2	# 40	72.1
3"	82.5	# 100	67.0
		# 200	62.9



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSOC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.2	21.1	4.1							
		A-4										
		M.L.										
		SANDY SILT WITH SLIGHT PLASTICITY										

#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

#### LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY

LOCATION: STA. 2915

HOLE NO. \_\_\_\_\_ DEPTH: 5' to 12'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 69

FIELD SAMPLE NO. 46 LAB SAMPLE No. 2880

D. P. W. WHITEHORSE - SOILS LAB

G.M.  
29-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

##### FINE AGGREGATE

ROCK TYPE	%

#### MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

AGGREGATE DEPOSIT REPORT (Cont'd)

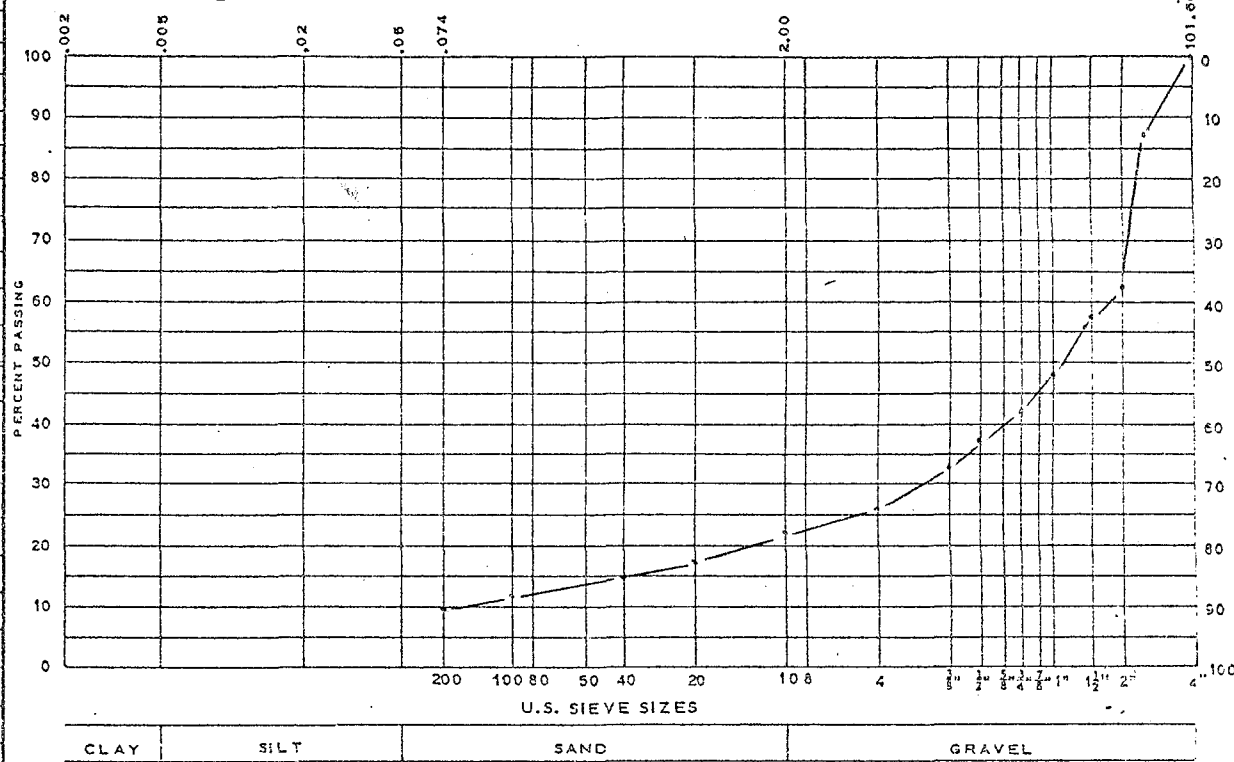
SHEET

FINER BY WEIGHT	SIEVE ANALYSIS		SAMPLE NUMBER	
100.0	4"	25.5	#4	
86.5	3	21.7	#10	
72.5	2	17.7	20	
57.6	1 1/2	14.9	40	
47.7	1	11.4	100	
41.7	3/4	7.8	200	
37.3	1/2			
33.3	3/8			
	#4	WITH FINESS		
% + 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SOL. % LOSS	DSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a				10						
		G.P.										
		POOR TO FAIR GRADED GRAVEL										

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT DEWSTER HIGHWAY  
 LOCATION .....  
 HOLE No. .... DEPTH .....  
 SAMPLE TYPE ..... DATE SAMPLED JUNE 1967  
 FIELD SAMPLE No. .... LAB SAMPLE No. 2881 & 2882  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

2881-2'-10' - STA. 2905 - 47  
 2882-3'-10' - " 2900 - 48

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMIDSTER HI - W. 9V TEST HOLE NO. 41 - 42 - 43 - 44  
 LOGGED BY ED MELANSON DATE JUNE 69 STATION 2895 2890  
 ENTERED BY G. KRZYSKI DATE JULY 69 2895 2890  
 CHECKED BY G. KRZYSKI DATE JULY 69 HOLE ADVANCED BY W. J. GIBR.

SAMPLE NO.	% PASSING			LIMITS			Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L	P.L					
									4		ROAD BED FILL T.H. <u>41</u>
									10		SAND, GRAVEL COBBLES
49											
									4 1/2		ROAD BED FILL T.H. <u>42</u>
									10		SILTY SAND CLAY
50											
									4		ROAD FILL T.H. <u>43</u>
									8		SILTY, SAND
51									10		GRAVEL COBBLES SILT SAND
52											
									4		ROAD BED FILL T.H. <u>44</u>
									9		SILT SAND CLAY
53									10		(NOTE 9' ROCKS.)

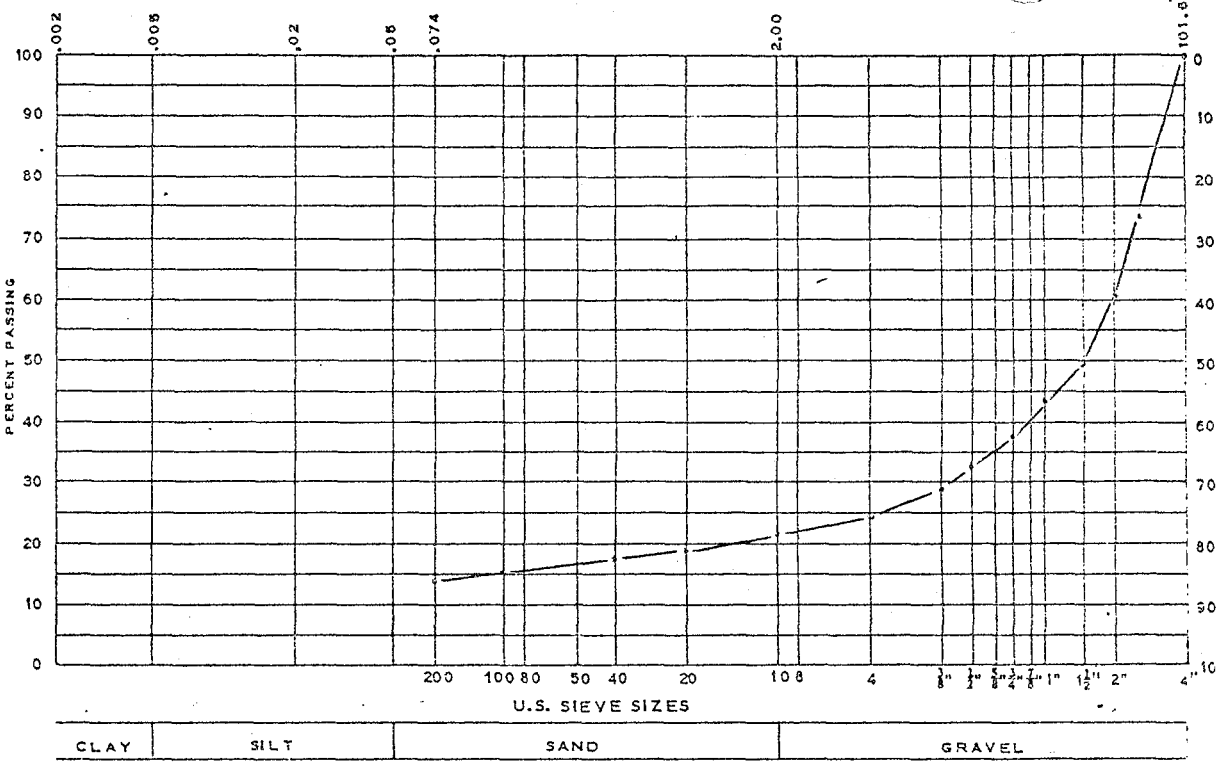
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

OF

% FINER BY WEIGHT	SIEVE ANALYSIS			
	SAMPLE NUMBER			
100	4"	21.5	#10	
73.6	3	19.0	20	
60.3	2	17.5	40	
49.7	1 1/2	15.2	100	
43.8	1	14.1	200	
37.2	3/4			
32.5	1/2			
29.1	3/8			
24.5	#4			
% + 4"				

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.G. SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.W.										
WELL GRADED GRAVEL												
DRTT.												

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEWASIEK #1-WAY

LOCATION.....

HOLE No. .... DEPTH.....

SAMPLE TYPE..... DATE SAMPLED JUL 69

FIELD SAMPLE No. .... LAB SAMPLE No. 2883-49

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

2883 - 4'-10' - STA. 2875 SAMPLE # 49

2886 - 8'-10' " 2885 " # 57

MATERIALS ENGINEER

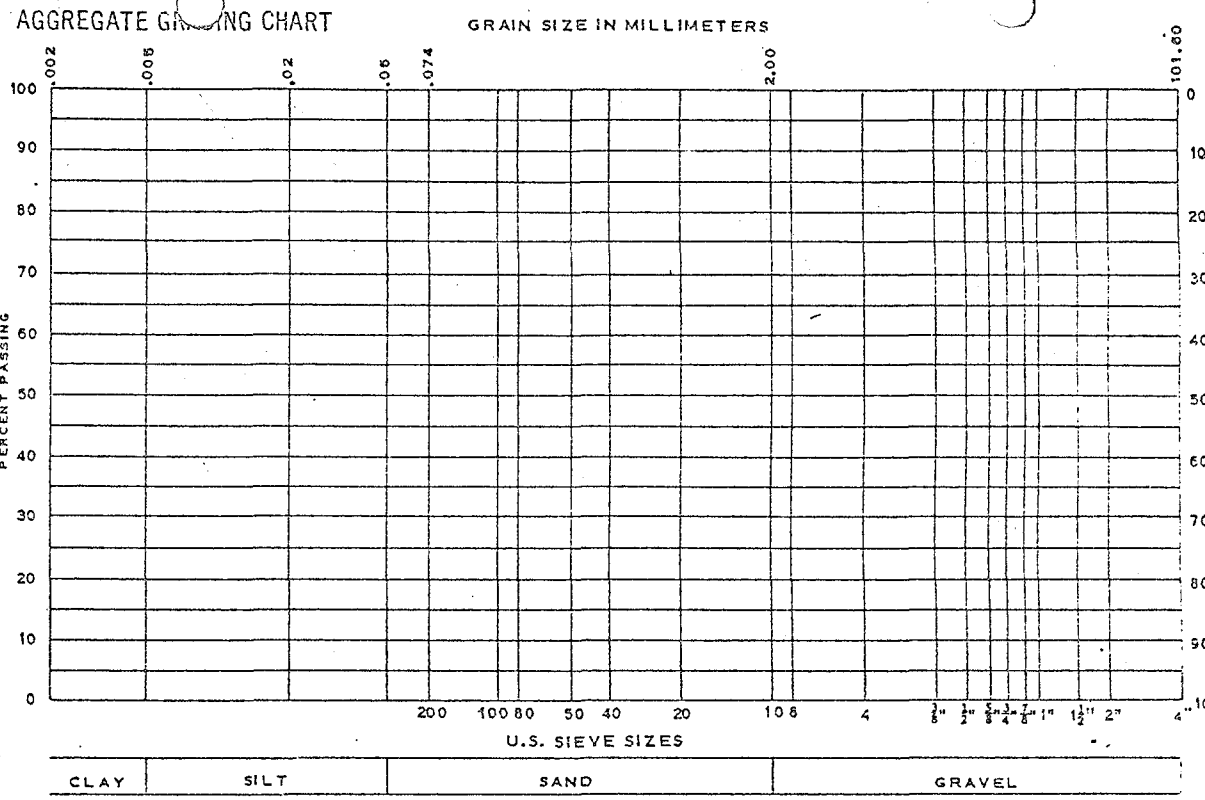
DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS									
	SAMPLE NUMBER									
93.6% PASSING # 200 SIEVE										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A.		D.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
						% LOSS	Mg SO <sub>4</sub> % LOSS					
		A-4	24.2				22.3	1.9				
SILT WITH VERY FINE SAND												



TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATOR'S REMARKS

PROJECT: DEMPSTER HIGHWAY

LOCATION: STA. 2890

HOLE No. \_\_\_\_\_ DEPTH: 4 1/2 to 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 69

FIELD SAMPLE No. 50 LAB SAMPLE No. 2884

D. P. W. WHITEHORSE - SOILS LAB G.W.

29-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

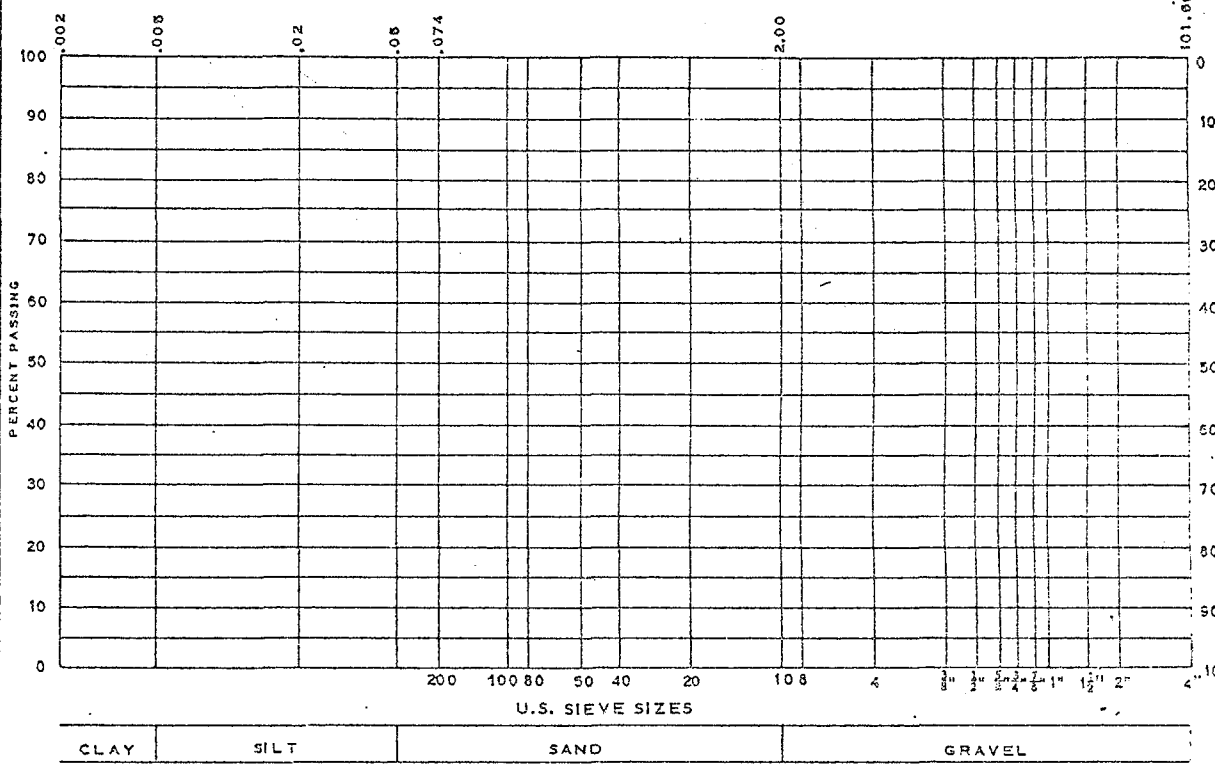
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT		SIEVE ANALYSIS										
		SAMPLE NUMBER										
		91.5% PASSING # 300 SIEVE										
% + 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	23.1	20.3		2.8						
		M.L. SILT WITH VERY FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 2885  
 HOLE No. \_\_\_\_\_ DEPTH 4' to 8'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 57 LAB SAMPLE No. 2885  
 D. P. W. WHITEHORSE - SOILS LAB J.W.  
26-3-71

TESTING ENGINEER

DATE

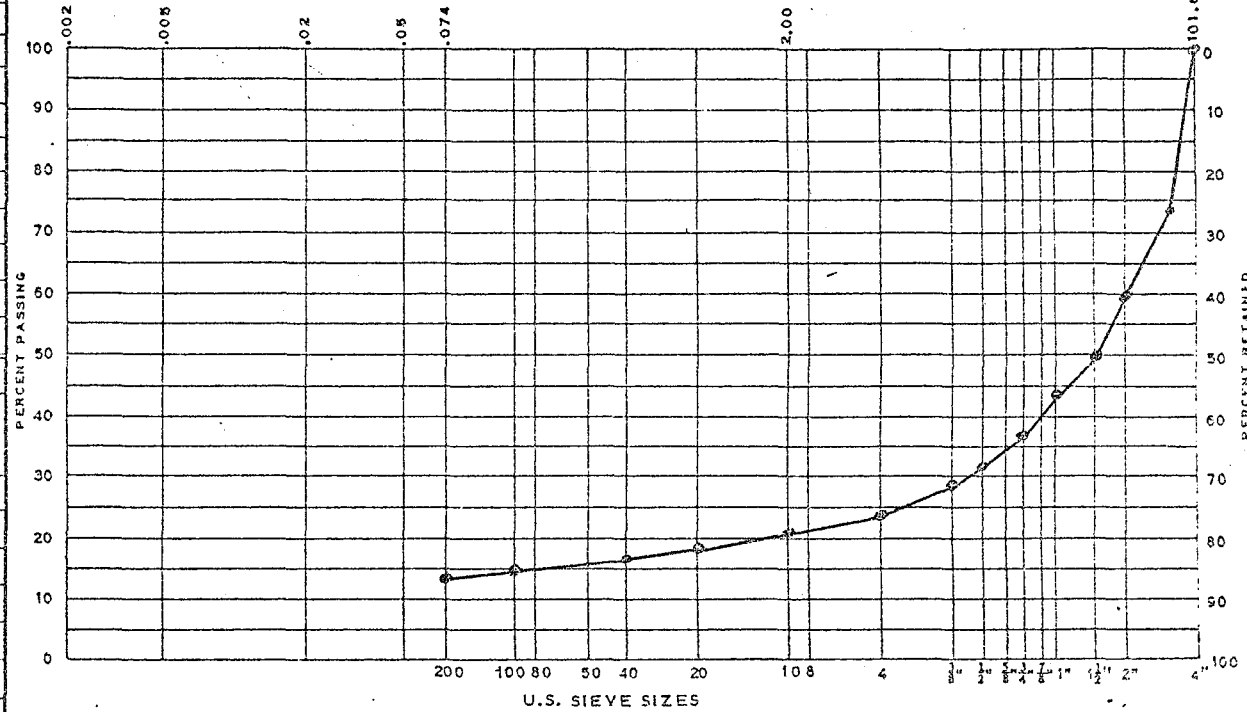
MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

FINER BY EIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
4"	100	# 4 24.5
3"	73.6	# 10 21.3
2"	60.3	# 20 19.0
1 1/2"	49.7	# 40 17.3
1"	43.8	# 100 15.2
3/4"	37.2	# 200 14.1
1/2"	32.5	
3/8"	29.1	

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		C-16										
		WELL GRADED GRAVEL										
		DIRTY										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA 2885  
 HOLE No. \_\_\_\_\_ DEPTH 8' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 6, 1971  
 FIELD SAMPLE No. 52 LAB SAMPLE No. 2886  
 D. P. W. WHITEHORSE - SOILS LAB J.M.  
26-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

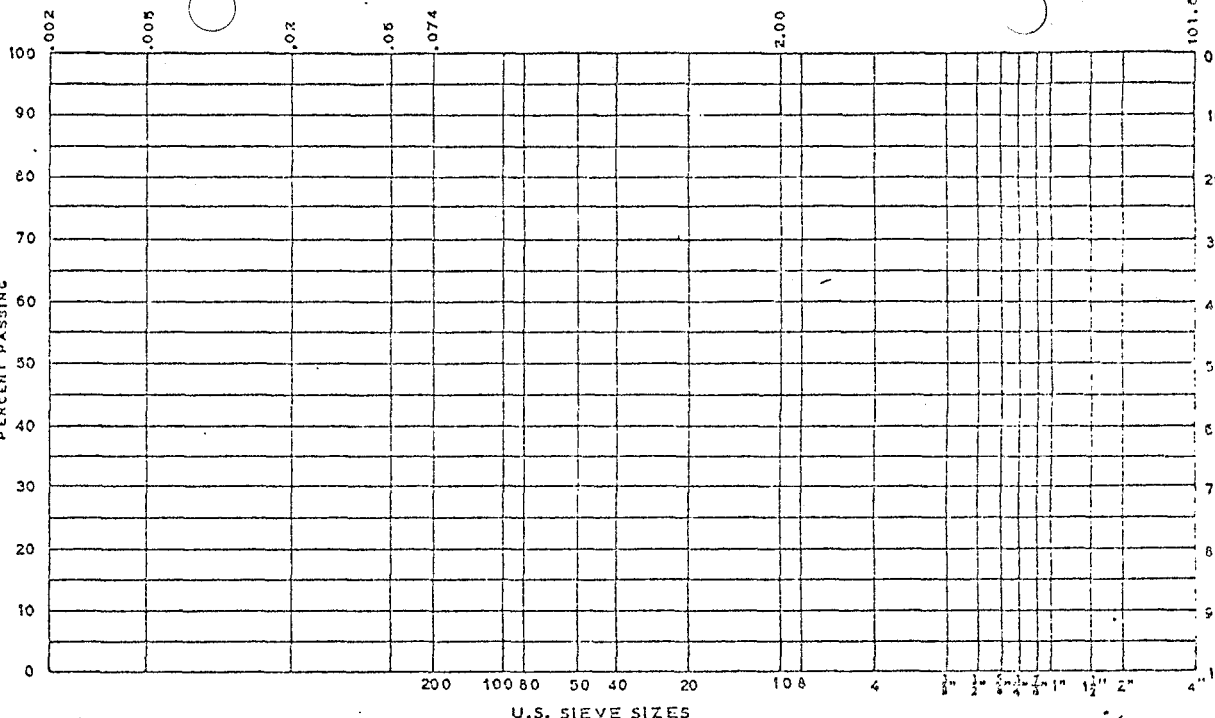
FINER  
BY  
LIGHT

SIEVE ANALYSIS  
SAMPLE NUMBER

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

78.1% PASSING #200 SIEVE



APL #	EL. OR V. DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MC SOA % LOSS	DSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	Z.M.
		A-4				0.0						
SILT - FINE SAND MIXTURE												

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 2880  
 HOLE No. \_\_\_\_\_ DEPTH 4' to 9'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 53 LAB SAMPLE No. 2887  
 D. P. W. WHITEHORSE - SOILS LAB g.w.

29-3-71

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

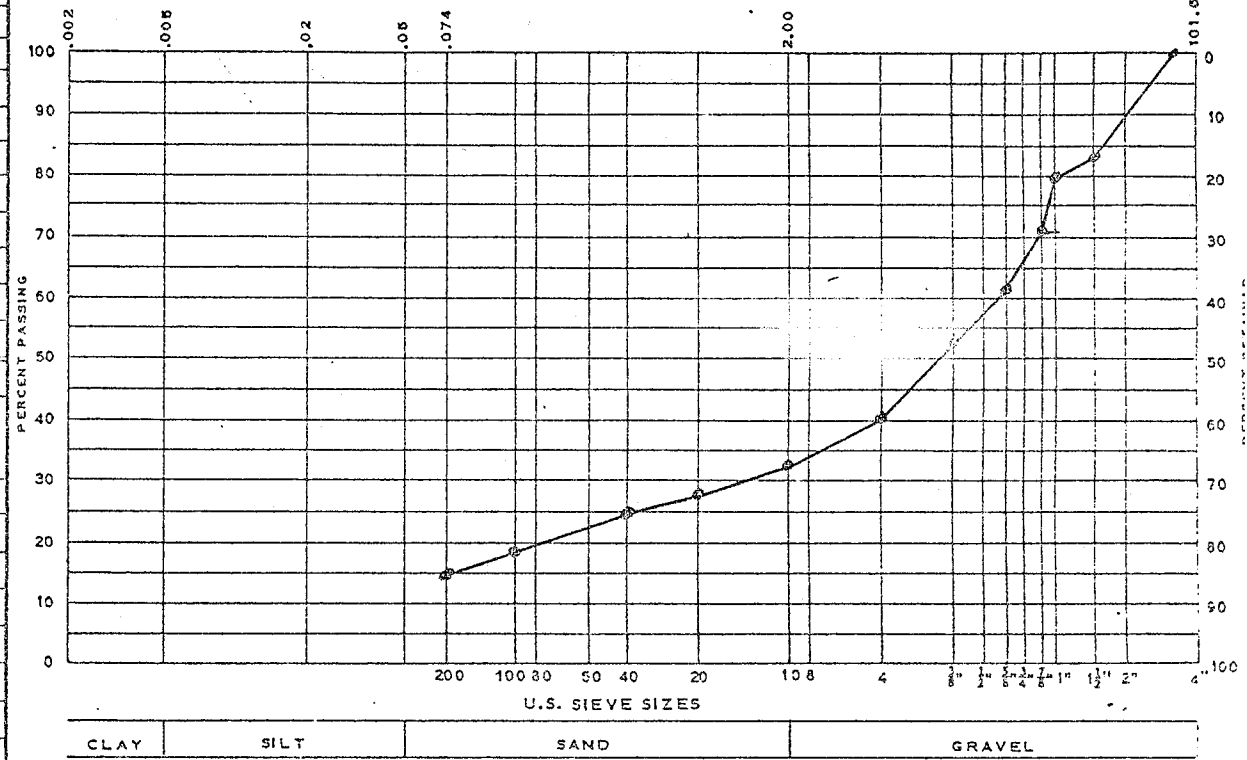
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSIER Highway TEST HOLE NO. 45-46-47-48  
 LOGGED BY ED MELGONSON DATE JUNE 69 STATION 2875 - 2870 + 00  
 ENTERED BY G. KUBISKI DATE JULY 69 2865 2860  
 CHECKED BY G. KUBISKI DATE JULY 69 HOLE ADVANCED BY 4" OILER MOBILE

SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.I.					
												ROAD BED FILL <span style="float: right;">T.H. <u>45</u></span>
										5		
54										10		SAND GRAVEL COBBLES
												ROAD BED FILL <span style="float: right;">T.H. <u>46</u></span>
										4		
55										10		SAND GRAVEL SILT COBBLES.
												ROAD BED FILL <span style="float: right;">T.H. <u>47</u></span>
										5		
56										7		PARTLY FROZEN BLACK CLAY SILT.
57										10		FROZEN SILTY SANDY CLAY
												ROAD BED FILL <span style="float: right;">T.H. <u>48</u></span>
										4 1/2		
70												SILT, SAND GRAVEL.
										10		

FINER BY EIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
3"	100	# 4 40.5
1 1/2"	83.5	# 10 33.7
1"	80.6	# 20 28.3
3/4"	71.4	# 40 24.7
1/2"	61.1	# 100 19.2
3/8"	53.6	# 200 15.2

AGGREGATE GRADING CHART



EMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MC SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			18.9	17.6		1.3						
		A-1-b										
		C-W.										
		WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT..... DEMPSTER HIGHWAY  
 LOCATION..... STA 2875  
 HOLE No..... DEPTH..... 5' to 10'  
 SAMPLE TYPE..... DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 54 LAB SAMPLE No. 2888  
 D. P. W. WHITEHORSE - SOILS LAB J.W.

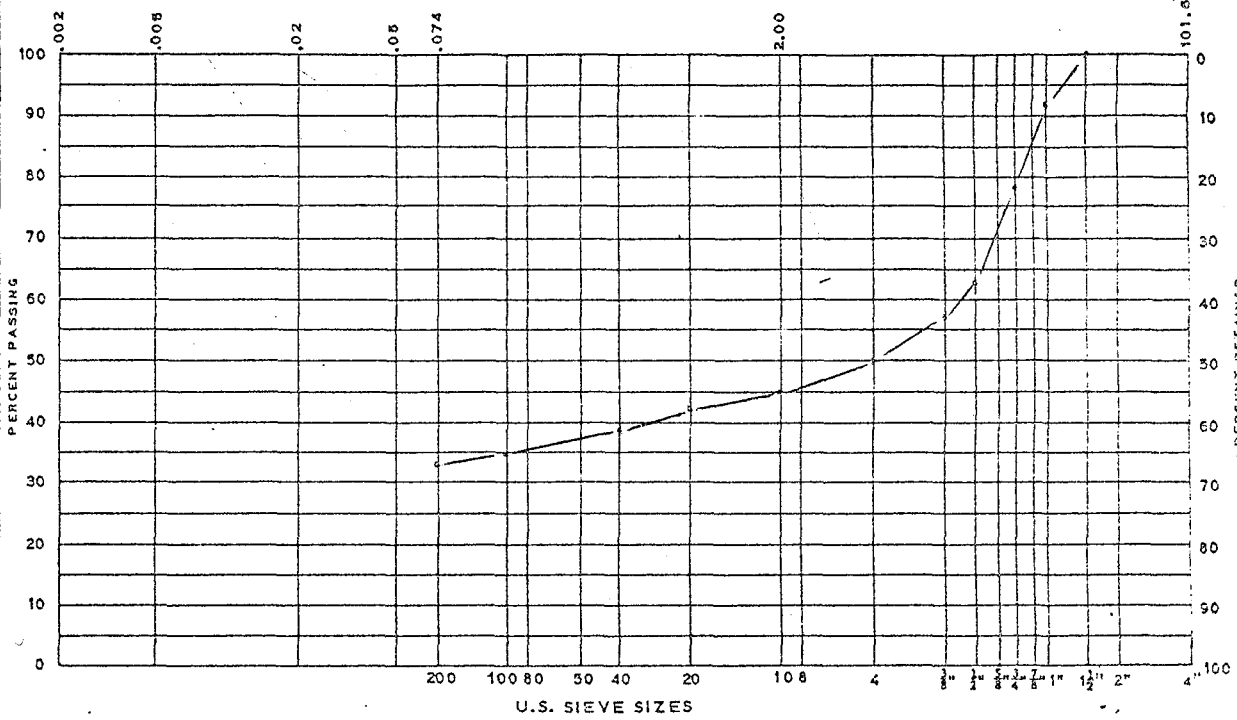
TESTING ENGINEER 29-3-71 DATE

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

FINER BY EIGHT	SIEVE ANALYSIS	
	SAMPLE NUMBER	
70.0	1/2"	56.8 3/8"
72.0	1	49.8 #4
73.5	3/4	45.2 #10
63.0	1/2	42.1 #20
		31.1 #40
		34.8 #100
		33.3 #200

AGGREGATE GRADING CHART



CLAY      SILT      SAND      GRAVEL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.I.A.	% LOSS	MG SOL.	% LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.7	30.7		2.0								
		A-2-4												
		S.M.												
		SILTY SAND												

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DENVER HIGHWAY  
 LOCATION: STA. 2870  
 HOLE No. \_\_\_\_\_ DEPTH: 4'-10"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE '69  
 FIELD SAMPLE NO. 55 LAB SAMPLE NO. 2889  
 D. P. W. WHITEHORSE - SOILS LAB

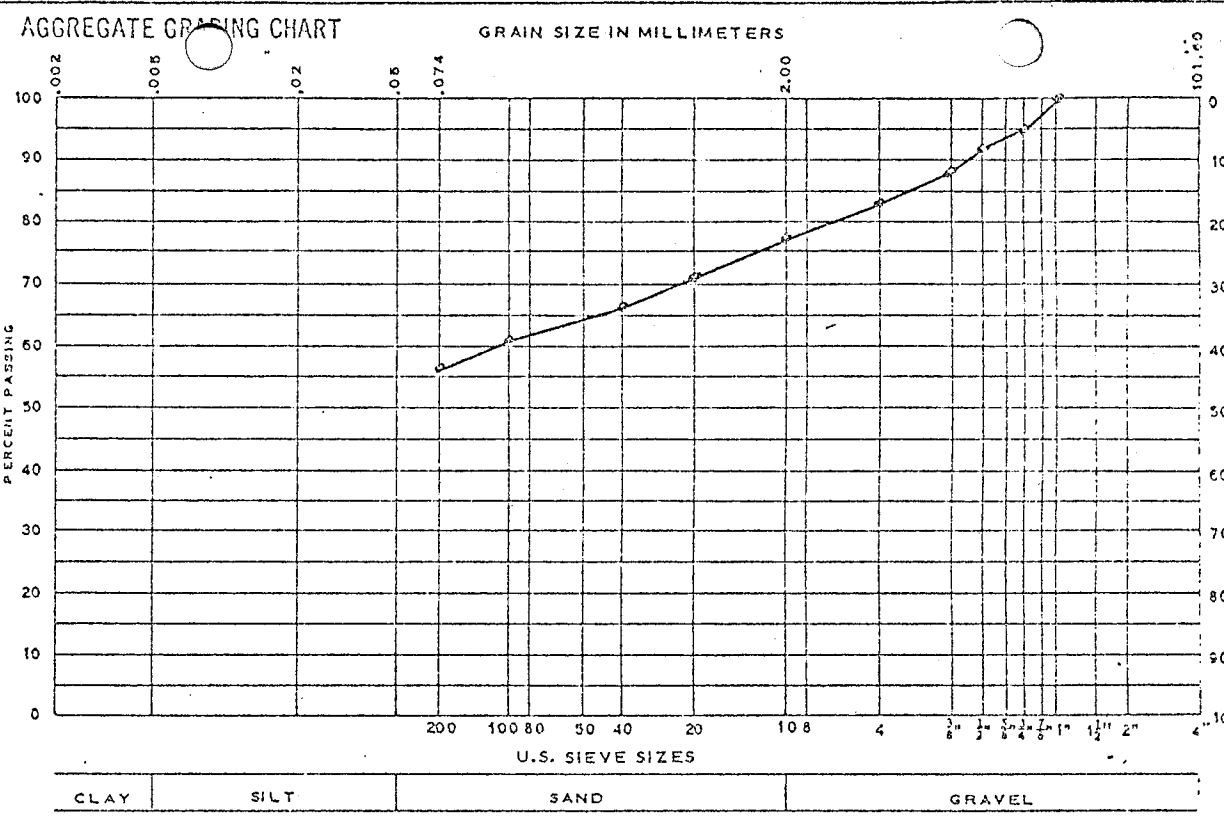
TESTING ENGINEER \_\_\_\_\_ DATE 25-3-71

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY EIGHT	SIEVE ANALYSIS	
	SAMPLE NUMBER	
1"	71	70
1/4"	100	# 4 85.6
1/8"	95.2	# 10 76.8
1/16"	92.0	# 20 70.7
1/32"	88.6	# 40 66.7
		# 100 60.8
		# 200 55.8



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO. % LOSS	DSAC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	7.0							
		A-4										
		M.L.										
		SILT - SAND MIXTURE WITH SLIGHT PLASTICITY										

#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION ST. 2865

HOLE No.        DEPTH 5' to 7'

SAMPLE TYPE        DATE SAMPLED JUNE 69

FIELD SAMPLE No. 56 LAB SAMPLE No. 2890

D. P. W. WHITEHORSE - SOILS LAB D.W.

29-3-71

\_\_\_\_\_  
TESTING ENGINEER

\_\_\_\_\_  
DATE

##### FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_  
MATERIALS ENGINEER

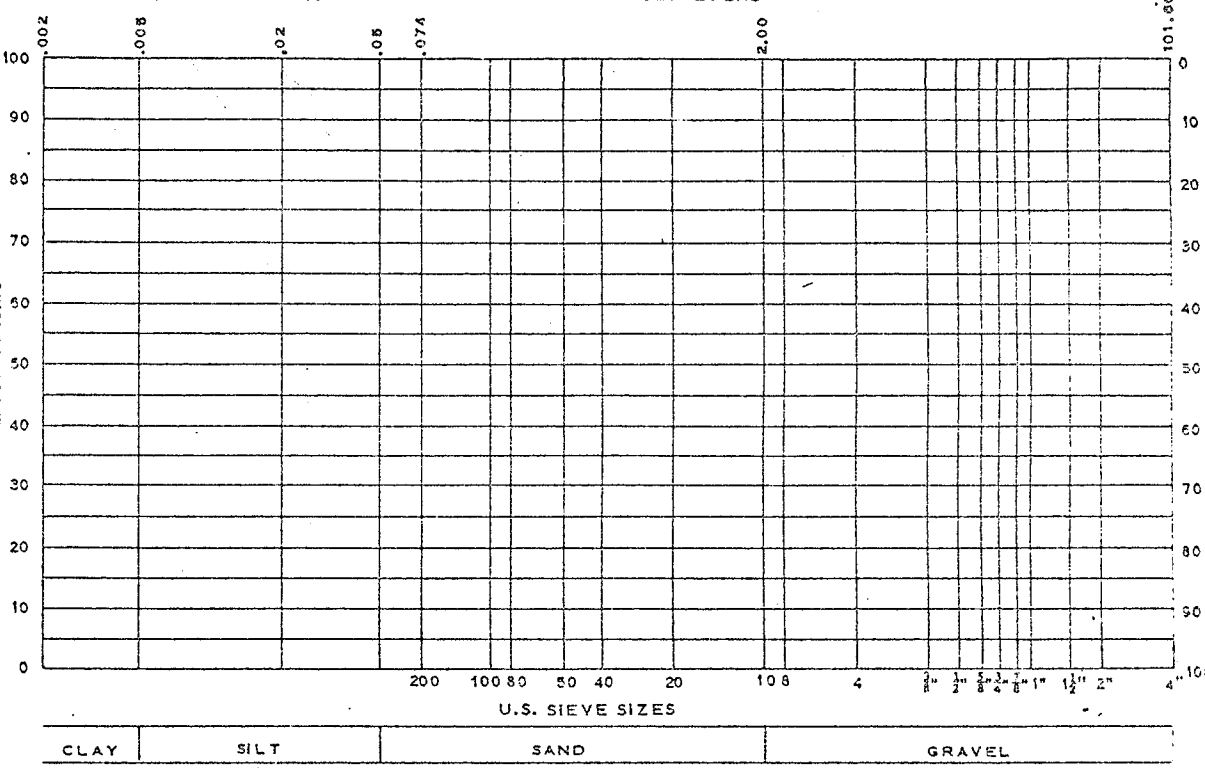
\_\_\_\_\_  
DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

FINER BY WEIGHT		SIEVE ANALYSIS									
		SAMPLE NUMBER									
		93.6% PASSING # 200 SIEVE									
% + 4"											
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.I.	U.A. % LOSS	M.G. 504 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 SILT WITH VERY FINE SAND									

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2865

HOLE No. \_\_\_\_\_ DEPTH 7' to 10'

SAMPLE TITLE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 57 LAB SAMPLE No. 2891

D. P. W. WHITEHORSE - SOILS LAB J. m.

29-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

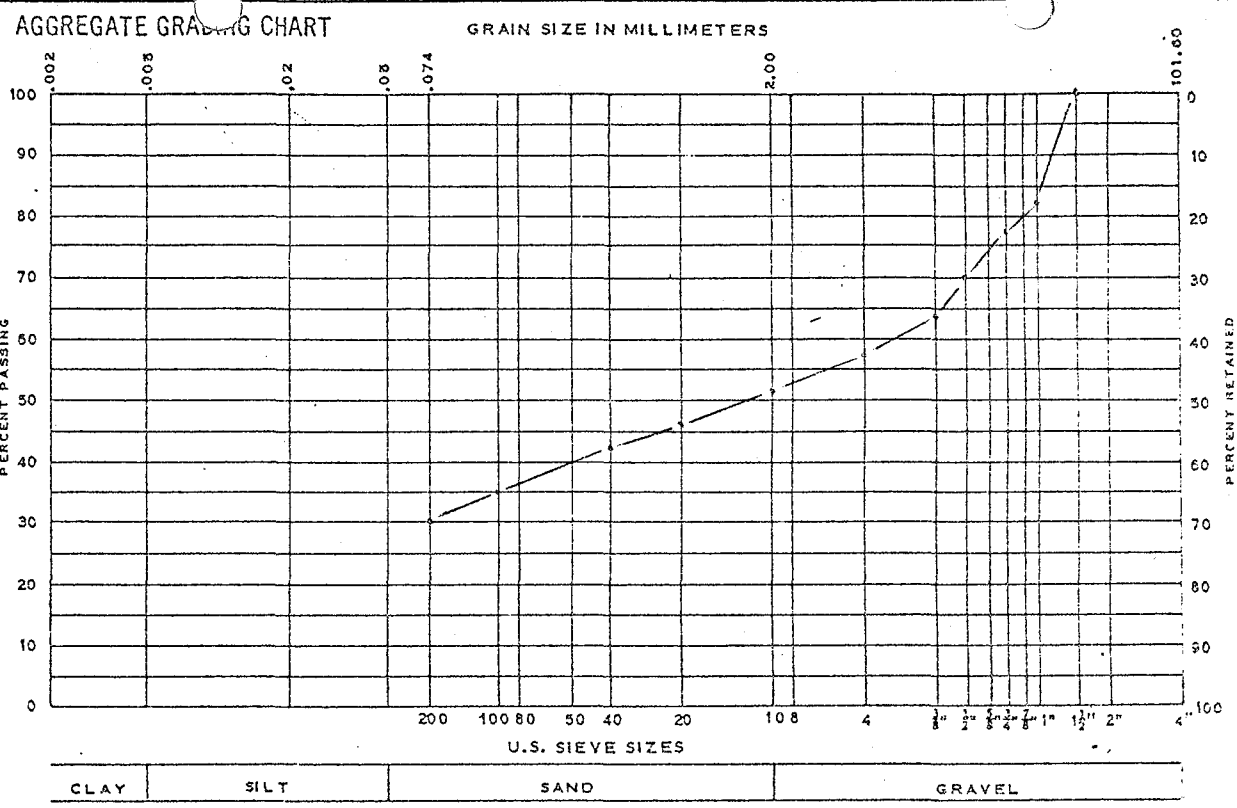


DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMONSTRATION HIGHWAY TEST HOLE NO. 49-50-51-52  
 LOGGED BY ED. MELANSON DATE JUNE 69 STATION 2895 - 2850  
 ENTERED BY G. KUBISKI DATE JULY 69 2845 - 2840  
 CHECKED BY G. KUBISKI DATE JULY 69 HOLE ADVANCED BY 4" ADDED MOBILE

SAMPLE NO.	% PASSING			LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L	P.L					
59									3		ROAD BED FILL T.H. 49
									10		SILTY SANDY GRAVEL
60									3		ROAD BED FILL T.H. 50
									10		SILT, SAND CLAY WITH ROCK.
61									4		ROAD BED FILL T.H. 51
									10		SAND SILT CLAY WITH STONES.
62									5		ROAD BED FILL T.H. 52
									10		BLACK SILTY CLAY SOME STONES

FINER BY SIGHT	SIEVE ANALYSIS	
	SAMPLE NUMBER	
70.0	1/2"	64.3 3/8"
91.8	1	57.7 #4
16.9	3/8	51.2 #10
81.7	1/2	45.7 #20
		41.8 #40
		35.0 #60
		30.4 #75
+ 4"		



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>3</sub> % LOSS	DSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-2-4	22.7	20.7		2.0						
		S.M.										
		SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DENNISVILLE HIGHWAY

LOCATION: STA. 2855

HOLE NO.: \_\_\_\_\_ DEPTH: 3'-10"

SAMPLE TYPE: \_\_\_\_\_ DATE SAMPLED: JUNE 1969

FIELD SAMPLE NO.: 59 LAB SAMPLE NO.: 2873

D. P. W. WHITEHORSE - SOILS LAB

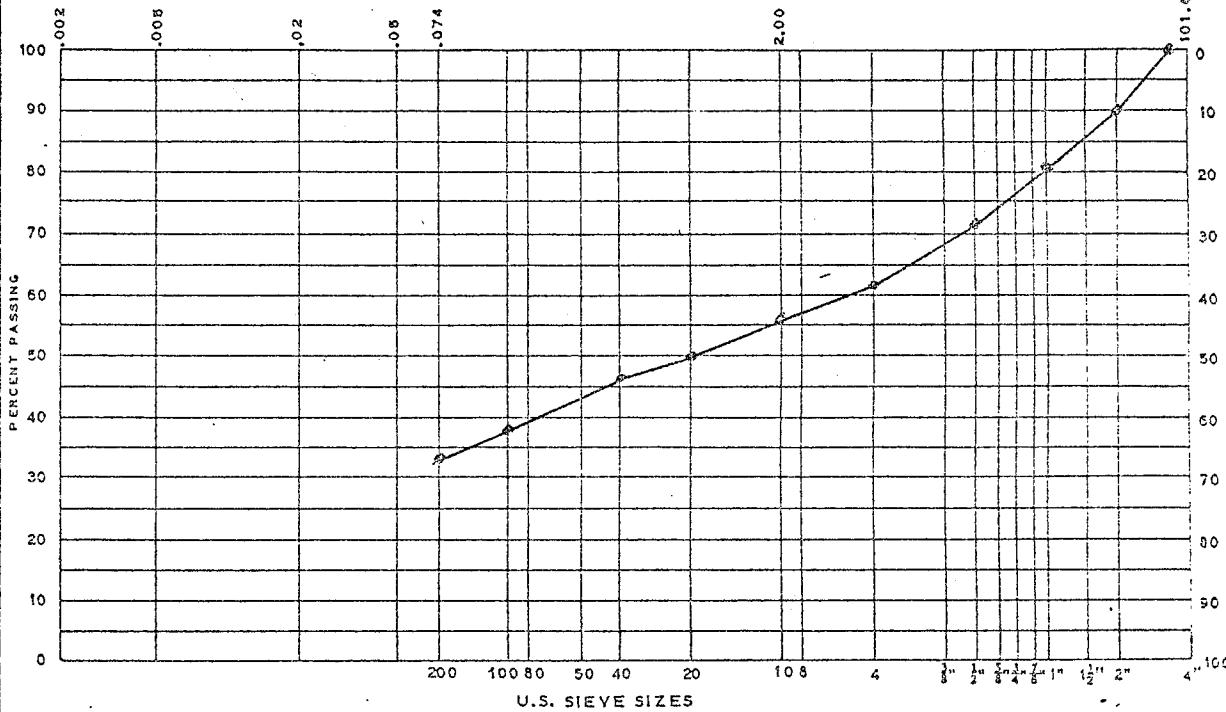
TESTING ENGINEER: \_\_\_\_\_ DATE: 25-3-71

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

FINER BY SIEVE	SIEVE ANALYSIS	
	%	NO.
3"	100	# 4 61.5
2"	40.2	# 10 55.7
1 1/2"	86.9	# 20 50.1
1"	81.3	# 40 46.0
3/4"	77.1	# 100 38.4
1/2"	72.0	# 200 33.0
3/8"	68.8	

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	D.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7	17.0		4.7						
		A-2-4										
		S.M.-S.C.										
		SILTY SAND										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: \_\_\_\_\_  
 LOCATION: DEMPSTER HIGHWAY  
 HOLE NO.: \_\_\_\_\_ DEPTH: 31 to 10'  
 SAMPLE TYPE: STA. 2850 DATE SAMPLED: JUNE 69  
 FIELD SAMPLE No. 60 LAB SAMPLE No. 2894  
 D. P. W. WHITEHORSE - SOILS LAB D. wt.  
29-3-71

TESTING ENGINEER

DATE

FINE AGGREGATE

ROCK TYPE	%

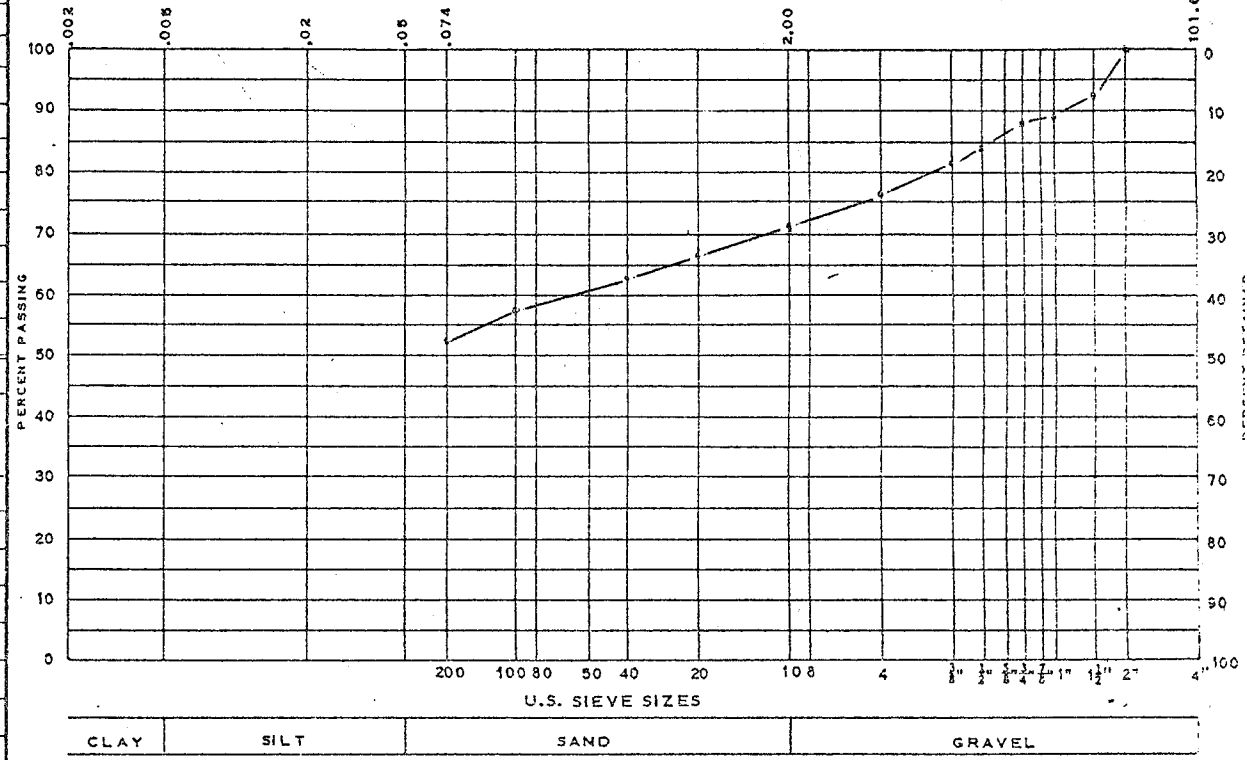
MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

FINER BY EIGHT	SIEVE ANALYSIS			
	SAMPLE NUMBER			
20.0	2"	71.5	#10	
12.5	1 1/2"	66.6	#20	
57.2	1"	62.9	#40	
83.0	3/4"	56.6	#60	
24.3	1/2"	52.0	#30	
61.4	3/8"			
76.5	#14			

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	D.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
A-4												
M.L.												
GRAVEL SAND-SILT MIXTURE WITH SLIGHT PLASTICITY												

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMISTEK HI-WAY  
 LOCATION STA. 2845  
 HOLE No. \_\_\_\_\_ DEPTH 4'-10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE '69  
 FIELD SAMPLE No. 61 LAB SAMPLE No. 2815  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

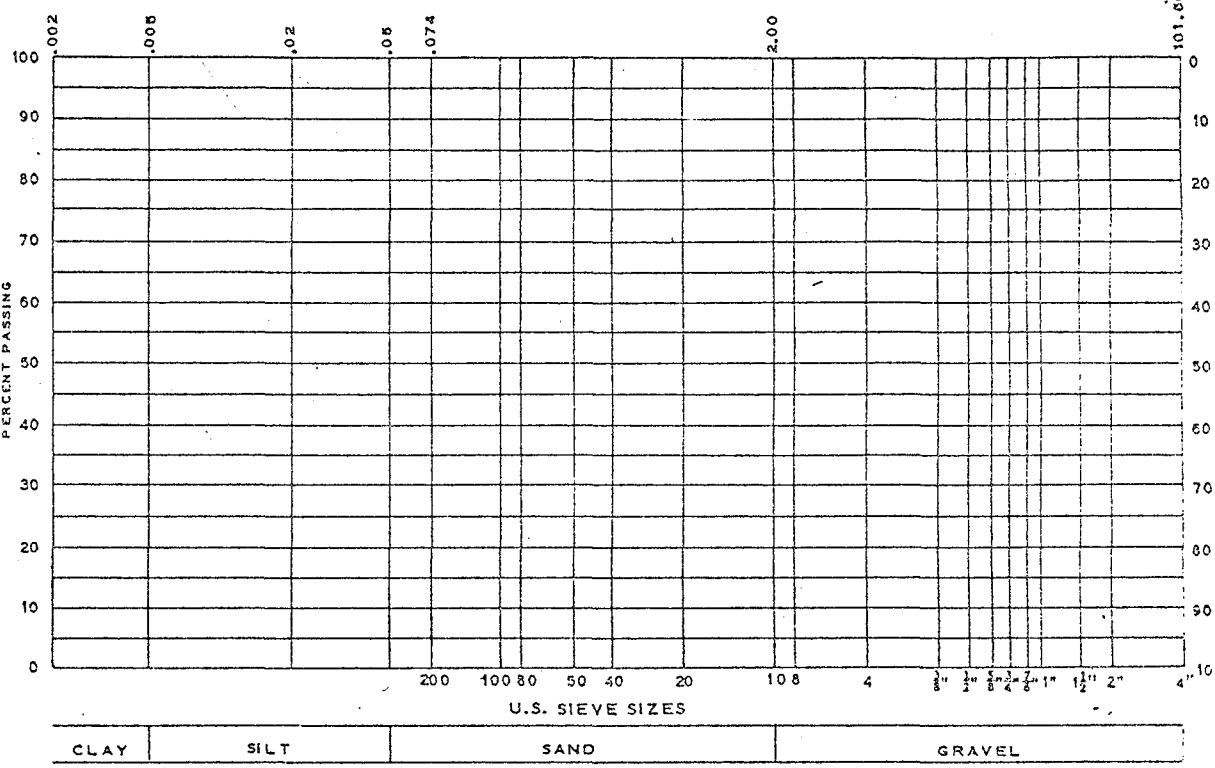
FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

AGGREGATE DEPOSIT REPORT (Cont'd)

FINER BY WEIGHT		SIEVE ANALYSIS																	
		SAMPLE NUMBER																	
		90.8% PASSING # 200 SIEVE																	
%																			
SAMPLE NO.		ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A.	%	NG 504	%	LOSS	LOSS	D5PG	COLOUR	% WATER	ABSORB.	% ASPH.	ABSORB.	F.M.
			A-4	35.7	30.1				5.6										
			M.L.																
			SANDY SILT																

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPESTER HIGHWAY  
 LOCATION STA. 284-0  
 HOLE No. \_\_\_\_\_ DEPTH 6' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 62 LAB SAMPLE No. 2896  
 D. P. W. WHITEHORSE - SOILS LAB J.M.  
26-3-71

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

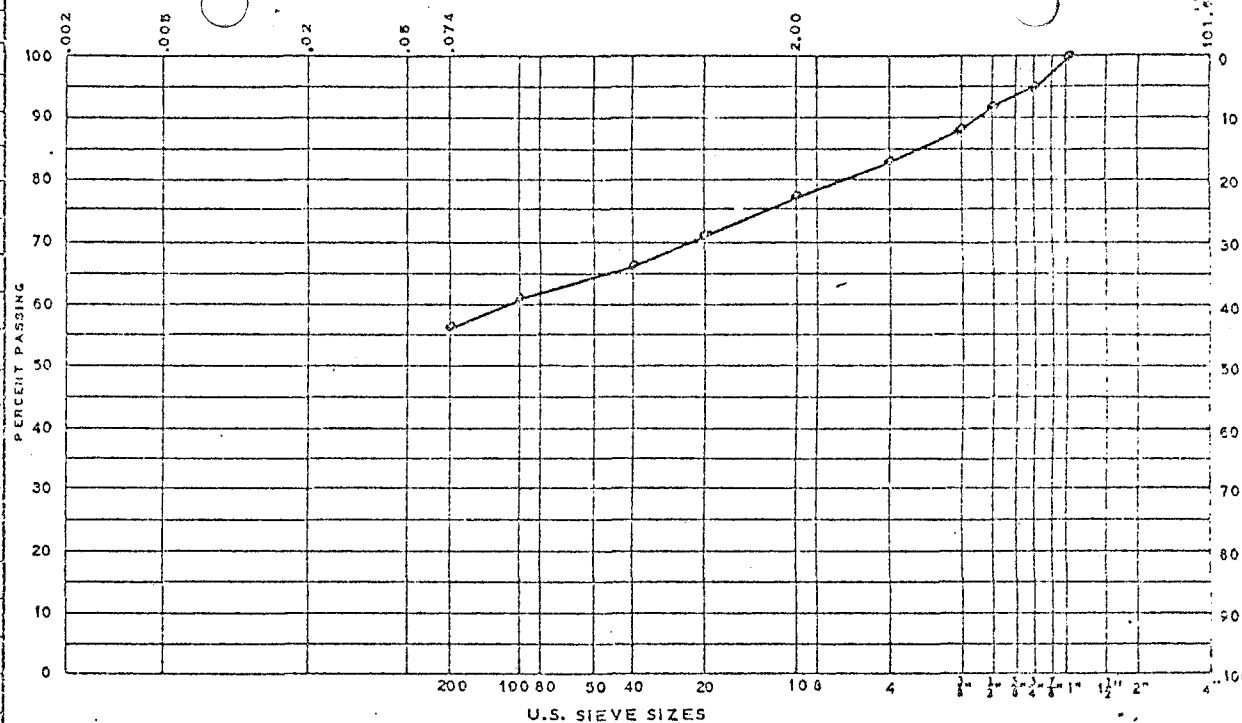
PROJECT DUMPSTER HI-WAY TEST HOLE NO. 53-54-55-56  
 LOGGED BY ED MELANCA DATE JUNE 69 STATION 2835 - 2830  
 ENTERED BY G. KUBISKI DATE JULY 69 2875 - 2820  
 CHECKED BY G. KUBISKI DATE JULY 69 HOLE ADVANCED BY 4" AUGER MOBILE

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.L.					
										1		ROAD BED FILL
										6		
63										8		BLACK ORGANIC SILT CLAY
64										10		FROZEN SILT, SAND CLAY
										3		ROAD BED FILL
										6		SAND
65										10		SANDY GRAVEL
										4		ROAD BED FILL
										10		SILTY SANDY GRAVEL
66												
										8		ROAD BED FILL
										10		
67										12		SILTY SANDY GRAVEL

FINER BY SIGHT	SIEVE ANALYSIS	
	%	NO.
1"	100	# 4 83.6
1/2"	95.2	# 10 76.8
3/8"	92.0	# 20 70.7
3/16"	85.6	# 40 66.7
		# 100 60.8
		# 200 55.8

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY	SILT	SAND	GRAVEL
------	------	------	--------

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSAC	COLOUR	% WATER ABSORP.	% ASPH. ABSORP.	F.M.
			22.9	18.9	7.0							
		A-4										
		M.L.										
		SILT - SAND MIXTURE WITH SLIGHT PLASTICITY										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE \_\_\_\_\_ %

FINE AGGREGATE

ROCK TYPE \_\_\_\_\_ %

LABORATORY'S REMARKS

PROJECT..... DEMPSTER HIGHWAY  
 LOCATION..... STA. 2835  
 HOLE No..... \_\_\_\_\_ DEPTH..... 6' to 8'  
 SAMPLE TYPE..... \_\_\_\_\_ DATE SAMPLED..... JUNE 69  
 FIELD SAMPLE No..... 63 LAB SAMPLE No..... 2897  
 D. P. W. WHITEHORSE - SOILS LAB D.W.

29-3-71

TESTING ENGINEER

DATE

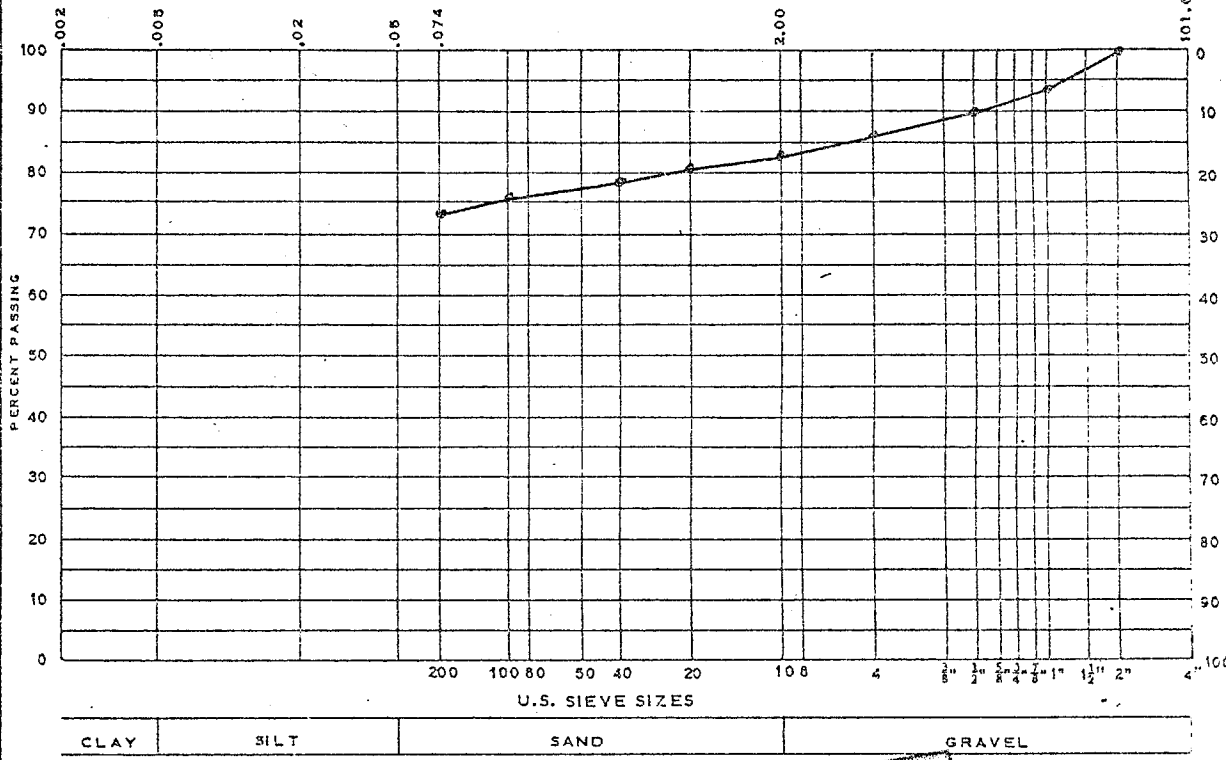
MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

FINER BY EIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
2"	100	# 4 86.0
1"	94.3	# 10 83.5
3/4"	92.1	# 20 81.1
1/2"	90.0	# 40 79.4
3/8"	87.9	# 100 76.2
		# 200 74.1

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO. % LOSS	USPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			30.1	27.4	2.7							
		A-4										
		M.L.										
		SILT OF SLIGHT PLASTICITY WITH SAND-GRAVEL MIXTURE										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

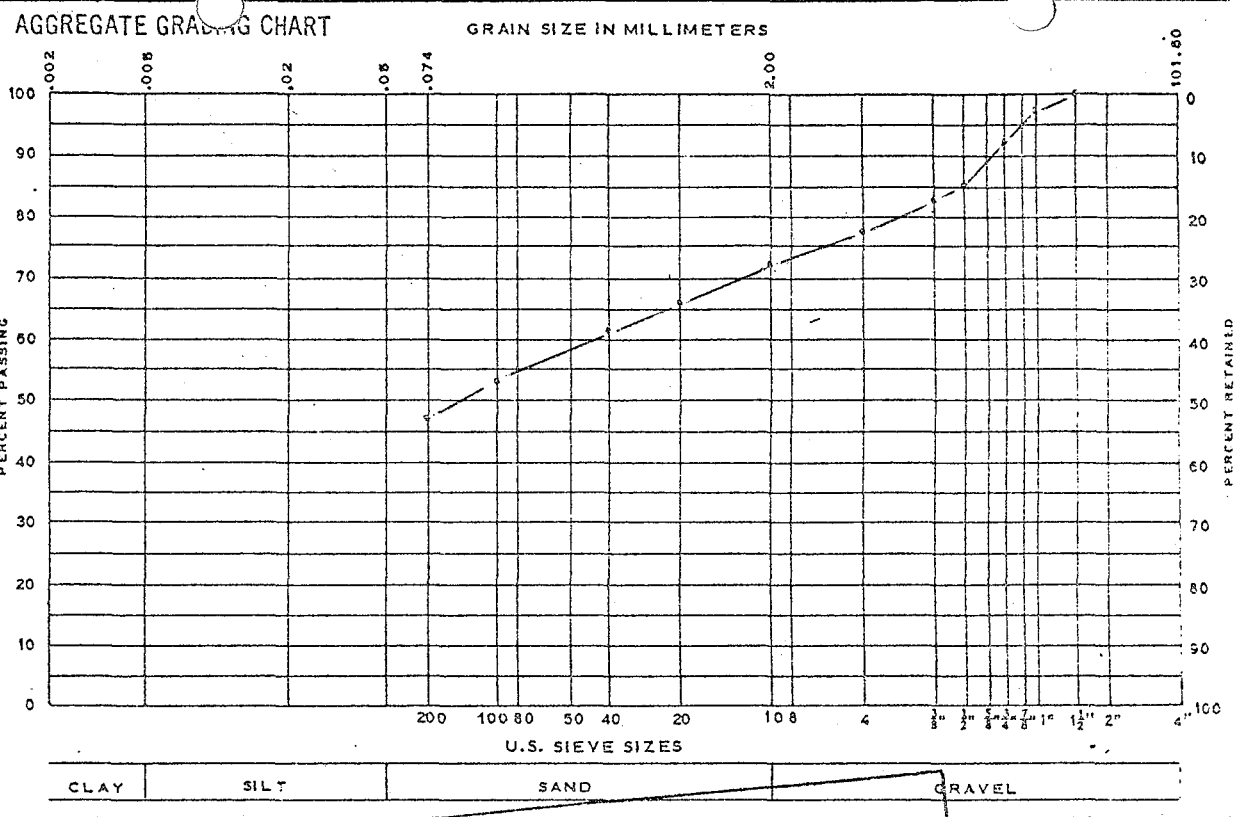
PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 2835  
 HOLE No. \_\_\_\_\_ DEPTH 8' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED \_\_\_\_\_  
 FIELD SAMPLE No. 64 LAB SAMPLE No. 2898  
 D. P. W. WHITEHORSE - SOILS LAB J.M.  
29-3-71

MATERIALS ENGINEER'S REMARKS

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
 MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY SIGHT	SIEVE ANALYSIS			
	SAMPLE NUMBER			
7.0	1/2"	71.5	100	
10.5	1"	65.7	70	
12.3	3/4"	60.2	40	
25.4	1/2"	52.9	100	
33.2	1/2"	49.1	200	
36.9	3/4"			
+ 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	31.2	18.0		31	2					
		S.M.										
		SILTY SAND										



#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DENVER HIGHWAY

LOCATION: DENVER HIGHWAY

HOLE No. \_\_\_\_\_ DEPTH: 3' to 6'

SAMPLE TYPE: \_\_\_\_\_ DATE SAMPLED: JUNE 1967

FIELD SAMPLE No. 65 LAB SAMPLE No. 2899

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER: DATE: 25-3-71

##### FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

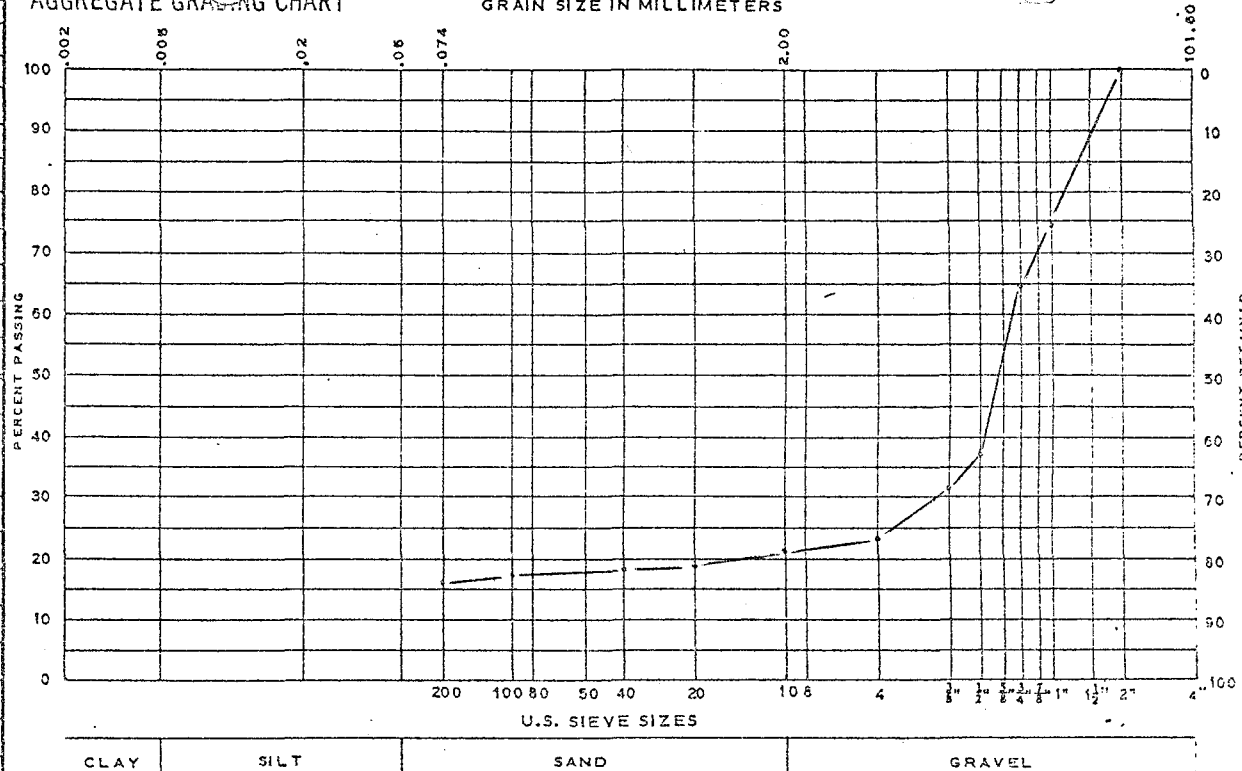
2899 - 3-6' STA. 2830 SAMPLE #65

~~1 - 3-14' STA. 2830 SAMPLE #167~~

MATERIALS ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

FINER BY EIGHT	SIEVE ANALYSIS			
	SAMPLE NUMBER			
100	2"	31.1	3/8"	
85.5	1 1/2	23.6	#4	
74.5	1	20.9	#10	
64.8	3/4	19.4	#20	
52.6	1/2	18.4	#40	
		17.2	#100	
		15.8	#200	

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSNG	COLOUR	% WATER ABSORB.	% ASPHL. ABSORB.	F.M.
		A-1-b				0.0						
		G.P.										
POOR TO FAIR GRADED GRAVEL												
DIRTY!												

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

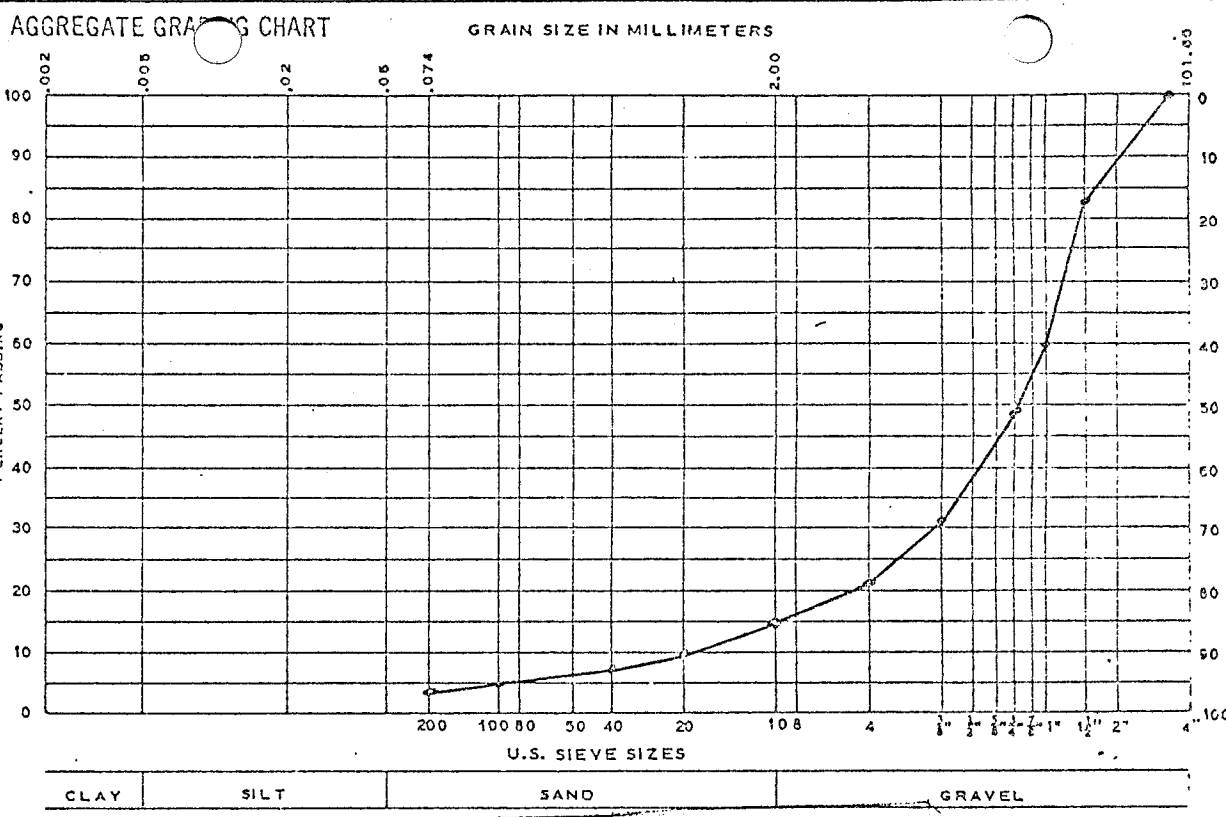
PROJECT: DEMONSTRATION HIGHWAY  
 LOCATION: STA. 2825  
 HOLE No. \_\_\_\_\_ DEPTH: 4'-10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE '69  
 FIELD SAMPLE No. 66 LAB SAMPLE No. 2900  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

SIEVE ANALYSIS	SAMPLE NUMBER	
	%	%
1"	100	# 4 21.0
"	98.5	# 10 15.0
1/2"	83.1	# 20 10.5
"	60.6	# 40 7.5
"	49.0	# 100 4.7
"	37.5	# 200 3.7
3/4"	31.0	



ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSpc	COLOUR	% WATER ABSORB.	% ASPH. ADSORB.	F.M.
	A-1-a			0.0							
	G.P.										
	POOR TO FAIR GRADDED GRAVEL										

#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%
	3

##### FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY

LOCATION: STA. 2820

HOLE No. \_\_\_\_\_ DEPTH: 8' to 12'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 69

FIELD SAMPLE No. 67 LAB SAMPLE No. 2901

D. P. W. WHITEHORSE - SOILS LAB J.W.

29-3-71

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_  
TESTING ENGINEER

\_\_\_\_\_  
DATE

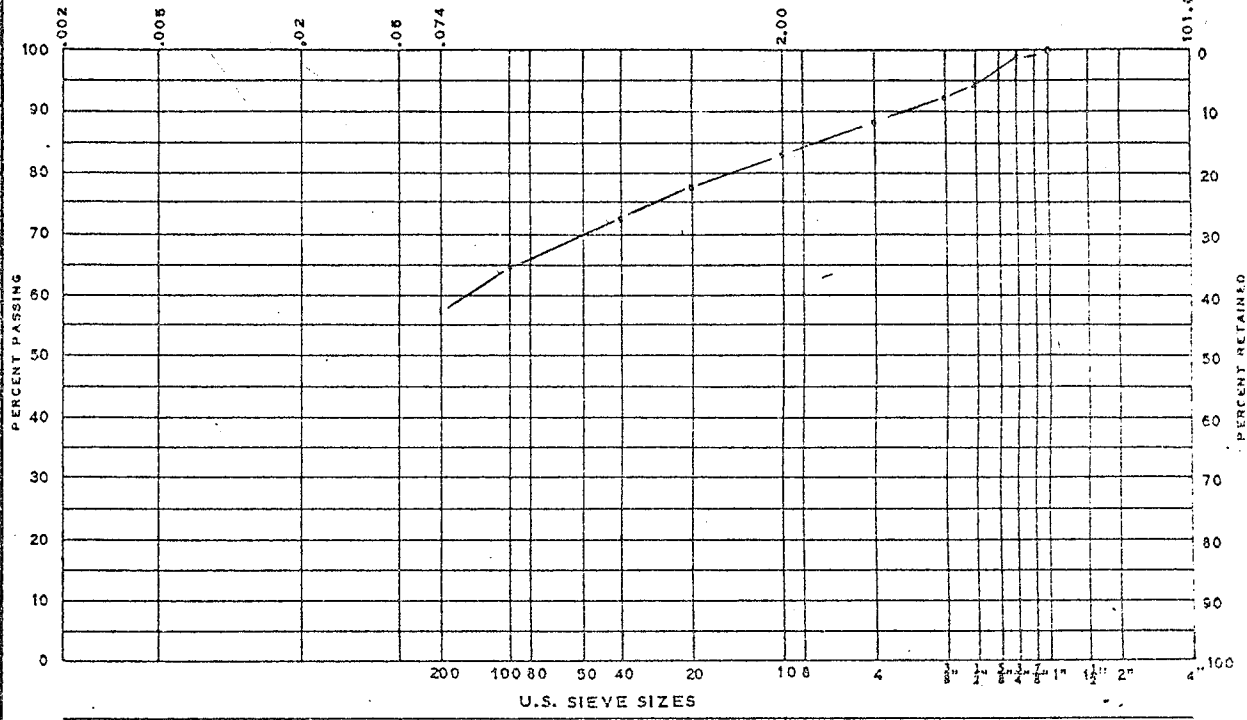
\_\_\_\_\_  
MATERIALS ENGINEER

\_\_\_\_\_  
DATE



FINER BY EIGHT		SIEVE ANALYSIS			
		SAMPLE NUMBER			
100	1"	827	#10		
18.5	3/4"	769	20		
14.3	1/2"	727	40		
11.6	3/8"	643	60		
7.9	3/16"	574	200		

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	15.9	4.0							
		A-4										
		M.L.										
		SAND-SILT MIXTURE WITH SLIGHT PLASTICITY										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMETER HWY  
 LOCATION STA. 2815  
 HOLE No. \_\_\_\_\_ DEPTH 2'-5'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JULY '69  
 FIELD SAMPLE No. 68 LID SAMPLE No. 2702/2770  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER [Signature] DATE 25-3-71

FINE AGGREGATE

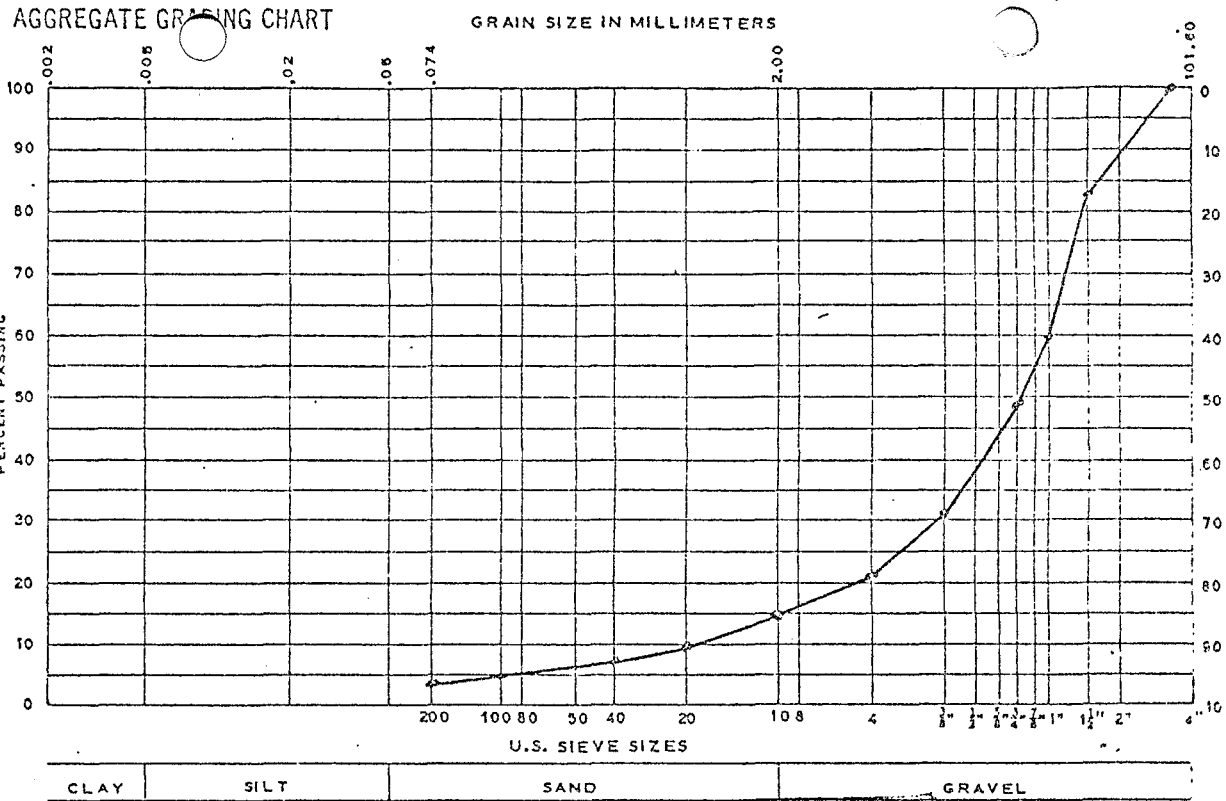
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

2702 - 2'-5' STA. 2815 SAMPLE # 68  
2770 - #10' " 2836 " #1136

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY SIEVE		SIEVE ANALYSIS	
		SAMPLE NUMBER	
	%		%
3"	100	# 4	21.0
2"	98.5	# 10	15.0
1/2"	85.1	# 20	10.5
"	60.6	# 40	7.5
1/4"	49.0	# 100	4.7
1/8"	37.5	# 200	3.7
1/16"	31.0		



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
G.P.												
POOL TO FAIR GRADDED GRAVEL												

CLAY          SILT          SAND          GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY

LOCATION: STA. 2815

HOLE No. \_\_\_\_\_ DEPTH: 5' to 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 69

FIELD SAMPLE No. 69 LAB SAMPLE No. 2903

D. P. W. WHITEHORSE - SOILS LAB J. ml.

29-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

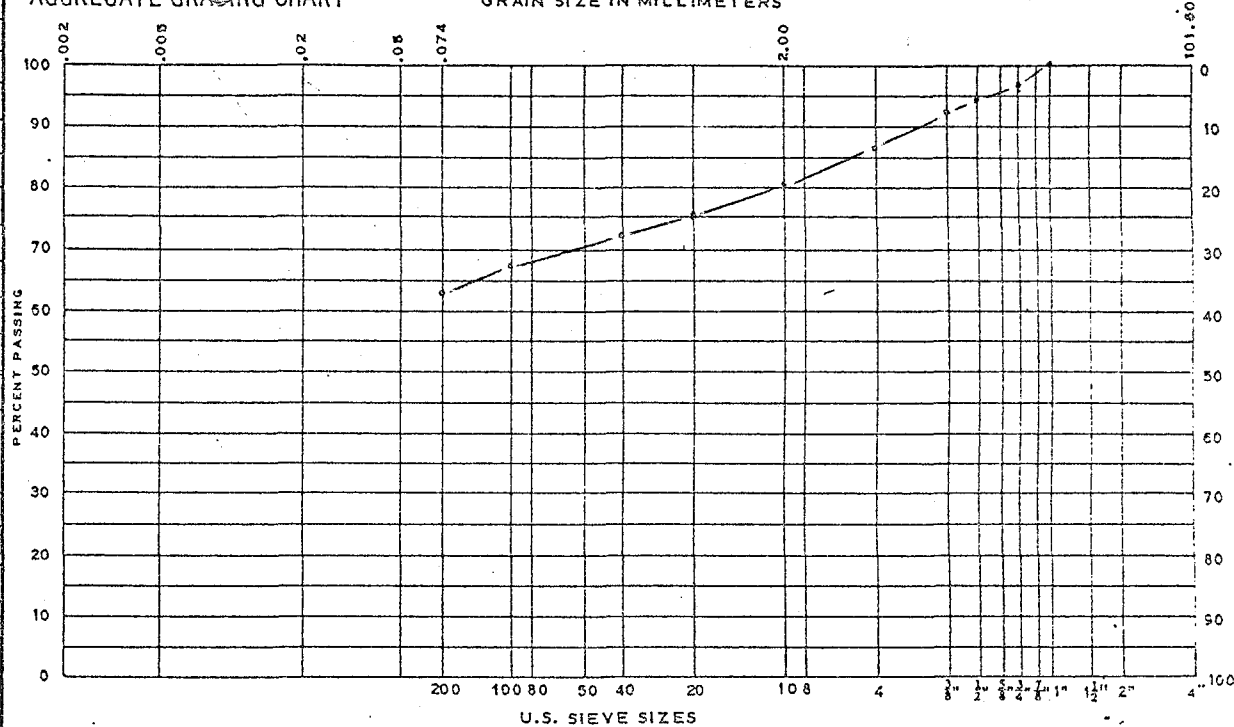
FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY WEIGHT	SIEVE ANALYSIS			
	SAMPLE NUMBER			
100.0	#11	95.3	#10	
76.5	#4	75.1	#20	
44.8	#12	70.7	#40	
92.1	#8	67.5	#100	
86.1	#4	63.2	#200	

AGGREGATE GRADING CHART



CLAY      SILT      SAND      GRAVEL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SOL. % LOSS	D.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	25.2	21.4	4.1							
		M.L.										
		SANDY SILT										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE \_\_\_\_\_ %

FINE AGGREGATE

ROCK TYPE \_\_\_\_\_ %

LABORATORY'S REMARKS

PROJECT DEMISTEC HIGHWAY  
 LOCATION STA. 2810  
 HOLE No. \_\_\_\_\_ DEPTH 11-10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 89  
 FIELD SAMPLE No. 70 LAB SAMPLE No. 2806  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

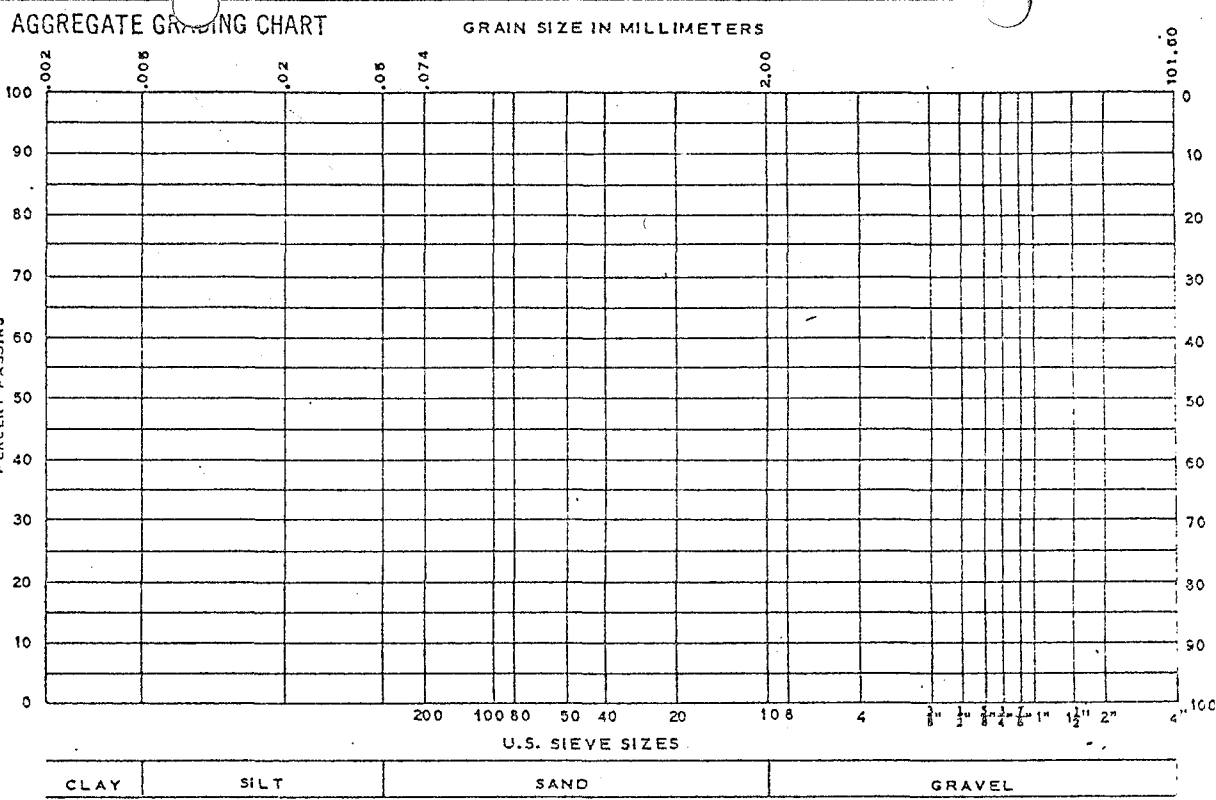
25-3-77 DATE

MATERIALS ENGINEER'S REMARKS

AGGREGATE DEPOSIT REPORT (Cont'd)

FINER BY WEIGHT		SIEVE ANALYSIS SAMPLE NUMBER				
94.3% PASSING # 200 SIEVE						

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	D <sub>SPC</sub>	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 M.L.	24.5	23.2		1.3						
SILT WITH VERY FINE SAND												



TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2805

HOLE No. \_\_\_\_\_ DEPTH 1/2' to 4'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 71 LAB SAMPLE No. 2905

D. P. W. WHITEHORSE - SOILS LAB J. W.

26-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

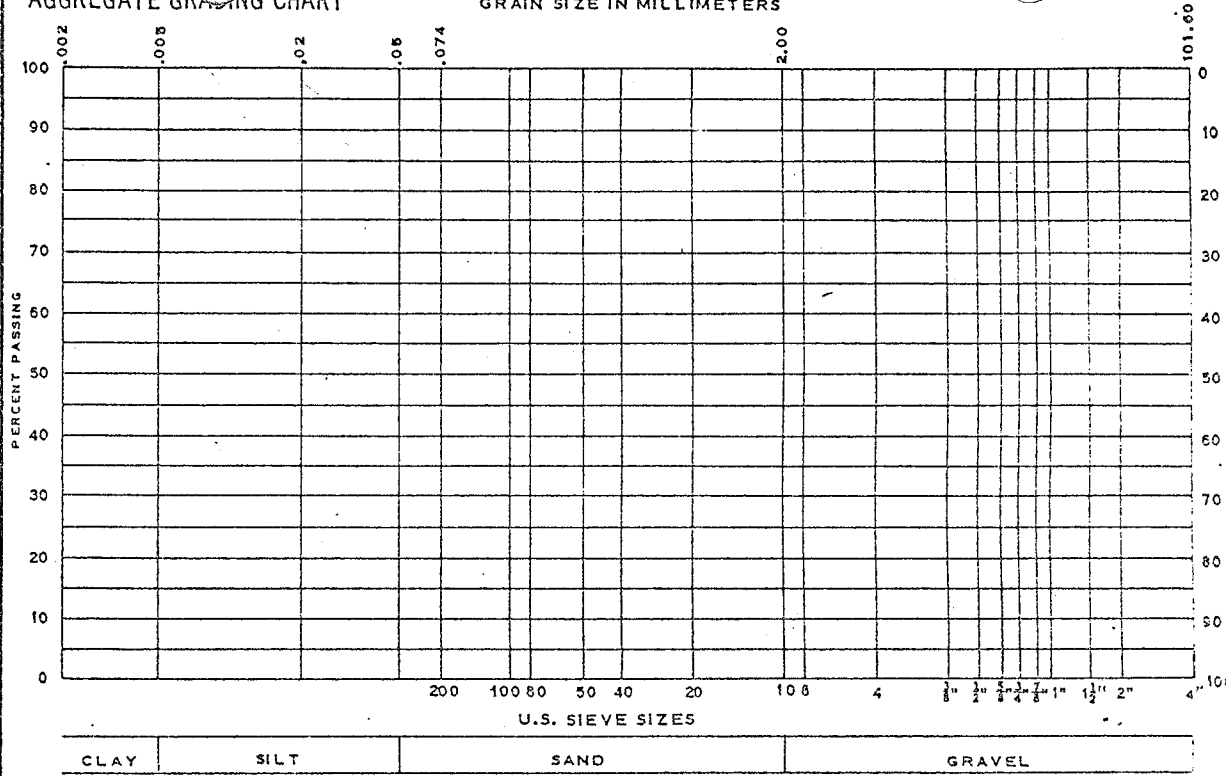
\_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY WEIGHT		SIEVE ANALYSIS SAMPLE NUMBER										
91.6% PASSING #200 SIEVE												
CLASSIFICATION: A-4 M.L. SILT WITH VERY FINE SAND												
AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO. % LOSS	USPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	36.6	31.2	5.4							

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 2805  
 HOLE No. \_\_\_\_\_ DEPTH 4' + 0 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 72 LAB SAMPLE No. 2906  
 D. P. W. WHITEHORSE - SOILS LAB J. W.  
26-3-71

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

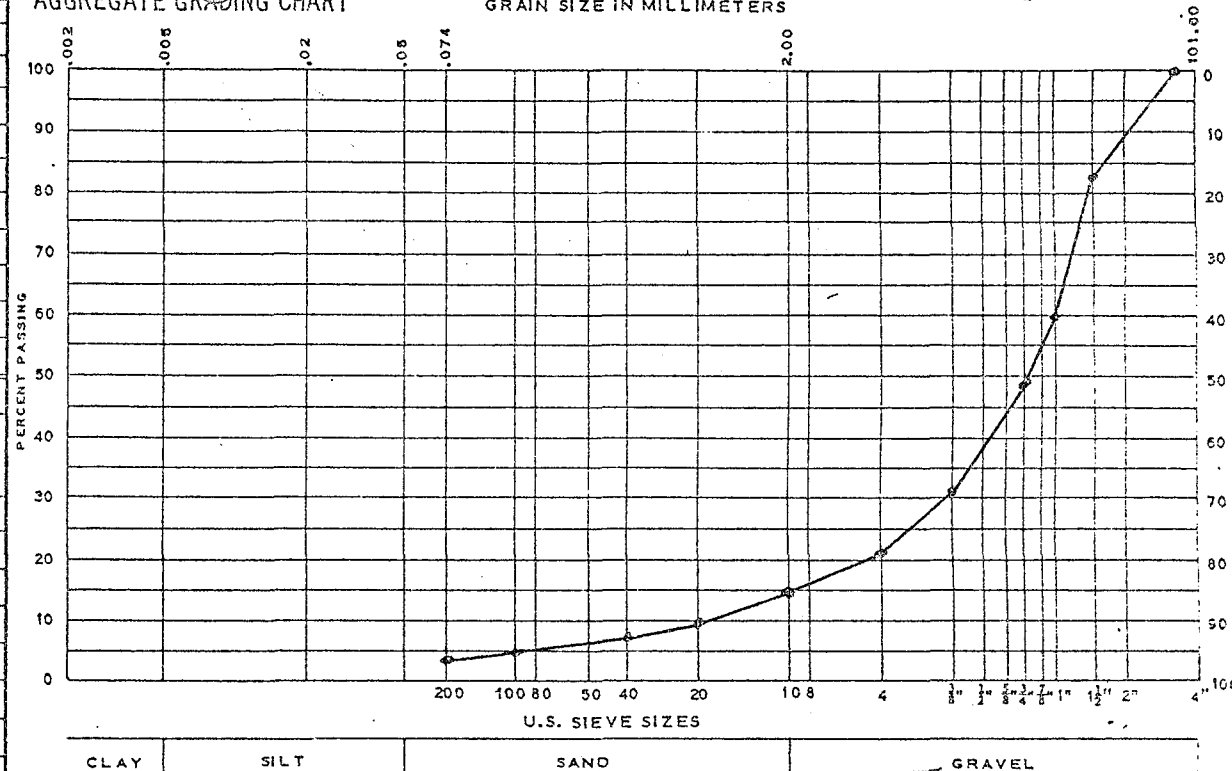
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER	
	#	%
3"	100	# 4 21.0
2"	58.5	# 10 15.0
1 1/2"	33.1	# 20 10.5
1"	20.6	# 40 7.5
3/4"	49.0	# 100 4.7
1/2"	37.5	# 200 3.7
3/8"	31.0	

AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		POOR TO FAIR GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPESTER HIGHWAY  
 LOCATION STA. 2800  
 HOLE No. \_\_\_\_\_ DEPTH 1' to 15'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 73 LAB SAMPLE No. 2907  
 D. P. W. WHITEHORSE - SOILS LAB D.W.  
 29-3-71

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSA; Y.T.

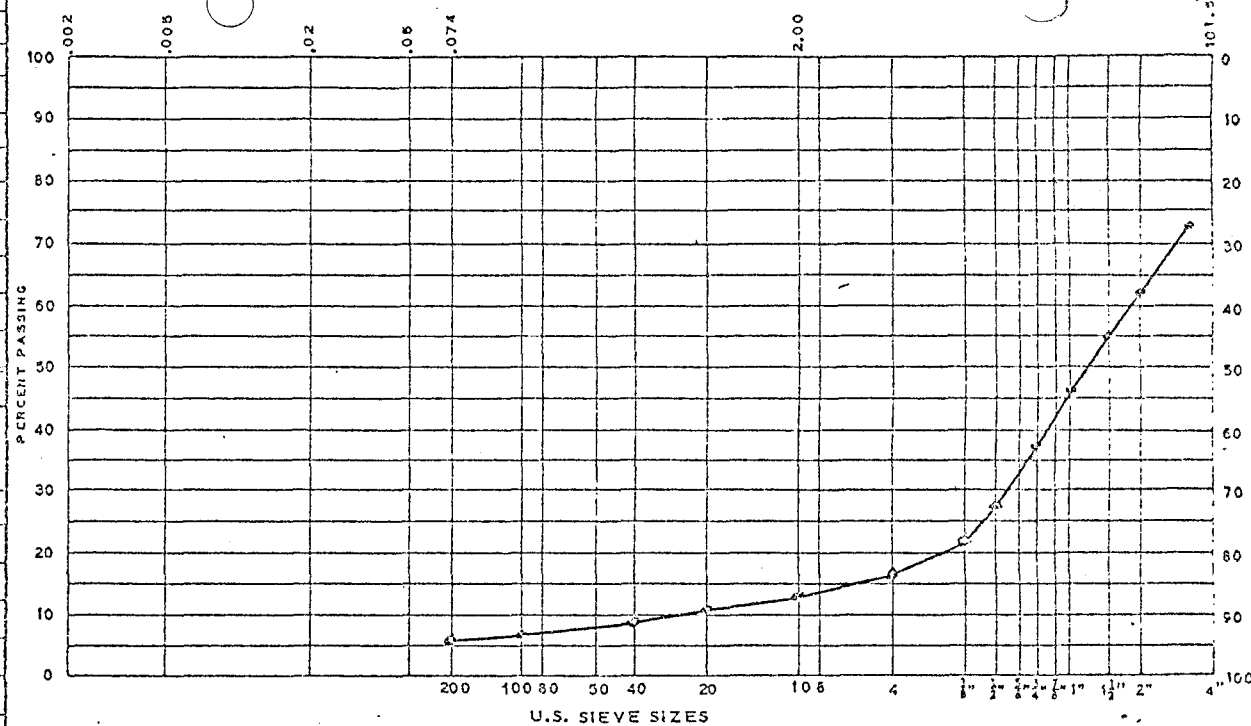
PROJECT DEMOLITION HIGHWAY TEST HOLE NO. 61 - 62 - 63 - 64  
 LOGGED BY ED MELANSON DATE JUNE 69 STATION 2795 2790  
 ENTERED BY G. KUBISKI DATE JULY 69 2785 2780  
 CHECKED BY G. KUBISKI DATE JULY 69 HOLE ADVANCED BY 4" AUGER MOBILE

SAMPLE NO.	PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.I.					
									4		ROAD BED FILL	T.H. <u>61</u>
74									10		SAND GRAVEL LARGE COBBLES	
									4		ROAD BED FILL	T.H. <u>62</u>
75									10		SILT, SAND SMALL STONES	
									4		ROAD BED FILL	T.H. <u>63</u>
76									10		SAND SILT GRAVEL	
									3		ROAD BED FILL	T.H. <u>64</u>
									10		SILT, SAND GRAVEL COBBLES	

SIEVE BY SIGHT	SIEVE ANALYSIS	
	SAMPLE NUMBER	
75		
100		
20	# 4	16.4
30	# 10	13.4
40	# 20	11.1
60	# 40	9.4
80	# 100	7.2
100	# 200	6.0
200		
400		
600		
800		
1000		

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

PLATE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO. % LOSS	DSPC	COLOR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		POOR to FAIR GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT.....  
 LOCATION: DEMPSTER HIGHWAY  
 HOLE NO. .... DEPTH: 4' to 10'  
 SAMPLE TYPE: STA. 2795 DATE SAMPLED: JUNE 69  
 FIELD SAMPLE NO. 24 LAB SAMPLE No. 2908  
 D. P. W. WHITEHORSE - SOILS LAB J. W. L.  
 29-3-71

TESTING ENGINEER

DATE

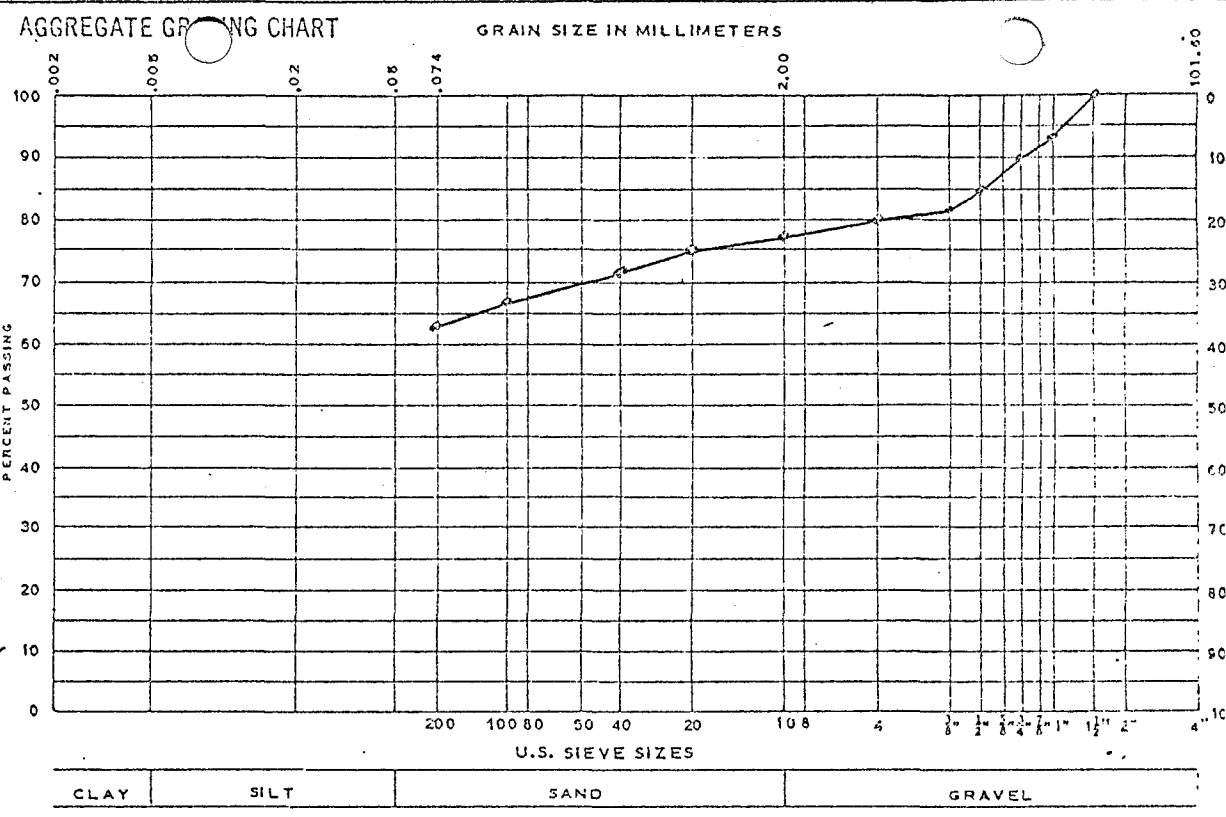
MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

FINER BY EIGHT	SIEVE ANALYSIS	
	Sample Number	%
1/2"	95.7	# 4 79.7
1"	↓	# 10 77.6
2"	90.0	# 20 74.9
3"	85.2	# 40 72.1
4"	82.5	# 100 67.0
		# 200 62.9

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO. % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ADSORB.	F.M.
		A-4	25.2	21.1	4.1							
		M.L.										
		SANDY SILT WITH SLIGHT PLASTICITY										



#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2790

HOLE NO. \_\_\_\_\_ DEPTH 4' to 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 75 LAB SAMPLE No. 2909

D. P. W. WHITEHORSE - SOILS LAB

G. M.  
29-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

##### FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

AGGREGATE DEPOSIT REPORT (Cont'd)

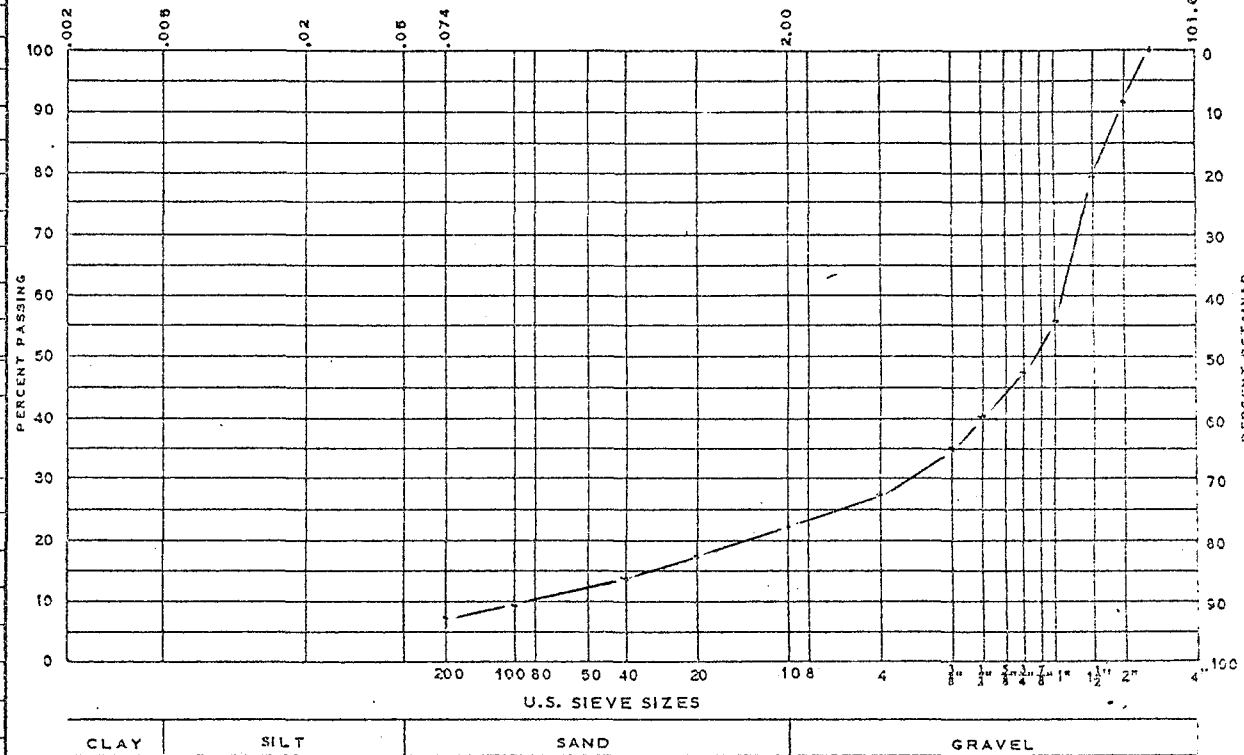
SHEET

FINER BY EIGHT		SIEVE ANALYSIS	
		SAMPLE NUMBER	
100	3"	27.5	#4
10.7	2	22.1	10
7.6	1 1/2	17.6	20
5.5	1	14.0	40
4.7	3/4	9.6	100
4.0	1/2	7.6	200
3.2	3/8		
	#1		

MPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a				00						
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HI-WAY  
 LOCATION: \_\_\_\_\_  
 HOLE No. \_\_\_\_\_ DEPTH \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 67  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE NO. 2910  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

~~2910 - 0' - 1' STA 2785 SAMPLE #11~~  
 2910 - 4' - 10' STA 2785 " #76

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HI-WAY TEST HOLE NO. 65-66-67-68  
 LOGGED BY ED. MELANSON DATE JUNE 69 STATION 2785 - 2780  
 ENTERED BY G. KUBISKI DATE JULY 69 2775 - 2770  
 CHECKED BY G. KUBISKI DATE JULY 69 HOLE ADVANCED BY 4" AUGER MOBILE

SAMPLE NO.	PASSING LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	% No. 200	No. 40	No. 10					
						4		ROAD BED FILL T.H. 63
76						10		<del>SAND SILT GRAVEL</del>
						3		ROAD BED FILL T.H. 64
77						10		<del>SILT, SAND GRAVEL COBBLES</del>
						2		ROAD BED FILL T.H. 65
78						10		SILT SAND, CLAY LARGE COBBLES
						5		ROAD BED FILL T.H. 66
79						10		CLAY SILT, SAND LARGE ROCKS

2775

2770

TINER BY LIGHT		SIEVE ANALYSIS			
		SAMPLE NUMBER			
5"	100				
3"	73.2	# 4	16.4		
2"	62.6	# 10	13.4		
1 1/2"	53.4	# 30	11.1		
"	46.2	# 40	9.4		
1"	37.4	# 100	7.2		
1/2"	27.3	# 200	6.0		
3/8"	23.4				

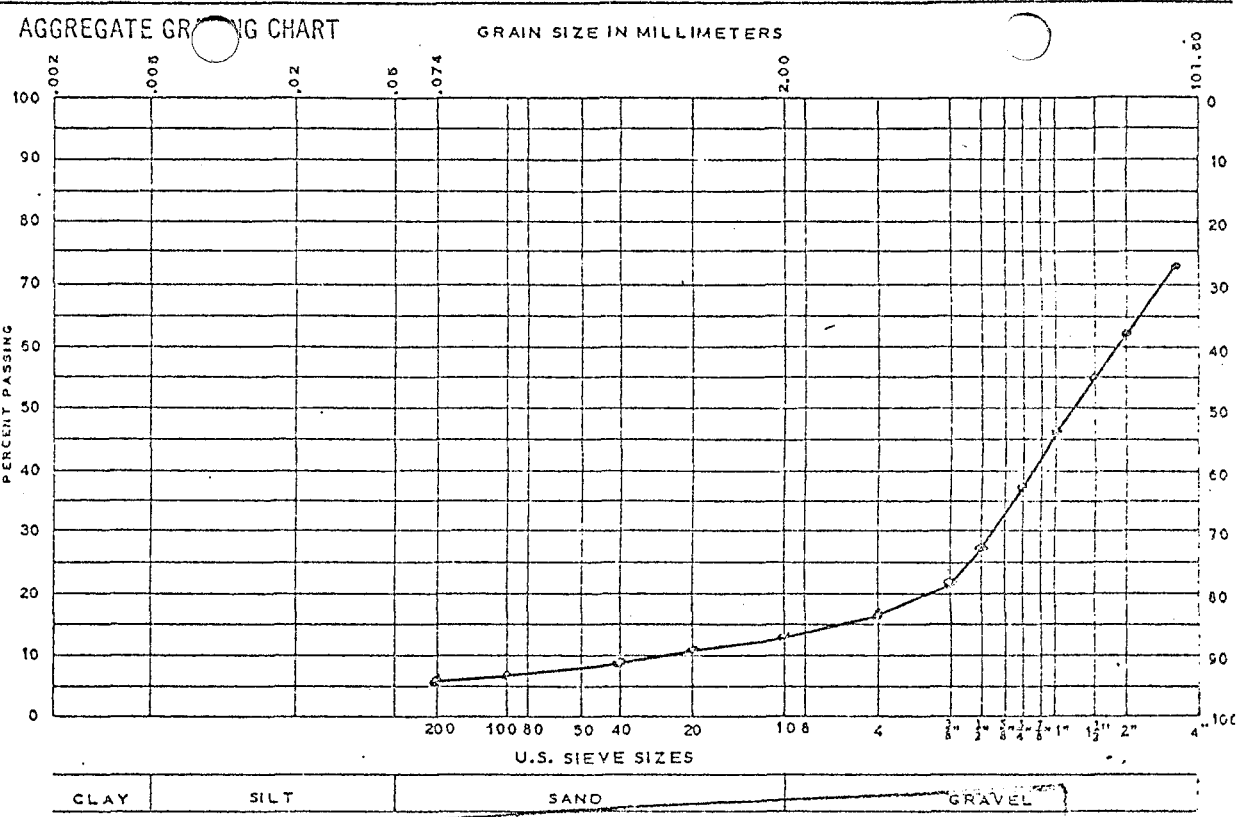


PLATE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 304 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		ROCK to FAIR GRADED GRAVEL										

#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

##### FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT.....

LOCATION: DEMPSTER HIGHWAY

HOLE NO. .... DEPTH: 3' to 10'

SAMPLE TYPE STA. 2780 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 77 LAB SAMPLE No. 2911

D. P. W. WHITEHORSE - SOILS LAB J. W. L.

29-3-71

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TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER'S REMARKS

---

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

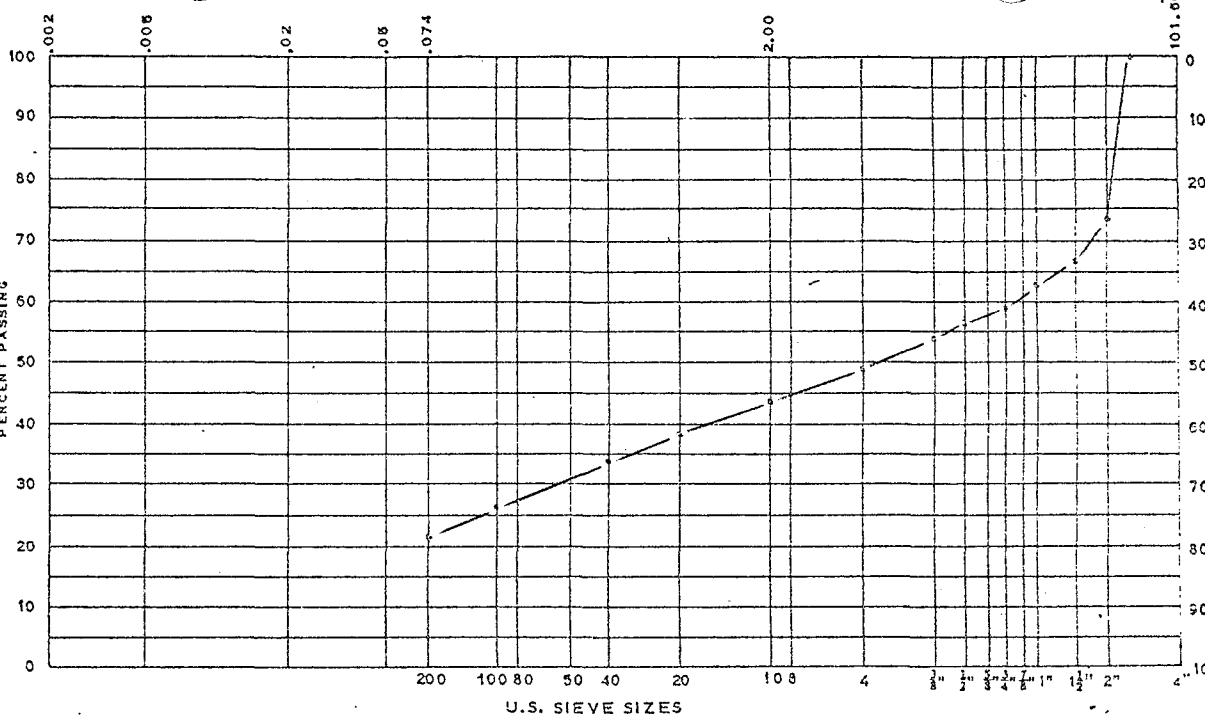
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

OF

% FINER BY WEIGHT	SIEVE ANALYSIS			
	SAMPLE NUMBER			
100	311	53.9	3/50	
73.4	2	49.4	#10	
66.2	1/2	43.9	10	
63.6	1	39.3	20	
57.3	3/4	33.5	40	
56.1	1/2	26.1	100	
		21.3	200	

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 200 % LOSS	D.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-B	21.8	15.4	3.4							
		G.W.										
		FAIR TO WELL GRADED GRAVEL										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEWSTER AL-WAY  
 LOCATION STA. 2775  
 HOLE No. \_\_\_\_\_ DEPTH 2' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE '67  
 FIELD SAMPLE No. 78 LAB SAMPLE No. 2912  
 D. P. W. WHITEHORSE - SOILS LAB

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

2912 - 2'-10' STA. 2775 SAMPLE # 78  
~~2907 - 2'-10'      2620      # 118~~

TESTING ENGINEER

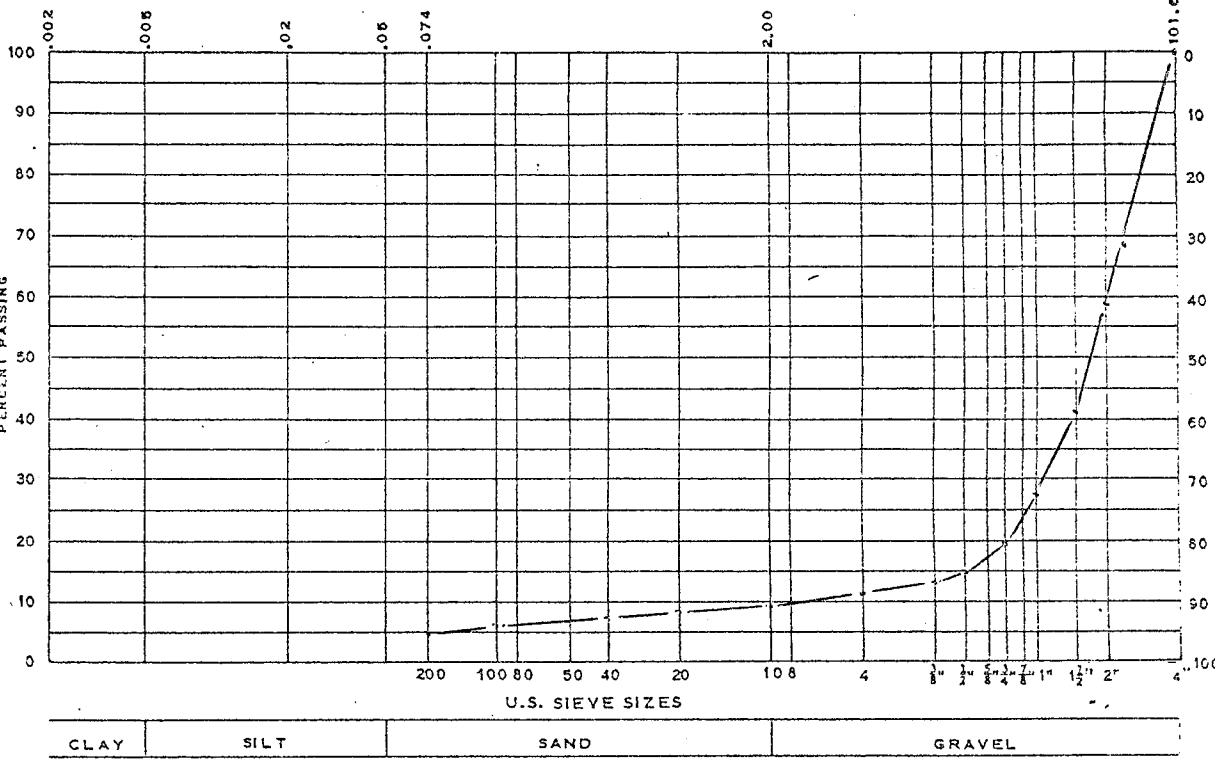
25-3-71 DATE

MATERIALS ENGINEER

DATE

FINER BY WEIGHT	SIEVE ANALYSIS			
	SAMPLE NUMBER			
100.0	4"	11.2	#4	
98.8	3"	9.6	10	
97.4	2"	8.3	20	
92.8	1 1/2"	7.4	40	
87.2	1"	6.0	60	
79.7	3/4"	4.9	200	
15.4	1/2"			
13.4	3/8"			
	#4	WITH FINES		

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SOL. % LOSS	D50	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			00							
		G.P.										
		POORLY GRADED GRAVEL-SAND MIXTURE										

LABORATORY'S REMARKS

PROJECT DEARSTER HI-WAY  
 LOCATION STA. 2770  
 HOLE No. \_\_\_\_\_ DEPTH 5' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 79 LAB SAMPLE No. 2913, 2928  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE 25-3-71

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

2913 5'-10' STA. 2770 SAMPLE # 79  
~~2928 6'-10' 2770 # 94~~

FINE AGGREGATE

ROCK TYPE	%

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMSTER HI-WAY TEST HOLE NO. 69-70-71-72  
 LOGGED BY ED. MELANSON DATE JUNE STATION 2765 - 2763  
 ENTERED BY G. KORISKI DATE JULY 19 - 2760 - 2755  
 CHECKED BY G. KORISKI DATE JULY 19 HOLE ADVANCED BY 11" ALGER MOBILE

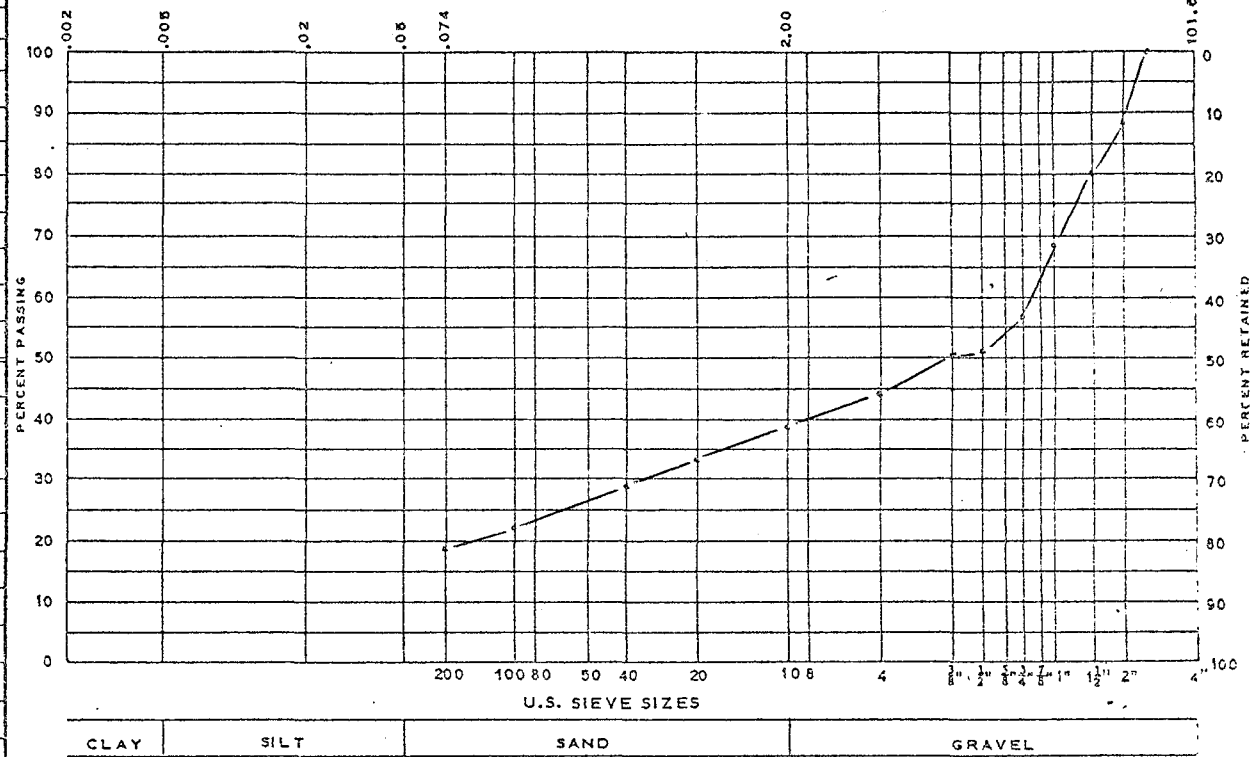
SAMPLE NO.	% PASSING LIMITS				L.L.	P.L.	P.I.	Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4								
												ROAD BED FILL T.H. <u>69</u> 67 2765
80										10 11 14		SAND GRAVEL
81										12 5		OVERBORDEN T.H. <u>70</u> SAND, CLAY 68 2765
82										10 15		SAND CLAY WITH STONES.
83										10 14		OVER BORDEN T.H. <u>71</u> 69 2765 SAND CLAY WITH STONES.
84										3 10		ROAD BED - FILL T.H. <u>72</u> 70 2765 SAND CLAY WITH LARGE STONES

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

FINER BY SIGHT		SIEVE ANALYSIS	
		SAMPLE NUMBER	
760	3"	503	3/8"
283	2	447	#4
301	1 1/2	390	10
379	1	336	20
362	3/4	288	40
305	1/2	218	100
		179	200

AGGREGATE GRADING CHART



DEPTH	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.C. 504 % LOSS	U.S. S.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
+ 4"												
		A-1-b	18.9	17.6	1.3							
		FAIR TO WEAK GRADED GRAVEL										

LABORATORY'S REMARKS

PROJECT DEWATER ALWAY.  
 LOCATION STA. 2765  
 HOLE No. \_\_\_\_\_ DEPTH 11 1/2' to 16'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 80 LAB SAMPLE No. 2914 #18  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

2914 - 11 1/2' - 16' STA. 2765 SAMPLE # 80  
 2918 3' - 10' STA. 2755 " # 84

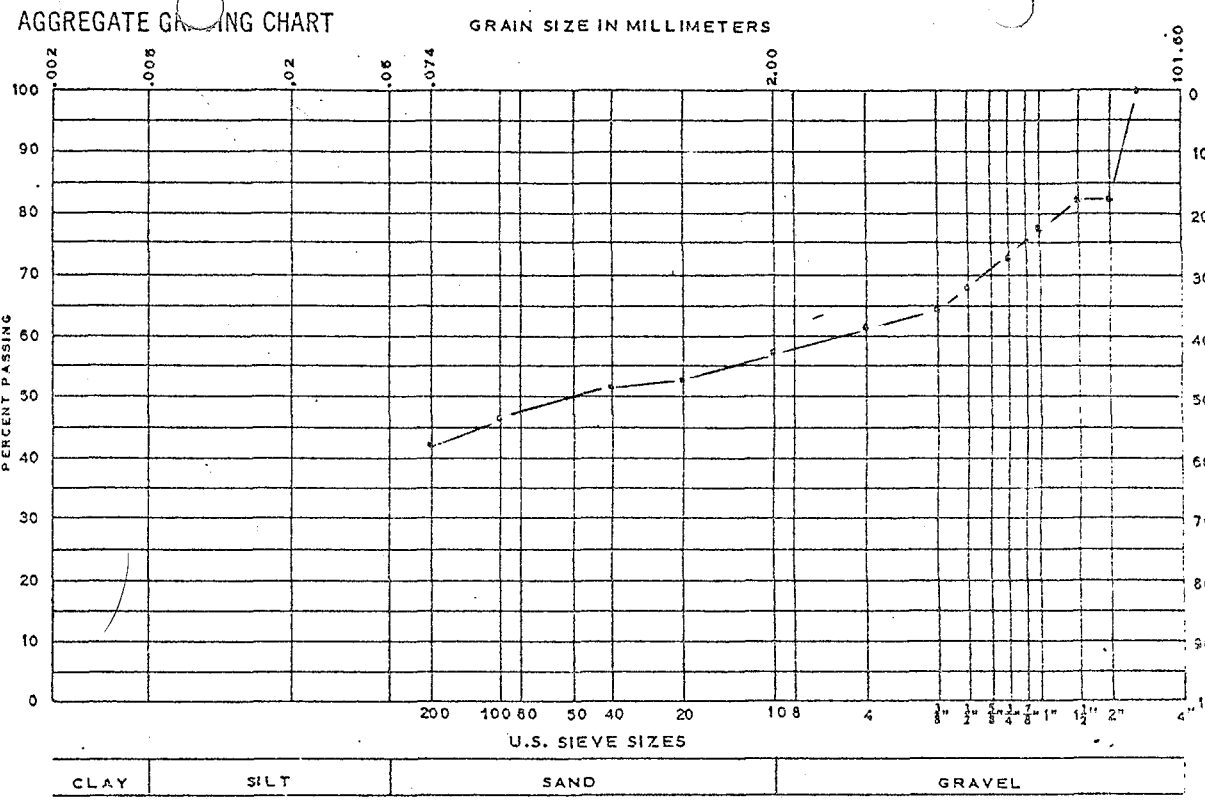
MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SAMPLE NUMBER	
100.0	3"	64.7 3/8"
82.5	2	61.2 #4
57.5	1 1/2	57.2 10
35.4	1	53.4 20
13.0	3/4	50.6 40
6.8	1/2	46.0 100
		43.5 200



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
A-4 S.M. SILTY SAND												

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMSTER-HI-WAY  
 LOCATION STA. 2763  
 HOLE NO. \_\_\_\_\_ DEPTH 1/2' to -  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 91  
 FIELD SAMPLE No. 81 LAB SAMPLE No. 2715-27  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER [Signature] DATE 25-3-71

FINE AGGREGATE

ROCK TYPE	%

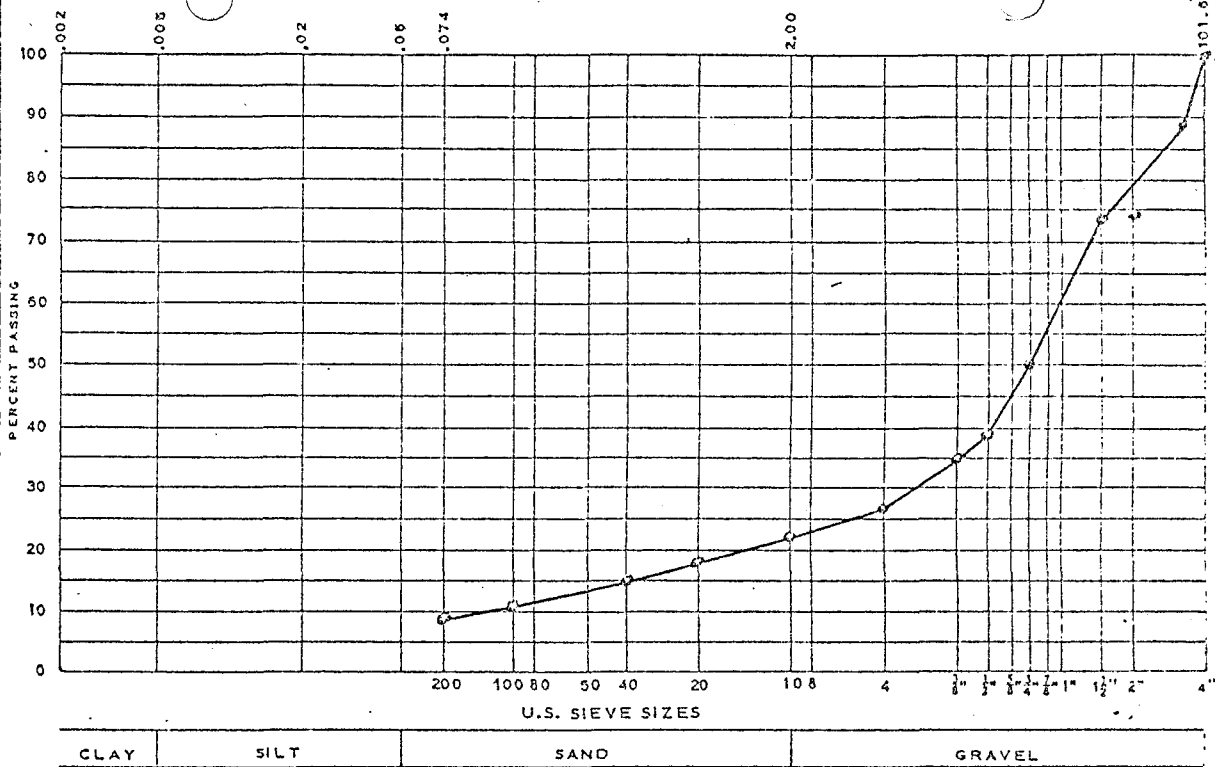
MATERIALS ENGINEER'S REMARKS

2715 - 1/2' - STA. 2763 SAMPLE # 81  
2727 - 1' to 1 1/2' - STA. 2763 SAMPLE # 83

FINER BY WEIGHT	SIEVE ANALYSIS	
	SAMPLE NUMBER	
4"	100	# 4 27.0
3"	88.4	# 10 22.5
2"	74.0	# 20 18.0
1 1/2"	74.0	# 40 15.0
1"	64.3	# 100 11.4
3/4"	49.4	# 200 9.5
1/2"	39.6	
3/8"	34.7	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSAC	COLOUR	% WATER ABSORB.	% ASPH. ADSORB.	F.M.
		A-1-U			0.0							
		C.W.										
FAIRLY WELL GRADED GRAVEL												

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY  
 LOCATION: STA. 2763  
 HOLE NO.: \_\_\_\_\_ DEPTH: 5' to 15'  
 SAMPLE TYPE: \_\_\_\_\_ DATE SAMPLED: JUNE 69  
 FIELD SAMPLE NO.: 82 LAB SAMPLE NO.: 2916  
 D. P. W. WHITEHORSE - SOILS LAB. F.W.  
 TESTING ENGINEER: \_\_\_\_\_ DATE: 29-3-71

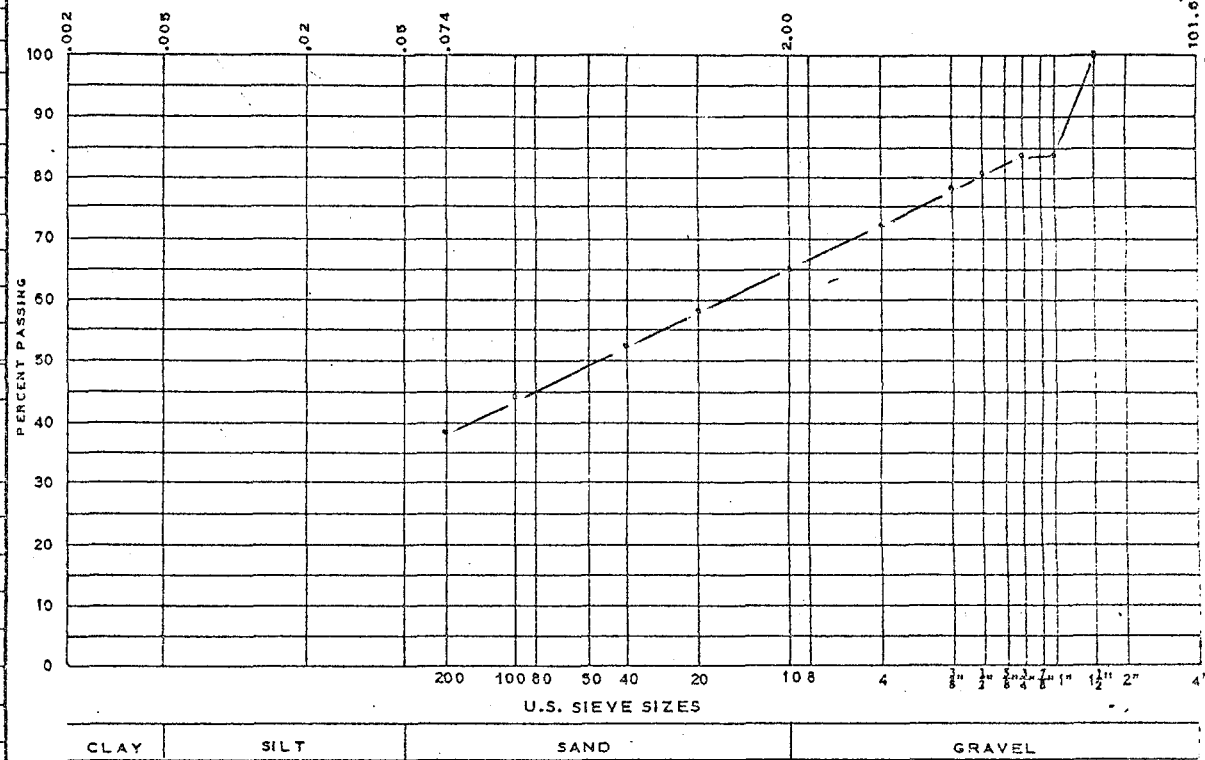
MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

AGGREGATE DEPOSIT REPORT (Cont'd)

% FINER BY WEIGHT	SIEVE ANALYSIS			
	SAMPLE NUMBER			
100.0	1 1/2"	65.3	#10	
84.7	1"	57.8	#20	
53.2	3/4"	52.4	#40	
30.4	1/2"	44.2	#100	
7.9	3/8"	36.1	#200	
7.1	#14			

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A.	MAG SO4	OSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
						% LOSS	% LOSS					
			21.7	17.0	4.7							
		A-4										
		S.M. - S.C.										
		SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMISTEC - 11-WAY  
 LOCATION STA. 2760  
 HOLE NO. \_\_\_\_\_ DEPTH 1' to 14'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 83 LAB SAMPLE No. 2117-176  
 D. P. W. WHITEHORSE - SOILS LAB

MATERIALS ENGINEER'S REMARKS

2917 - 1'-14' STA. 2760 SAMPLE #83  
~~2726 3'-14' STA. 2715 SAMPLE #92~~

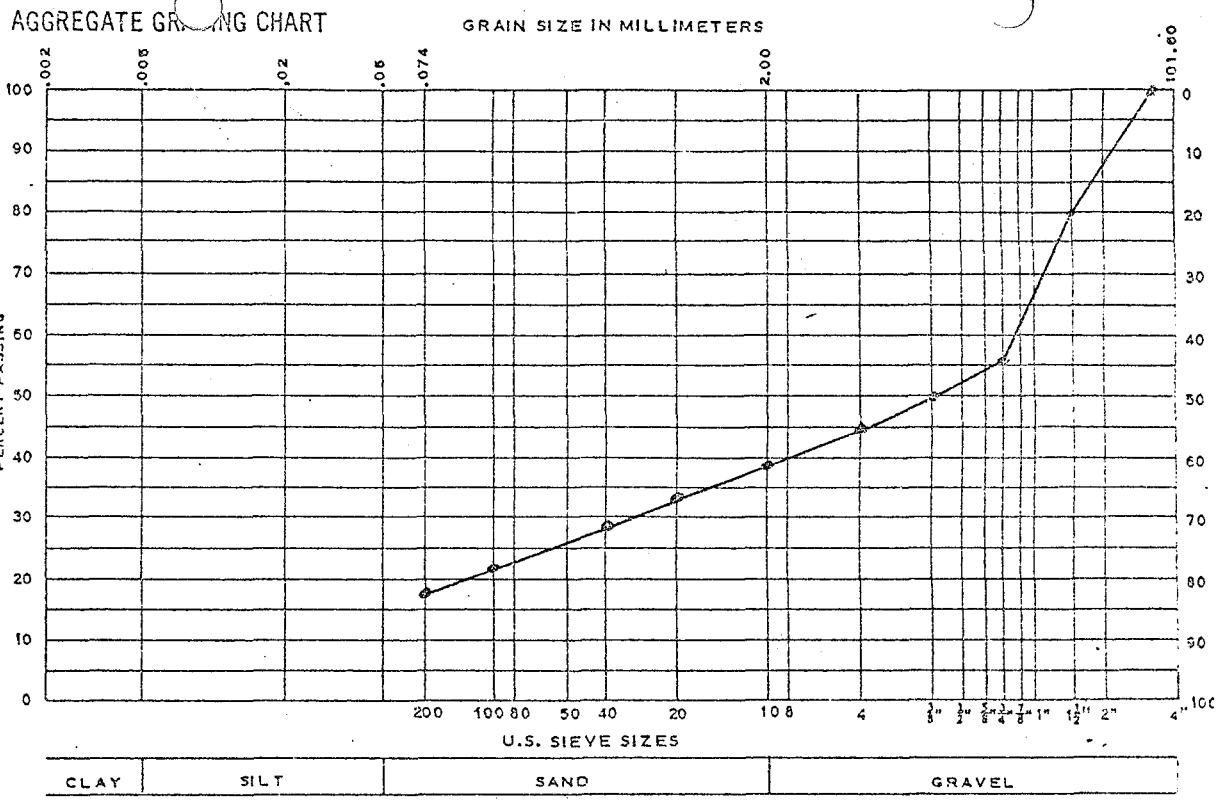
# AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS		SAMPLE NUMBER	
	70	#	70	
3"	100	# 4	44.7	
2"	88.3	# 10	39.0	
1 1/2"	80.1	# 20	33.6	
1"	67.9	# 40	28.8	
3/4"	56.2	# 100	21.8	
1/2"	50.5	# 200	17.9	
3/8"	50.3			

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 504 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b										
		G.W.										
FAIR TO WELL GRADED GRAVEL												



### TYPICAL PETROGRAPHIC ANALYSIS

#### COARSE AGGREGATE

ROCK TYPE	%

### LABORATORY REMARKS

PROJECT: DEMPSTER HIGHWAY

LOCATION: STA. 2755

HOLE No. \_\_\_\_\_ DEPTH: 3' to 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 69

FIELD SAMPLE No. 84 LAB SAMPLE No. 2918

D. P. W. WHITEHORSE - SOILS LAB G.W.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

#### FINE AGGREGATE

ROCK TYPE	%

### MATERIALS ENGINEER'S REMARKS

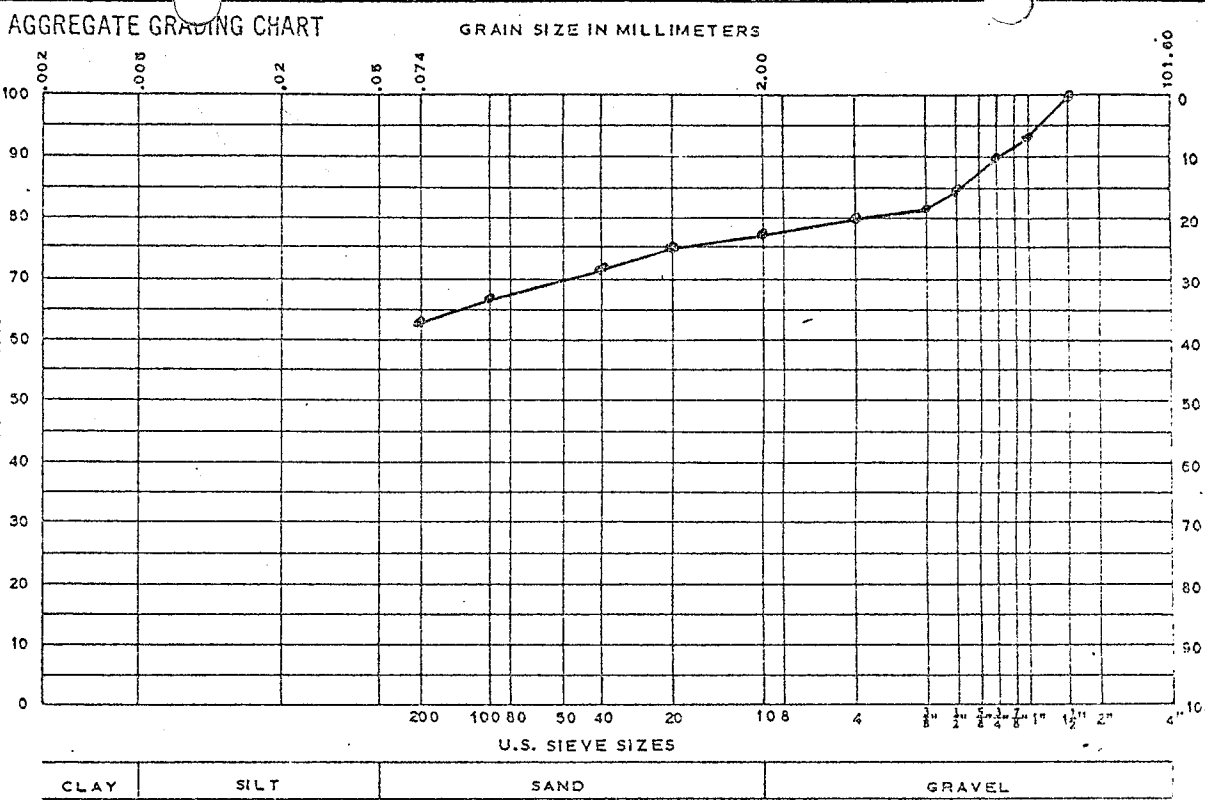
MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMIDSTER HIGHWAY TEST HOLE NO. 73-74-75-76  
 LOGGED BY ED MELANSON DATE JUNE 69 STATION 2750-2745  
 ENTERED BY G. KUBISKI DATE JULY 69 2740-2735  
 CHECKED BY G. KUBISKI DATE JULY 69 HOLE ADVANCED BY 4" AUGER MOBILE

SAMPLE NO.	% PASSING LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10					
						4		ROAD BED FILL T.H. 73
						9		71
85						10		SILT, SAND ROCK.
						4		ROAD BED FILL T.H. 74
						10		72
86						14		FROZEN SAND CLAYEY GRAVEL.
						4		ROAD BED FILL T.H. 75
						10		73
87								SAND, CLAY GRAVEL
						4		ROAD BED FILL T.H. 76
						10		74
88								WET SAND CLAY SMALL STONES.

FINER BY WEIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
1 1/2"	93.7	# 4 79.7
1"	↓	# 10 77.6
3/4"	90.0	# 20 74.9
1/2"	85.2	# 40 72.1
3/8"	82.5	# 100 67.0
		# 200 62.9



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSRC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	25.2	21.1	4.1							
		M.L.										
		SANDY SILT WITH SLIGHT PLASTICITY										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY

LOCATION: STA. 2750

HOE NO. \_\_\_\_\_ DEPTH: 4' to 9'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 69

FIELD SAMPLE NO. 85 LAB SAMPLE No. 2919

D. P. W. WHITEHORSE - SOILS LAB 2.M.

29-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER'S REMARKS

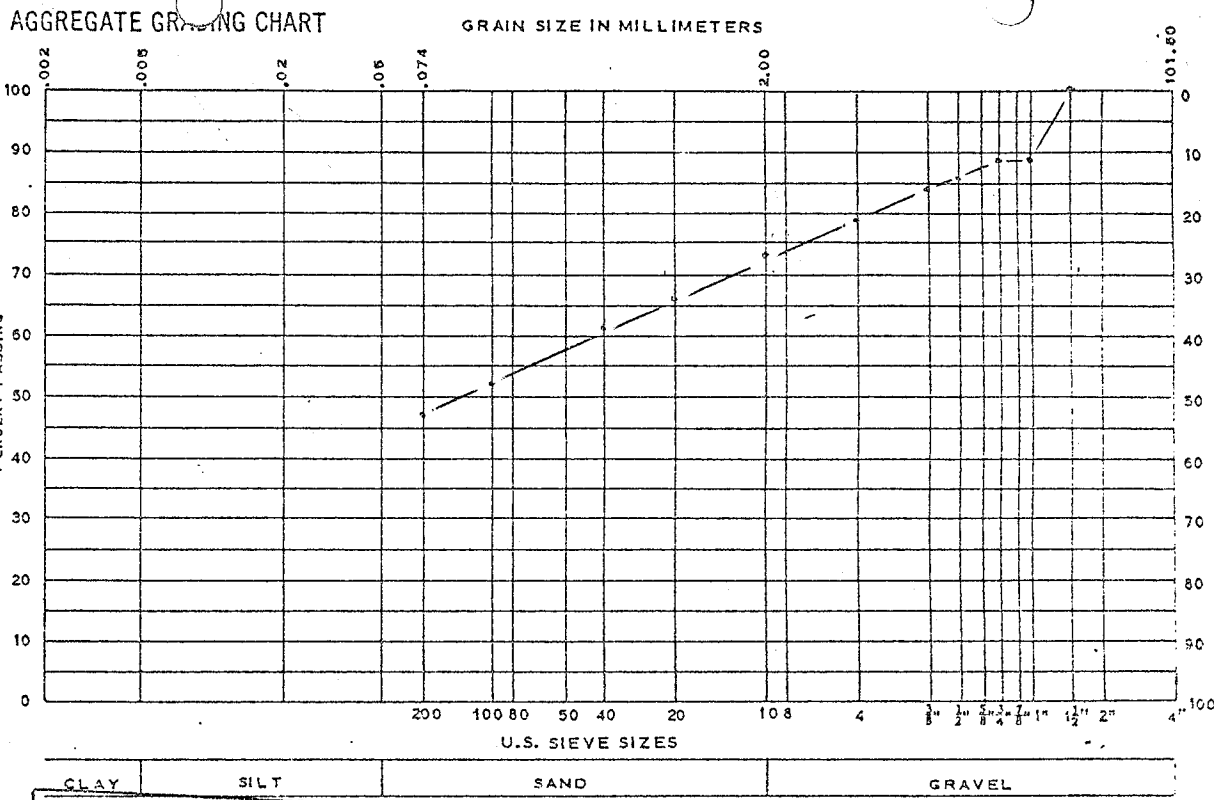
\_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

AGGREGATE DEPOSIT REPORT (Cont'd)

FINER BY WEIGHT	SIEVE ANALYSIS			
	SAMPLE NUMBER			
100	1/2"	73.1	#10	
77.1	1"	66.0	#20	
57.1	3/4"	60.7	#40	
35.7	1/2"	52.2	#10	
34.5	3/8"	46.9	#30	
28.7	3/4"			

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	U.A. % LOSS	Mg SO4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
		A-4	51.2	18.0	3.2							
		S.M.										
		SILTY SAND										



TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

PROJECT'S REMARKS

LOCATION: DEWSTER AL-WAY STA. 2745

HOLE No. \_\_\_\_\_ DEPTH: 9'-14'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 89

FIELD SAMPLE No. 26 LAB SAMPLE No. 7970

D. P. W. WHITEHORSE - SOILS LAB

FINE AGGREGATE	
ROCK TYPE	%

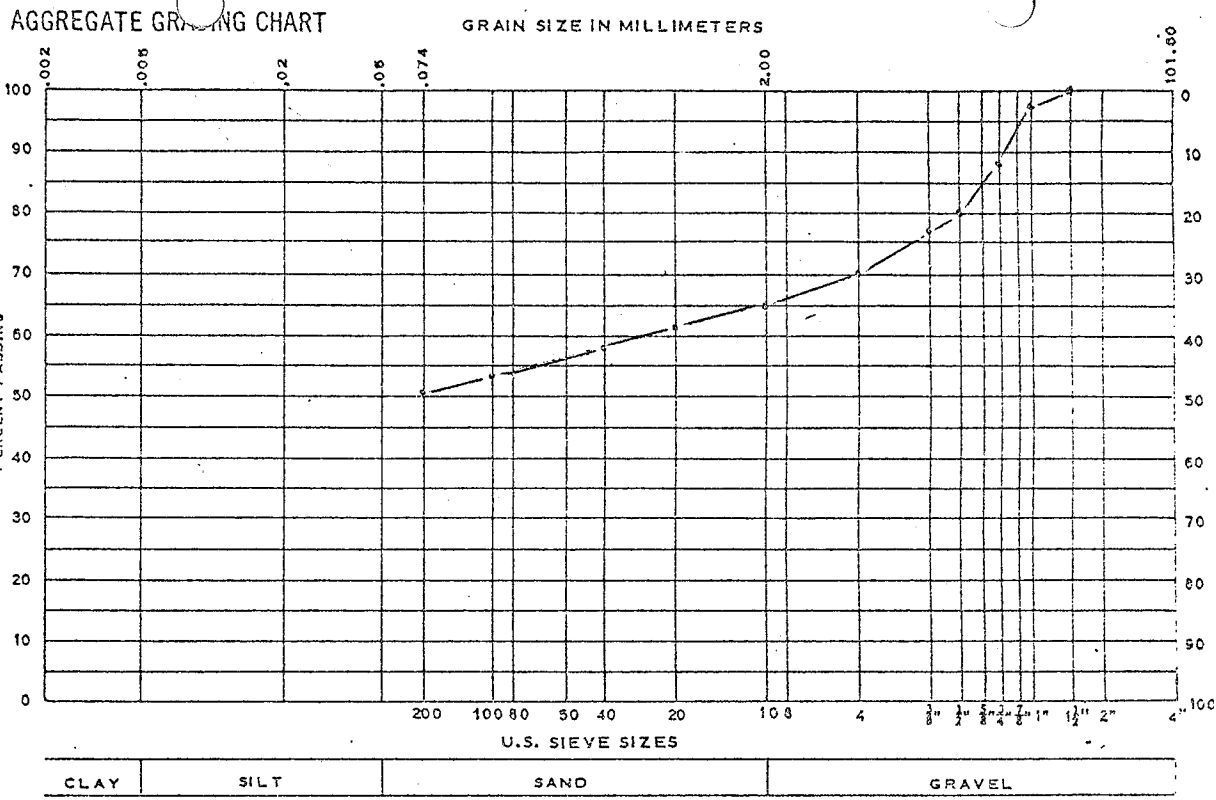
MATERIALS ENGINEER'S REMARKS

TESTING ENGINEER: [Signature] DATE: 25-3-71

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

AGGREGATE DEPOSIT REPORT (Cont'd)

FINER BY WEIGHT		SIEVE ANALYSIS	
		SAMPLE NUMBER	
100.0	1 1/2"	65.0	#10
97.3	1	60.9	#20
88.1	3/4	57.8	#40
80.0	1/2	53.0	#60
76.3	3/8	50.4	#75
61.7	#4		



AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	21.2	18.0	3.2							
		S.M.										
		SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: SEMIESTER #1-LWAY

LOCATION: STA. 2745

HOLE NO.: \_\_\_\_\_ DEPTH: 4'-10'

SAMPLE TYPE: \_\_\_\_\_ DATE SAMPLED: JUNE 1979

FIELD SAMPLE No. 87 LAB SAMPLE No. 2921

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER: \_\_\_\_\_ DATE: 25-3-79

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ DATE \_\_\_\_\_

AGGREGATE DEPOSIT REPORT (Cont'd)

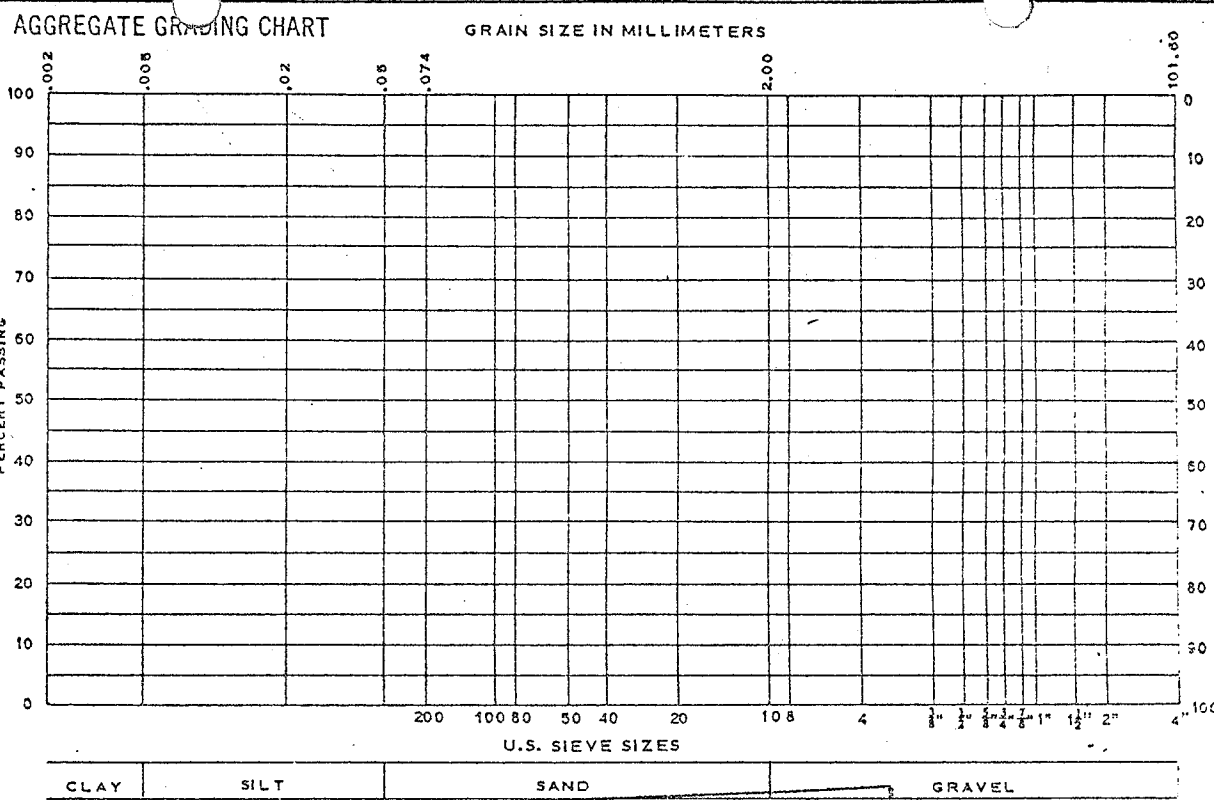
SHEET

% FINER BY WEIGHT		SIEVE ANALYSIS	
		SAMPLE NUMBER	
92.7% PASSING # 200 SIEVE			

AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSIG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F. M.
		A-4	21.4	15.6		5.8						
CLAYEY SILT WITH SLIGHT PLASTICITY												

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	

FINE AGGREGATE	
ROCK TYPE	



LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY

LOCATION: STA. 2735'

HOLE NO. \_\_\_\_\_ DEPTH: 4' to 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 69

FIELD SAMPLE No. 88 LAB SAMPLE No. 2922

D. P. W. WHITEHORSE - SOILS LAB J.W.

26-3-71

MATERIALS ENGINEER'S REMARKS

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

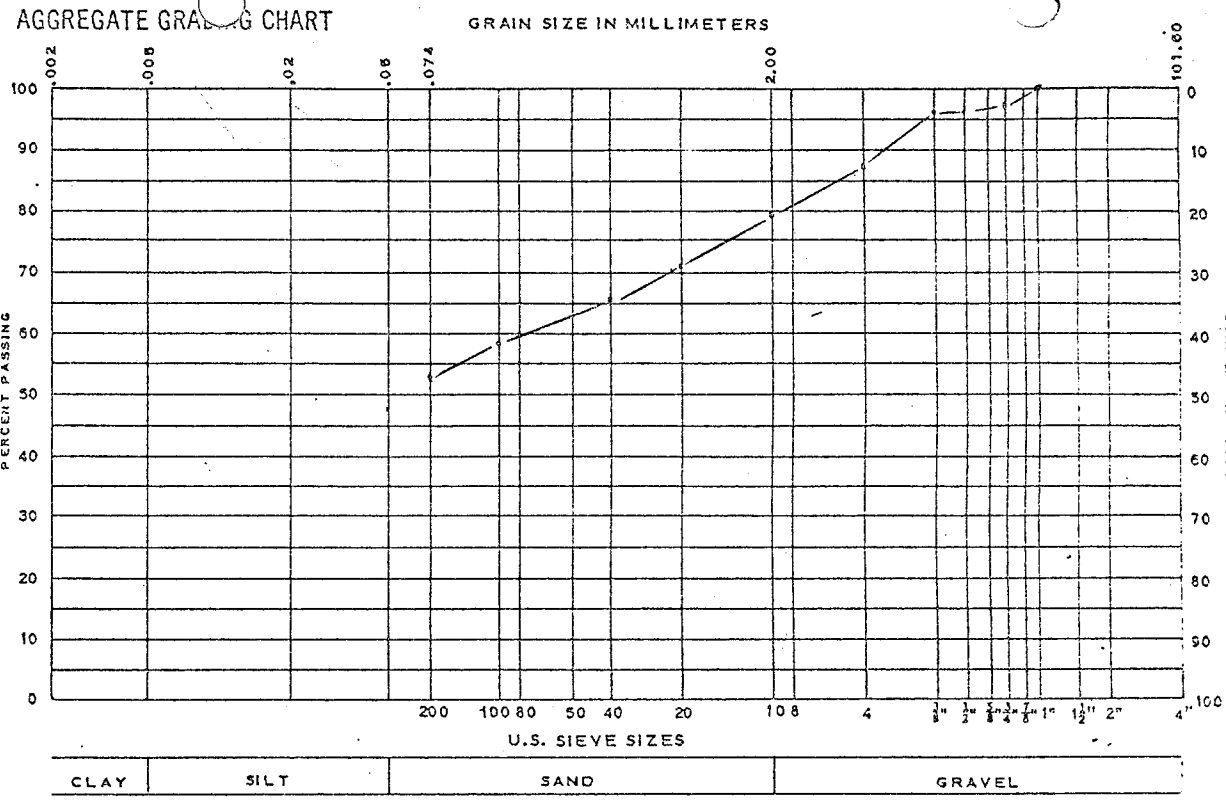
MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMOSTER HIGHWAY TEST HOLE NO. 77-78-79-80  
 LOGGED BY ED MELANSON DATE JUNE 29 STATION 2730 2725  
 ENTERED BY G. KOBISKI DATE JULY 29 2720 2715  
 CHECKED BY G. KOBISKI DATE JULY 29 HOLE ADVANCED BY 4" AUGER MOBILE

SAMPLE NO.	% PASSING LIMITS				F.L.	P.L.	P.I.	Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4								
												ROAD BED FILL T.H. <u>77</u>
										5		75
89										10		FROZEN SILT CLAY SAND.
												ROAD BED FILL T.H. <u>78</u>
										5		76
90										10		FROZEN SAND CLAY SMALL STONES
												ROAD BED - FILL T.H. <u>79</u>
										4		77
91										10		FROZEN SAND, CLAY SMALL STONES.
												ROAD BED - FILL T.H. <u>80</u>
										3		78
92										10		SAND CLAY WITH SMALL STONES

FINER BY EIGHT		SIEVE ANALYSIS			
		SAMPLE NUMBER			
70.0	#11	79.3	#10		
17.3	#4	70.7	#20		
16.3	#12	65.5	#40		
15.3	#20	57.9	#100		
5.0	#40	53.4	#200		



SMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MC 504 % LOSS	D50	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4										
		M.L.										
		SILT-SAND MIXTURE WITH SLIGHT PLASTICITY										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMONSTRATION HWY

LOCATION: STA. 2730

HOLE No. \_\_\_\_\_ DEPTH: 5' to 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE '69

FIELD SAMPLE No. 89 LAB SAMPLE No. 2923-179

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER: \_\_\_\_\_ DATE: 25-3-71

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

2923 - 5'-10' STA. 2730 SAMPLE # 81

~~2927 - 5'-10' STA. 2730 SAMPLE # 95~~

MATERIALS ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

AGGREGATE DEPOSIT REPORT (Cont'd)

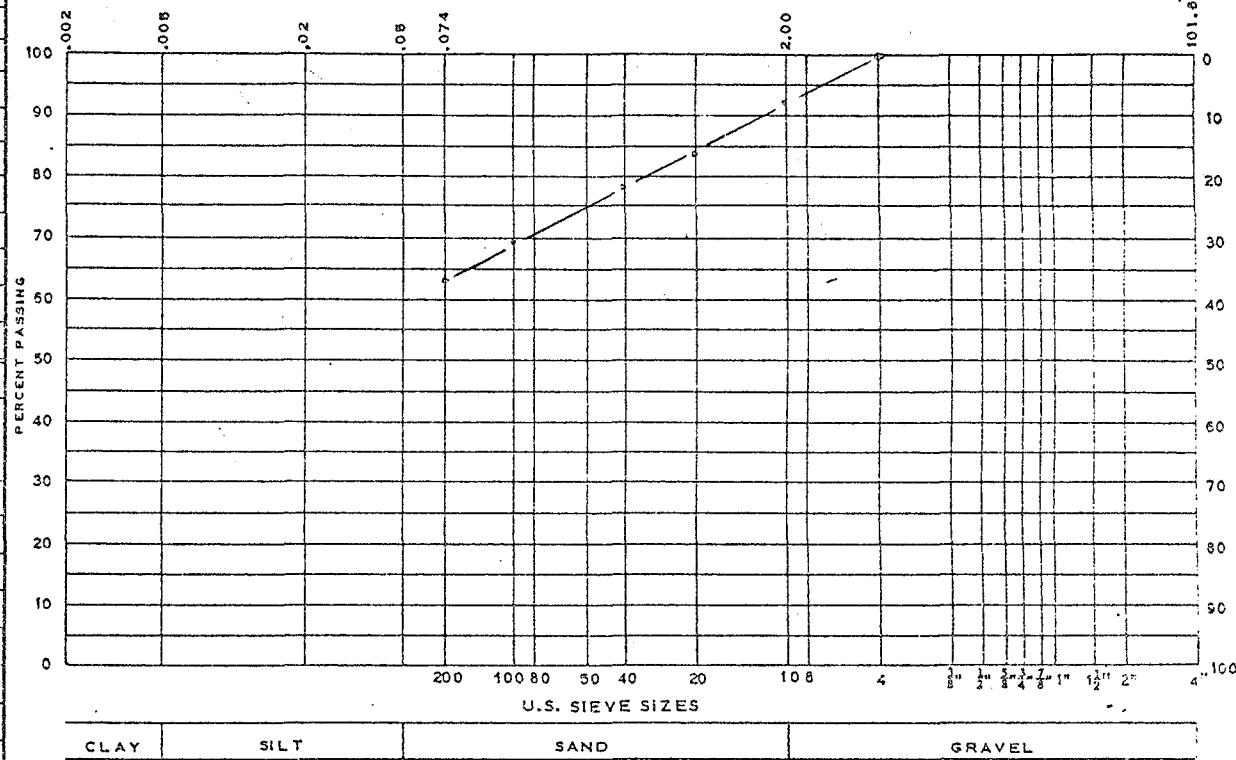
SHEET

FINER BY EIGHT	SIEVE ANALYSIS							
	SAMPLE NUMBER							
75.0	75.4							
71.6	70							
68.2	70							
73.4	70							
67.7	70							
63.4	70							

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSIC	COLOUR	% WATER ABSORB.	% ASDH. ABSORB.	F.M.
		A-4	25.2	2.1	4.1							
		M.L.										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



LABORATORY'S REMARKS

PROJECT DEWSTEAD HIGHWAY  
 LOCATION STA 2725  
 NO. E.L. \_\_\_\_\_ DEPTH 5'-10"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE '69  
 FIELD SAMPLE No. 90 LAB SAMPLE No. 2724  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE 25-3-71

MATERIALS ENGINEER'S REMARKS

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

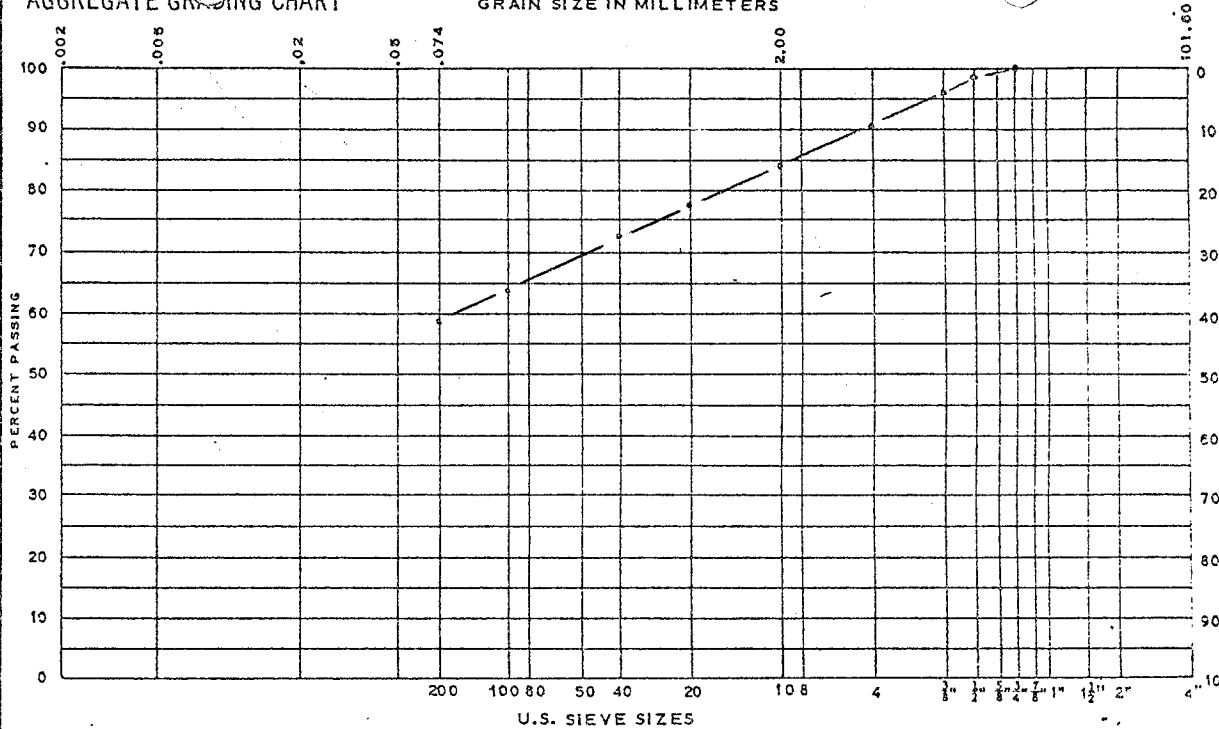
FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER \_\_\_\_\_

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SAMPLE NUMBER	
100.0	3/4"	84.3 #10
98.9	1/2"	77.3 20
92.8	3/8"	72.8 40
70.5	#4	64.1 100
		59.6 200

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A.	% LOSS	MG SOL. % LOSS	D.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4											
		M.L.											
		SANDY SILT											

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DOMESTIC 11-WAY STA. 2720

LOCATION: DOMESTIC 11-WAY STA. 2720

HOLE No.      DEPTH 1'-10"

SAMPLE TYPE      DATE SAMPLED JUNE '61

FIELD SAMPLE No. 41      LAB SAMPLE No. 2125

D. P. W. WHITEHORSE - SOILS LAB

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

TESTING ENGINEER: *(Signature)* DATE: 25-3-71

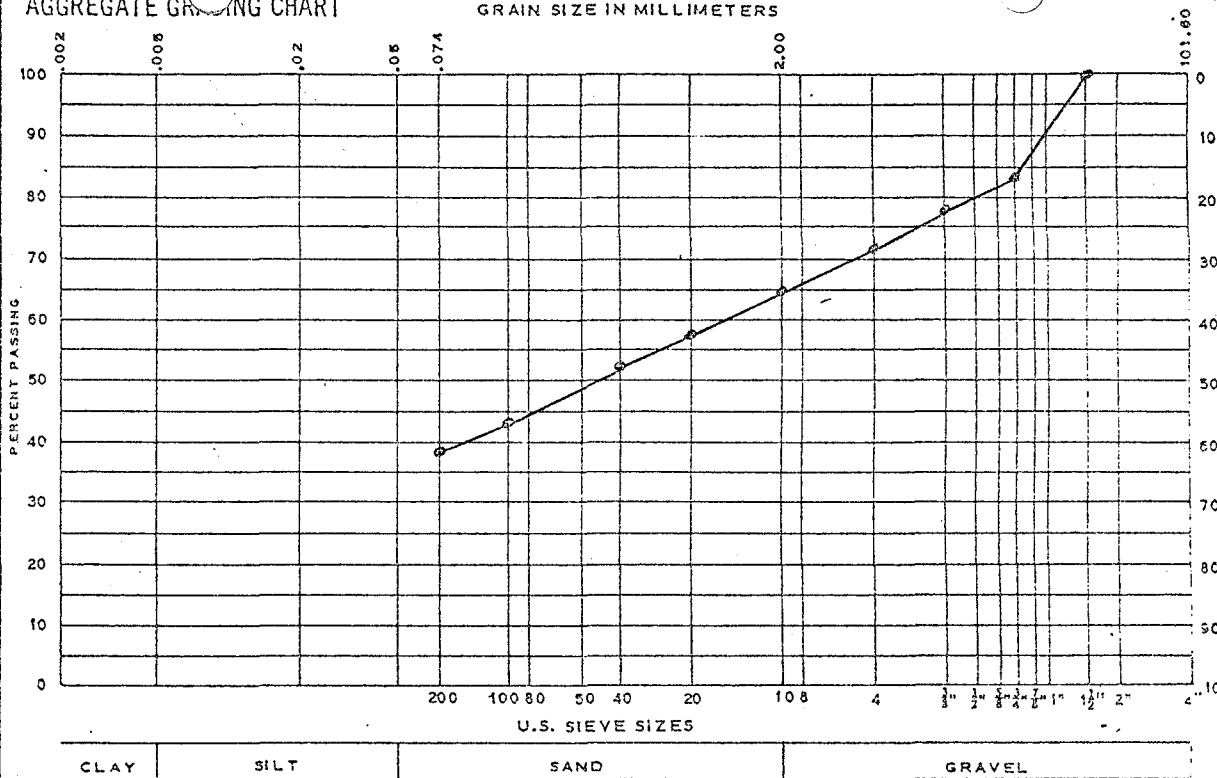
MATERIALS ENGINEER      DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
1 1/2"	100	# 4 72.1
1"	84.2	# 10 65.3
3/4"	84.2	# 20 57.8
1/2"	80.4	# 40 52.4
3/8"	77.9	# 100 44.2
		# 200 39.1

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.G. SOL. % LOSS	D.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	21.7	17.0	4.7							
		S.M.-S.C.										
		SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY  
 LOCATION: STA. 2715  
 HOLE NO.: \_\_\_\_\_ DEPTH: 3' to 10'  
 SAMPLE TYPE: \_\_\_\_\_ DATE SAMPLED: JUNE 1969  
 FIELD SAMPLE NO.: 92 LAB SAMPLE No. 2926  
 D. P. W. WHITEHORSE - SOILS LAB J. M.  
30-3-71

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE



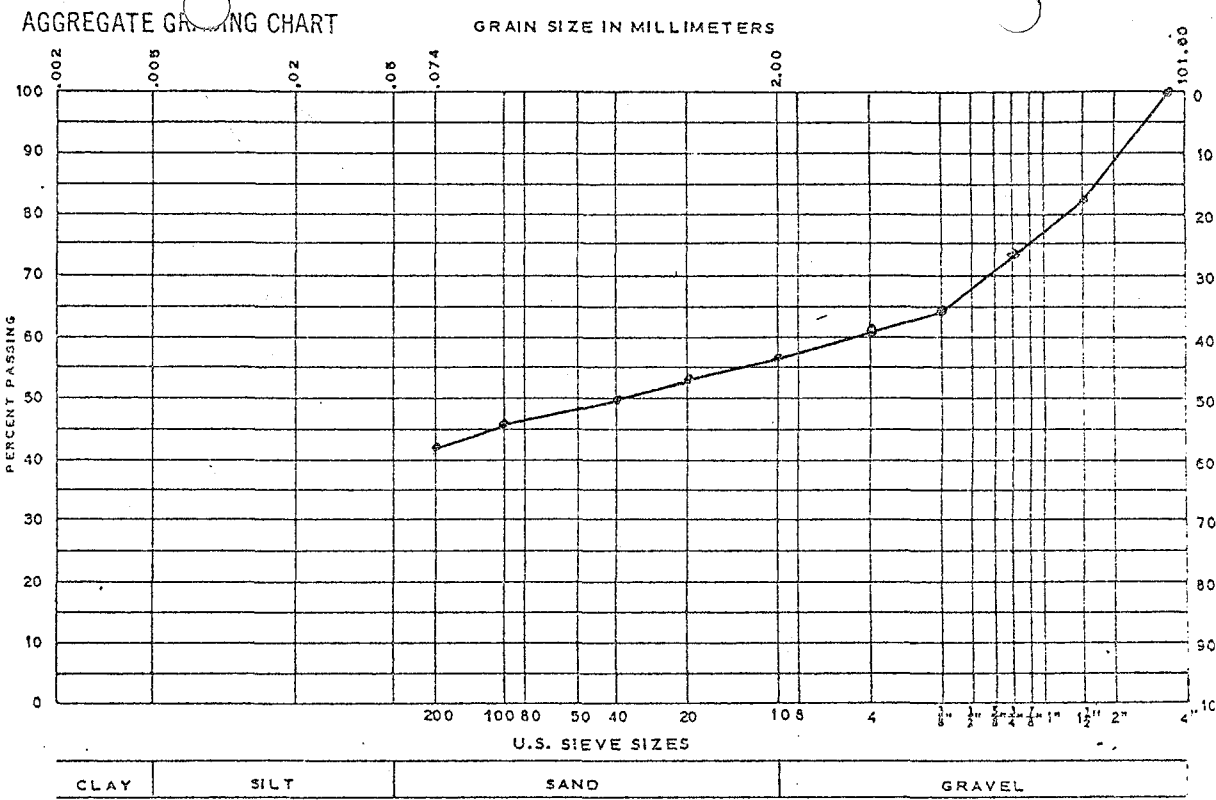
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
3"	100	# 4 61.2
2"	82.5	# 10 57.2
1 1/2"	82.5	# 20 53.4
1"	77.4	# 40 50.6
3/4"	73.0	# 100 46.0
1/2"	67.8	# 200 42.5
3/8"	64.7	
%		
% + 4"		

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	U.A.	% LOSS	MG SO <sub>4</sub>	% LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.2	18.0			3.2							
		A-4												
		S.M.												
		SILTY SAND												



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2710

DEPTH 4' to 10'

DATE SAMPLED JUNE 69

FIELD SAMPLE NO. 93 LAB SAMPLE NO. 2927

D. P. W. WHITEHORSE - SOILS LAB J.W.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

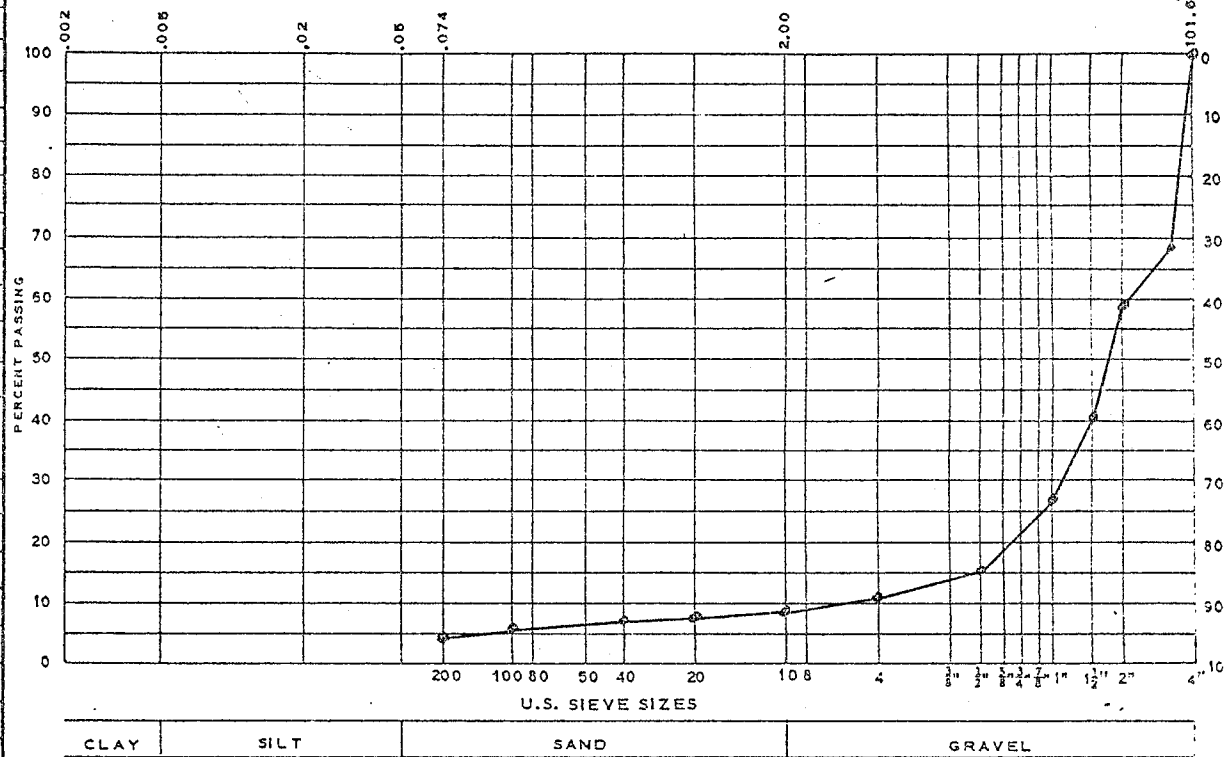
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SAMPLE NUMBER	
%	#	%
4"	100	# 4 11.2
3"	69.8	# 10 9.6
2"	59.4	# 20 8.3
1 1/2"	40.8	# 40 7.4
1"	27.2	# 100 6.0
3/4"	19.7	# 200 4.9
1/2"	15.4	
3/8"	13.4	

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO <sub>4</sub> % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPHALT. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		POORLY GRADED GRAVEL - SAND MIXTURE										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 2705  
 HOLE NO. \_\_\_\_\_ DEPTH 6' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 94 LAB SAMPLE No. 2928  
 D. P. W. WHITEHORSE - SOILS LAB J. M.  
 30-3-71

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

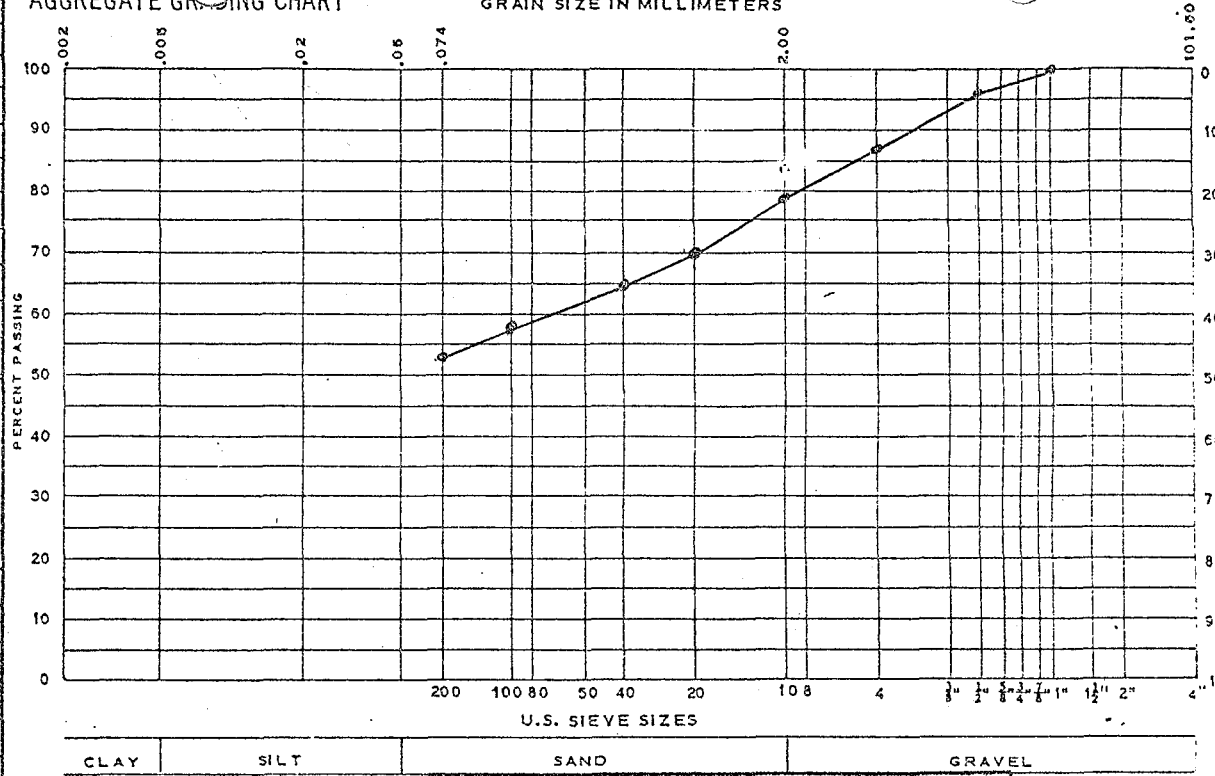
F

% FINER BY WEIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
1"	100	# 4 87.0
3/4"	97.3	# 10 79.3
1/2"	96.3	# 20 70.7
3/8"	96.3	# 40 65.5
		# 100 57.9
		# 200 53.4

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DS <sub>50</sub> C	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	4.0							
		A-4										
		M.L.										
		SILT - SAND MIXTURE WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

DEMPSTER HIGHWAY  
 DEPTH 5' to 10'  
 STA. 2700 DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 95 LAB SAMPLE No. 2929  
 D. P. W. WHITEHORSE - SOILS LAB J.W.  
 30-3-71

TESTING ENGINEER

DATE

FINE AGGREGATE

ROCK TYPE

%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

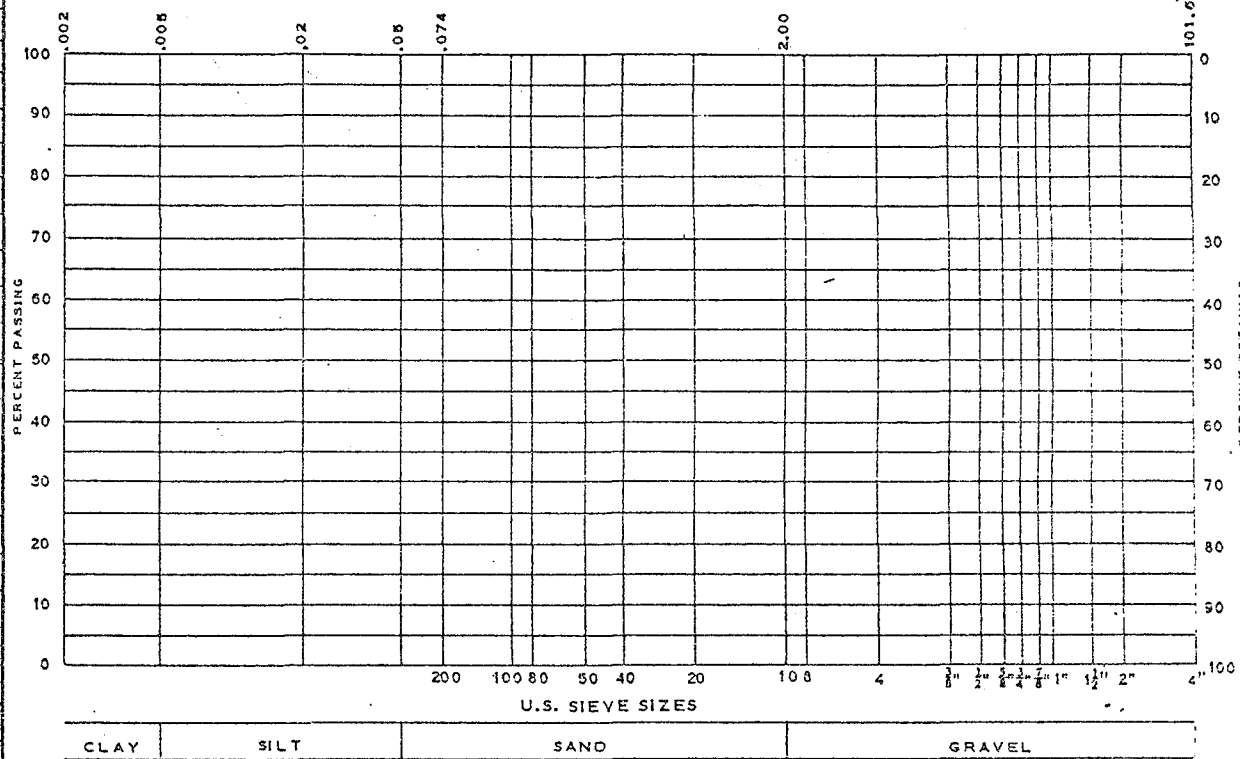
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

FINER BY EIGHT		SIEVE ANALYSIS												
		SAMPLE NUMBER												
		81.2% PASSING #200 SIEVE												
+ 4"														
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.		
		A-4	22.6	21.2		1.4								
		M.L.												
		SANDY SILT												

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION .....

HOLE No. .... DEPTH .....

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. .... LAB SAMPLE No. ....

D. P. W. WHITEHORSE - SOILS LAB D.W.

26-3-71

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

2930 STA. 2695 # 96 4' to 10'

2931 STA. 2690 # 97 2' to 7'

~~2937 STA. 2675 # 103 4' to 7'~~

MATERIALS ENGINEER

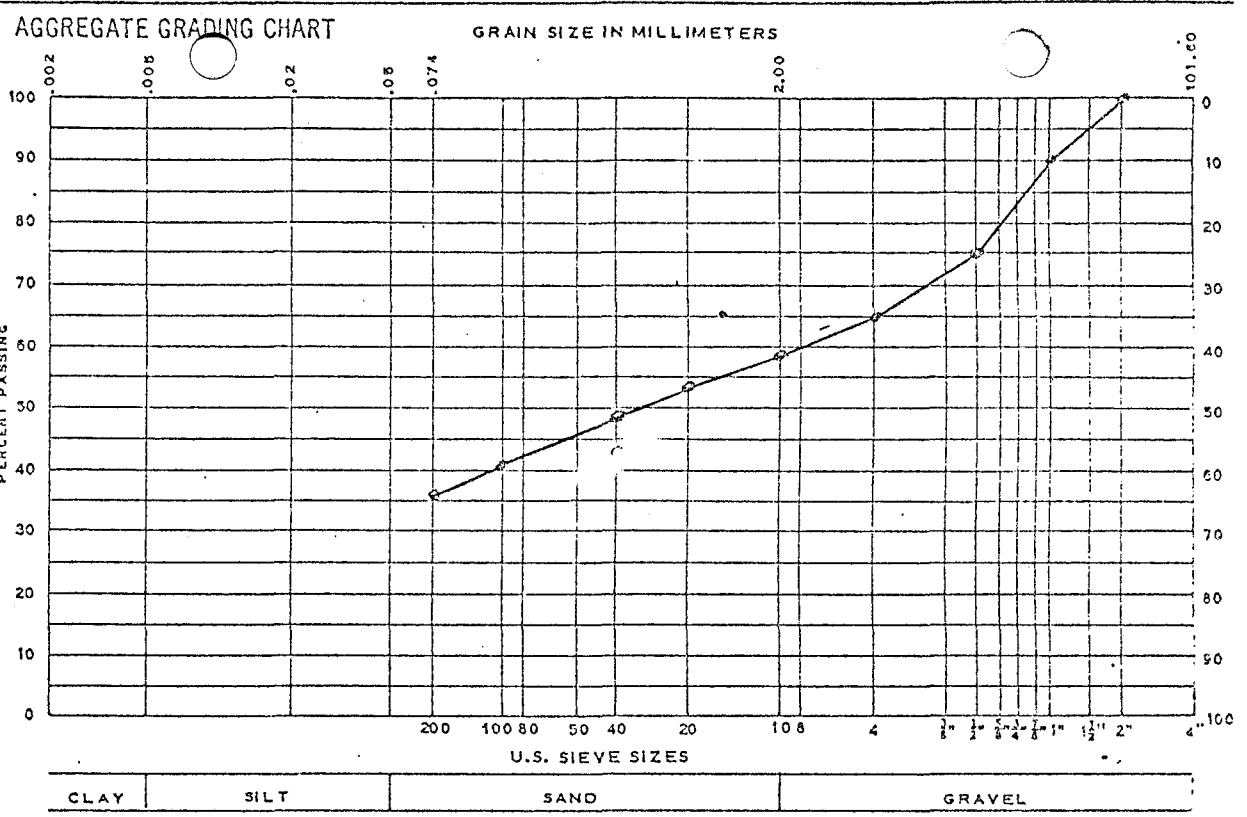
DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSA, Y.T.

PROJECT DEMPSTER HI-WAY TEST HOLE NO. 85-86-87-88  
 LOGGED BY ED. MELANSON DATE JUNE 69 STATION 2190 2685  
 ENTERED BY G. KOZISKI DATE JULY 2680 2675  
 CHECKED BY G. KOZISKI DATE JULY HOLE ADVANCED BY 4" AUGER MOBILE

SAMPLE NO.	% PASSING			LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	U.L.	P.L.					
97									2		ROAD BED FILL T.H. 85
											SILTY CLAY DAMP 83
									7		
98									9		FROZEN
									10		SILTY CLAY SOME STONES.
									2		ROAD BED FILL T.H. 86
99											84
											SILTY SAND + GRAVEL
											SOME COBBLES UP TO 6"
									10		WET AT 10'
									2		ROAD BED FILL T.H. 87
100											8
											FROZEN SILTY CLAY 85
									7		
101											SILTY CLAY VERY WET.
									10		
											COBBLES UP TO 6"
											BROKE CLAY BIT OFF.
									2		ROAD BED FILL T.H. 88
102											3
											FROZEN SILTY CLAY 86
									7		
103											DRY SILTY CLAY
104									10		SANDY CLAY.

SIEVE SIZE	SIEVE ANALYSIS	
	PERCENT PASSING	SAMPLE NUMBER
75 #	100	# 4 65.6
100 #	97.1	# 10 57.4
200 #	89.8	# 20 53.8
400 #	81.9	# 40 49.3
600 #	75.2	# 100 41.5
800 #	72.6	# 200 36.2



ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.C.S.O. % LOSS	B.S.P.G.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
	A-4										
	S.M. - S.C.										
	SILTY SAND										

#### TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

#### LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2690

HOLE NO. \_\_\_\_\_ DEPTH 7' to 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 98 LAB SAMPLE No. 2932

D. P. W. WHITEHORSE - SOILS LAB

J. ml.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

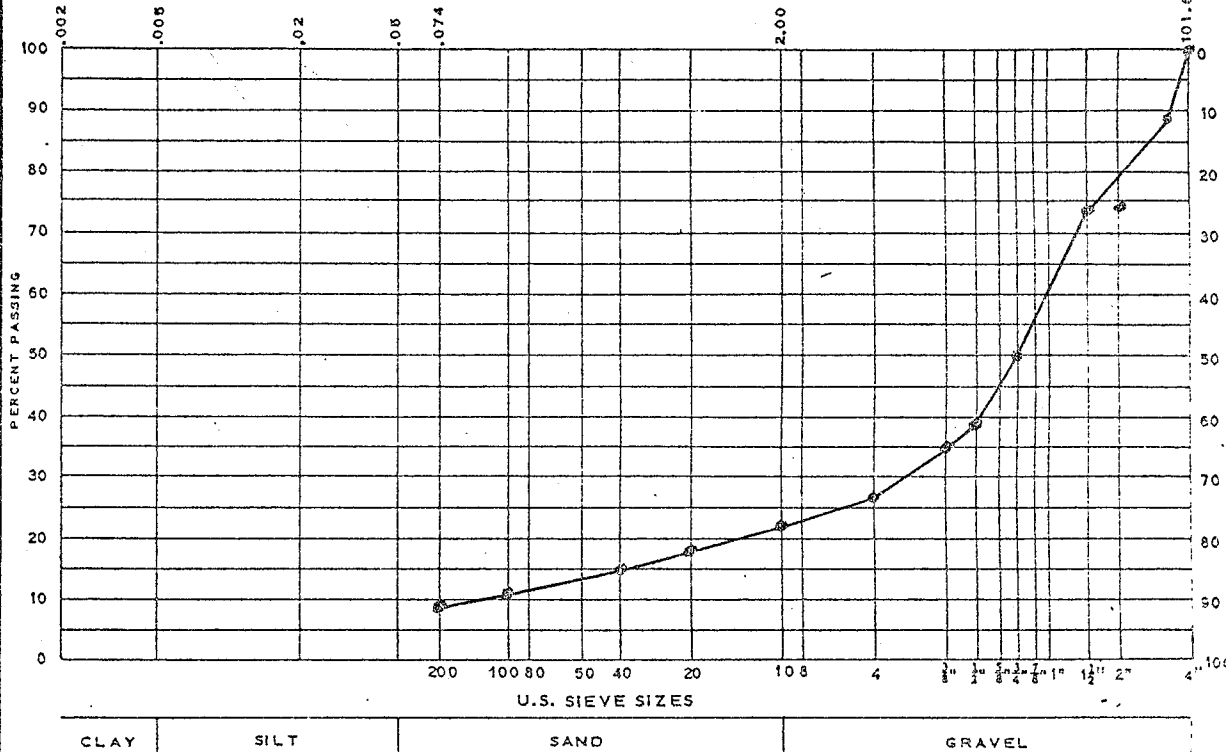
#### MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY WEIGHT	SIEVE ANALYSIS	
	PERCENT	SAMPLE NUMBER
4"	100	# 4 27.0
3"	88.4	# 10 22.5
2"	74.0	# 20 18.0
1 1/2"	74.0	# 40 15.0
1"	64.3	# 100 11.4
3/4"	49.4	# 200 9.5
1/2"	39.6	
3/8"	34.7	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO. % LOSS	BSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.W.										
FAIRLY WELL GRADED GRAVEL												

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

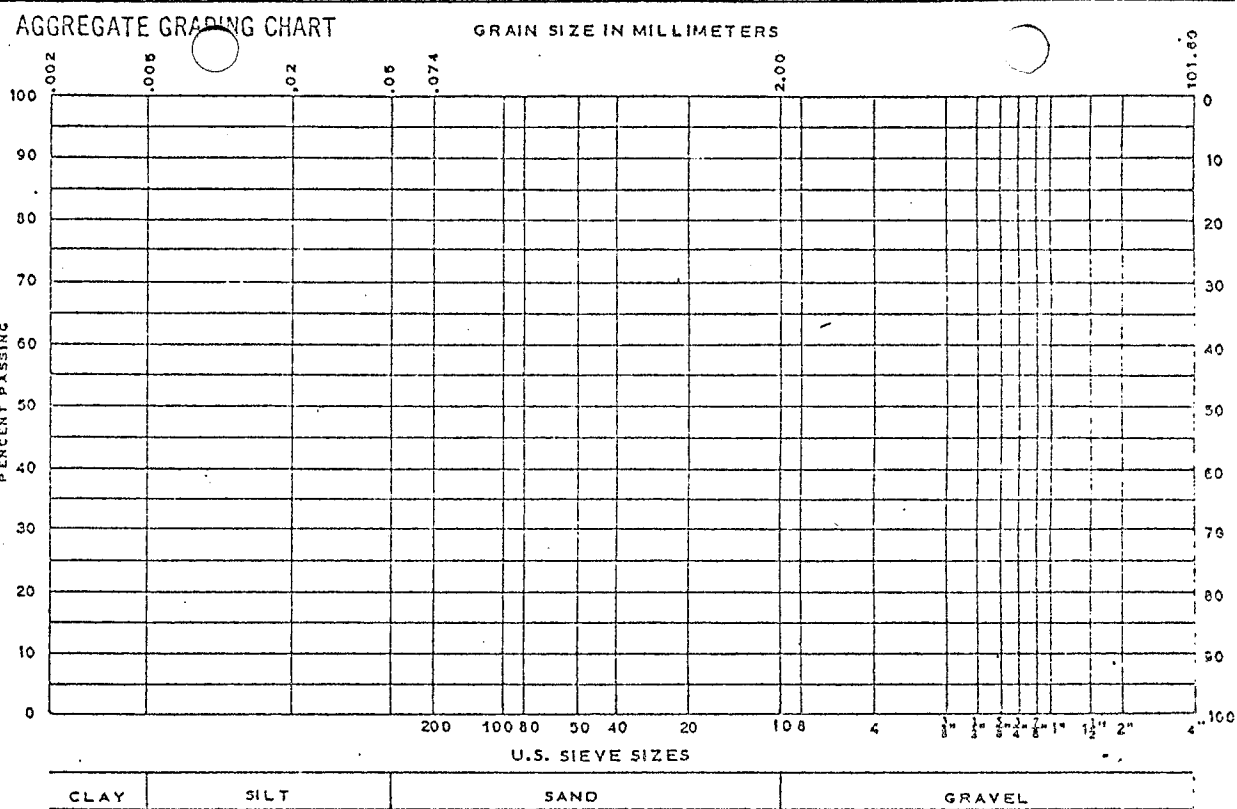
LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 2765  
 HOLE No. \_\_\_\_\_ DEPTH 2' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 99 LAB SAMPLE No. 2933  
 D. P. W. WHITEHORSE - SOILS LAB J.M.  
29-3-71

MATERIALS ENGINEER'S REMARKS

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
 MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

SIEVE ANALYSIS		SAMPLE NUMBER											
90.0% PASSING #200 SIEVE													
+ 4"													
PL. E.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A.	% LOSS	MC SO. % LOSS	USPC	COLOUR	% WATER ABSORB.	% ACID. ABSORB.	F.M.
			34.5	25.3			9.2						
A-4													
M.L.													
CLAYEY SILT OF MED. PLASTICITY													



#### TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

#### LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2680

HOLE NO. \_\_\_\_\_ DEPTH 3' to 7'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 100 LAB SAMPLE No. 2934

D. P. W. WHITEHORSE - SOILS LAB J. M.

3.0-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

#### FINE AGGREGATE

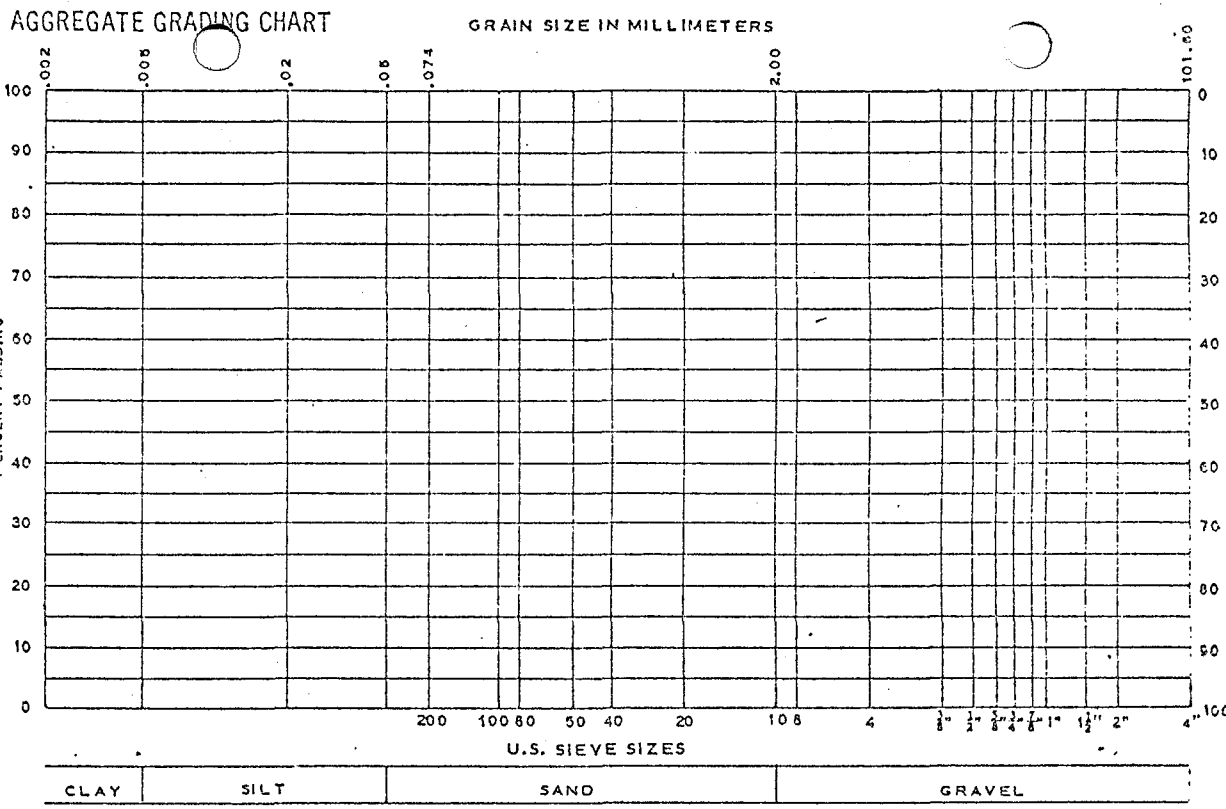
ROCK TYPE	%

#### MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

SIEVE ANALYSIS									
SAMPLE NUMBER									
81.4% PASSING # 200 SIEVE									

ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.G. 504 % LOSS	BSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
	A-4	27.9	22.8	5.1							
	M.L.										
	SANDY SILT										



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

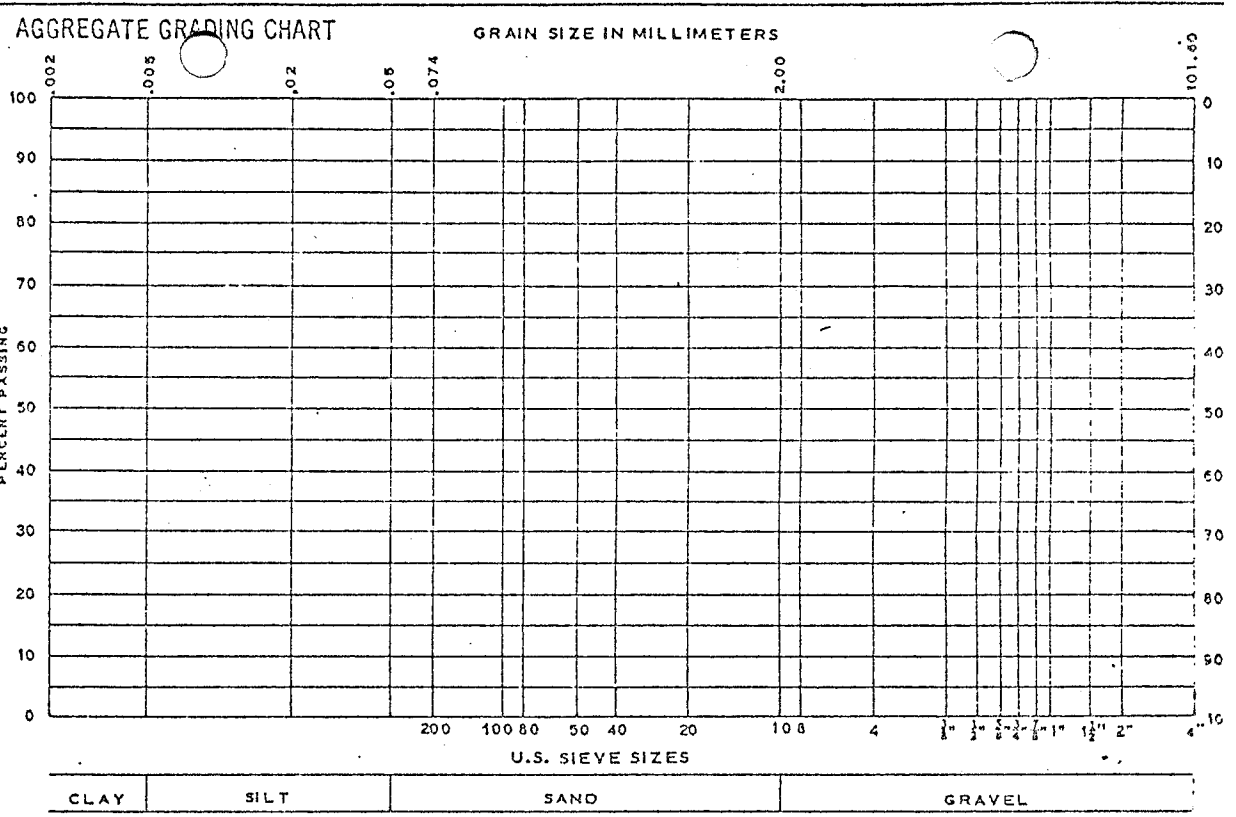
PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 2680  
 HOLE No. \_\_\_\_\_ DEPTH 7' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 101 LAB SAMPLE NO. 2935  
D. P. W. WHITEHORSE - SOILS G.W.  
30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY EIGHT		SIEVE ANALYSIS								
		SAMPLE NUMBER								
		90.0% PASSING #200 SIEVE								
+ 4"										
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L. P.L. P.I.	L.A. % LOSS	MC 504 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	34.5	25.3	9.2					
CLAYEY SILT OF MED. PLASTICITY										



#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

#### LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2675

HOLE No. \_\_\_\_\_ DEPTH 3' to 4'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 102 LAB SAMPLE No. 2936

D. P. W. WINTERHORSE - SOILS LAB *J. mt.*

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

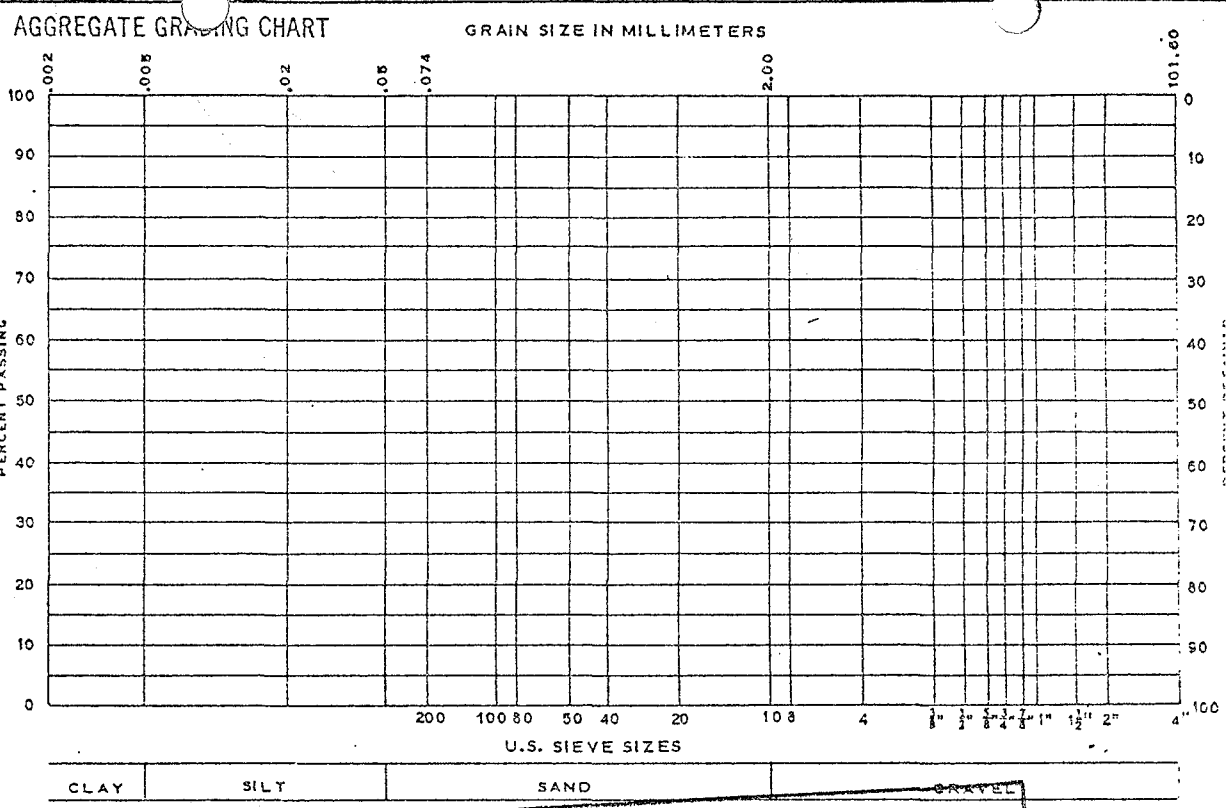
#### FINE AGGREGATE

ROCK TYPE	%

#### MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY EIGHT		SIEVE ANALYSIS SAMPLE NUMBER							
81.2 % PASSING # 200 SIEVE									



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO. % LOSS	DSAC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.6		21.2		1.4					
		A-4										
		M.L.										
		SANDY SILT										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	SE

LABORATORY'S REMARKS

PROJECT.....  
 LOCATION..... DEMPSTER HIGHWAY  
 HOLE No..... DEPTH 4' to 2'  
 SAMPLE TYPE STA. 2675 DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 103 LAB SAMPLE No. 2937  
 D. P. W. WHITEHORSE - SOILS LAB G.M.  
 30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

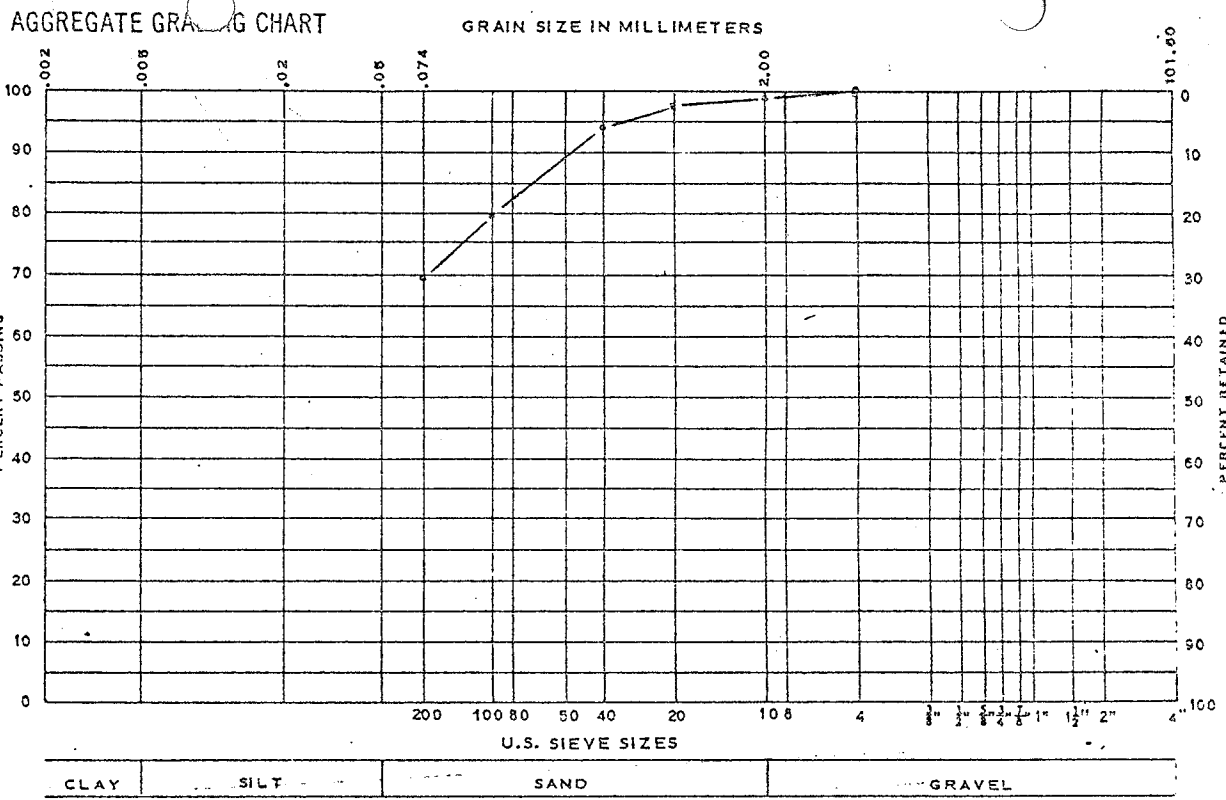
FINE AGGREGATE	
ROCK TYPE	SE

MATERIALS ENGINEER'S REMARKS

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY SIEVE ANALYSIS		SAMPLE NUMBER										
WGT.	SIZE											
100	#4											
100	#10											
100	#20											
100	#40											
100	#60											
100	#100											
100	#200											
+ 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.G. SO. % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		30-1 274 2.7										
		A-4										
		M.L.										
		SANDY SILT										



#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

#### LABORATORY'S REMARKS

PROJECT: DEWSTER-HY-WAY

LOCATION: STA. 2675

HOLE No. \_\_\_\_\_ DEPTH: 7'-10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 1969

FIELD SAMPLE No. 104 LAB SAMPLE No. 2138

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER [Signature] DATE 25-3-71

#### FINE AGGREGATE

ROCK TYPE	%

#### MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

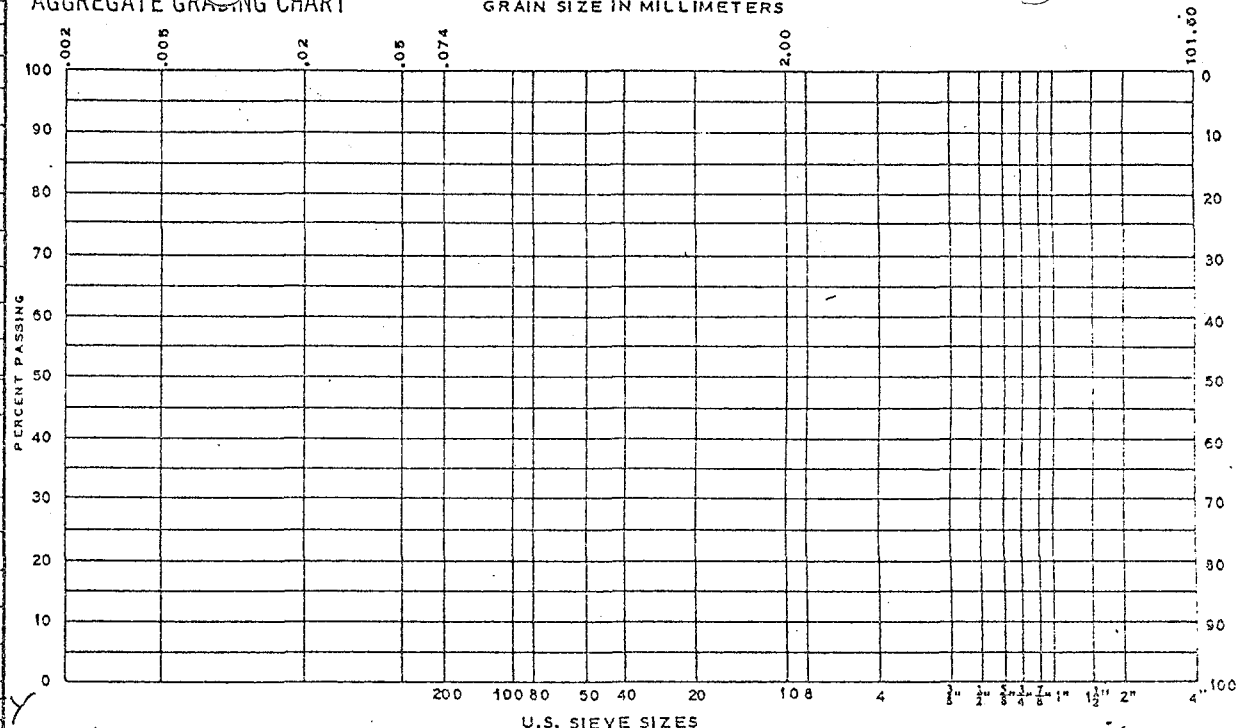
PROJECT DEMESTER HI-WAY TEST HOLE NO. 89-90-91-92  
 LOGGED BY ED. MELANSON DATE JUNE 69 STATION 2670-2665-  
 ENTERED BY G. KUBISKI DATE JULY 69 2670 2655  
 CHECKED BY G. KUBISKI DATE JULY 69 HOLE ADVANCED BY 4" AUGER

SAMPLE NO.	% PASSING LIMITS			L.L.	P.L.	P.I.	Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10								
105									2		ROAD BED FILL T.H. 89
									6		BLACK ORGANIC SILTY CLAY FROZEN
106									6		SILTY CLAY FROZEN
									10		SOME COBBLES REFUSE ON COBBLES.
									2		ROAD BED FILL T.H. 90
107									2		SILTY CLAY WET. SOME ROCK UP TO 2"
									10		
108									3		ROAD BED FILL T.H. 91
									7		FROZEN SILTY CLAY SOME ORGANIC MATERIAL
109									7		FROZEN SILTY CLAY SOME SAND AND STONE
									10		
									3		ROAD BED FILL T.H. 92
110									3		FROZEN SILTY CLAY STONES UP TO 1"
									10		

FINER BY EIGHT	SIEVE ANALYSIS SAMPLE NUMBER				
	75	150	300	600	1200
	MORE THAN 75% PASSING #200 SIEVE				

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY SILT SAND GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS										
COARSE AGGREGATE										
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSNC	COLOUR	F.M.
		A-5	54.5	47.6	6.9					
		M.H.								

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2670

HOLE No. \_\_\_\_\_ DEPTH 2' to 6'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 105 LAB SAMPLE No. 2939

D. P. W. WHITEHORSE - SOILS LAB g.M.

26-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

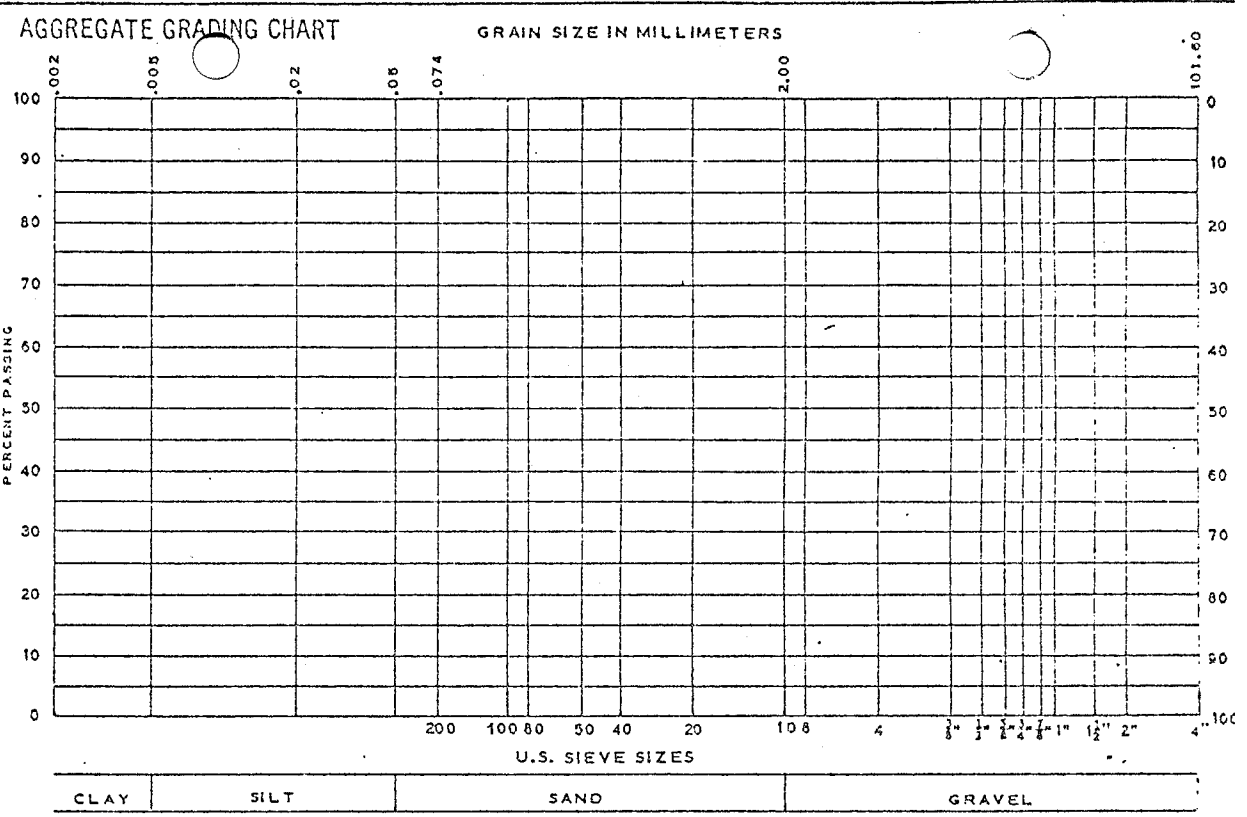
FINE AGGREGATE										
ROCK TYPE										

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_

SIEVE ANALYSIS	
SAMPLE NUMBER	
91.4% PASSING # 200 SIEVE	

ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	NG 504 % LOSS	D5pC	COLOUR	% WATER ABSORB.	% ASPH. ADSORB.	F.M.
	A-4 M.L. SANDY SILT	27.9	22.8	5.1							



#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

#### LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2670

HOLE No. \_\_\_\_\_ DEPTH 6' to 8'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 106 LAB SAMPLE NO. 2940

D. P. W. WHITEHORSE - SOILS D. W.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

##### FINE AGGREGATE

ROCK TYPE	%

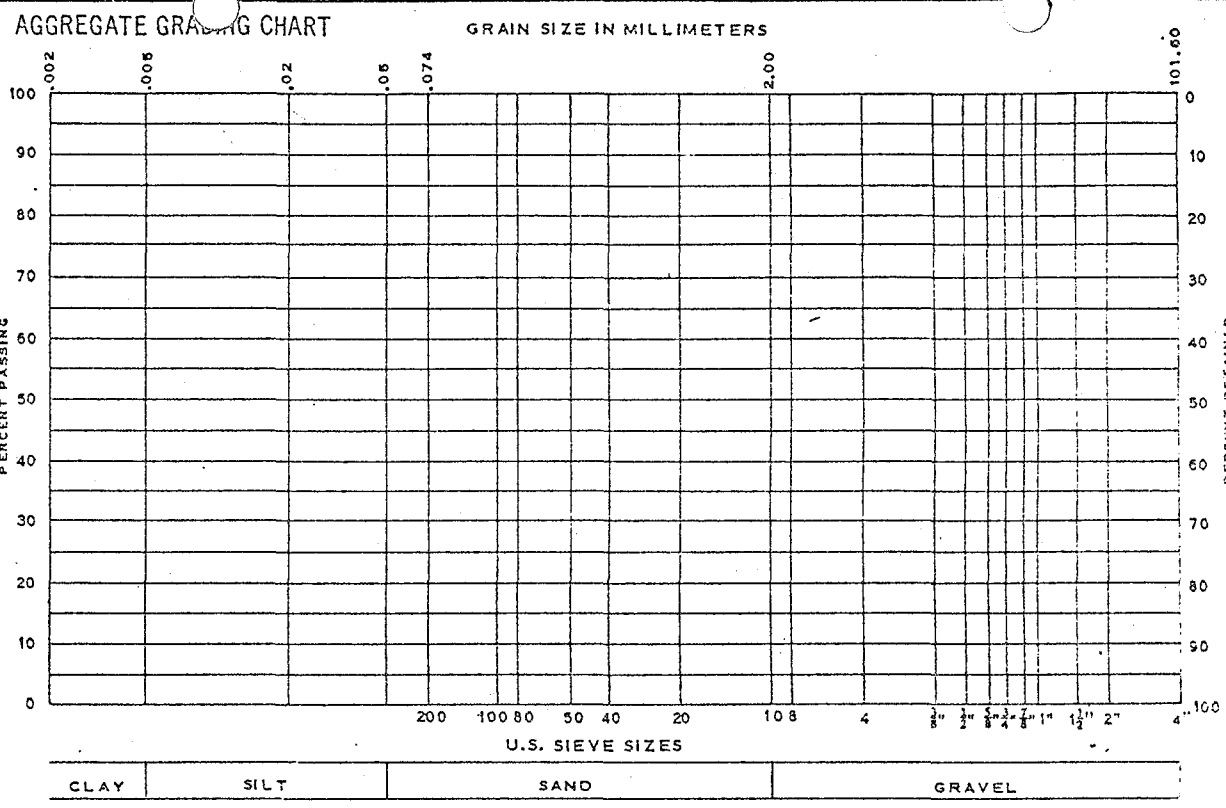
#### MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

AGGREGATE DEPOSIT REPORT (Cont'd)

FINER BY SIGHT		SIEVE ANALYSIS SAMPLE NUMBER							
86.5% PASSING # 200 SIEVE									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSHC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			32.6	29.0		3.6						
		A-4										
		M.L.										
		SANDY SILT										



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DENPSTER HIGHWAY

LOCATION STA. 2665

HOLE No. \_\_\_\_\_ DEPTH 2' to 8'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED \_\_\_\_\_

FIELD SAMPLE No. 107 LAB SAMPLE No. 2941

D. P. W. WHITEHORSE - SOILS LAB J.W.

26-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE

ROCK TYPE	%

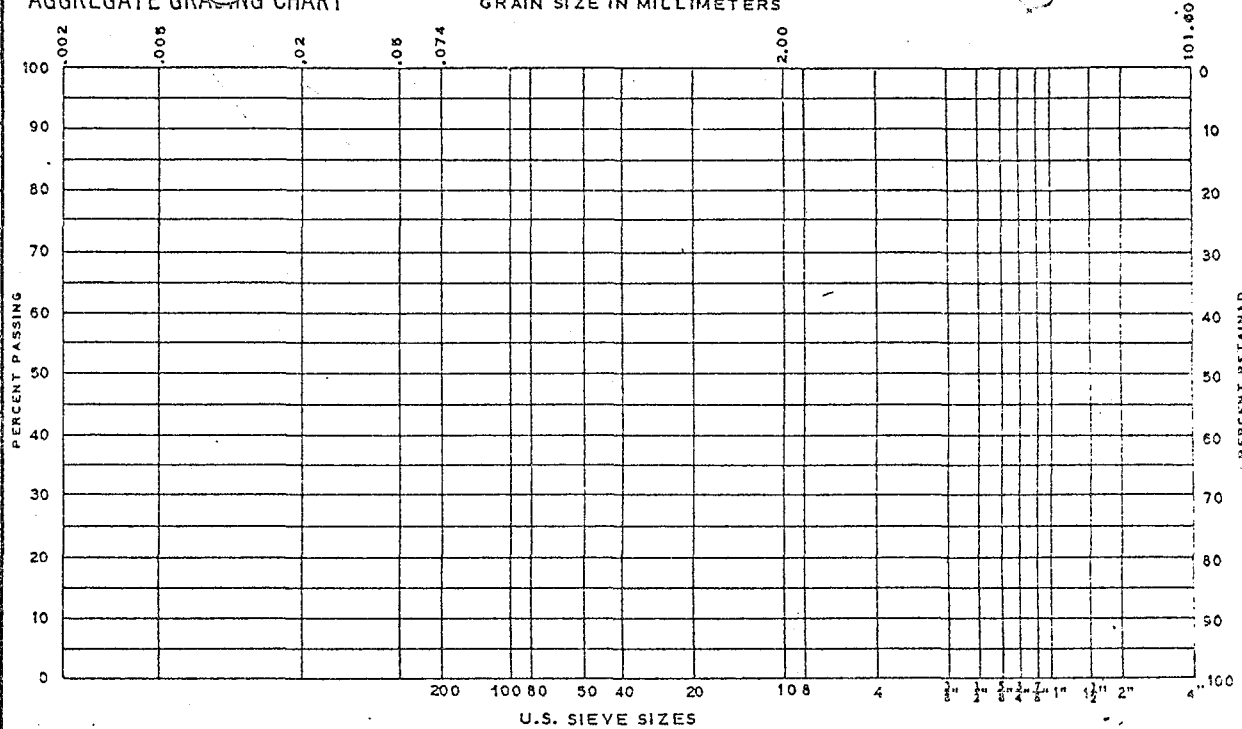
MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY EIGHT		SIEVE ANALYSIS SAMPLE NUMBER										
95.9% PASSING #200 SIEVE												
+ 4"												
MPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSIG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 M.L.	40.0	34.5	5.5							
CLAYEY SILT - VERY FINE SAND MIXTURE												

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT DEMPS TER HIGHWAY  
 LOCATION STA. 2660  
 HOLE No. \_\_\_\_\_ DEPTH ?  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 108 LAB SAMPLE No. 2942  
 D. P. W. WHITEHORSE - SOILS LAB S. W.  
26-3-71

TESTING ENGINEER

DATE

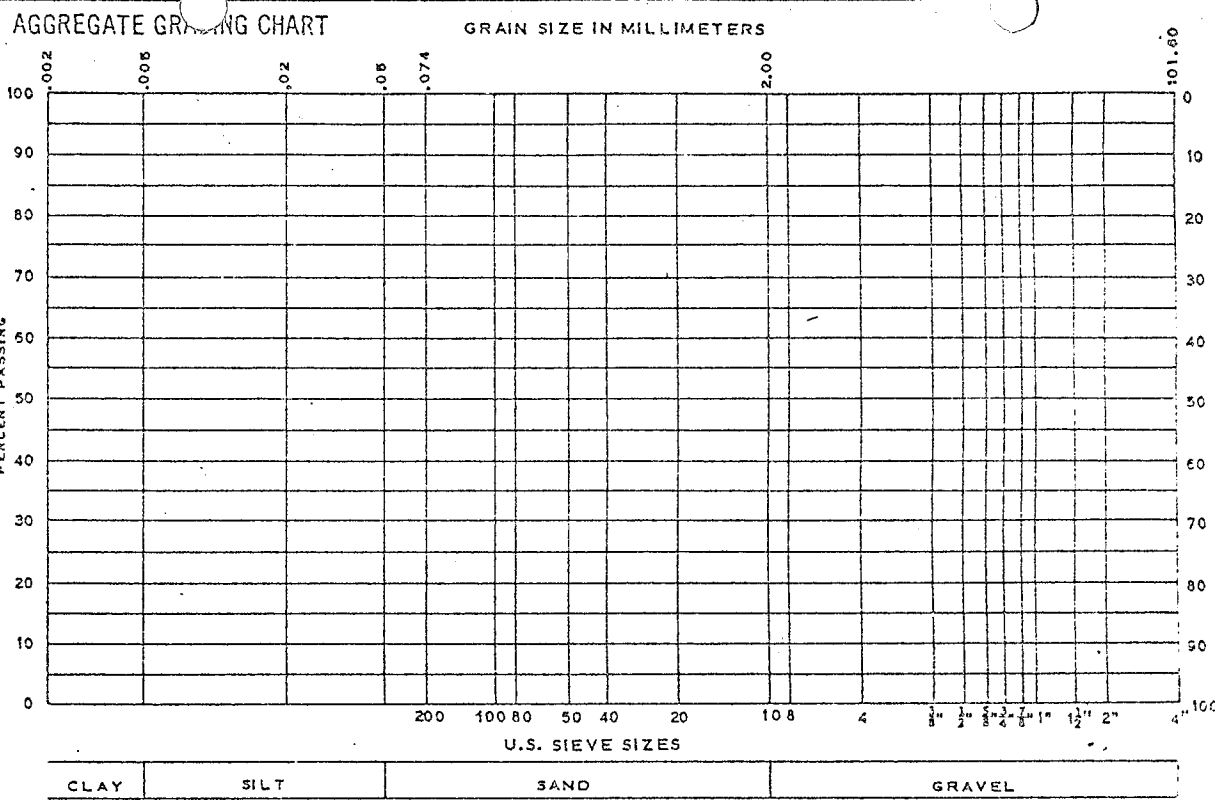
MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE



FINER BY EIGHT		SIEVE ANALYSIS SAMPLE NUMBER																																																												
90.0% PASSING #200 SIEVE																																																														
<table border="1"> <thead> <tr> <th>MPLE NO.</th> <th>ELEV. OR DEPTH</th> <th>CLASSIFICATION</th> <th>L.L.</th> <th>P.L.</th> <th>P.I.</th> <th>L.A. % LOSS</th> <th>M.G. SO<sub>4</sub> % LOSS</th> <th>BSPC</th> <th>COLOUR</th> <th>% WATER ABSORB.</th> <th>% ASPH. ABSORB.</th> <th>F.M.</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>A-4</td> <td>34.5</td> <td>25.3</td> <td>9.2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>M.L.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="12">CLAYEY SILT OF MED. PLASTICITY</td> </tr> </tbody> </table>												MPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.G. SO <sub>4</sub> % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.			A-4	34.5	25.3	9.2										M.L.											CLAYEY SILT OF MED. PLASTICITY											
MPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.G. SO <sub>4</sub> % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.																																																		
		A-4	34.5	25.3	9.2																																																									
		M.L.																																																												
CLAYEY SILT OF MED. PLASTICITY																																																														



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2655

HOLE No. \_\_\_\_\_ DEPTH 3' TO 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 110 LAB SAMPLE No. 2944

D. P. W. WHITEHORSE - SOILS LAB J.M.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSA; Y.T.

PROJECT DUMPSTER HI-WAY TEST HOLE NO. 93 - 94 - 95 - 96  
 LOGGED BY ED. MELANSON DATE JUNE 69 STATION 2645  
 ENTERED BY G. KUBISKI DATE JULY 69 2640 2635  
 CHECKED BY G. KUBISKI DATE JULY 69 HOLE ADVANCED BY 1" AUGER MOBILE

SAMPLE NO.	% PASSING LIMITS			L.L.	P.L.	P.I.	Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10								
111									2		ROAD BED FILL T.H. 93 91 FROZEN SANDY SILTY CLAY. SOME PEBBLES.
112									3		ROAD BED FILL T.H. 94 92 FROZEN SILTY SANDY CLAY, BROWN SOME COBBLES REFUSAL
113									3		ROAD BED FILL T.H. 95 93 FINE SANDY GRAVEL REFUSAL AT 7' - ON COBBLES 3 ATTEMPS.
114									4		ROAD BED FILL T.H. 96 94 DAMP SANDY CLAY SMALL STONES UP TO 2" SOME COBBLES UP TO 7"

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT

SIEVE ANALYSIS  
SAMPLE NUMBER

95.2% PASSING # 200 SIEVE

% + 4"

SAMPLE NO.

ELEV. OR DEPTH

CLASSIFICATION L.L. P.L. P.I.

37.1 30.6 6.5

A-4  
M.L.

CLAYEY SILT - VERY FINE SAND MIXTURE

L.A. % LOSS  
Mg SO<sub>4</sub> % LOSS  
DSPC  
COLOUR  
% WATER ABSORB.  
% ASPH. ASSORB.  
T.M.

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

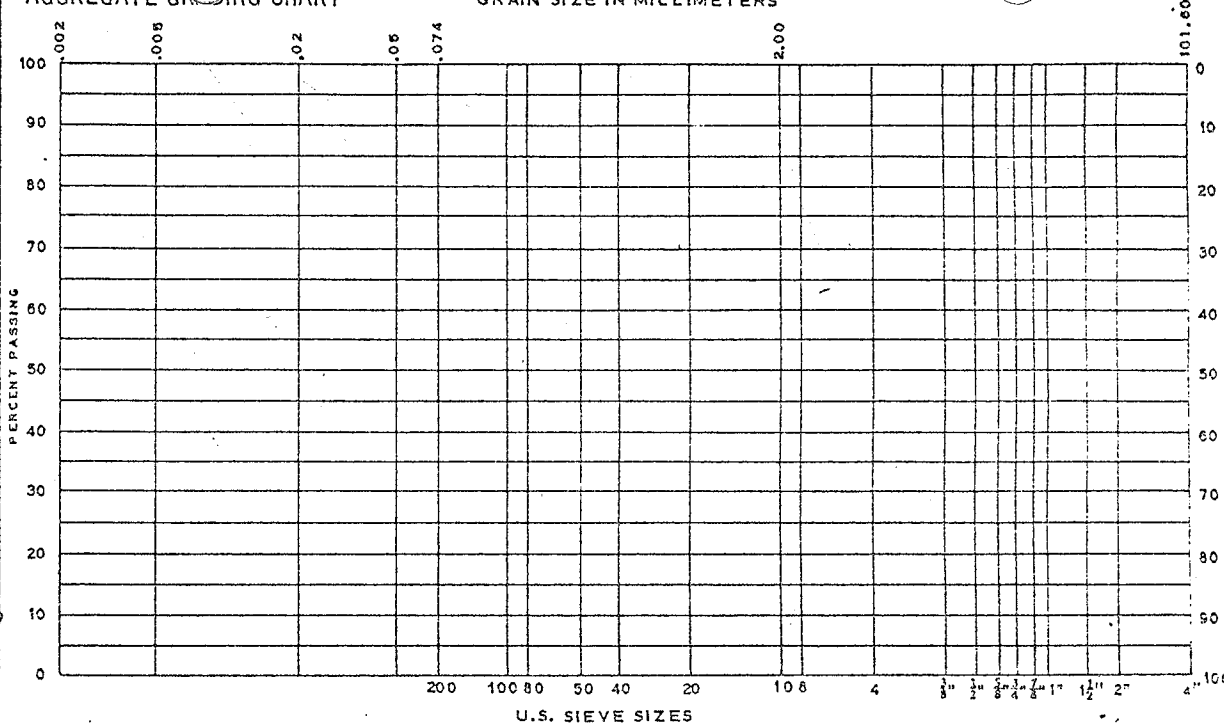
FINE AGGREGATE

ROCK TYPE

%

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY            SILT            SAND            GRAVEL

LABORATORY'S

REMARKS

PROJECT: DEMPSTER HIGHWAY

LOCATION STA.: ~~NOT GIVEN~~ 2650

HOLE No. \_\_\_\_\_ DEPTH: ~~NOT GIVEN~~

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED \_\_\_\_\_

FIELD SAMPLE No. 111 LAB SAMPLE No. 2945

D. P. W. WHITEHORSE - SOILS LAB

J.W.

26-3-71

TESTING ENGINEER

DATE

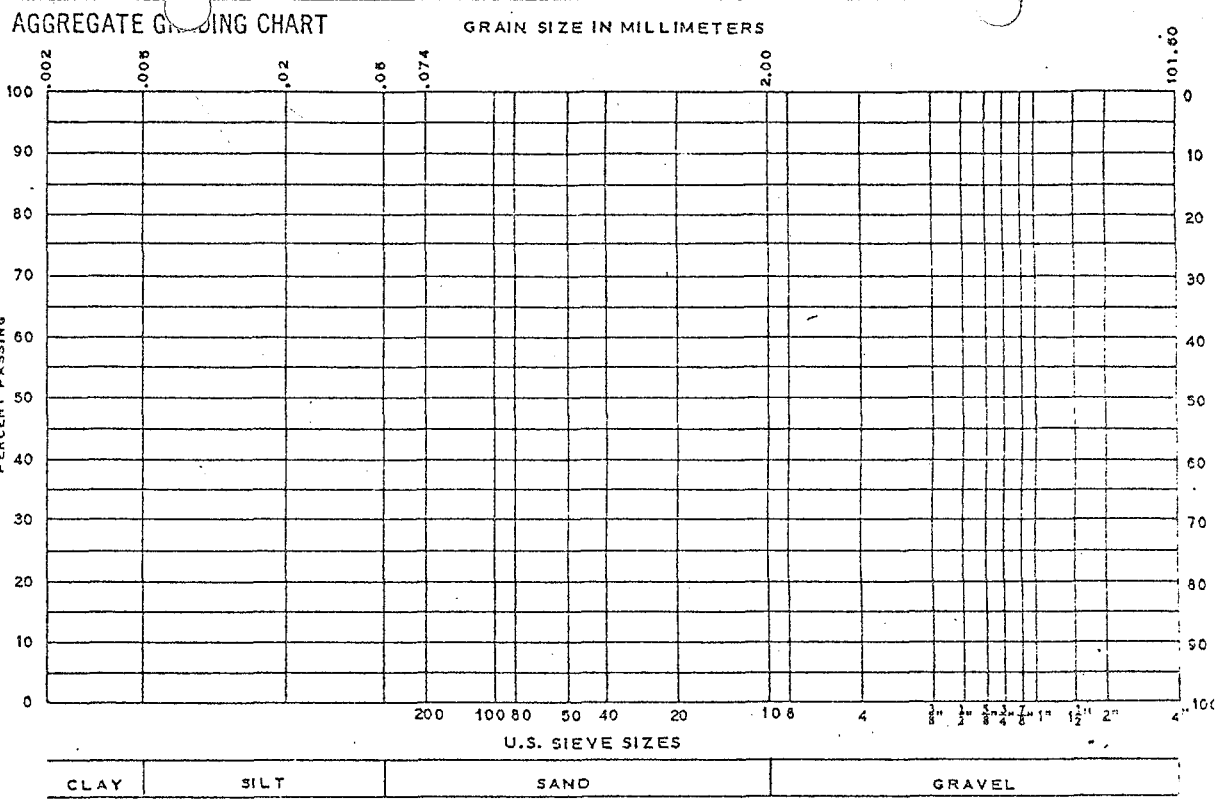
MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

% FINER BY WEIGHT		SIEVE ANALYSIS SAMPLE NUMBER									
84.4% <sup>of</sup> PASSING #200 SIEVE											

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	D <sub>SPC</sub>	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.8		21.1	4.7						



TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. NOT GIVEN 2695  
 HOLE No.                                  DEPTH NOT GIVEN  
 SAMPLE TYPE                                  DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. # 112 LAB SAMPLE No. 2946  
 D. P. W. WHITEHORSE - SOILS LAB J.W.  
26-3-71

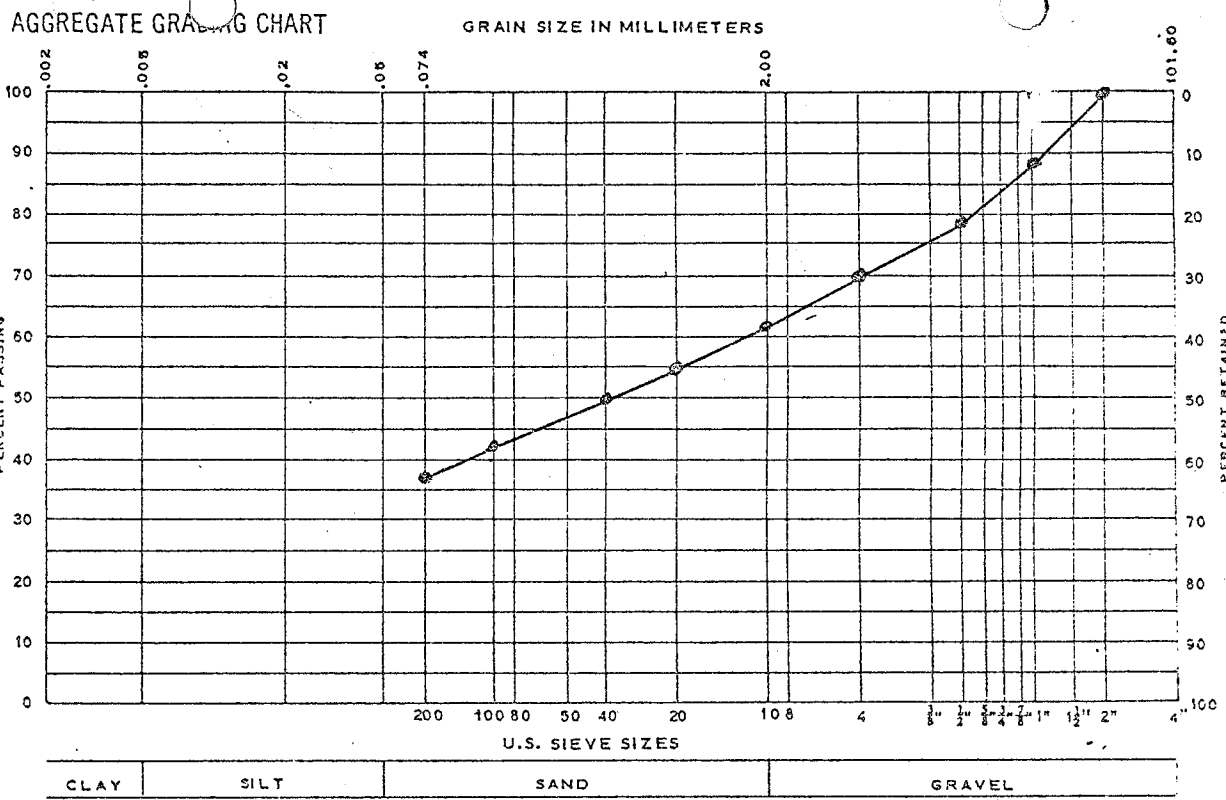
TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ DATE \_\_\_\_\_

FINER BY SIGHT	SIEVE ANALYSIS	
	%	#
2"	100	# 4 70.2
1/2"	89.6	# 10 62.0
1"	87.8	# 20 55.0
1/4"	84.4	# 40 50.3
3/8"	79.3	# 100 42.3
1/2"	76.0	# 200 36.9



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BS&C	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7	17.0		4.7						
		A-4										
		S.M. - S.C.										
		SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2640

HOLE No.                      DEPTH 3' to 7'

SAMPLE TYPE                      DATE SAMPLED JUNE 69

FIELD SAMPLE No. 113 LAB SAMPLE No. 2947

D. P. W. WHITEHORSE - SOILS LAB J. W.

30-3-71

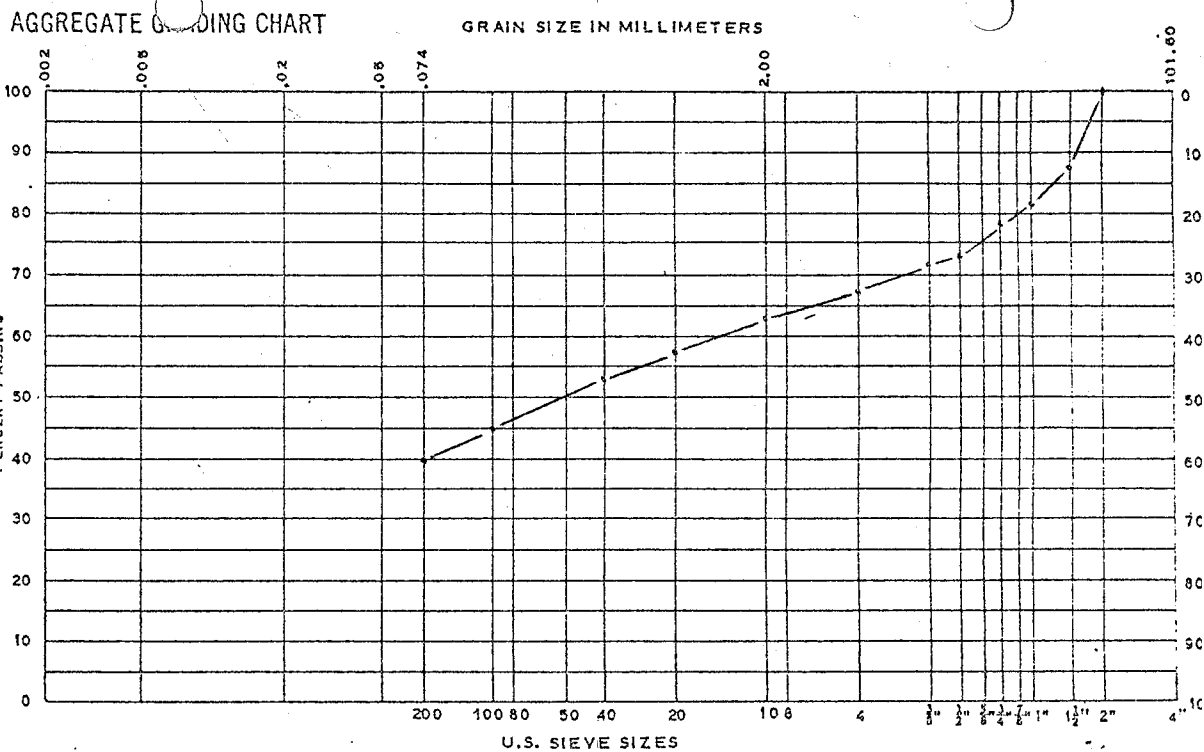
TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

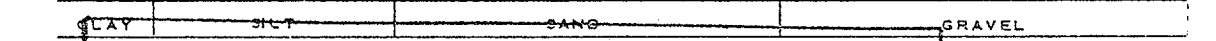
MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SAMPLE NUMBER	
100.0	2"	62.9 #10
81.7	1 1/2"	57.2 20
50.7	1"	52.9 40
29.3	3/4"	45.2 100
15.0	1/2"	39.9 200
7.0	3/8"	
6.7	#4	



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A.	% LOSS	MG 504 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	21.7	17.0	4.7								
		S.M.-S.C.											
		SILTY SAND											



TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

PROJECT \_\_\_\_\_  
 LABORATORY'S REMARKS \_\_\_\_\_  
 LOCATION DEMINSTER HWY STA. 2635  
 HOLE No. \_\_\_\_\_ DEPTH 4'-13'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 114 LAB SAMPLE No. 2948  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER [Signature] DATE 25-3-71

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS \_\_\_\_\_

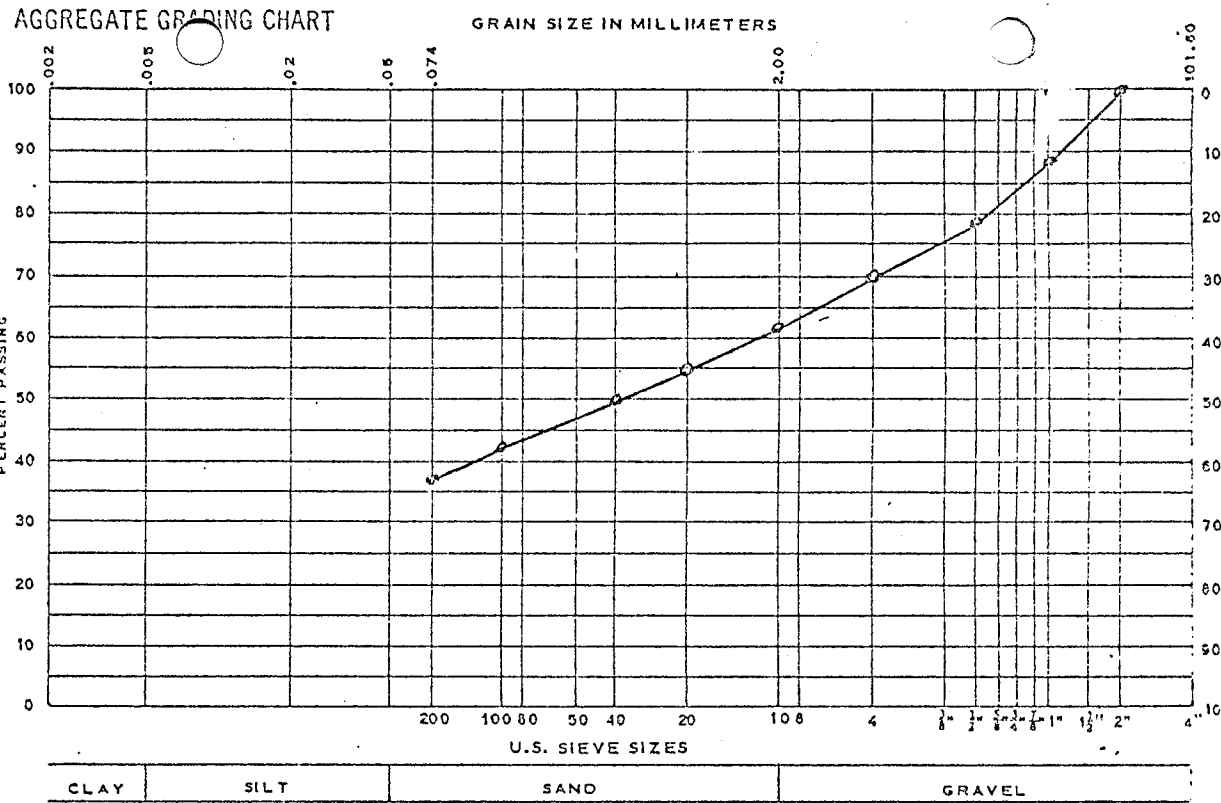
MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSA, Y.T.

PROJECT DEVELOPER TEST HOLE NO. 97-02-08-100  
 LOGGED BY C. KUBICKI DATE JULY 1974 STATION 2635 2625  
 ENTERED BY C. KUBICKI DATE JULY 1974 2635 2625  
 CHECKED BY C. KUBICKI DATE JULY HOLE ADVANCED BY JULY 1974

SAMPLE NO.	% PASSING				LIMITS			Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L	P.L	P.I					
										3		ROAD FILL T.H. 95
115										6		SANDY GRAVEL COBBLES 7" COBBLES
										10		
										3		ROAD FILL T.H. 96
116										6		SANDY SILTY GRAVEL
117										10		SANDY CLAY GRAVEL FINE TO MEDIUM GRAVEL WET.
										3		ROAD BED T.H. 97
118										6		FINE TO COARSE GRAVEL COBBLES UP TO 7" DRY
										10		
										3		ROAD FILL T.H. 98
119										6		FINE REDISH BROWN SANDY GRAVEL COBBLES 6"
										10		

FINER BY SIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
2"	100	# 4 70.2
1/2"	89.6	# 10 62.0
1"	87.8	# 20 55.0
3/4"	84.4	# 40 50.3
3/8"	79.3	# 100 42.3
3/16"	76.0	# 200 36.9



DEPTH	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7		17.0	4.7						
		A-4										
		S.M. - S.C.										
		SILTY SAND										

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 2630  
 HOLE No. \_\_\_\_\_ DEPTH 3' to 6'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 115 LAB SAMPLE No. 2949  
 D. P. W. WHITEHORSE - SOILS LAB J. M.

TESTING ENGINEER \_\_\_\_\_ DATE 30-3-71

MATERIALS ENGINEER'S REMARKS

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

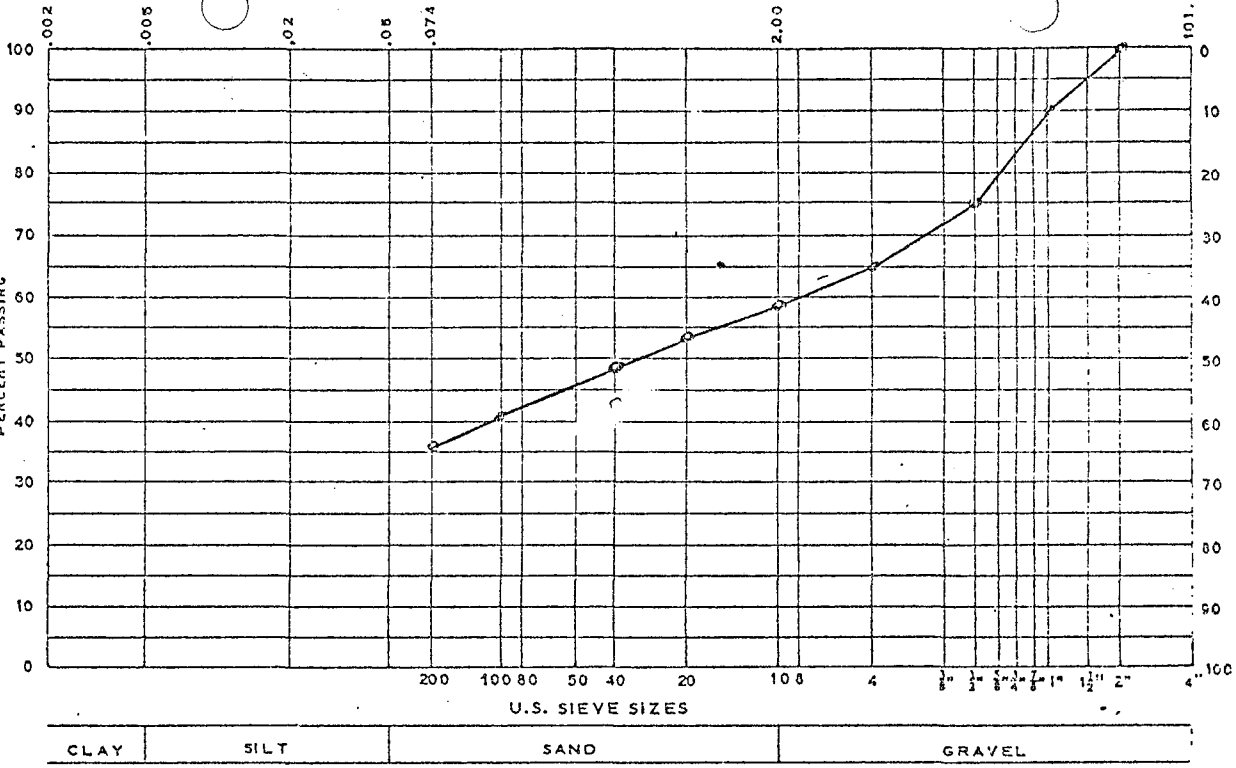
SIEVE ANALYSIS	SAMPLE NUMBER	
	%	#
100	# 4	65.6
97.1	# 10	59.4
87.3	# 20	53.8
81.9	# 40	49.3
75.2	# 100	41.5
72.6	# 200	36.2

ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MC 504 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
	A-4	21.7	17.0	4.7							
	S.M.-S.C.										
	SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE	
ROCK TYPE	%

### AGGREGATE GRADING CHART



### LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 2625  
 HOLE NO. \_\_\_\_\_ DEPTH 3' to 8'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 116 LAB SAMPLE No. 2950  
D. P. W. WHITEHORSE - SOILS LAB  
J. W.  
30-3-71

TESTING ENGINEER

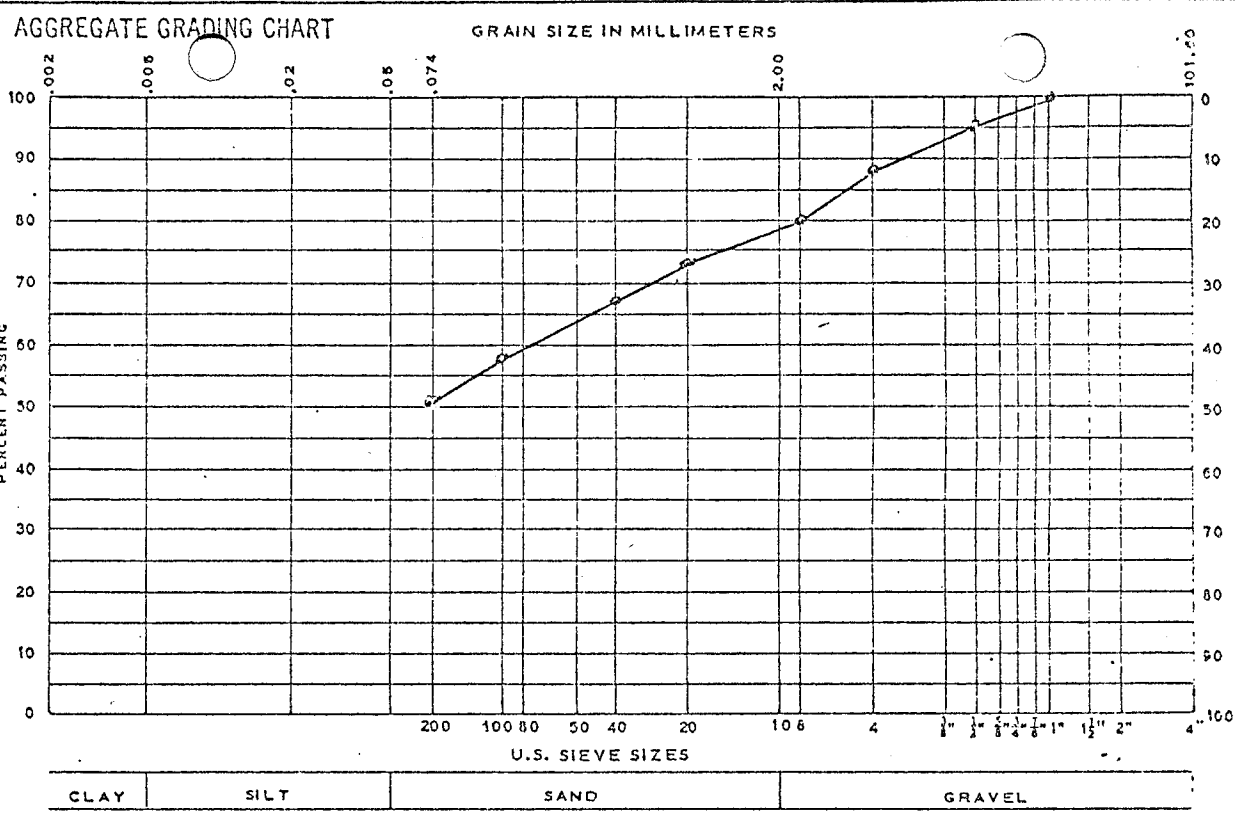
DATE

### MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

INER LY GHT	SIEVE ANALYSIS		SAMPLE NUMBER
	$\%$	$\%$	
1"	100	# 4	97.8
2"	97.9	# 10	80.8
3"	95.7	# 20	73.2
5"	94.2	# 40	67.7
		# 100	58.1
		# 200	51.3



CLASSIFICATION	L.L.	P.L.	P.I.	L.A.	% LOSS	MG SOL.	% LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.	ELEV. OR DEPTH
													22.9
A-4													
M.L.													
SILT - SAND MIXTURE WITH SLIGHT PLASTICITY													

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2625

HOLE No. \_\_\_\_\_ DEPTH 8' to 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 117 LAB SAMPLE No. 2951

D. P. W. WHITEHORSE - SOILS LAB J.M.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

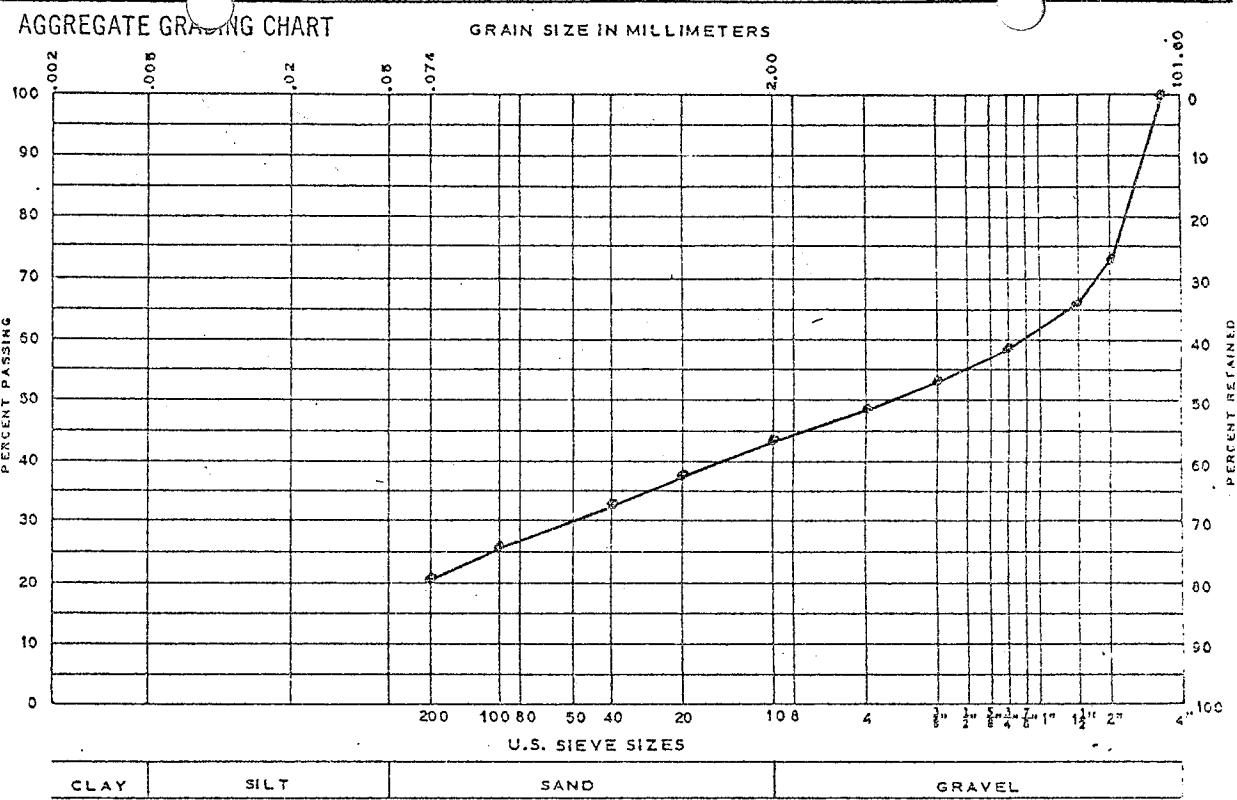
FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY EIGHT	SIEVE ANALYSIS	
	PERCENT	SAMPLE NUMBER
3"	100	# 4 49.4
2"	73.4	# 10 43.9
1 1/2"	66.2	# 20 38.3
1"	63.6	# 40 33.5
3/4"	59.3	# 100 26.1
1/2"	56.1	# 200 21.3
3/8"	53.9	



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	USPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b	21.8	18.4	3.4							
		G.W.										
		FAIR TO WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

DEMPSTER HIGHWAY  
 STA. 2620  
 DEPTH 2' to 10'  
 DATE SAMPLED JUNE 69  
 D. P. W. WHITEHORSE - SOILS LAB  
 J.W.  
 30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

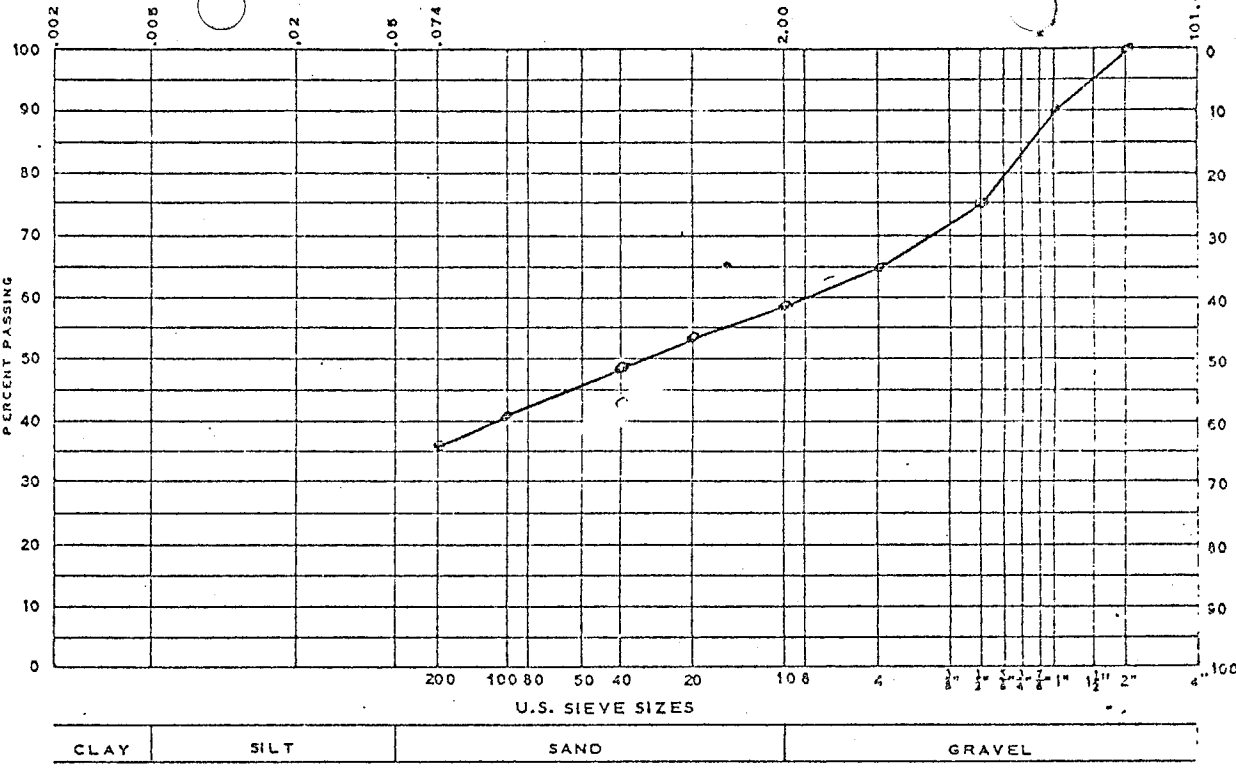
\_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

SIEVE	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
"	100	# 4 65.6
"	97.1	# 10 59.4
"	89.8	# 20 53.8
"	81.9	# 40 49.3
"	75.2	# 100 41.5
"	72.6	# 200 36.2

ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MAG SO4 % LOSS	D50	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
	A-4	21.7	170	4.7							
	S.M.-S.C.										
	SILTY SAND										

### AGGREGATE GRADING CHART



CLAY      SILT      SAND      GRAVEL

### TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

### FINE AGGREGATE

ROCK TYPE	%

### LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 2615  
 HOLE No. \_\_\_\_\_ DEPTH 2' to 6'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 119 LAB SAMPLE No. 2953  
 D. P. W. WHITEHORSE - SOILS LAB J. ml.

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

### MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

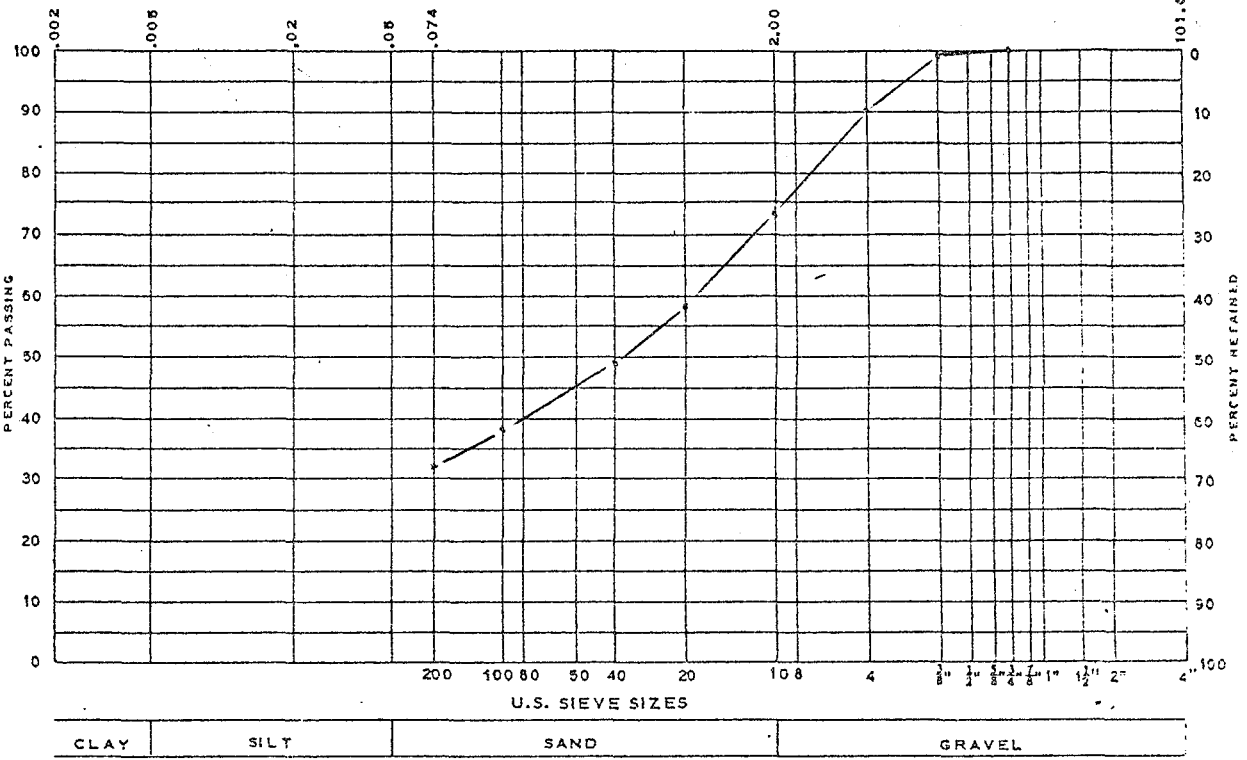
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSA; Y.T.

PROJECT: DEMOLITION HIGHWAY TEST HOLE NO. 101-102-103-104  
 LOGGED BY ED. MCELREATH DATE JULY 19 STATION 2110 2118  
 ENTERED BY G. KRZYSKI DATE JULY 19  
 CHECKED BY A. KOTICKI DATE JULY 19 HOLE ADVANCED BY W. G. COOPER

SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.L.					
120										5		ROAD FILL T.H. 101 97
										10		SILTY SAND SOME PEBBLES. DRY
121										4		ROAD FILL T.H. 102 100
										10		SILT, SAND WITH STONES UP TO 1" DRY
122										3		ROAD FILL T.H. 103 108
										10		SAND SILT GRAVEL COBBLES DRY
123										4		ROAD FILL T.H. 104 102
										10		SAND SILT CLAY COBBLES

BIN BY SIGHT	SIEVE ANALYSIS	
	SAMPLE NUMBER	
3/4"	73.7	74.0
1/2"	58.6	20
3/8"	49.3	40
#4	39.7	100
	31.9	200

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SOL. % LOSS	D.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
A-2-4												
S.M.-S.C.												
SILTY SAND												

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEWYSTER HILLWAY

LOCATION: STA. 2610

HOLE No. \_\_\_\_\_ DEPTH: 2'-10"

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 67

FIELD SAMPLE No. 120 LAB SAMPLE No. 2954

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

FINE AGGREGATE

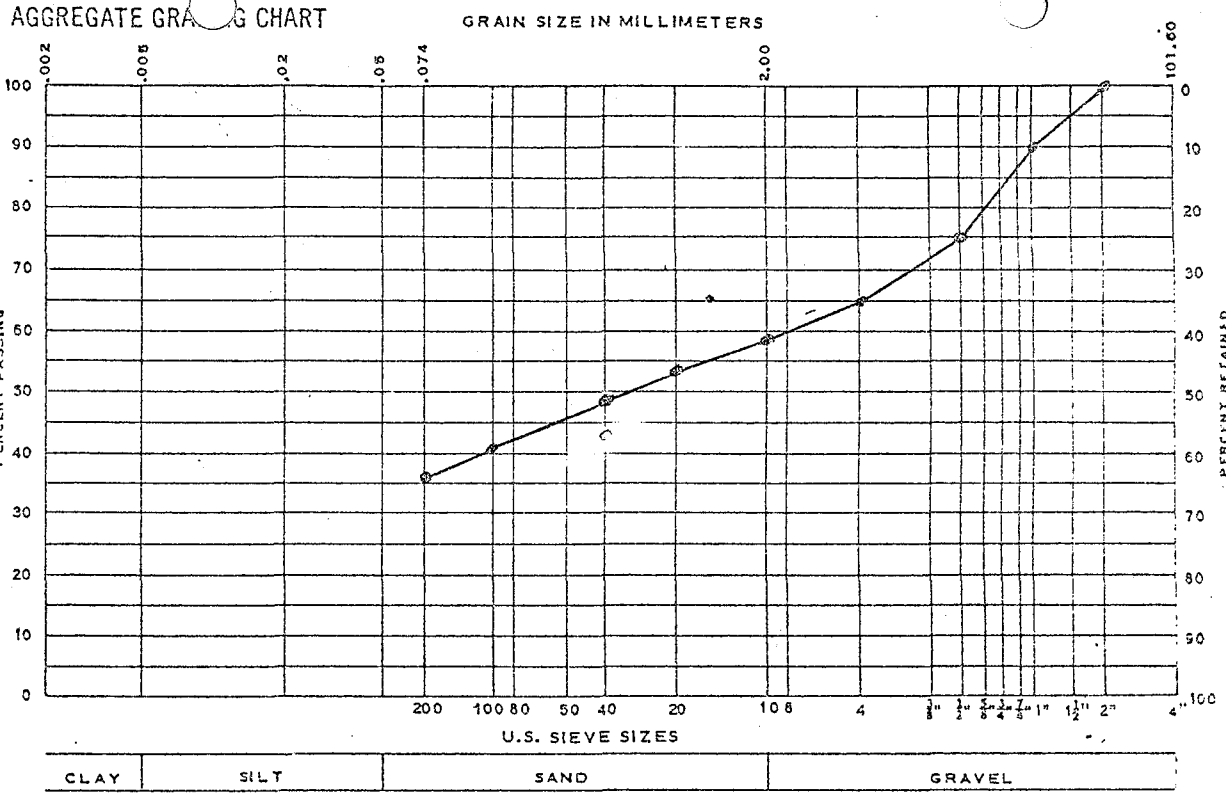
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

FINER BY SIEVE	SIEVE ANALYSIS	
	PERCENT	SAMPLE NUMBER
2"	100	# 4 65.6
1/2"	97.1	# 10 59.4
1"	89.8	# 20 53.8
3/4"	81.9	# 40 49.3
1/2"	75.2	# 100 41.5
1/8"	72.6	# 200 36.2



DEPTH	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.C.S.O. % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	21.7	17.0	4.7							
		S.M.-S.C.										
		SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2605

HOLE NO. \_\_\_\_\_ DEPTH 4' to 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 121 LAB SAMPLE No. 2955

D. P. W. WHITENORSE - SOILS LAB J. W.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE

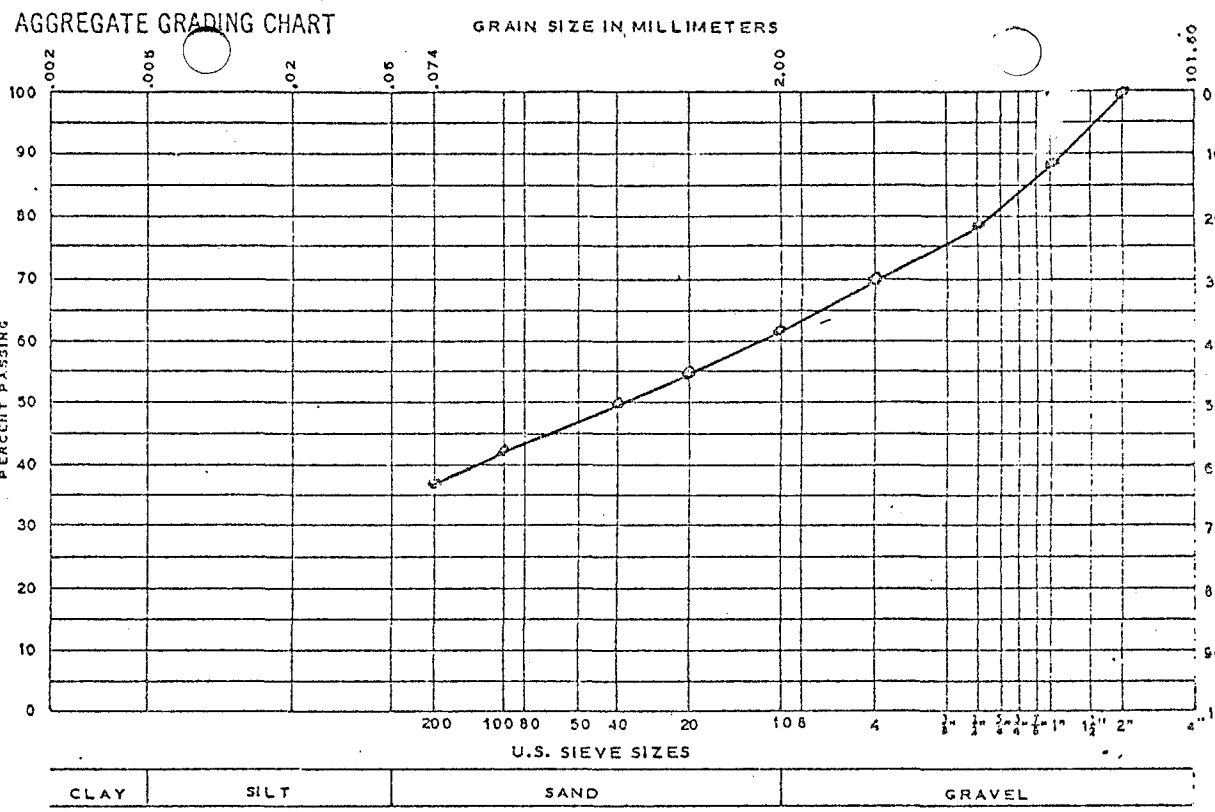
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY SIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
2"	100	# 4 70.2
1 1/2"	89.6	# 10 62.0
1"	87.8	# 20 55.0
3/4"	84.4	# 40 50.3
1/2"	79.3	# 100 42.3
3/8"	76.0	# 200 36.9



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	USPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7	17.0	4.7							
		17-4										
		S.M. - S.C.										
		SILTY SAND										

#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

#### LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA.

HOLE No. \_\_\_\_\_ DEPTH \_\_\_\_\_

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. \_\_\_\_\_

D. P. W. WHITEHORSE - SOILS LAB J. M.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

##### FINE AGGREGATE

ROCK TYPE	%

#### MATERIALS ENGINEER'S REMARKS

2956	STA. 2600	# 122	3' to 10'
2957	STA. 2595	# 123	4' to 10'
2958	STA. 2590	# 124	3' to 10'

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

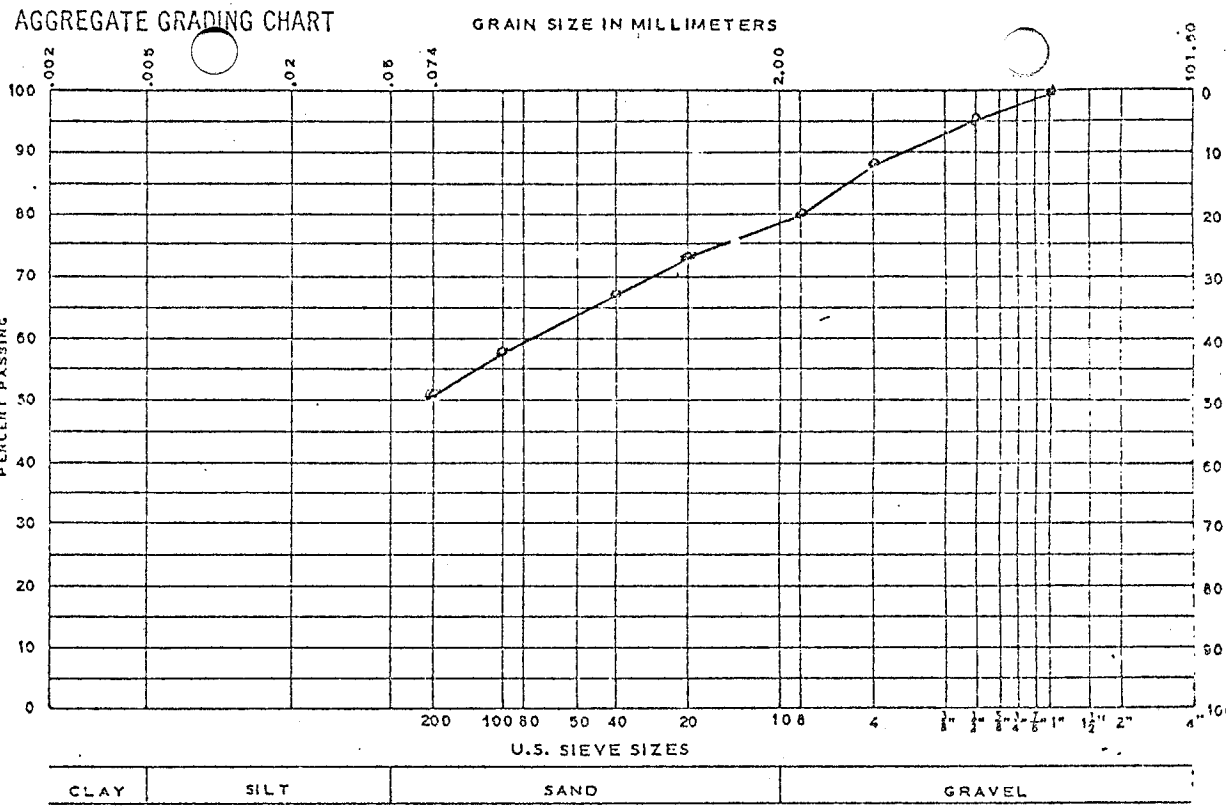
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSA, Y.T.

PROJECT DEPARTMENT ARMY TEST HOLE NO. 105-103 107-108  
 LOGGED BY ED. NICKELSKI DATE July 19 STATION 2590 1525  
 ENTERED BY G. KUBISKI DATE July 19 2590 1525  
 CHECKED BY G. KUBISKI DATE July 19 HOLE ADVANCED BY 4' 20000

SAMPLE NO.	% PASSING LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10					
124						0-10		ROAD FILL T.H. 103 103 SAND SILT COBBLES.
125						0-10		ROAD FILL T.H. 104 104 SILT SAND COBBLES.
126						0-10		ROAD FILL T.H. 105 105 SAND GRAVEL LARGE COBBLES DRY.
127						0-10		ROAD FILL T.H. 106 106 SAND CLAY COBBLES DRY

SIEVE ANALYSIS SAMPLE NUMBER	SIEVE ANALYSIS	
	%	%
100	# 4	37.8
97.9	# 10	50.8
95.7	# 20	73.2
94.2	# 40	67.7
	# 100	58.1
	# 200	51.3

ELEV. OF DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SOL. % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
	A-4	22.9	18.9	4.0							
	M.L.										
	SILT-SAND MIXTURE WITH SLIGHT PLASTICITY										



#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

#### LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 2585  
 HOLE NO. \_\_\_\_\_ DEPTH 3' + 0 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 125 LAB SAMPLE No. 2959  
 D. P. W. WHITEHORSE - SOILS LAB J. M.  
 30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

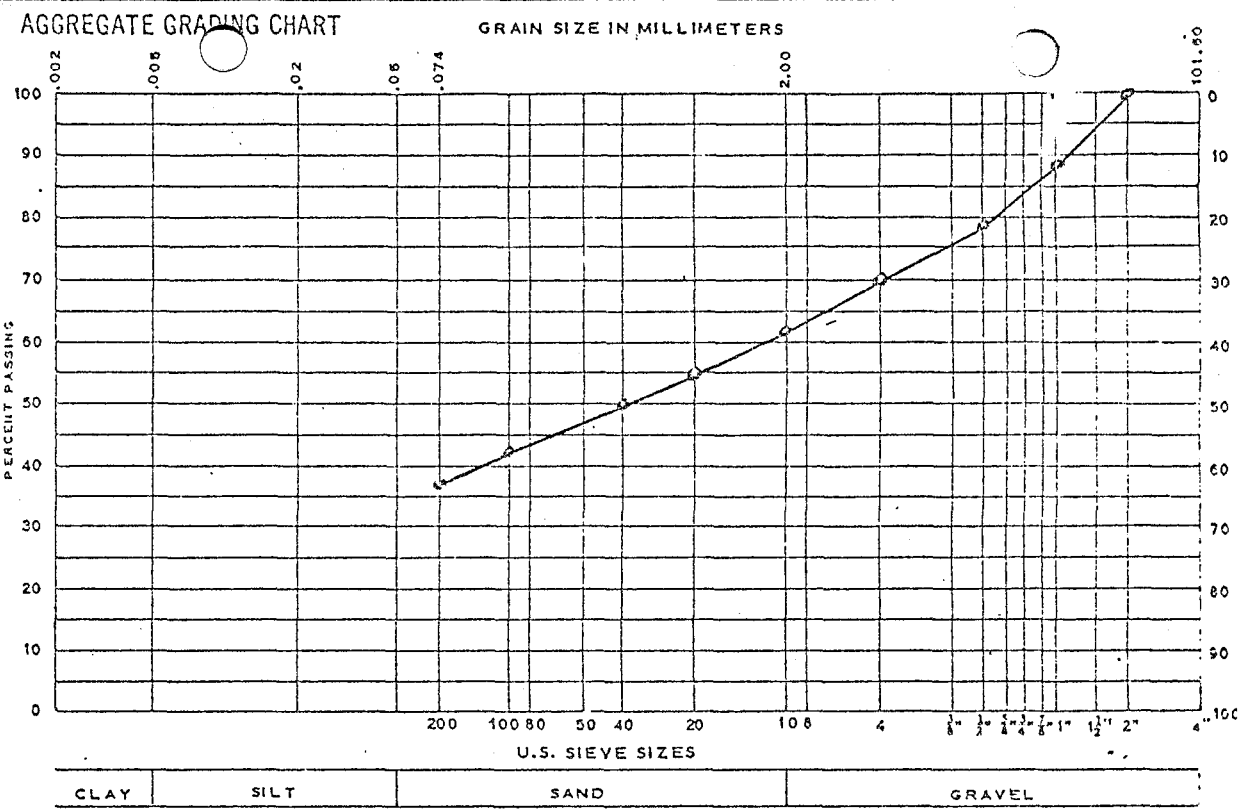
##### FINE AGGREGATE

ROCK TYPE	%

#### MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

SIEVE ANALYSIS		SAMPLE NUMBER	
INER BY GHT	%	#	%
1"	100	# 4	70.2
2"	89.6	# 10	62.0
3"	87.8	# 20	55.0
4"	84.4	# 40	50.3
5"	79.3	# 100	42.3
6"	76.0	# 200	36.9



CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
A-4	21.7	17.0	4.7							
S.M. - S.C.										
SILTY SAND										

#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

#### LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA.

HOLE No. \_\_\_\_\_ DEPTH \_\_\_\_\_

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. \_\_\_\_\_

D. P. W. WHITEHORSE - SOILS LAB *J. M.*

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

##### FINE AGGREGATE

ROCK TYPE	%

#### MATERIALS ENGINEER'S REMARKS

2960	STA	2580	# 126	5' to 10'
2961		2575	127	4' 10'
2962		2570	128	3' 10'
2963		2565	129	0' 10'
2964		2560	130	1' 15'
2965		2555	131	1' 4'
2966		2555	132	4' 15'

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMOLISHED HIGHWAY TEST HOLE NO. 109-110 111-112  
 LOGGED BY LD MELBY DATE JULY 1954 STATION 2570 - 2580  
 ENTERED BY C. KUBSKI DATE JULY 1954  
 CHECKED BY C. KUBSKI DATE JULY 1954 HOLE ADVANCED BY 4 INCH WATER METER DRILL

SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.L.					
128										2		ROAD FILL T.H. 109 2570 109 SAND, GRAVEL COBBLES
129										10		SAND, SILTY GRAVEL WITH COBBLES DRY T.H. 110 108
130										10 15		OVERBURDEN T.H. 111 101 CLAY SILT SAND COBBLES DRY
131										4		OVERBURDEN T.H. 112 110 SILT SAND CLAY GRAVEL
132										10 15		HARD PACK SILT SAND SMALL PEBBLES. DRY.

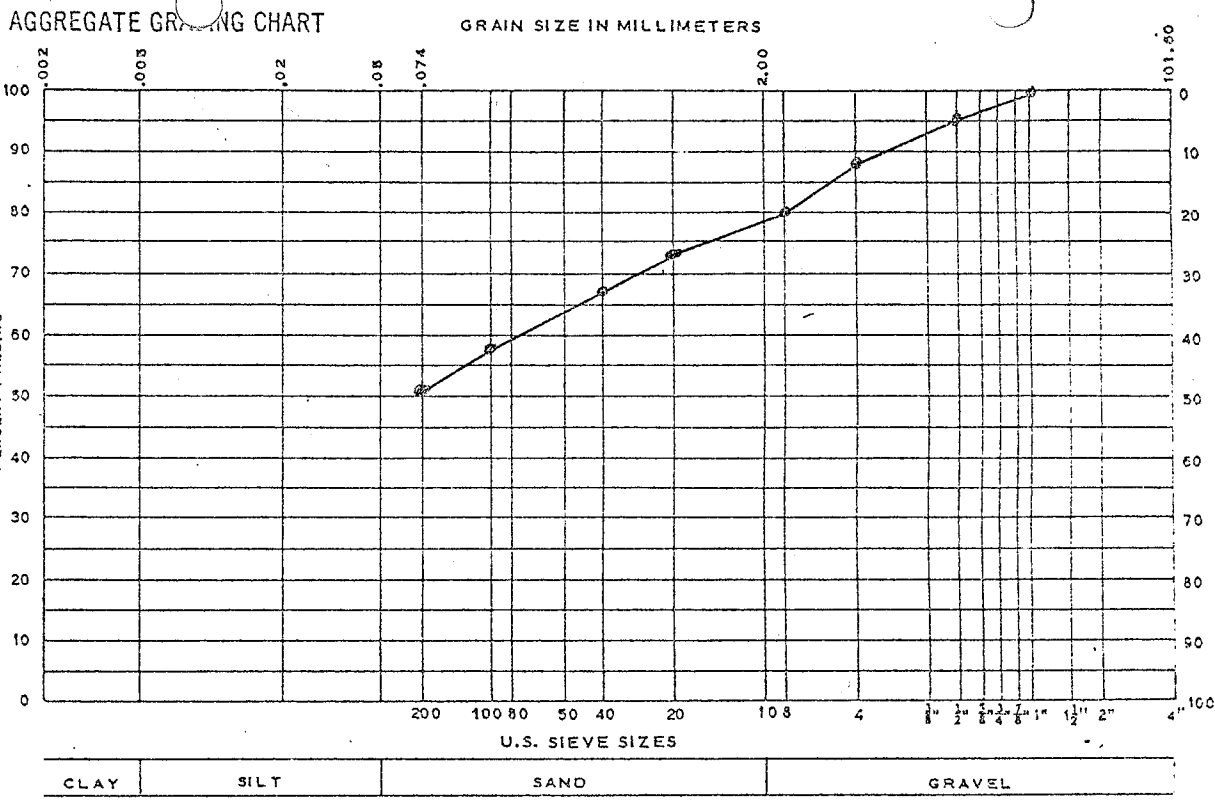
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSA, Y.T.

PROJECT DENVER HIGHWAY TEST HOLE NO. 113 114 115 116  
 LOGGED BY EA MELANSKI DATE JUNE 29 STATION 2531 2545  
 ENTERED BY G. KUBISKI DATE JULY 69 2540 2535  
 CHECKED BY G. KUBISKI DATE JULY 69 HOLE ADVANCED BY 4" AUGER MOBILE

SAMPLE NO.	PASSING			LIMITS			Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.					
											OVER BURDER T.H. 113 111
133									10		SILT, SAND SMALL STONES SOME COBBLES. DRY
											OVER BURDER T.H. 114 112
134									10		SANDY GRAVEL COBBLES
											ROAD BED T.H. 115 113
135									10		SAND, CLAY COBBLES SOME SMALL STONES
											ROAD BED T.H. 116 114
136									10		SAND CLAY GRAVEL COBBLES

AGGREGATE DEPOSIT REPORT (Cont'd)

FINER BY EIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
1"	100	# 4 87.8
3/4"	97.9	# 10 80.8
1/2"	95.7	# 20 73.2
3/8"	94.2	# 40 67.7
		# 100 58.1
		# 200 51.3



MPL. NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	22.9	18.9	4.0							
		M.L.										
		SILT-SAND MIXTURE WITH SLIGHT PLASTICITY										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2550

HOLE NO. \_\_\_\_\_ DEPTH 1' + 0 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 133 LAB SAMPLE No. 2967

D. P. W. WHITEHORSE - SOILS LAB J.M.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ DATE \_\_\_\_\_

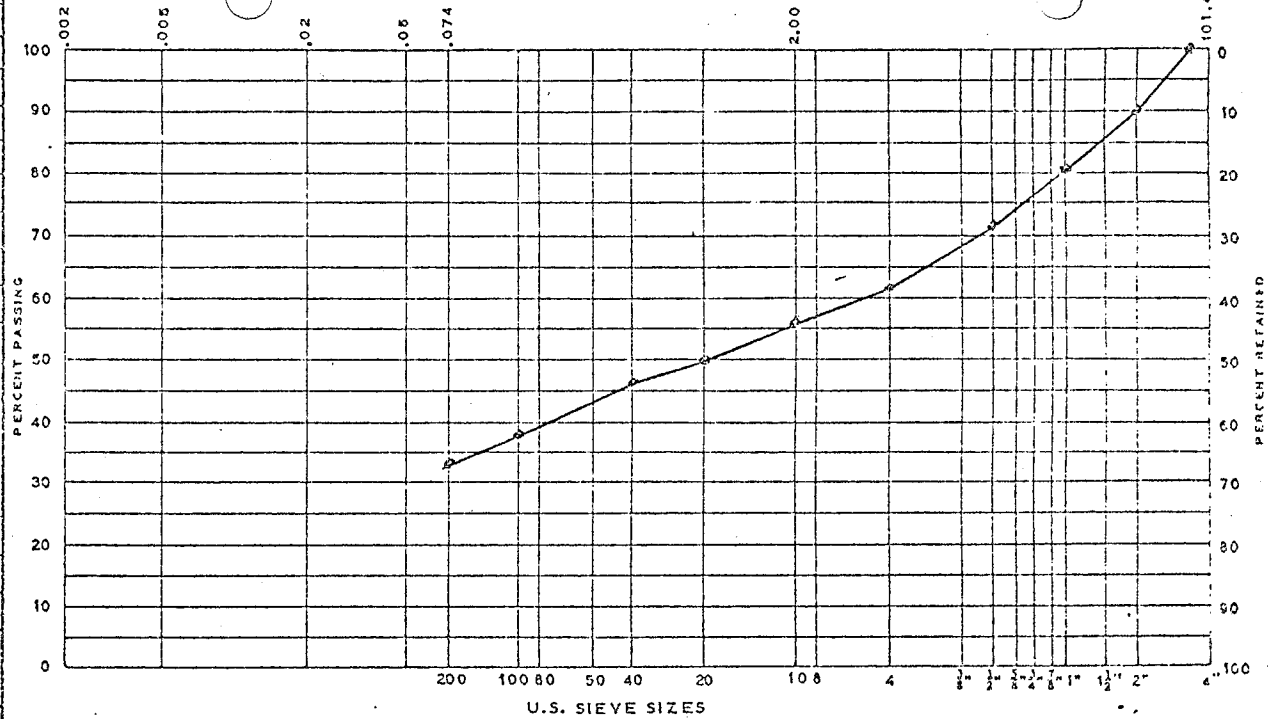
MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

SIEVE ANALYSIS  
SAMPLE NUMBER

HT	70	90		
"	100	# 4	61.5	
"	90.2	# 10	55.7	
"	86.9	# 20	50.1	
"	81.3	# 40	46.0	
"	77.1	# 100	38.4	
"	72.0	# 200	33.0	
"	68.8			

AGGREGATE GRADATION CHART

GRAIN SIZE IN MILLIMETERS



ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SOL. % LOSS	BSFC	COLOR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		21.7	17.0		4.7						
	A-2-4										
	S.M.-S.C.										
	SILTY SAND										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT.....  
 LOCATION DEMPSTER HIGHWAY  
 HOLE NO..... DEPTH 1' to 9'  
 SAMPLE TYPE STA. 2545 DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 134 LAB SAMPLE No. 2968  
 D. P. W. WHITEHORSE - SOILS LAB J. nl.  
29-3-71

TESTING ENGINEER

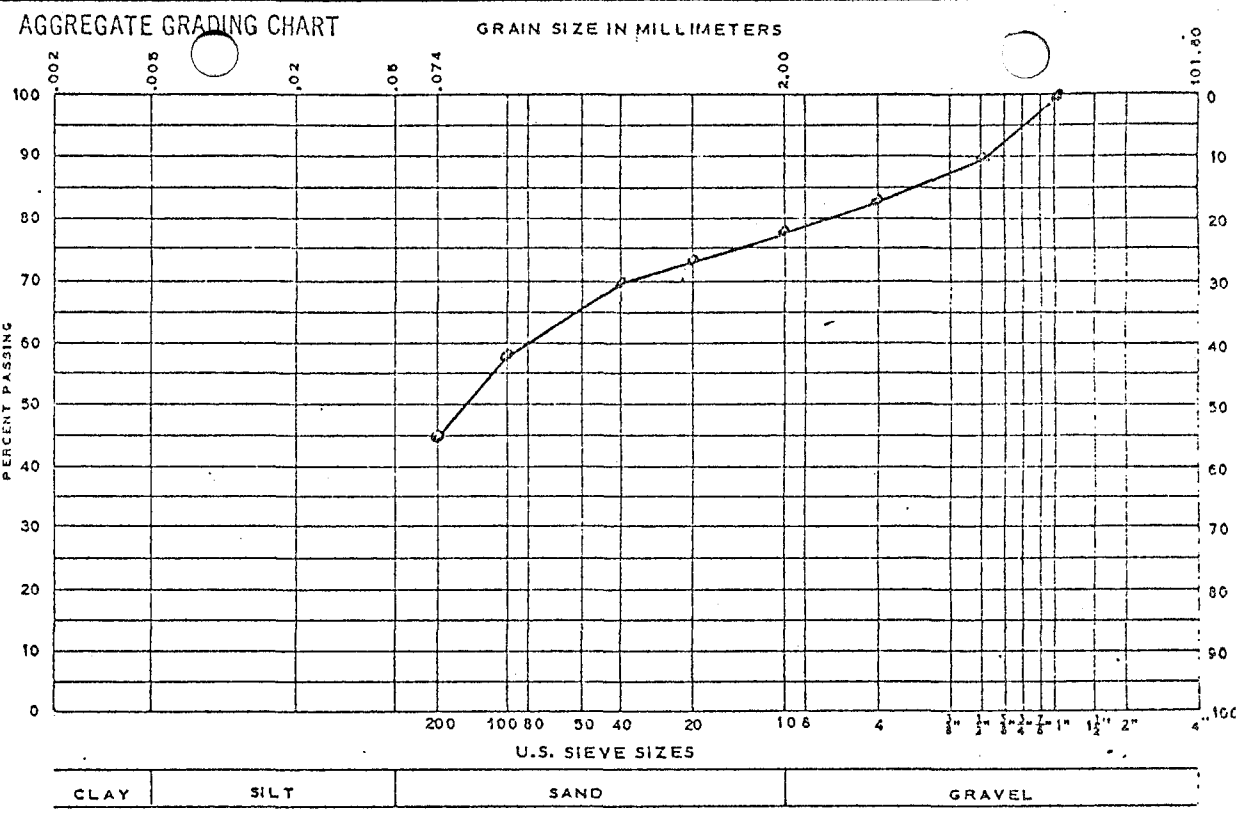
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

SIEVE	SIEVE ANALYSIS	
	PERCENT PASSING	SAMPLE NUMBER
# 4	100	83.2
# 10	93.2	78.4
# 20	90.3	73.6
# 40	87.2	70.2
# 100		58.0
# 200		44.6



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	D <sub>50</sub> %	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T. X.
			22.9	18.9	4.0							
		A-4										
		M.L.										
		SILTY SAND										

#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

#### LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2540

HOLE No. \_\_\_\_\_ DEPTH 3' to 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 135 LAB SAMPLE No. 2969

D. P. W. WHITEHORSE, SOILS LAB. *D. W.* DATE \_\_\_\_\_

##### FINE AGGREGATE

ROCK TYPE	%

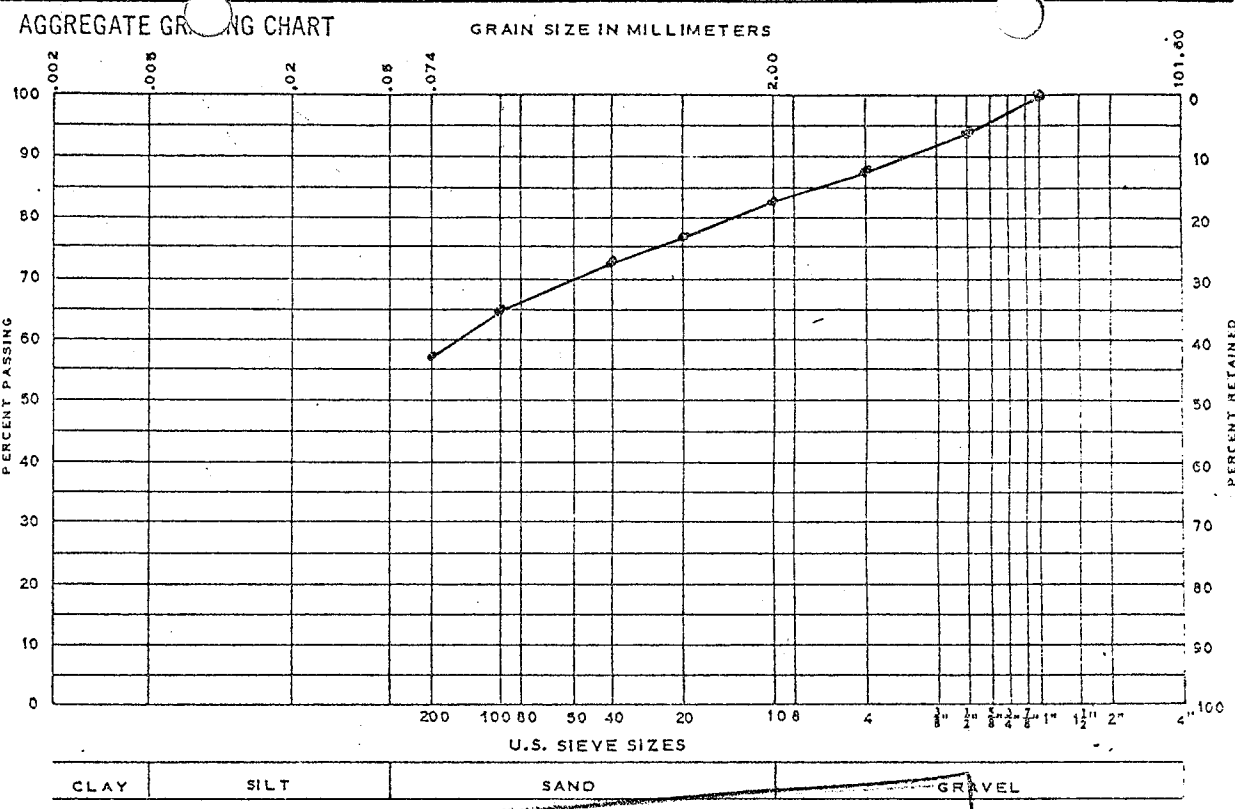
#### MATERIALS ENGINEER'S REMARKS

30-3-71

---

MATERIALS ENGINEER DATE

FINER BY EIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
1"	100	# 4 87.9
3/4"	98.5	# 10 82.7
1/2"	94.3	# 20 76.9
3/8"	91.6	# 40 72.7
		# 100 64.8
		# 200 52.4



SAMPL. NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MC 804 % LOSS	DS <sub>10</sub> G	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	22.9	18.9	4.0							
		M.L.										
		SAND - SILT MIXTURE WITH SLIGHT PLASTICITY										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: \_\_\_\_\_

LOCATION: DEMPSTER HIGHWAY

HOLE NO.: \_\_\_\_\_ DEPTH: 4' to 10'

SAMPLE TYPE: STA. 2535 DATE SAMPLED: JUNE 69

FIELD SAMPLE No. 136 LAB SAMPLE No. 2970

D. P. W. WHITEHORSE - SOILS LAB J.M.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

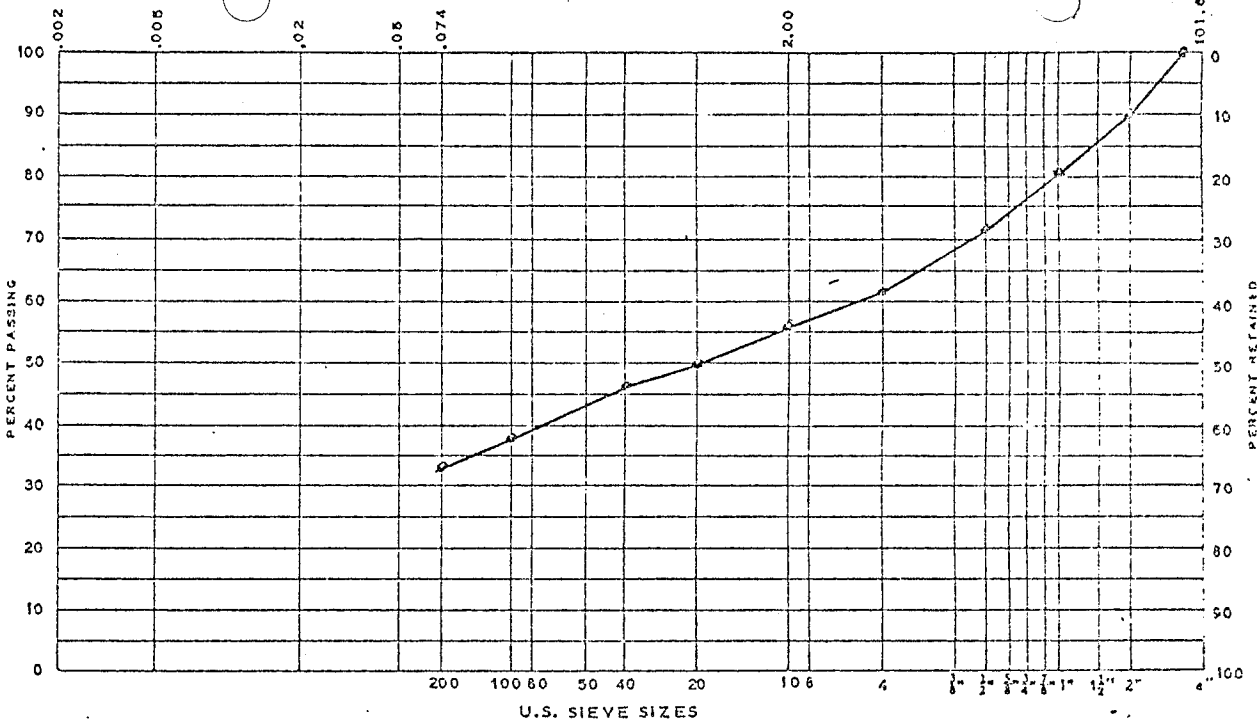
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMETER Hwy TEST HOLE NO. 117 118 119 120  
 LOGGED BY ED MELNISON DATE JUNE 69 STATION 2530 2525  
 ENTERED BY G. KUBISKI DATE JULY 69 2520 2515  
 CHECKED BY G. KUBISKI DATE JULY 69 HOLE ADVANCED BY 4" AUGER MOBILE

SAMPLE NO.	PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.I.					
										2		ROAD FILL <span style="float:right">T.H. <u>117</u></span>
137										10		SILT SAND CLAY GRAVEL COBBLES.
										3		ROAD FILL <span style="float:right">T.H. <u>118</u></span>
138										6		SAND GRAVEL.
139										10		SAND SMALL STONES
										4		ROAD FILL <span style="float:right">T.H. <u>119</u></span>
										8		SILT SAND. SMALL STONES
										10		REFUSAL & COBBLES
										6		ROAD FILL <span style="float:right">T.H. <u>120</u></span>
141										10		SANDY CLAY GRAVEL

SIEVE ANALYSIS		SAMPLE NUMBER	
PERCENT	NO.	PERCENT	NO.
100	# 4	61.5	
90.2	# 10	55.7	
86.9	# 20	50.1	
81.3	# 40	46.0	
77.1	# 100	38.4	
72.0	# 200	33.0	
68.8			

AGGREGATE GRADATION CHART



ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
	A-2-4	21.7	17.0	4.7							
	S.M.-S.C.										
	SILTY SAND										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: \_\_\_\_\_  
 LOCATION: DEMPSTER HIGHWAY  
 HOLE No. \_\_\_\_\_ DEPTH: 3' to 10'  
 SAMPLE TYPE: STA. 2530 DATE SAMPLED: JUNE 69  
 FIELD SAMPLE No. 137 LAB SAMPLE No. 2971  
 D. P. W. WHITEHORSE - SOILS LAB J. ml.  
29-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

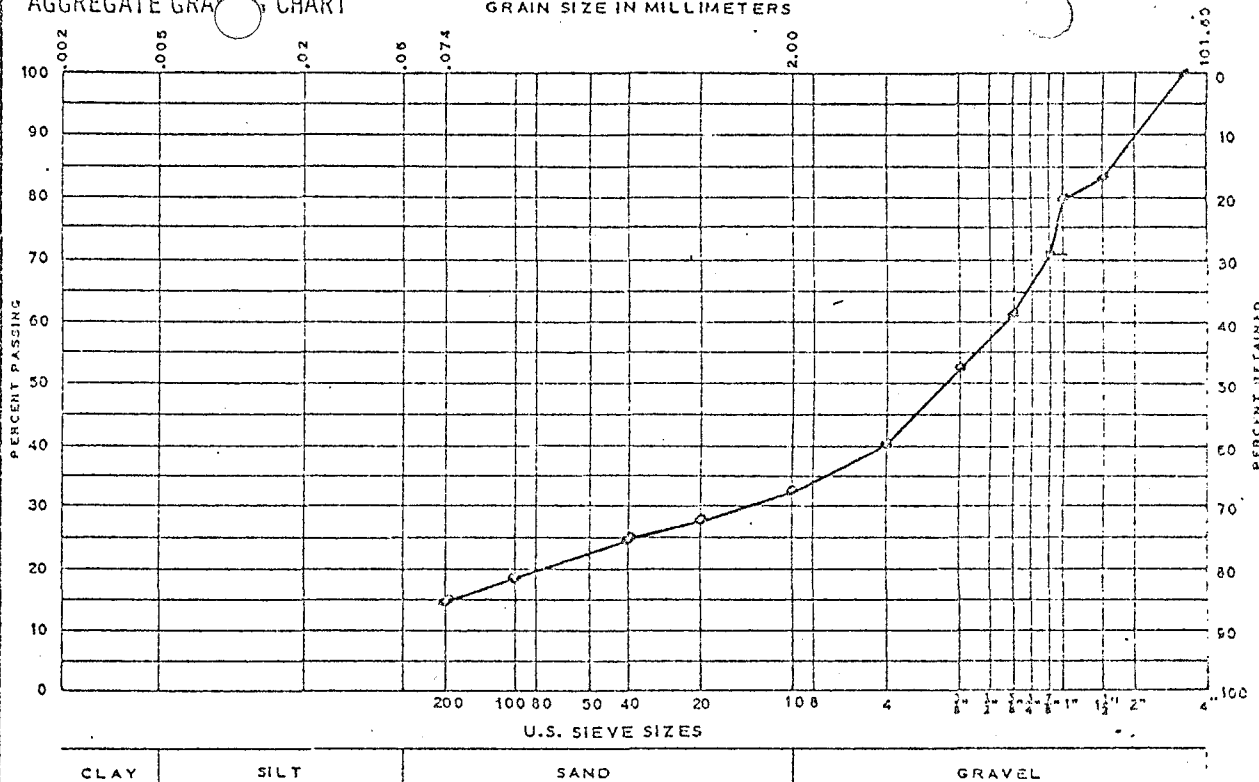
MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

SIEVE ANALYSIS  
SAMPLE NUMBER

PERCENT	SIEVE #	PERCENT
100	# 4	40.5
93.5	# 10	33.7
80.6	# 20	28.3
71.4	# 40	24.7
61.1	# 100	19.2
53.6	# 200	15.2

AGGREGATE GRAPH CHART

GRAIN SIZE IN MILLIMETERS



ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.C.S. % LOSS	B.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
	A-1-b	18.9	17.6	1.3							
	G.W.										
	WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA 2525  
 HOLE No. \_\_\_\_\_ DEPTH 3' to 6'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 138 LAB SAMPLE No. 2972  
 D. P. W. WHITEHORSE - SOILS LAB D.W.

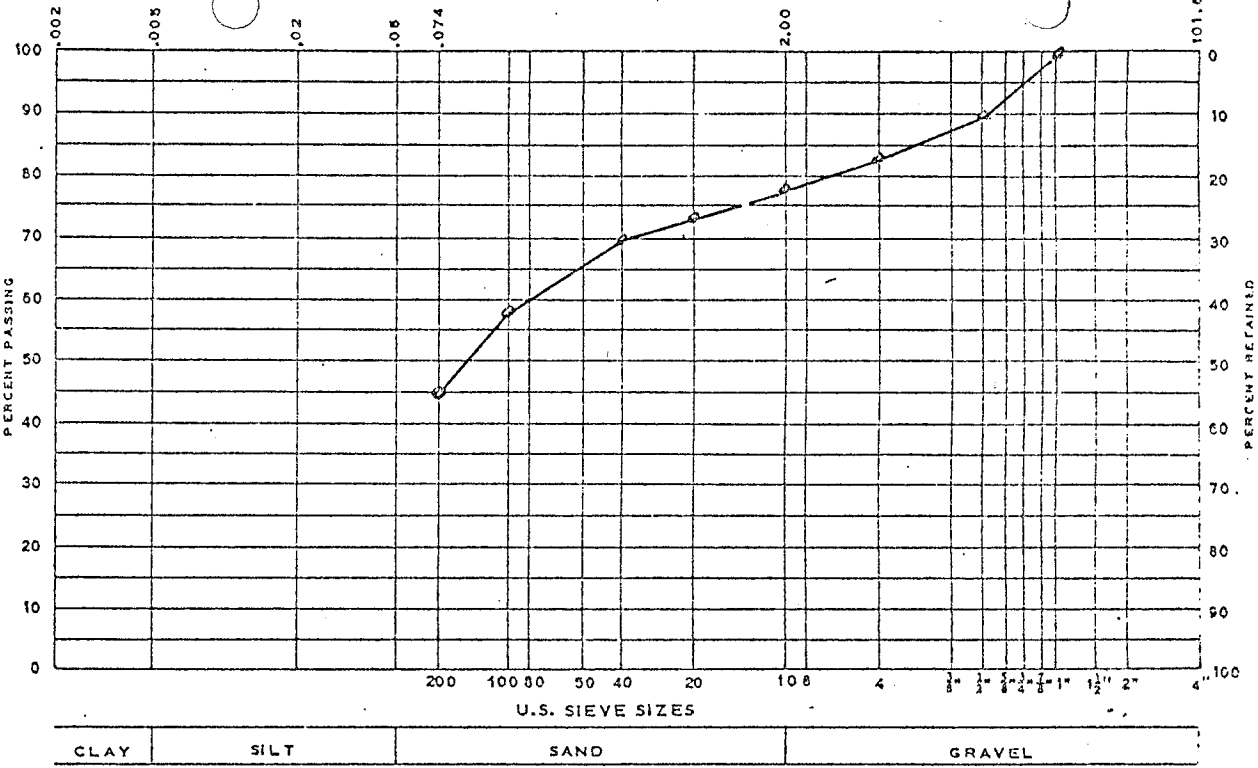
TESTING ENGINEER 29-3-71 DATE

MATERIALS ENGINEER'S REMARKS

SIEVE ANALYSIS		SAMPLE NUMBER	
HT	%	#	%
"	100	# 4	83.2
"	93.2	# 10	78.4
"	90.3	# 20	73.6
"	87.2	# 40	70.2
		# 100	58.0
		# 200	44.6

ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO <sub>4</sub> % LOSS	DSFG	COLOR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
	A-4	22.9	18.9	4.0							
	M.L.										
	SILTY SAND										

### AGGREGATE GRADING CHART



#### TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

#### FINE AGGREGATE

ROCK TYPE	%

#### LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. ? 7525  
 HOLE No. \_\_\_\_\_ DEPTH 6' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 139 LAB SAMPLE No. 2973  
 D. P. W. WHITEHORSE, SOILS LAB. J. W.

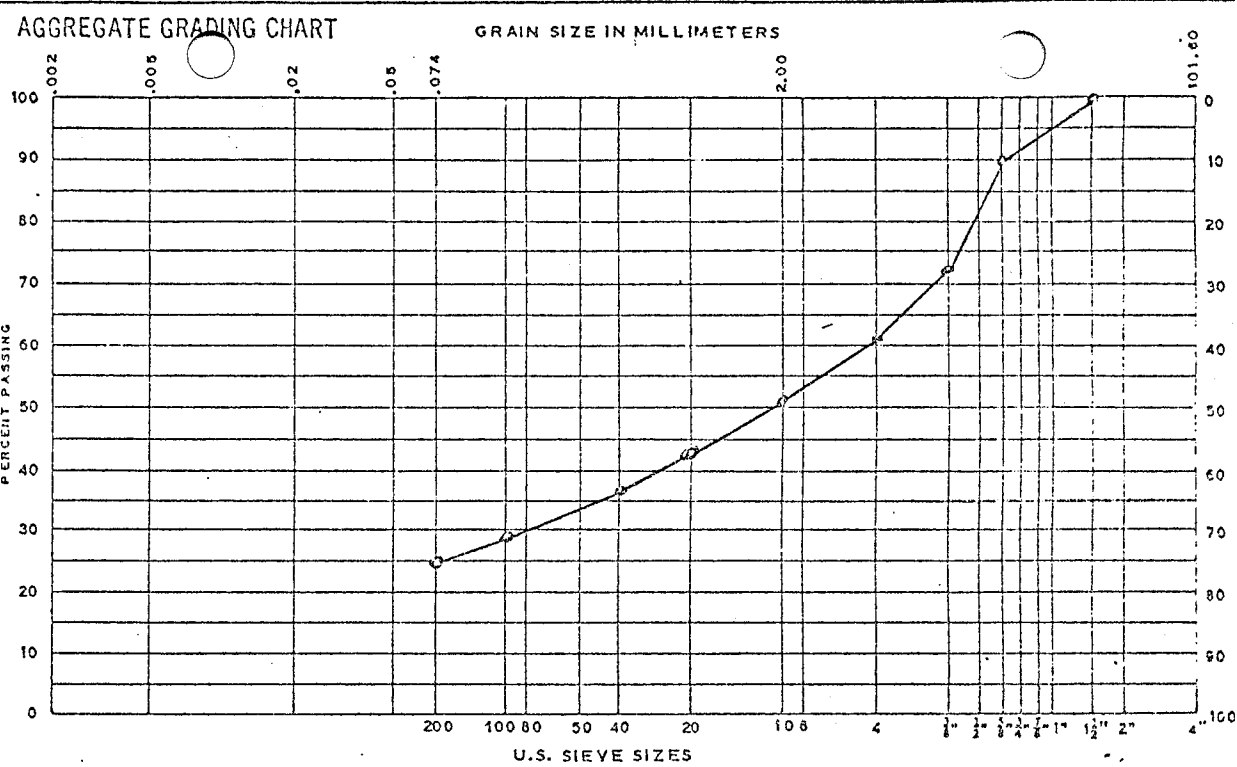
#### MATERIALS ENGINEER'S REMARKS

DATE 30-3-71

MATERIALS ENGINEER

DATE

SIEVE SIZE	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
1/2"	100	# 4 60.8
"	96.2	# 10 51.6
1/4"	90.1	# 20 43.2
1/8"	80.3	# 40 36.9
3/16"	71.8	# 100 29.1
		# 200 24.9



ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.G. 504 % LOSS	D.S.P.G.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
	A-1-b										
	S.M.										
	SILTY SAND										

CLAY      SILT      SAND      GRAVEL

#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT \_\_\_\_\_

LOCATION DEMPSTER HIGHWAY

HOLE No. \_\_\_\_\_ DEPTH 4' to 8'

SAMPLE TYPE STA. 2520 DATE SAMPLED JUNE 09

FIELD SAMPLE No. 140 LAB SAMPLE No. 2974

D. P. W. WHITEHORSE - SOILS LAB D.W.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

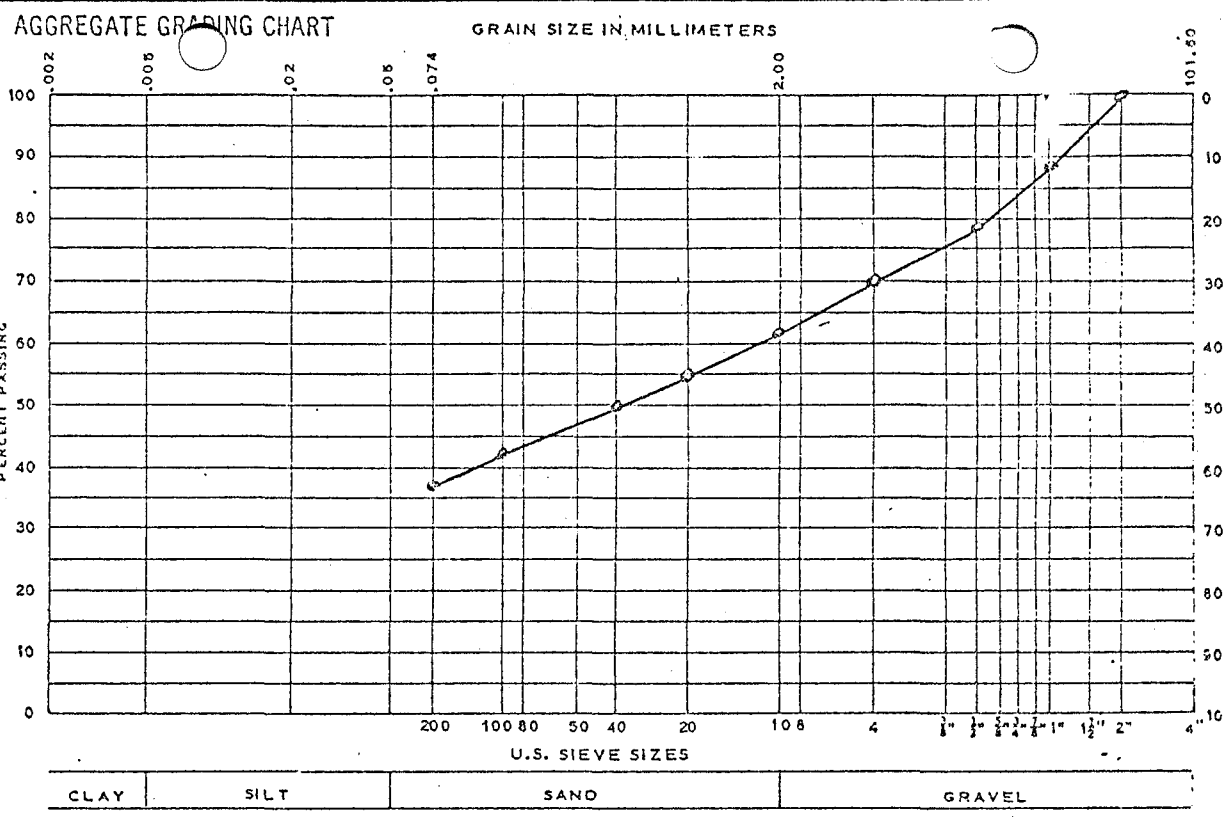
##### FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY SIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
2"	100	# 4 70.2
1/2"	89.6	# 10 62.0
1"	87.8	# 20 55.0
3/4"	84.4	# 40 50.3
3/8"	79.3	# 100 42.3
1/4"	76.0	# 200 36.9



DEPTH	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	U.A. % LOSS	MC SD4 % LOSS	DSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7		17.0	4.7						
		A-4										
		S.M. - S.C.										
		SILTY SAND										

#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

#### LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2515

HOLE No. \_\_\_\_\_ DEPTH 6' to 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 141 LAB SAMPLE No. 2975

D. P. W. WHITEHORSE - SOILS LAB J. M.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

##### FINE AGGREGATE

ROCK TYPE	%

#### MATERIALS ENGINEER'S REMARKS

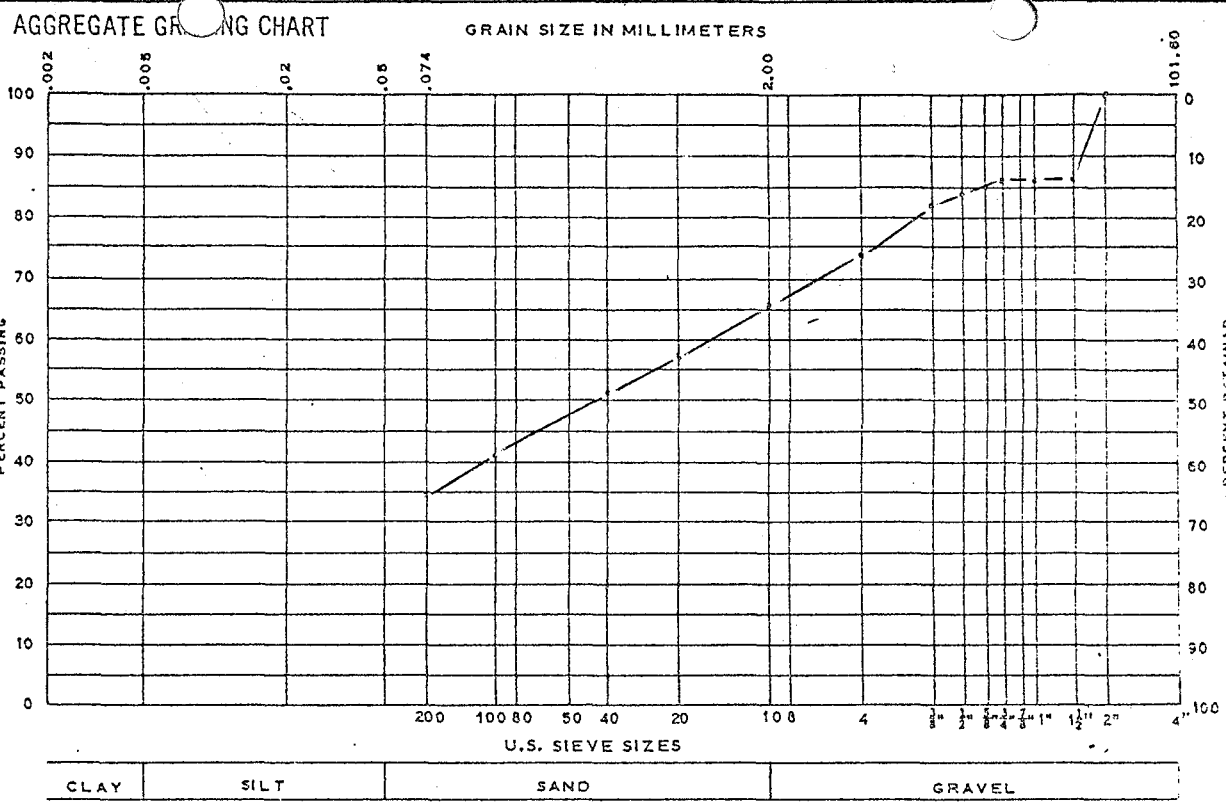
MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HIGHWAY TEST HOLE NO. 121 122 123 124  
 LOGGED BY ED. MELANSON DATE JUNE 69 STATION 2510 2505  
 ENTERED BY G. KURISKI DATE JULY 69 2500 2495  
 CHECKED BY G. KURISKI DATE JULY 69 HOLE ADVANCED BY 4' AUGER MOBILE DRILL

SAMPLE NO.	% PASSING				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.I.						
										1		ROAD FILL	T.H. 121
										6		WET SANDY CLAY GRAVEL.	
142										10			
										5		ROAD FILL	T.H. 122
										10		WET SANDY GRAVEL	
143													
										5		ROAD FILL	T.H. 123
										10		SAND, CLAYEY GRAVEL. WET.	
144													
										4		OVERBURDEN	T.H. 124
										10		FROZEN SILTY CLAY FINE SAND	
145												REFUSEL AT 9'	

FINER BY EIGHT	SIEVE ANALYSIS			
	SAMPLE NUMBER			
100.0	2"	65.6	#10	
75.9	1/2"	57.6	20	
55.9	1"	51.2	40	
35.9	3/4"	41.1	60	
24.5	1/2"	34.6	200	
22.0	3/8"			
74.2	#4			



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DISP C	COLOUR	% WATER ABSORB.	% ASPHL. ABSORB.	F.M.
		A-2-4										
		S.M.-S.C.										
		SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMETER HILLWAY

LOCATION .....

HOLE No. .... DEPTH .....

SAMPLE TYPE ..... DATE SAMPLED .....

FIELD SAMPLE No. .... LAB SAMPLE No. 2976-778

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER [Signature] DATE 25-3-77

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

2976 6'-10' STA. 2510 SAMPLE # 142.

2977 5'-10' " 2505 " # 143

2978 5'-10' " 2500 " # 144.

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DAMPSTER HWY TEST HOLE NO. 125-126-127-128  
 LOGGED BY ED MELANSON DATE JUNE 69 STATION 2490 2485 2480  
 ENTERED BY G. KUBISKI DATE JULY 69 2475  
 CHECKED BY G. KUBISKI DATE JULY HOLE ADVANCED BY 4" AUGER MOBILE

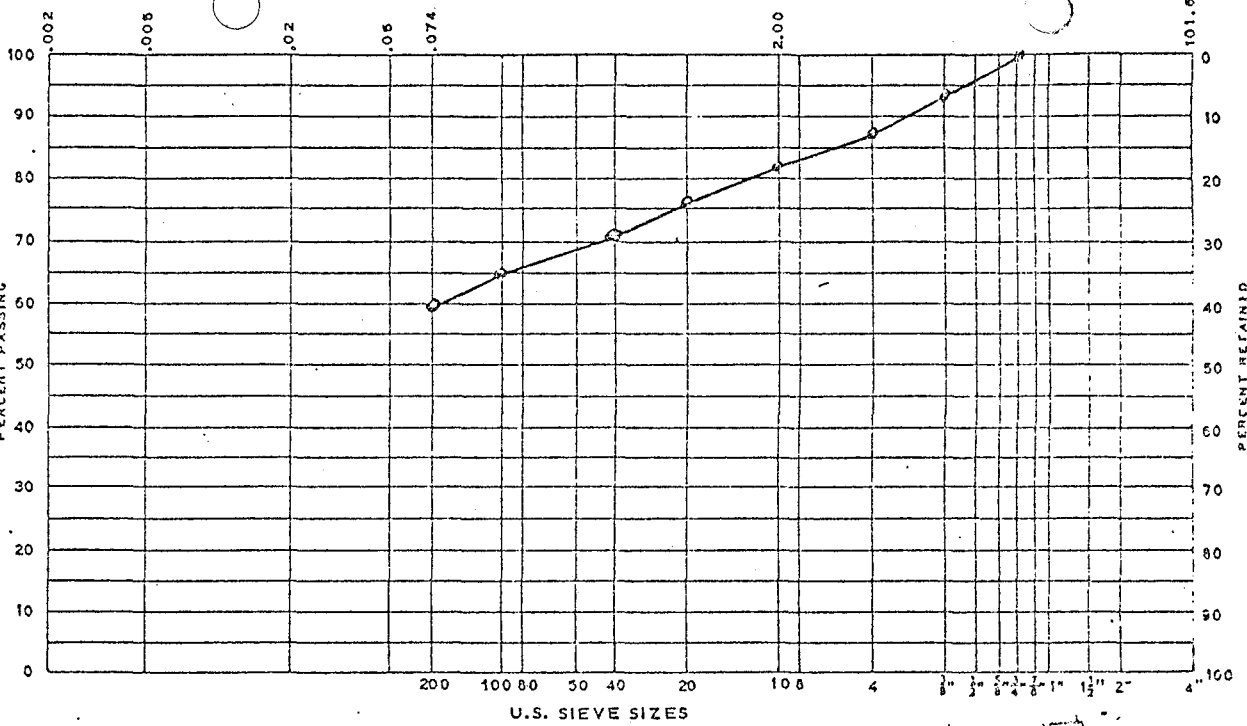
SAMPLE NO.	PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	P.L.					
									1		OVERBURDEN	T.H. <u>125</u>
									8		FROZEN SILTY CLAY	
									10			
									8		OVERBURDEN FROZEN CLAY WITH COBBLES	T.H. <u>126</u>
<u>146</u>									10		SANDY CLAYEY GRAVEL	
									2		OVERBURDEN SILT-CLAY AND ORGANIC	T.H. <u>127</u>
<u>147</u>									10		SILT-SAND CLAY	
									4		ROAD FILL	T.H. <u>128</u>
<u>148</u>									6		SILT, SAND ORGANIC.	
<u>149</u>									10		WET SILTY SAND CLAY	

SIEVE ANALYSIS  
SAMPLE NUMBER

SIEVE	PERCENT PASSING
4/0	
100	100
45.4	95.4
75.1	93.1
87.5	87.5
10	83.0
20	75.9
40	71.2
60	64.5
80	59.9

ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MIC 50A % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		25.2	21.1	4.1							
	A-4										
	M.L.										
	SANDY SILT										

AGGREGATE GRADING CHART



CLAY	SILT	SAND	GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT  
 LOCATION: DEMPSTER HIGHWAY  
 HOLE No. \_\_\_\_\_ DEPTH 2' to 10'  
 SAMPLE TYPE STA 2485 DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 146 LAB SAMPLE No. 2980  
 W.P.W. WHITEHORSE - SOILS LAB. S.M.

30-3-71

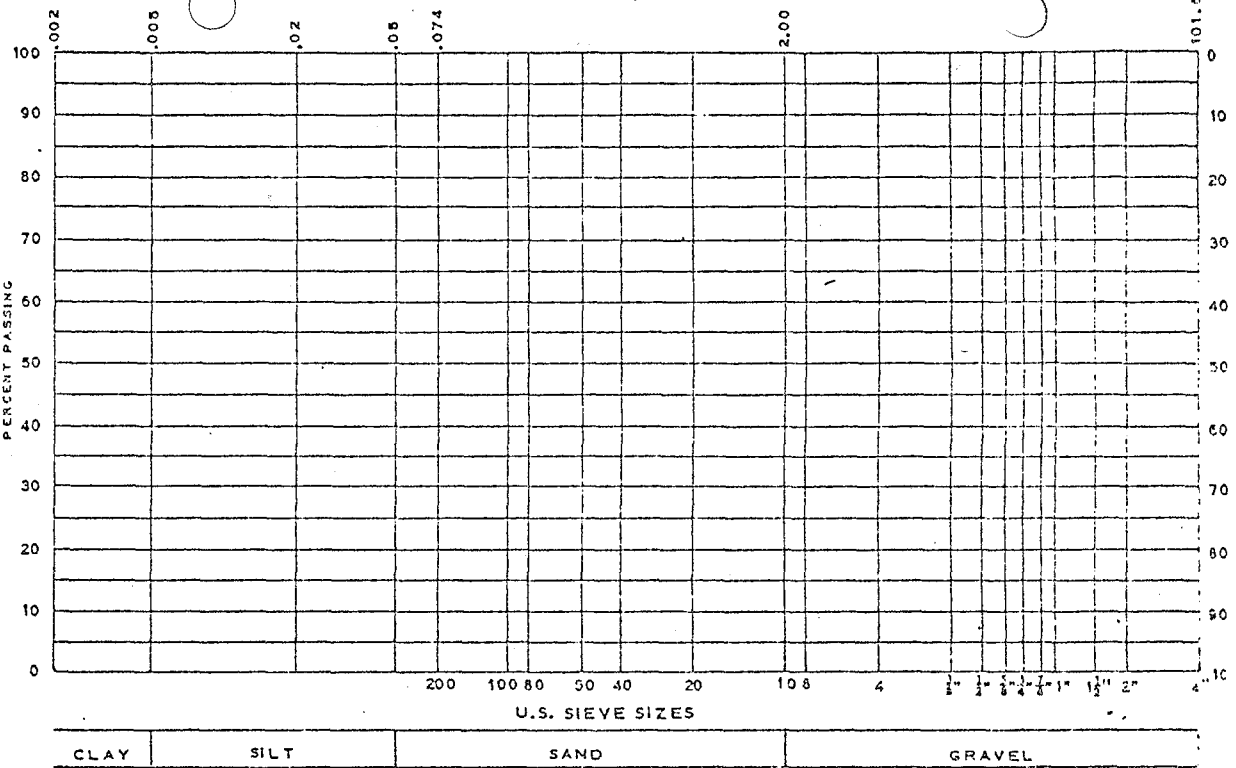
MATERIALS ENGINEER'S REMARKS


TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY WEIGHT		SIEVE ANALYSIS										
		SAMPLE NUMBER										
		78.1% PASSING #200 SIEVE										
+ 4"												
SPL. NO.	EL. OR V. DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MIC. SO. % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPHALT. ASSORB.	F.M.
		A-4				0.0						
		M.L. SILT - FINE SAND MIXTURE										

### AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2480

HOLE No. \_\_\_\_\_ DEPTH 2' to 15'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 147 LAB SAMPLE No. 2981

D. P. W. WHITEHORSE - SOILS LAB g. nt.

29-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

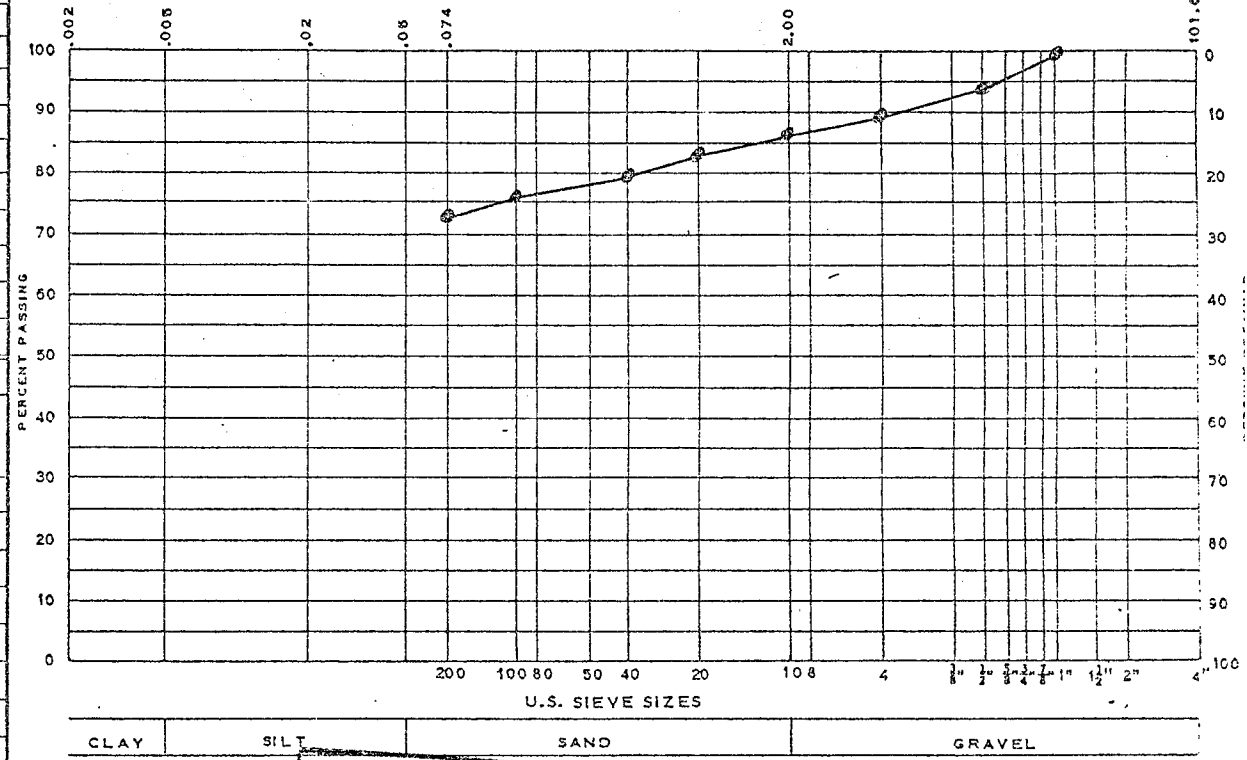
MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY EIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
1"	100	# 4 90.4
3/4"	98.0	# 10 87.4
1/2"	94.5	# 20 83.6
3/8"	93.1	# 40 80.5
		# 100 76.1
		# 200 72.8

AGGREGATE GRADING CHART



SMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	D.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4										
		M.L.										
		SILT OF SLIGHT PLASTICITY WITH SAND-GRAVEL MIXTURE										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. ~~2982~~ 2475

HOLE No. \_\_\_\_\_ DEPTH 4' to 6'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 148 LAB SAMPLE No. 2982

D. P. W. WHITEHORSE - SOILS LAB J.M.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



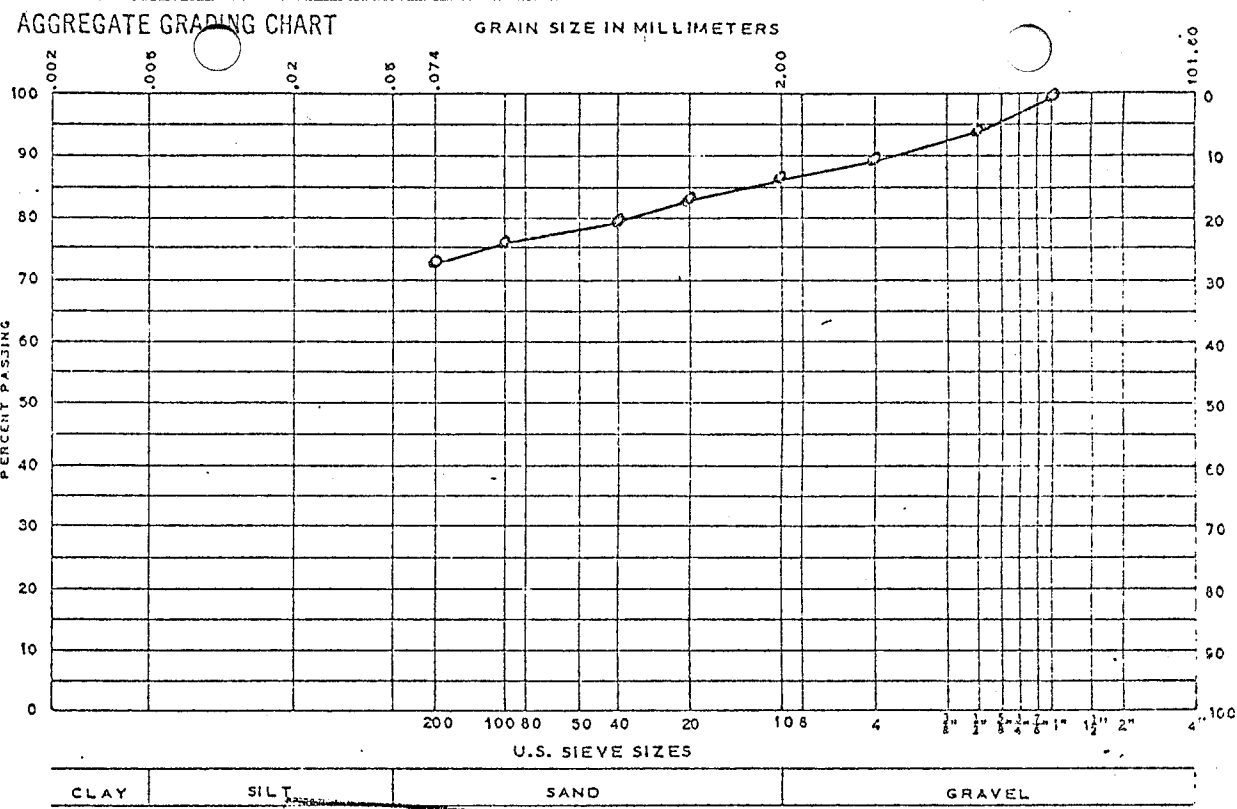
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DENNIS STER HWY TEST HOLE NO. 129-130-131-132  
 LOGGED BY ED MCGILVERSON DATE JULY 1959 STATION 2470 2465  
 ENTERED BY G. KUBISKI DATE JULY 1959 2460 - 2455  
 CHECKED BY G. KUBISKI DATE JULY 1959 HOLE ADVANCED BY 4" ALBER MOBILE

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
										1		OVERBURDEN
129										10		LOST SILTY SANDY CLAY
										2		OVERBURDEN
130										10		PARCIALY FROZEN SILT SAND CLAY WITH SMALL STONES
										1		OVERBURDEN
131										10		FROZEN SILTY CLAY
132										10		FROZEN SANDY CLAY
										10		ROAD FILL
										20		

SIEVE ANALYSIS	SAMPLE NUMBER	
	70	70
1"	100	# 4 90.4
2"	98.0	# 10 87.4
2"	94.5	# 20 83.6
2"	93.1	# 40 80.5
		# 100 76.1
		# 200 72.8

CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.C. 504 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPHALT. ABSORB.	F.M.
A-4	30.1	27.4	2.7							
M.L.										
SILT OF SLIGHT PLASTICITY WITH SAND-GRAVEL MIXTURE										



#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2460

HOLE No. \_\_\_\_\_ DEPTH 1' + 0.3'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 157 LAB SAMPLE No. 2985

D. P. W. WHITEHORSE - SOILS LAB

J.M.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

##### FINE AGGREGATE

ROCK TYPE	%

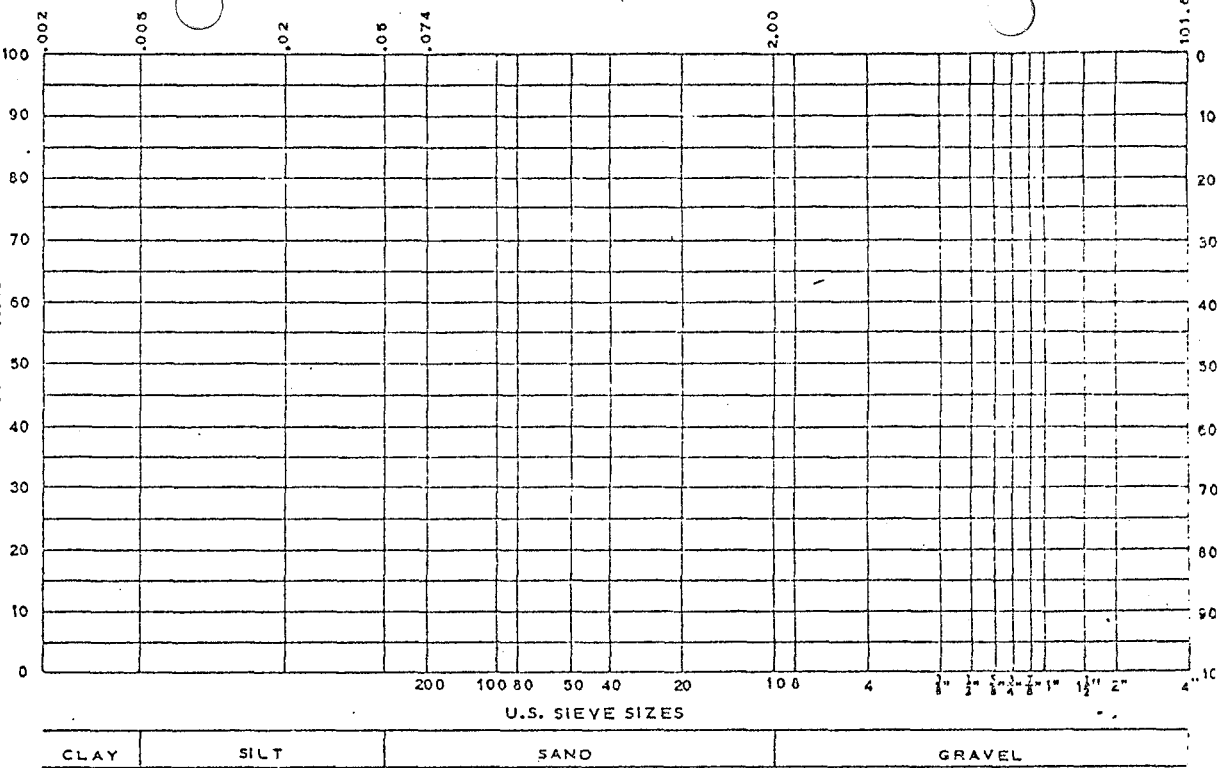
MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY SIGHT		SIEVE ANALYSIS	
		SAMPLE NUMBER	
78.1% PASSING # 200 SIEVE			

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SOL. % LOSS	DSBC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4				0.0						
M.L. SILT - FINE SAND MIXTURE												

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2460

HOLE No. \_\_\_\_\_ DEPTH 3' to 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 152 LAB SAMPLE No. 2986

D. P. W. WHITEHORSE - SOILS LAB g.m.

29-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_

\_\_\_\_\_

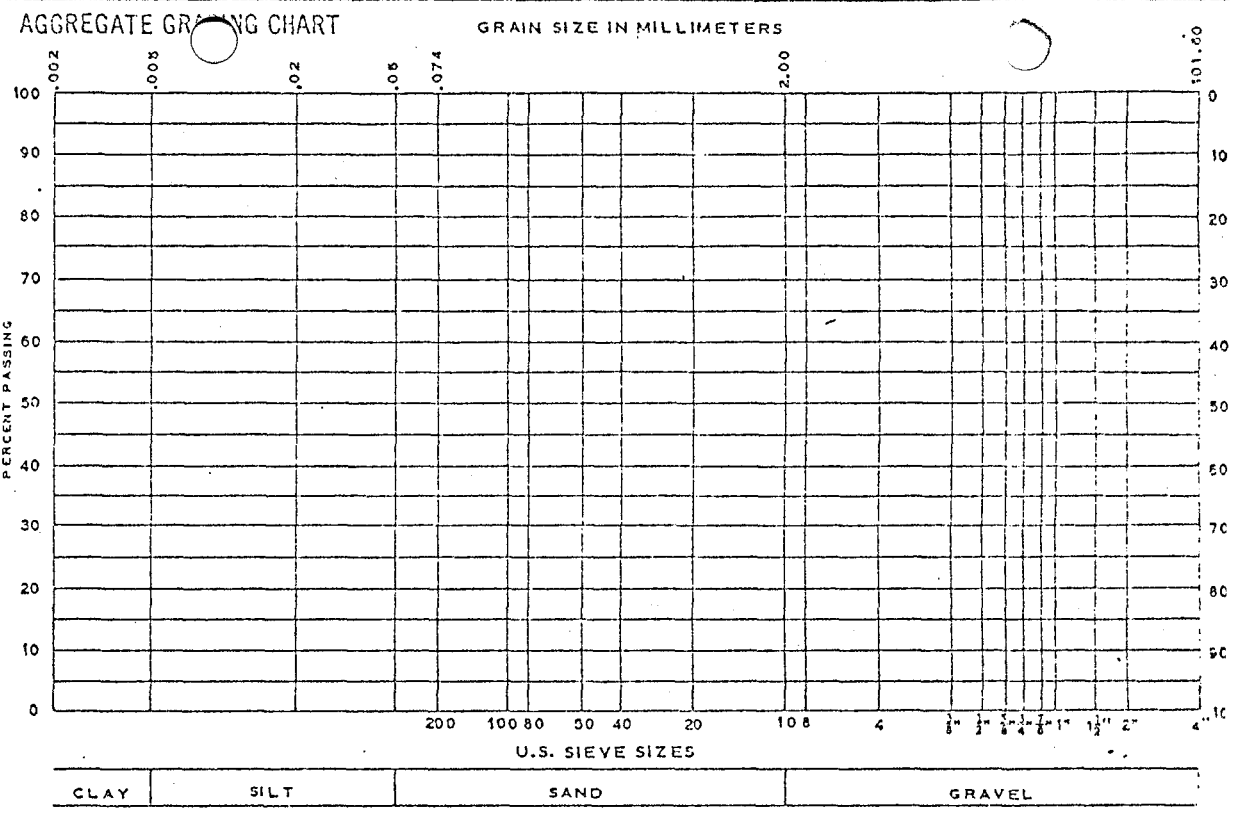
MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMETER HULLY TEST HOLE NO. 133 134 135 136  
 LOGGED BY ED. MELANSON DATE JULY 1969 STATION 2450 2445  
 ENTERED BY G. KUBISKI DATE JULY 1969 2440 2435  
 CHECKED BY G. KUBISKI DATE JULY 1969 HOLE ADVANCED BY W. GIBER HORNE

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
133										3		ROAD FILL T.H. 133
										10		SILTY SANDY CLAY
134										4		ROAD FILL T.H. 134
										10		SILTY SAND BROKEN ROCK VERY HARD DRILLING
										4		ROAD FILL T.H. 135
										10		SILTY SAND BROKEN ROCK.
136										3		ROAD FILL T.H. 136
										5		ORGANIC, OVERBORDEN
										10		SILTY SANDY CLAY WITH SMALL STONES.
										15		VERY WET.

FINER BY SIEVE ANALYSIS		SAMPLE NUMBER	
78.1% PASSING #200 SIEVE			
+ 4"			
SPL. NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L. P.L. P.I.
		A-4	0.0
		M.L.	
		SILT - FINE SAND MIXTURE	



#### TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

#### LABORATORY'S REMARKS

PROJECT..... DEMPSTER HIGHWAY

LOCATION..... STA. 2450

HOLE No..... DEPTH..... 3' to 10'

SAMPLE TYPE..... DATE SAMPLED..... JUNE 69

FIELD SAMPLE No..... 153..... LAB SAMPLE No..... 2987

D. P. W. WHITEHORSE - SOILS LAB *g.w.*

29-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

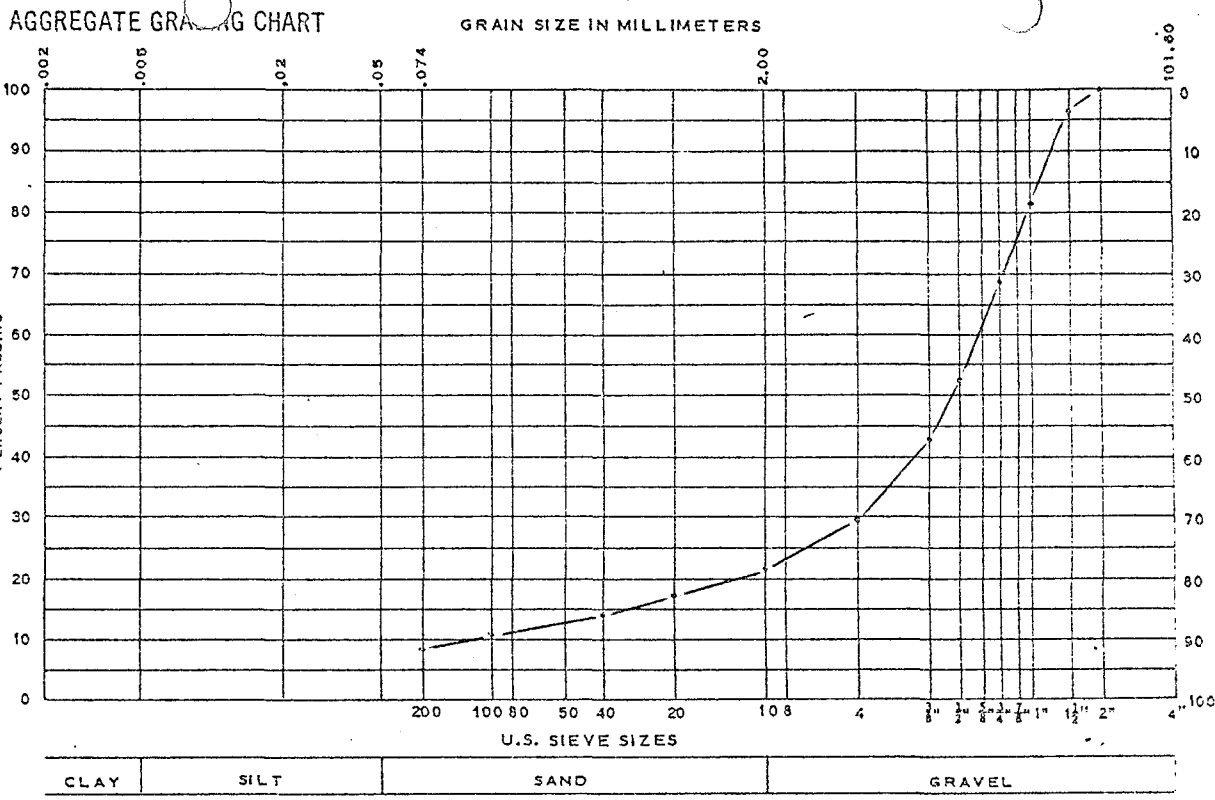
#### FINE AGGREGATE

ROCK TYPE	%

#### MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY EIGHT	SIEVE ANALYSIS			
	SAMPLE NUMBER			
100.0	2"	21.7	#10	
75.7	1 1/2"	16.9	20	
80.9	1"	14.2	40	
61.3	3/4"	10.6	100	
52.4	1/2"	8.6	200	
43.4	3/8"			
27.8	#4			



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a										
		G.W.										
		WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER-H-H-WAY.

LOCATION STA. 2445

HOLE No. \_\_\_\_\_ DEPTH 4'-10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE '69

FIELD SAMPLE No. 154 LAB SAMPLE No. 2988

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE 25-3-71

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

SIEVE ANALYSIS  
SAMPLE NUMBER

SIZE	WT	%
4"	100	100
2"	95.9	95.9
1 1/2"	93.1	93.1
1"	87.5	87.5
3/4"	83.0	83.0
20	75.9	75.9
40	71.2	71.2
100	64.5	64.5
200	59.9	59.9

PL. ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.C. 50A % LOSS	B.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		25.2	21.1	4.1							
	A-4										
	M.L.										
	SANDY SILT										

TYPICAL PETROGRAPHIC ANALYSIS

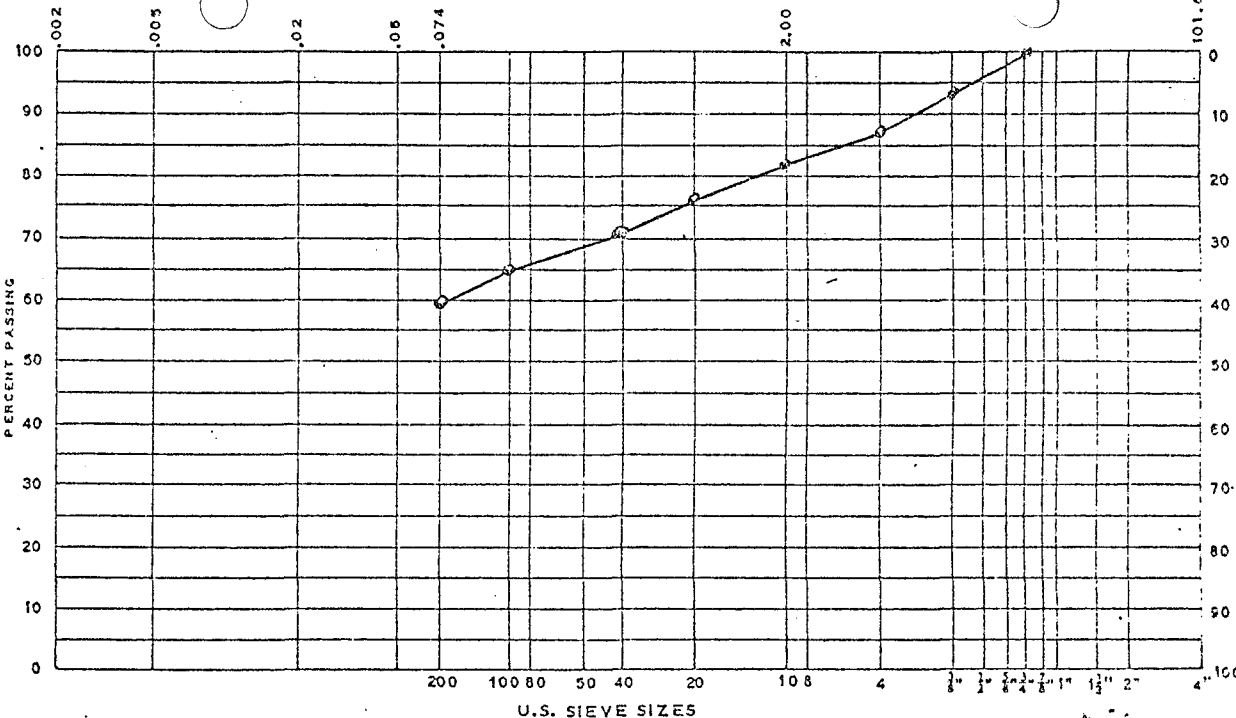
COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

AGGREGATE GRADING CHART



CLAY      SILT      SAND      GRAVEL

LABORATORY'S REMARKS

PROJECT: \_\_\_\_\_  
 LOCATION: DEMPSTER HIGHWAY  
 HOLE No. \_\_\_\_\_ DEPTH: 5' to 15'  
 SAMPLE TYPE: STA 2435 DATE SAMPLED: JUNE 1969  
 FIELD SAMPLE No. 155 LAB SAMPLE No. 2989  
 U.P.W. WHITEHORSE - SOILS LAB. J.M.

30-3-71

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMOLITION HIGHWAY TEST HOLE NO. 137-138-139-140  
 LOGGED BY ED MELANSON DATE JUNE 69 STATION 2430 - 2425  
 ENTERED BY C. KURISKI DATE JULY 69 2420 - 2415  
 CHECKED BY C. KURISKI DATE JULY 69 HOLE ADVANCED BY 4" RIGGER MOBILE

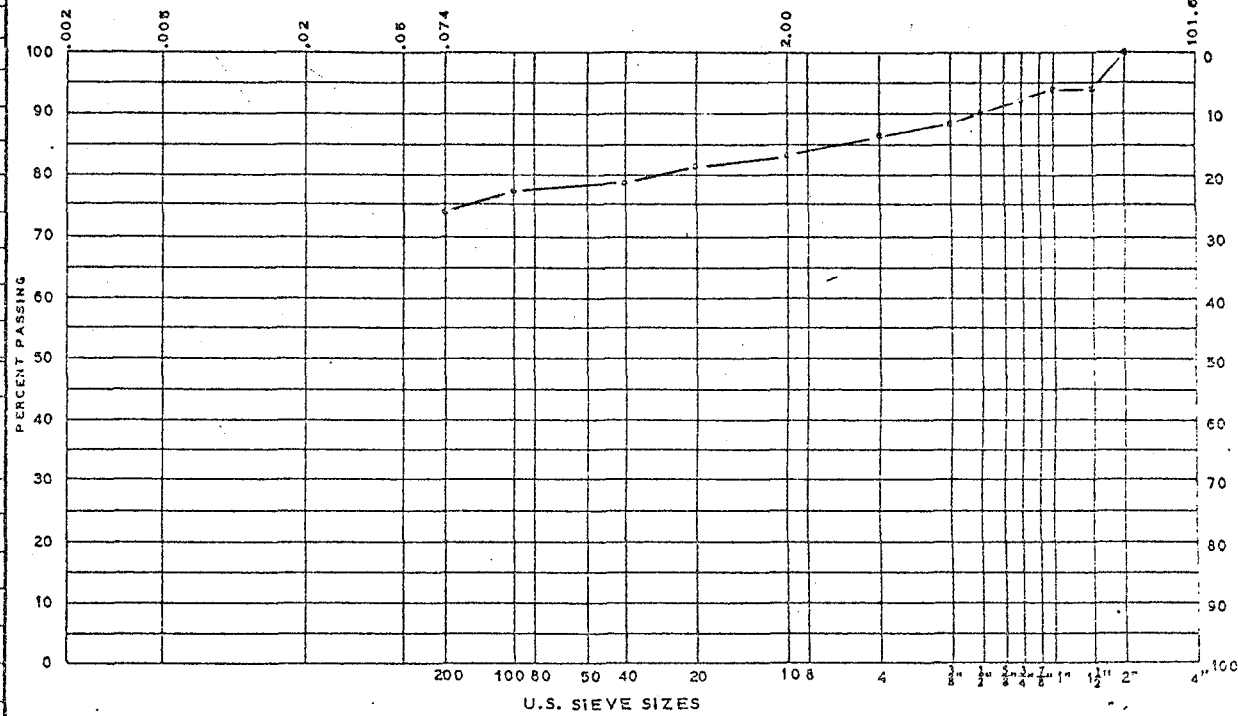
SAMPLE NO.	PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	P.L.	P.L.					
									1		ROAD FILL	T.H. <u>137</u>
									6			
156									10		SAND, CLAY SMALL STONES.	
									12			
									6		ROAD FILL	T.H. <u>138</u>
									10		PARTIALLY FROZEN SANDY CLAY GRAVEL	
157									12		COBBLES.	
									9			
									12		ROAD FILL.	T.H. <u>139</u>
									15		OVERBORDEN	
									18		PARCIALLY FROZEN SANDY CLAY ORVEL COBBLES.	
									6		ROAD FILL	T.H. <u>140</u>
									7		OVERBORDEN.	
158									10		PARCIALLY FROZEN SANDY CLAY SMALL PEBBLES.	
									12			

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

FINER BY WEIGHT		SIEVE ANALYSIS			
		SAMPLE NUMBER			
17.0	2"	83.5	#10		
74.3	1/2"	81.1	#20		
74.3	1"	79.4	#10		
72.1	3/4"	76.5	#15		
60	1/2"	74.1	#20		
87.9	3/8"				
86.0	#1				

AGGREGATE GRADING CHART



CLAY SILT SAND GRAVEL

AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	U.A. LOSS	% LOSS	MG 504	% LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4				30.1	2.7							
		M.L.												
		SILT OF SLIGHT PLASTICITY WITH SAND-GRAVEL MIXTURE												

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT.....  
 LOCATION: DENVER STEEL MILL-WAY STA. 2430  
 HOLE No. .... DEPTH 6' to 13'  
 SAMPLE TYPE ..... DATE SAMPLED JUNE 1969  
 FIELD SAMPLE No. 156 LAB SAMPLE No. 2990-6-13  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71

DATE

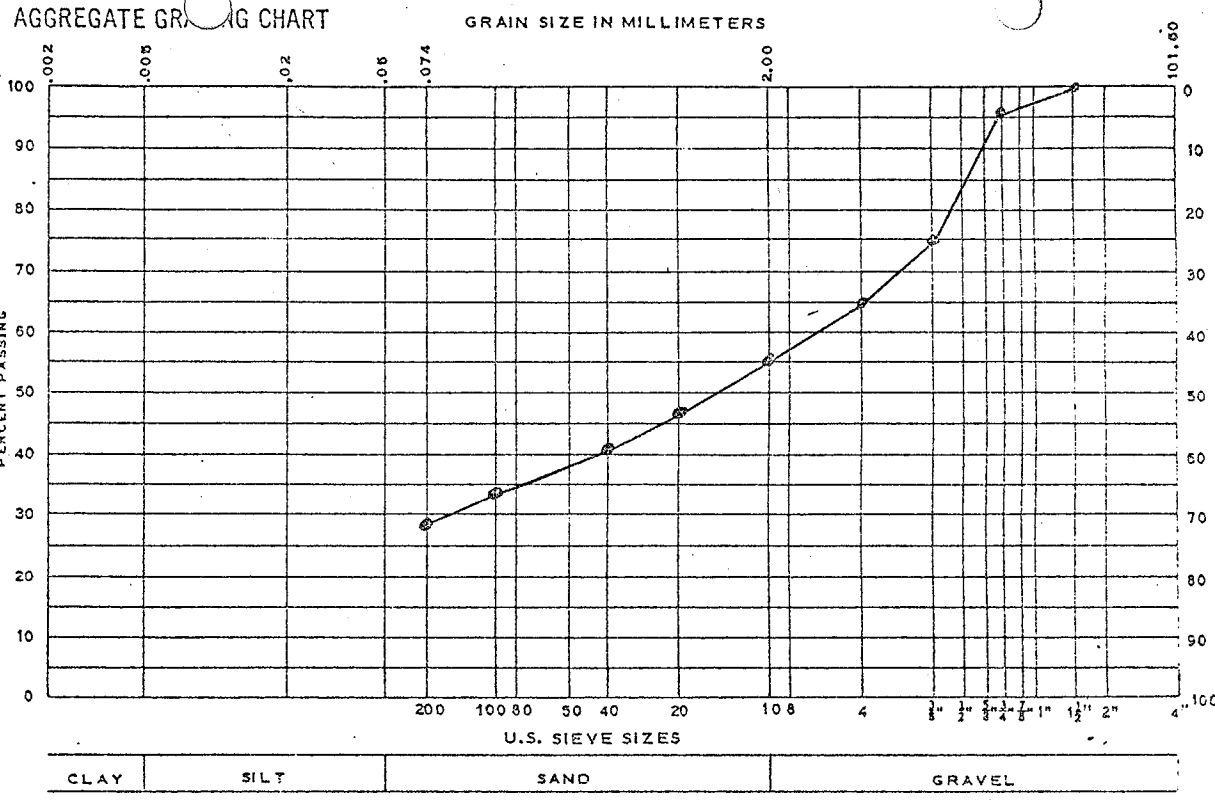
MATERIALS ENGINEER'S REMARKS

2990-6-13' STA. 2430 SAMPLE #1 156  
~~2018-8-10' STA. 2430 SAMPLE #1 64~~

MATERIALS ENGINEER

DATE

FINER BY EIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
1 1/2"	100	# 4 65.2
1"	95.9	# 10 55.7
3/4"	95.9	# 20 47.2
1/2"	81.1	# 40 41.5
3/8"	75.2	# 100 34.0
		# 200 29.1



AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SOL % LOSS	OSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.7		20.7	2.0						
		A-2-4										
		S.M.										
		SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2425

HOLE NO. \_\_\_\_\_ DEPTH 6' to 12'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 9

FIELD SAMPLE NO. 157 LAB SAMPLE NO. 2991

D. P. W. WHITEHORSE - SOILS LAB J.M.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

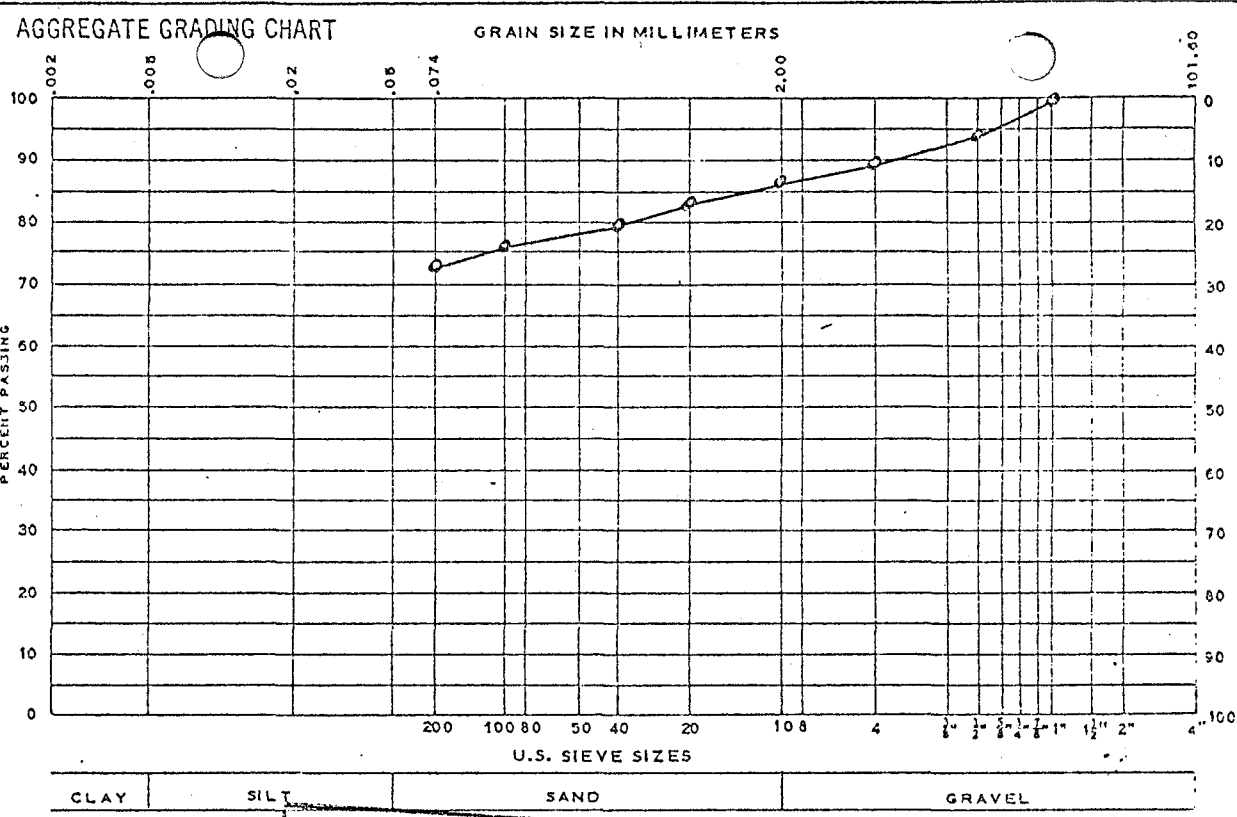
FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

SIEVE ANALYSIS	SIEVE ANALYSIS	
	WEIGHT	SAMPLE NUMBER
1"	100	# 4 90.4
2"	98.0	# 10 87.4
3"	94.5	# 20 83.6
4"	93.1	# 40 80.5
		# 100 76.1
		# 200 72.8



ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.G. 504 % LOSS	D.S.P.G.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
	A-4	30.1	27.4	2.7							
	M.L.										
SILT OF SLIGHT PLASTICITY WITH SAND-GRAVEL MIXTURE											

#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2415

HOLE No. \_\_\_\_\_ DEPTH 7' to 12'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 158 LAB SAMPLE No. 2992

D. P. W. WHITEHORSE - SOILS LAB

J.M.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

##### FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

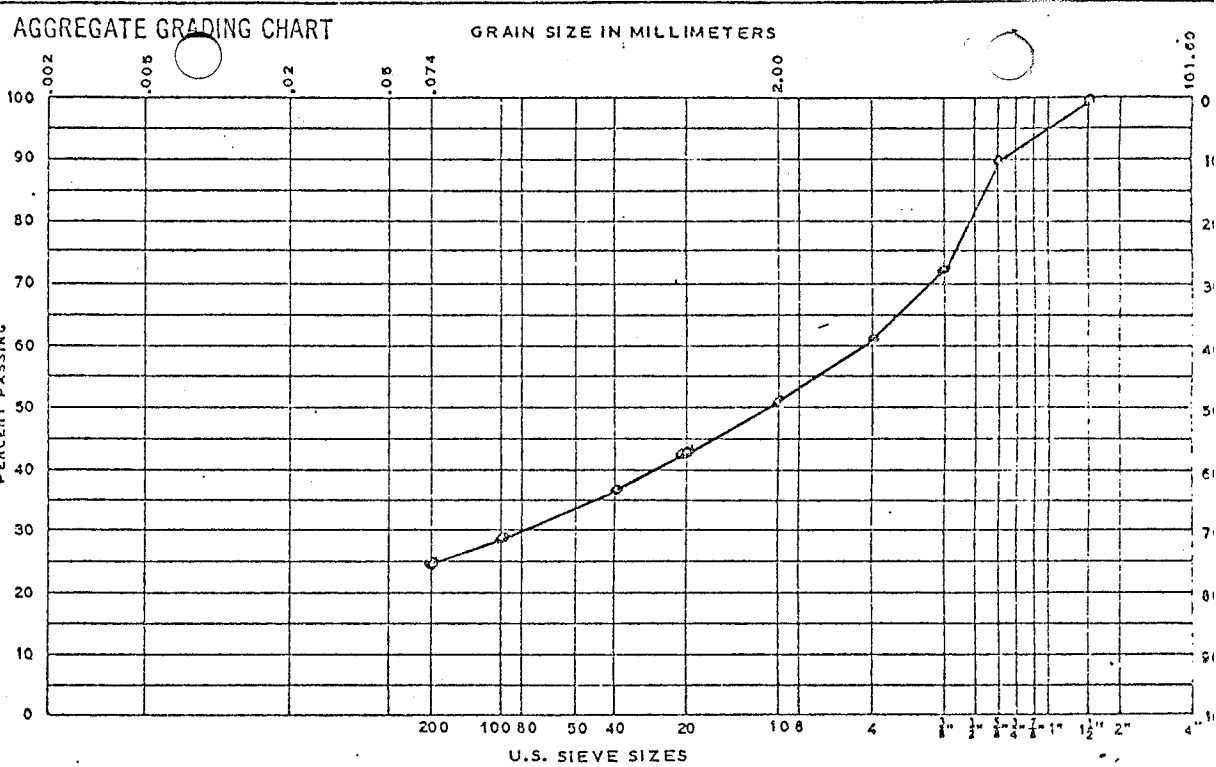
MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DUMOSTER Hwy TEST HOLE NO. 141-142-143-144  
 LOGGED BY ED. MELANSON DATE \_\_\_\_\_ STATION 2416 2405  
 ENTERED BY G. KURISKI DATE \_\_\_\_\_ 2400 2395  
 CHECKED BY G. KURISKI DATE \_\_\_\_\_ HOLE ADVANCED BY 4" AUGER MOBILE

SAMPLE NO.	% PASSING LIMITS						Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1					
154									5		ROAD FILL T.H. 141
									6		OVERBORDEN
									10		SAND, CLAY GRAVEL LARGE
									15		COBBLES.
160									6		ROAD FILL T.H. 142
									10		SILT, SAND WITH COBBLES.
									12		WET.
									4		ROAD FILL T.H. 143
									6		OVERBORDEN.
									10		SILT SAND BROKEN ROCK
									14		WET.
161									6		ROAD FILL T.H. 144
									7		OVERBORDEN
									10		SILT, SAND, CLAY SMALL
									15		STONES. (DAMP)

FINER BY EIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
1/2"	100	# 4 60.8
1"	96.2	# 10 51.6
3/4"	90.1	# 20 43.2
1/2"	80.3	# 40 36.9
3/8"	71.8	# 100 29.1
		# 200 24.9



SAMPLE NO.	ELEV. OR DEPTH.	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.8	18.4	3.4							
		A-1-b										
		S.M.										
		SILTY SAND										

CLAY      SILT      SAND      GRAVEL

#### TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT \_\_\_\_\_

LOCATION DEMPSTER HIGHWAY

HOLE No. \_\_\_\_\_ DEPTH 6' to 15'

SAMPLE TYPE STA. 2410 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 159 LAB SAMPLE No. 2993

D. P. W. WHITEHORSE - SOILS LAB J.W.

30-3-71

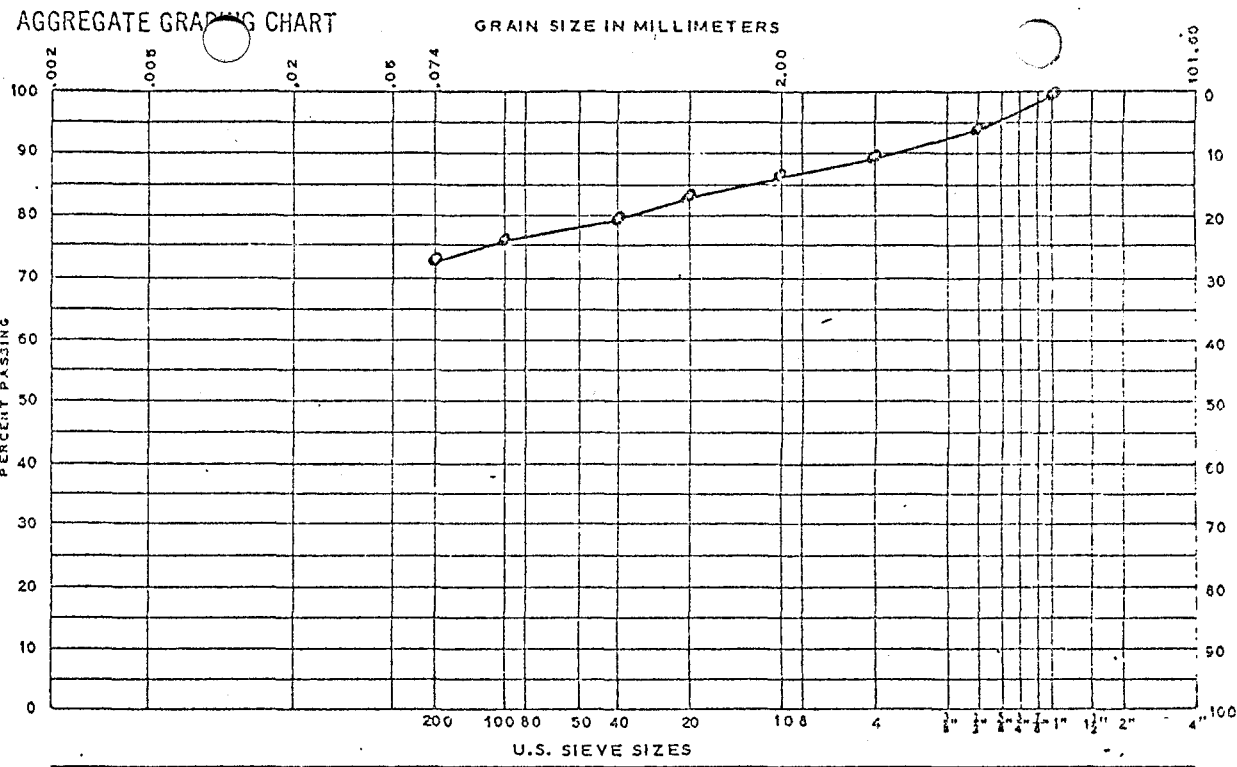
\_\_\_\_\_  
TESTING ENGINEER      DATE

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_  
MATERIALS ENGINEER      DATE

SIEVE HEIGHT	SIEVE ANALYSIS	
	PERCENT	SAMPLE NUMBER
1"	100	# 4 90.4
1/2"	98.0	# 10 87.4
2"	94.5	# 20 83.6
3"	93.1	# 40 80.5
		# 100 76.1
		# 200 72.8



DEPTH	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	30.1	27.4	2.7							
		M.L.										
SILT OF SLIGHT PLASTICITY WITH SAND-GRAVEL MIXTURE												

CLAY      SILT      SAND      GRAVEL

#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS:

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2406

HOLE No. \_\_\_\_\_ DEPTH 6' to 12'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 160 LAB SAMPLE No. 2994

D. P. W. WHITEHORSE - SOILS LAB

J.M.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

##### FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

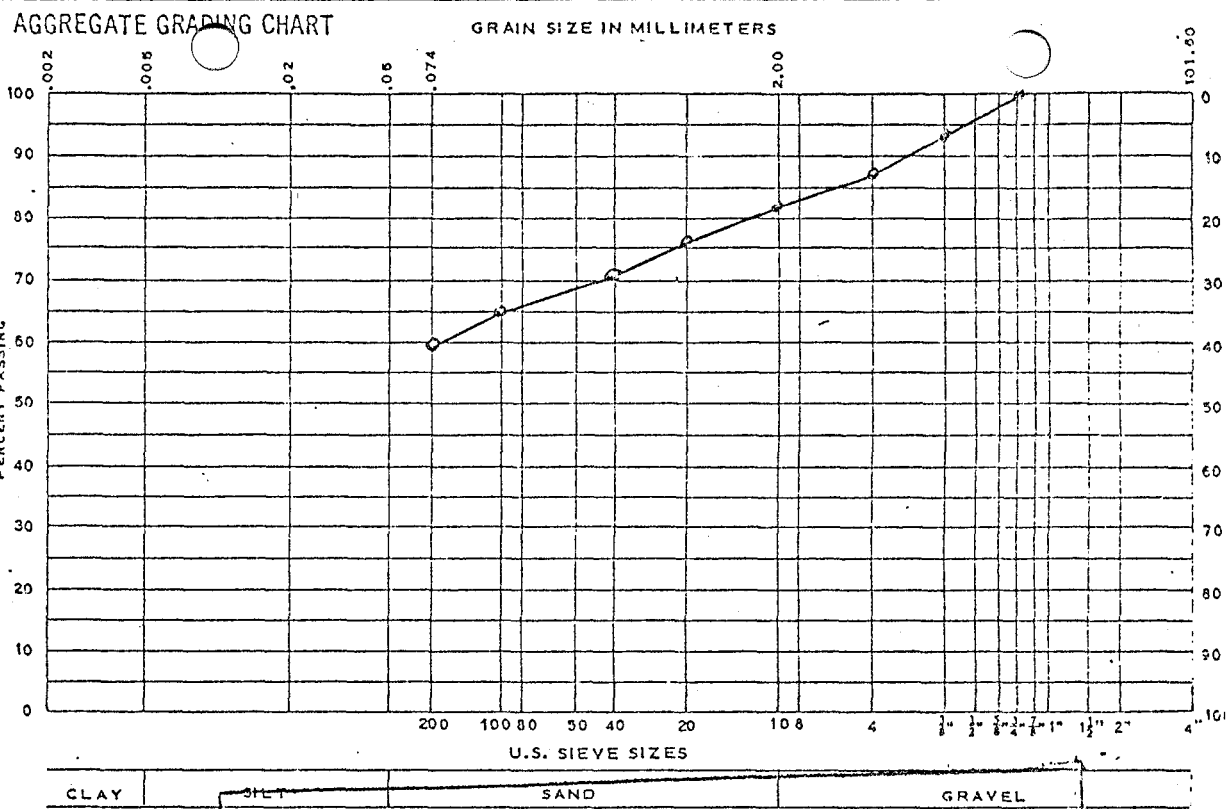
MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

SIEVE ANALYSIS	
SAMPLE NUMBER	
FINER BY LIGHT	96
1/4"	100
1/2"	95.9
3/4"	95.1
1"	87.5
2"	83.0
4"	75.9
10"	71.2
20"	64.5
40"	59.9
+ 4"	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.2	2.1	7.1							
		A-4										
		M.L.										
		SANDY SILT										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE	
ROCK TYPE	%



LABORATORY'S REMARKS

PROJECT: \_\_\_\_\_  
 LOCATION: DEMPSTER HIGHWAY  
 HOLE No. \_\_\_\_\_ DEPTH: 7'-15'  
 SAMPLE TYPE: STA 2395 DATE SAMPLED: JUNE 69  
 FIELD SAMPLE No. 161 LAB SAMPLE No. 2995  
 W. P. W. WHITEHORSE - SOILS LAB J.M.

30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DAMPSTER RD. V TEST HOLE NO. 145-146-147-148  
 LOGGED BY ED. MULLAISEN DATE JUNE 1969 STATION 2390 2395  
 ENTERED BY G. KUBISKI DATE JULY 69 2390 2395  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ HOLE ADVANCED BY W. JAGER NOBILE

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
												T.H. <u>145</u>
										7		ROAD FILL
										8		OVERBURDEN.
										10		SILT, SAND CLAY SMALL STONES
										14		
												T.H. <u>146</u>
										5		ROAD FILL
										10		OVERBURDEN.
										10		SILT, SAND SMALL STONES.
										13		
												T.H. <u>147</u>
										4		ROAD FILL
										7		OVERBURDEN.
142										12		SILTY CLAY FINE SAND DAMP.
												T.H. <u>148</u>
										15		ROAD FILL
										16		OVERBURDEN
143										10		SILTY SAND SMALL STONES DRY

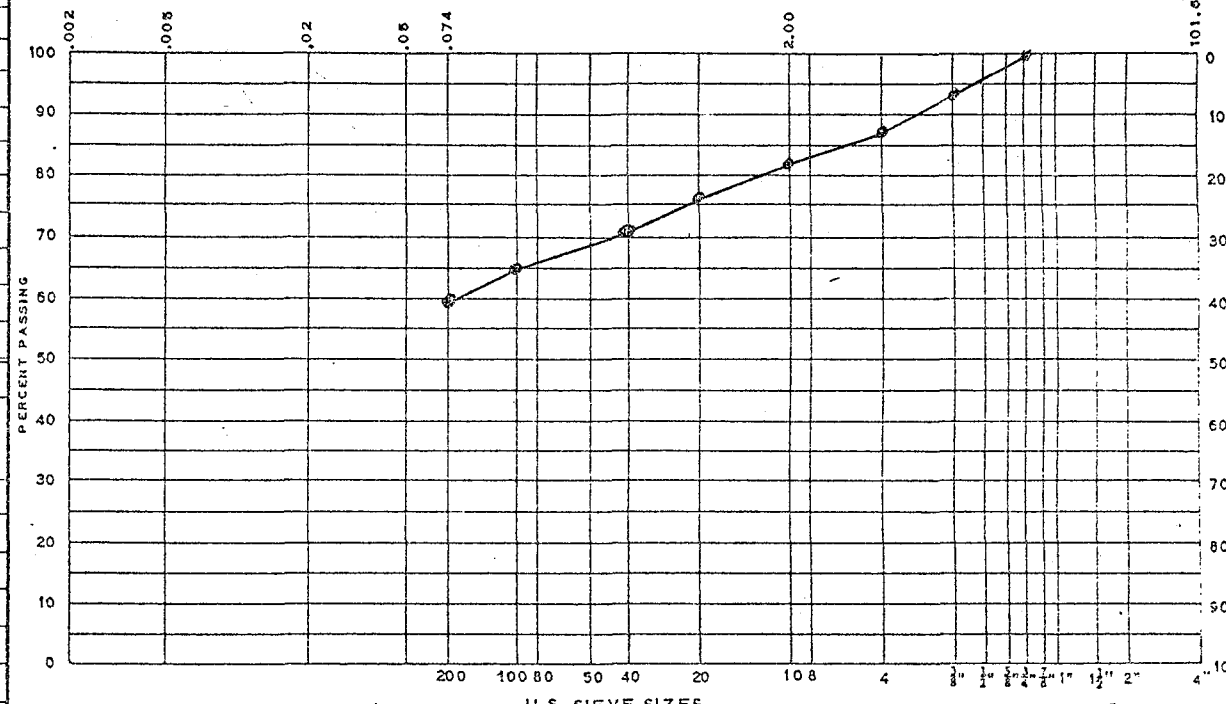
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

FINER BY WEIGHT		SIEVE ANALYSIS	
	%	SAMPLE NUMBER	
3/4"	100		
1/2"	95.9		
3/8"	93.1		
# 4	87.5		
# 10	82.0		
# 20	75.9		
# 40	71.2		
# 100	64.5		
# 200	59.9		
* + 4"			

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.I.A. % LOSS	Mg SO <sub>4</sub> % LOSS	DSBC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.2	21.1		4.1						
		A-4										
		M.L										
		SANDY SILT										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT: \_\_\_\_\_  
 LOCATION: **DEMPSTER HIGHWAY**  
 HOLE No. \_\_\_\_\_ DEPTH: **5' to 10'**  
 SAMPLE TYPE: **STA 2380** DATE SAMPLED: **JUNE 69**  
 FIELD SAMPLE No. **162** LAB SAMPLE No. **2996**  
**W. P. W. WHITEHORSE - SOILS LAB** *J.M.*

30-3-71

TESTING ENGINEER

DATE

FINE AGGREGATE

ROCK TYPE

%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

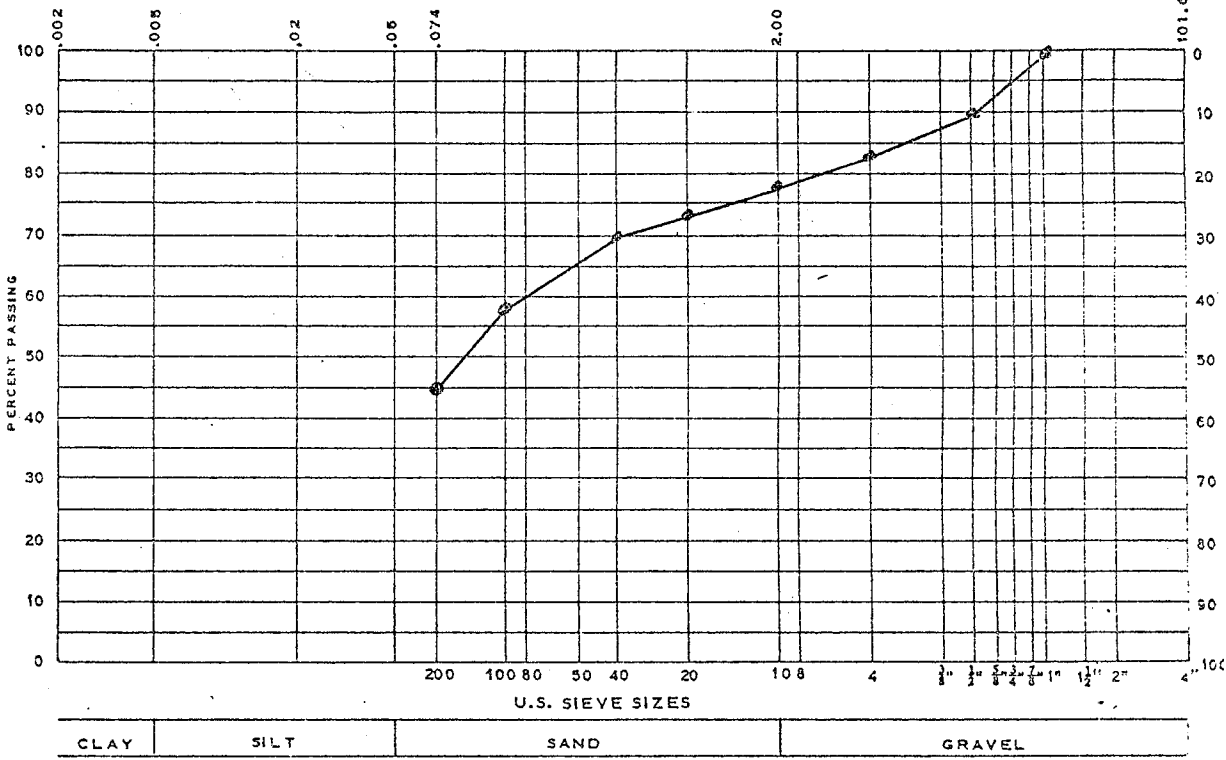
DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SAMPLE NUMBER	
1"	100	# 4 83.2
3/4"	93.2	# 10 78.4
1/2"	90.3	# 20 73.6
3/8"	87.2	# 40 70.2
		# 100 58.0
		# 200 44.6

AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	4.0							
		A-7										
		M.L.										
		SILTY SAND										

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 2375  
 HOLE No. \_\_\_\_\_ DEPTH 6' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 163 LAB SAMPLE No. 2997  
 D. P. W. WHITEHORSE, SOILS LAB J. wt DATE \_\_\_\_\_

MATERIALS ENGINEER'S REMARKS

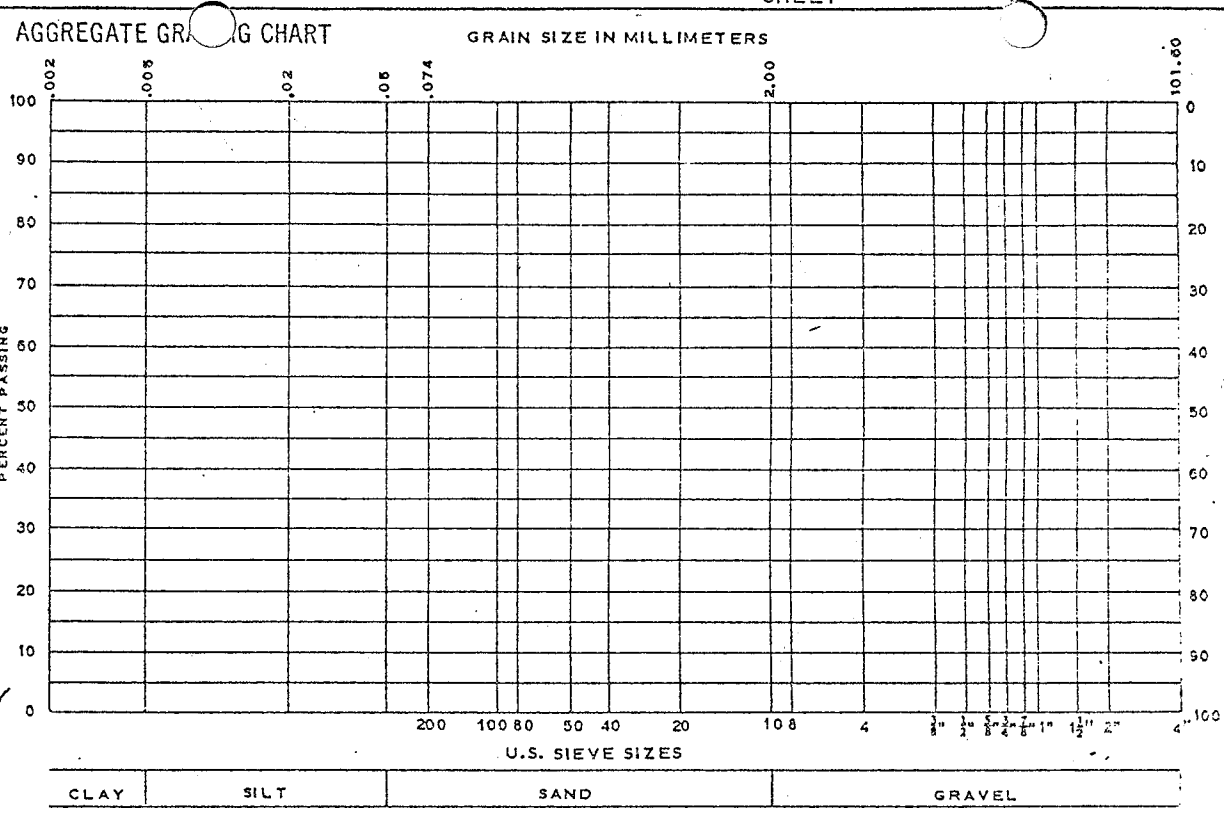
30-3-71

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER Hwy TEST HOLE NO. 149-150-151-152  
 LOGGED BY ED HELANDSON DATE JUNE 69 STATION 2370 2365  
 ENTERED BY G. KOZISKI DATE JULY 69 2360 2355  
 CHECKED BY G. KOZISKI DATE JULY 69 HOLE ADVANCED BY 4" JAGER MOBILE

SAMPLE NO.	% PASSING LIMITS								Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75	No. 0.425						
											0		ROAD FILL	T.H. <u>149</u>
											1			
											2			
162											3		OVER BURDEN	
165											10		FROZEN SILTY CLAY	
											12		FROZEN SANDY GRAVEL	
											14			
											16			
											18			
166											6		ROAD FILL	T.H. <u>150</u>
											10		SANDY GRAVEL SOME	
											14		COBBLES.	
											16			
											18			
167											6		ROAD FILL	T.H. <u>151</u>
											10		SILTY SANDY GRAVEL	
											14		WET.	
											16			
											18			
											20			
											22			
											24			
											26			
											28			
											30			
											32			
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											128			
											130			
											132			
											134			
											136			
											138			
											140			
											142			
											144			
											146			
											148			
											150			
											152			

FINER BY WEIGHT		SIEVE ANALYSIS										
		SAMPLE NUMBER										
81.3% PASSING #200 SIEVE												
%		4"										
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A.	MG SOL.	DSFG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
						% LOSS	% LOSS					
		A-5	4.1	37.1	4.0							
M.L. SANDY SILT WITH LOW PLASTICITY												



#### TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

#### LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY

LOCATION: STA. 2370

HOLE No. \_\_\_\_\_ DEPTH: 6' to 8'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 69

FIELD SAMPLE No. 16A LAB SAMPLE No. 2998

D. P. W. WHITEHORSE - SOILS LAB

J.W.  
26-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

#### FINE AGGREGATE

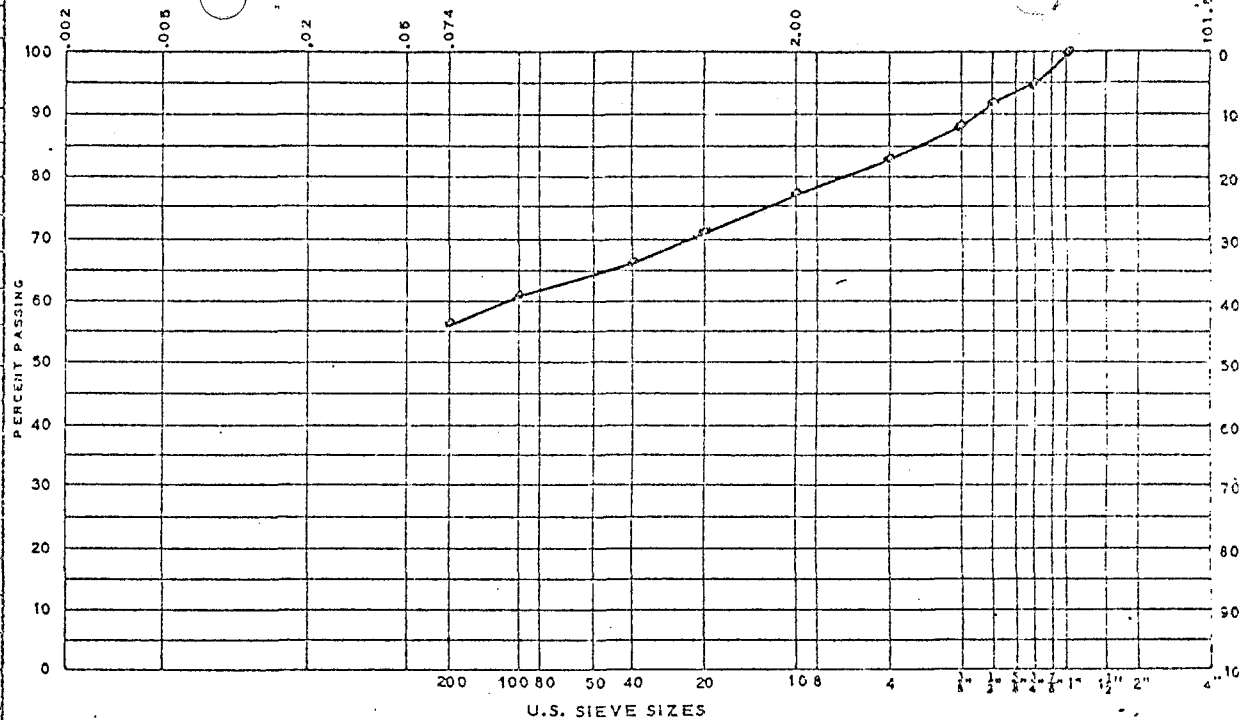
ROCK TYPE	%

#### MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY EIGHT	SIEVE ANALYSIS	
	7/8"	7/16"
1"	100	# 4: 85.6
1 1/4"	95.2	# 10: 76.8
1 1/2"	93.0	# 20: 70.7
1 3/4"	88.6	# 40: 66.7
		# 100: 60.8
		# 200: 55.8

AGGREGATE GRADING CHART



CLAY      SILT      SAND      GRAVEL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			23.9	18.9	4.0							
		A-4										
		M.S.L.										
		SILT - SAND MIXTURE WITH SLIGHT PLASTICITY										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY  
 LOCATION: STA. 2370  
 HOLE No. \_\_\_\_\_ DEPTH: 8' to 12'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 69  
 FIELD SAMPLE No. 165 LAB SAMPLE No. 2999  
 D. P. W. WHITEHORSE - SOILS LAB J.W.

29-3-71

TESTING ENGINEER

DATE

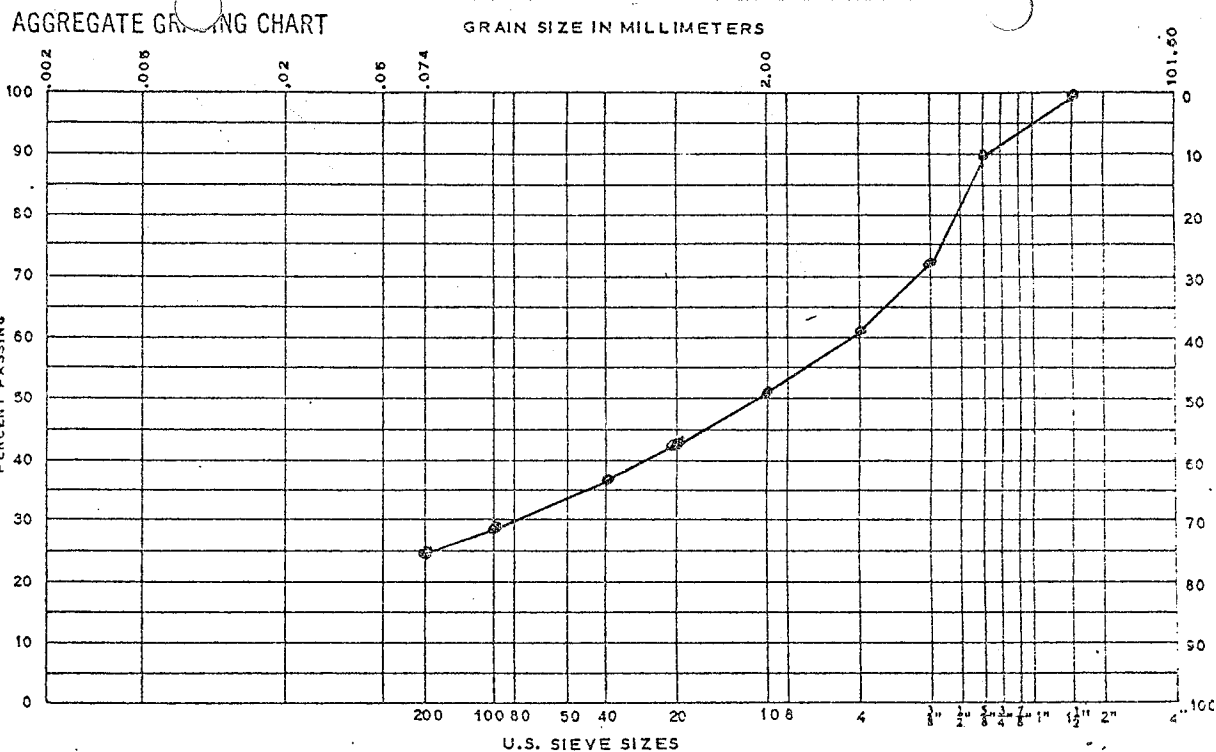
MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

FINER BY WEIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
1 1/2"	100	# 4 60.8
1"	96.2	# 10 51.6
3/4"	90.1	# 20 43.2
1/2"	80.3	# 40 36.9
3/8"	71.8	# 100 29.1
		# 200 24.9



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	D <sub>SPC</sub>	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.8	18.4	3.4							
		A-1-b										
		S.M.										
		SILTY SAND										

CLAY SILT SAND GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT \_\_\_\_\_

LOCATION DEMPSTER HIGHWAY

HOLE No. \_\_\_\_\_ DEPTH 6' to 14'

SAMPLE TYPE STA. 2365 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 166 LAB SAMPLE No. 3000

D. P. W. WHITEHORSE - SOILS LAB D. W.

30-3-71

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

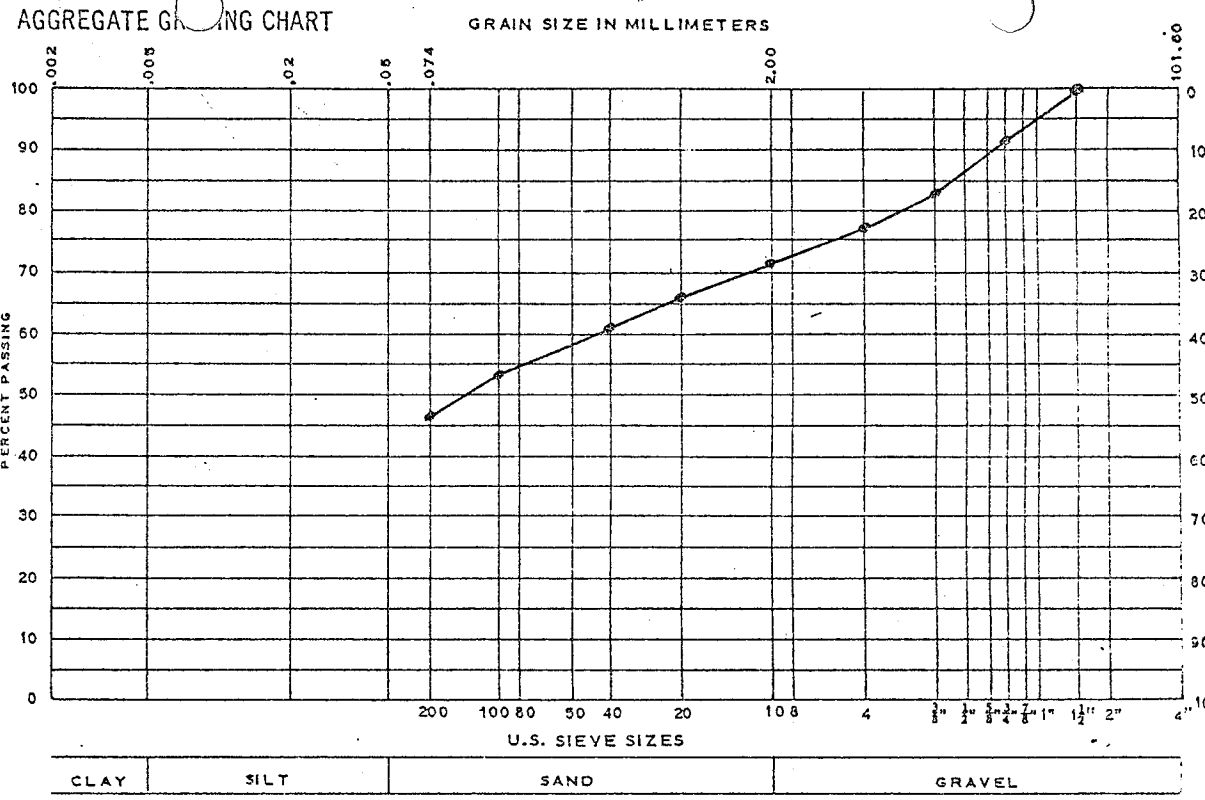
MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

OF

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SAMPLE NUMBER	
7/8"	100	# 4 76.9
1"	96.5	# 10 71.5
3/4"	92.3	# 20 65.7
1/2"	85.4	# 40 61.2
3/8"	83.2	# 100 52.9
		# 200 47.1



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.2	18.0	3.2							
		A-4										
		S.M.										
		SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2360

HOLE No. \_\_\_\_\_ DEPTH 6' to 14'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED \_\_\_\_\_

FIELD SAMPLE No. 167 LAB SAMPLE No. 1

D. P. W. WHITEHORSE - SOILS LAB J. M.

29-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

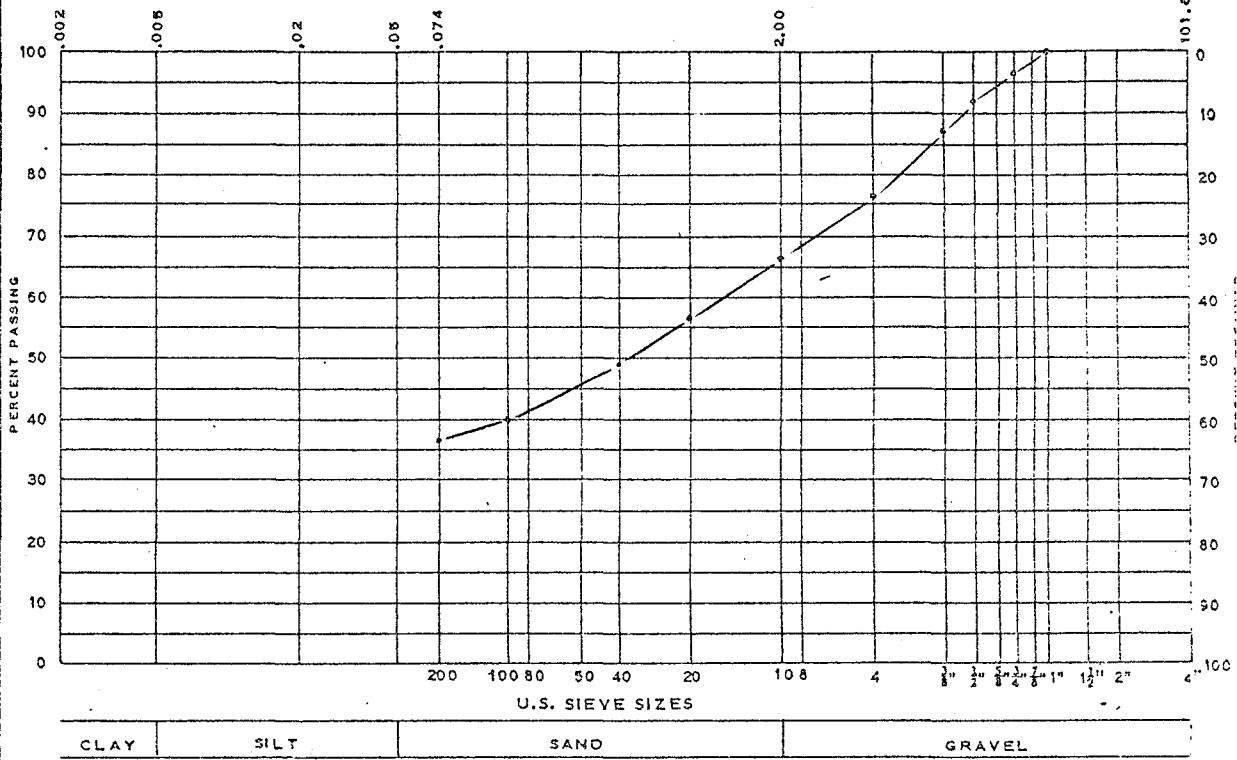
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DECEPSTER HIGHWAY TEST HOLE NO. 153 154 155 156  
 LOGGED BY ED. MELANSON DATE JUNE 69 STATION 2350 2345  
 ENTERED BY E. KORISKI DATE JULY 69 2340 2335  
 CHECKED BY E. KORISKI DATE JULY 69 HOLE ADVANCED BY 4" POWER MOWER

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	P.L.					
168										9 10 15		ROAD FILL  SANDY GRAVEL WET.
169										8 10 15		ROAD FILL  ORGANIC. SILTY SAND. WET.
										7 8 10 13		ROAD FILL  OVERBURDEN SILTY SAND SMALL STONES
170										8 10 15		ROAD FILL  OVERBURDEN. SILTY SAND (DAMP)

FINER BY EIGHT	SIEVE ANALYSIS			
	SAMPLE NUMBER			
100.0	1"	65.8	#10	
76.2	3/4"	55.7	20	
71.7	1/2"	48.7	40	
66.9	3/8"	40.2	100	
75.7	#4	36.4	200	

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSHC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.7	20.7		2.0						
		A-4 S.M. SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEWSTER HILLWAY

LOCATION .....

HOLE No. .... DEPTH .....

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. .... LAB SAMPLE No. 2 & 3

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER [Signature] DATE 25-3-71

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

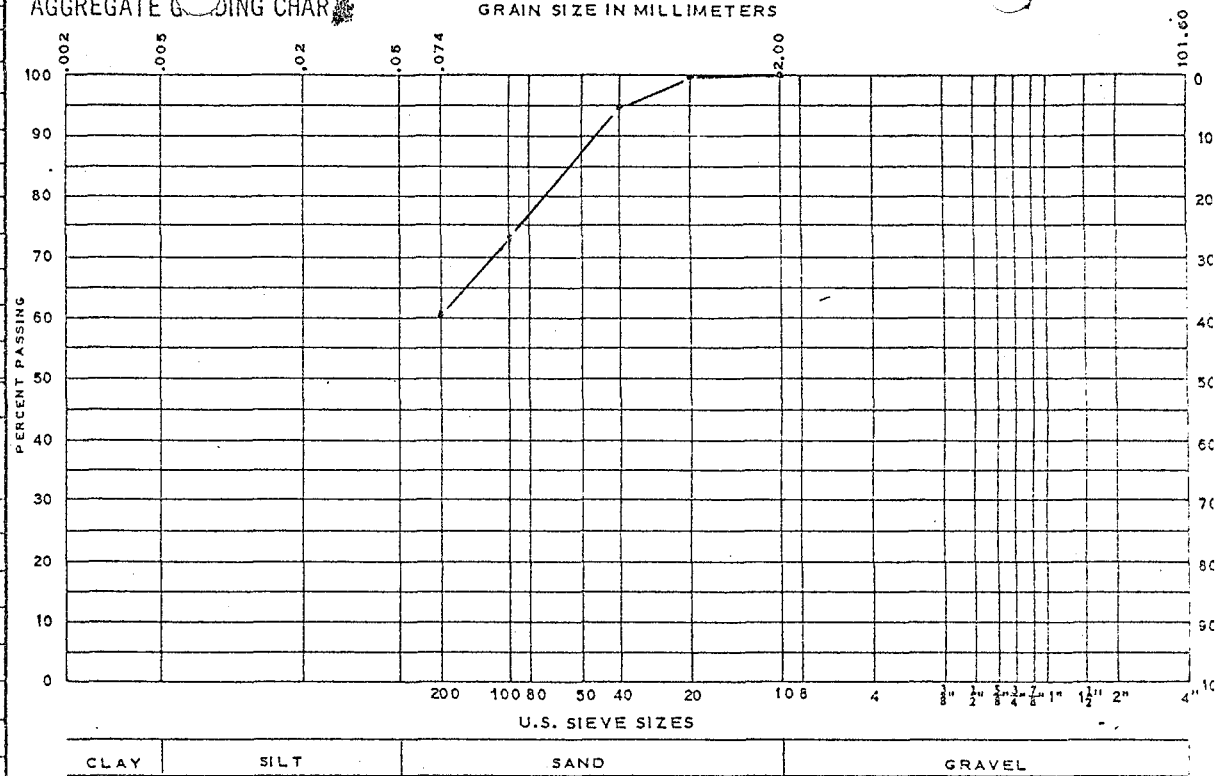
2 - 9'-15" STA. 2350 SAMPLE # 168

3 - 10'-15" " 2345 " # 169.

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

% FINER BY WEIGHT		SIEVE ANALYSIS										
SIEVES		SAMPLE NUMBER										
100.0	#10											
99.3	#20											
94.9	#40											
72.6	#100											
60.8	#200											
% + 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F. M.
		A-A				NA						
		ML										
INORGANIC SILT AND FINE CLAY												

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 2335+00

HOLE No. \_\_\_\_\_ DEPTH 9-15'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUN 26/65

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 192

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

6/26/65  
SA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEWATER RD. Y TEST HOLE NO. 157-158-159-160  
 LOGGED BY ED. MELANSON DATE JUN 29 STATION 2330 2325  
 ENTERED BY G. KURISKI DATE JULY 29 2320 2315  
 CHECKED BY G. KURISKI DATE JULY 29 HOLE ADVANCED BY 1" AUGER NO. 3115

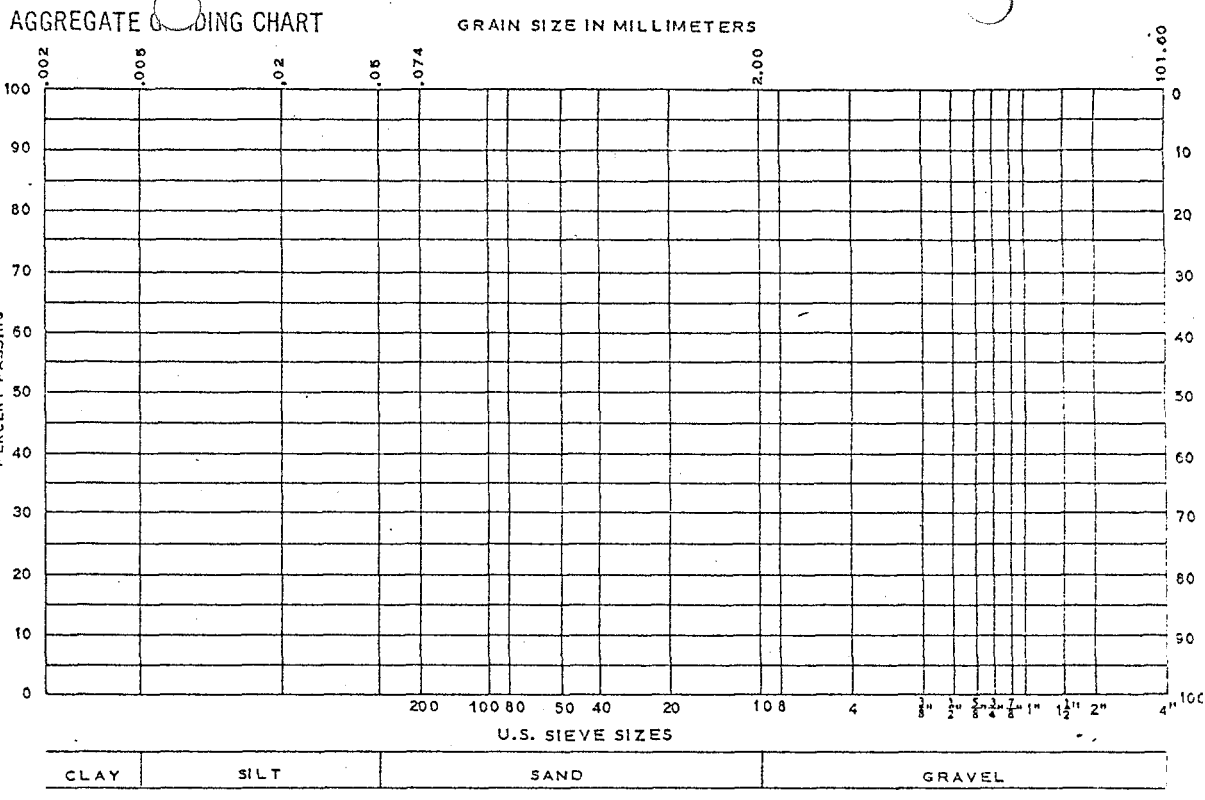
SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	P.L.	P.L.					
												ROAD FILL <span style="float: right;">T.H. 157</span>
171										5		FROZEN ORGANIC.
										9		
										10		FROZEN SILTY SAND.
172										14		
												ROAD FILL <span style="float: right;">T.H. 158</span>
										4		
										6		FROZEN ORGANIC
										10		FROZEN SILT, SAND.
												ROAD FILL <span style="float: right;">T.H. 159</span>
										9		ROAD FILL
173										13		OVERBORDEN
										15		SILTY SAND WET.
												ROAD FILL <span style="float: right;">T.H. 160</span>
										7		
										12		OVERBORDEN
										10		
										15		SILTY SAND WET.

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SAMPLE NUMBER	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		<i>Pk Peat, highly organic material.</i>										



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEAD-END HIGHWAY CONSTRUCTION

LOCATION STA. 2330+00

HOLE No. \_\_\_\_\_ DEPTH 5-8'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED June 69

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 193

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/18/70  
DATE JW

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

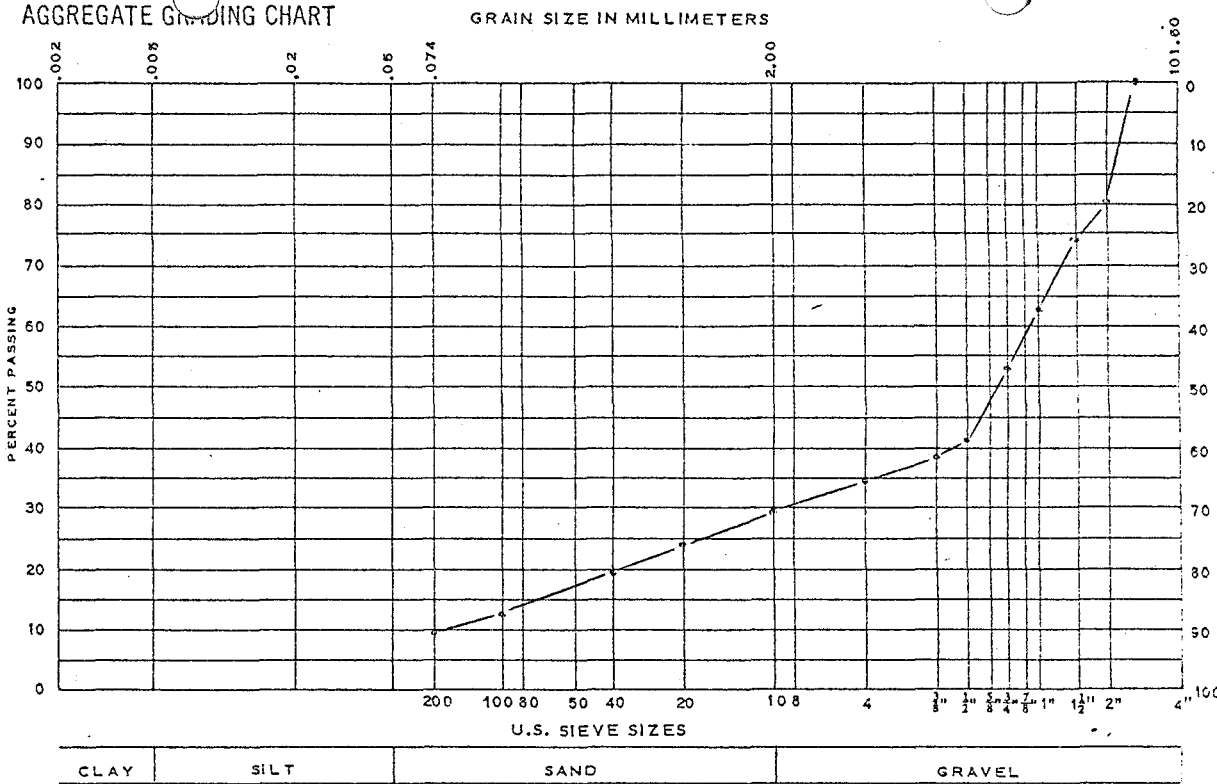


% FINER BY WEIGHT		SIEVE ANALYSIS			
		SIEVE	% FINER	SIEVE	SAMPLE NUMBER
100.0	3"	29.5	#10		
80.4	2"	24.0	#20		
73.6	1 1/2"	19.3	#40		
62.9	1"	12.4	#100		
52.5	3/4"	9.7	#200		
41.4	1/2"				
37.6	3/8"				
34.8	#4				
% + 4"					

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		GP			50							
POORLY-GRADED GRAVEL												

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMONSTRER HIGHWAY CONSTRUCTION  
 LOCATION STA. 2295+00 - 2280+00  
 HOLE No. \_\_\_\_\_ DEPTH 6'-12", 5'-10"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED Jun. 6, 5  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 197  
 D. P. W. WHITEHORSE - SOILS LAB 198

TESTING ENGINEER

6/4/50  
DATE SA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMIDSTER HIGHWAY TEST HOLE NO. 165-166-167-168  
 LOGGED BY ED. MELANSON DATE JUNE 69 STATION 2290 2285  
 ENTERED BY G. KUBISKI DATE JULY 69 2280 2275  
 CHECKED BY G. KUBISKI DATE JULY 69 HOLE ADVANCED BY 4" AUGER MACHINE

SAMPLE NO.	PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
												ROAD FILL. T.H. 165
										5		SHADY GRAVEL SILT.
										10		
												ROAD FILL. T.H. 166
										4.5		SILTY SAND WET.
										10		
										11		
												ROAD FILL. T.H. 167
176										5		COARSE SILTY SAND & GRAVEL COBBLES.
										12		
												ROAD FILL. T.H. 168
										9		SAND GRAVEL WITH COBBLES AND BOLDERS.
										10		
										15		

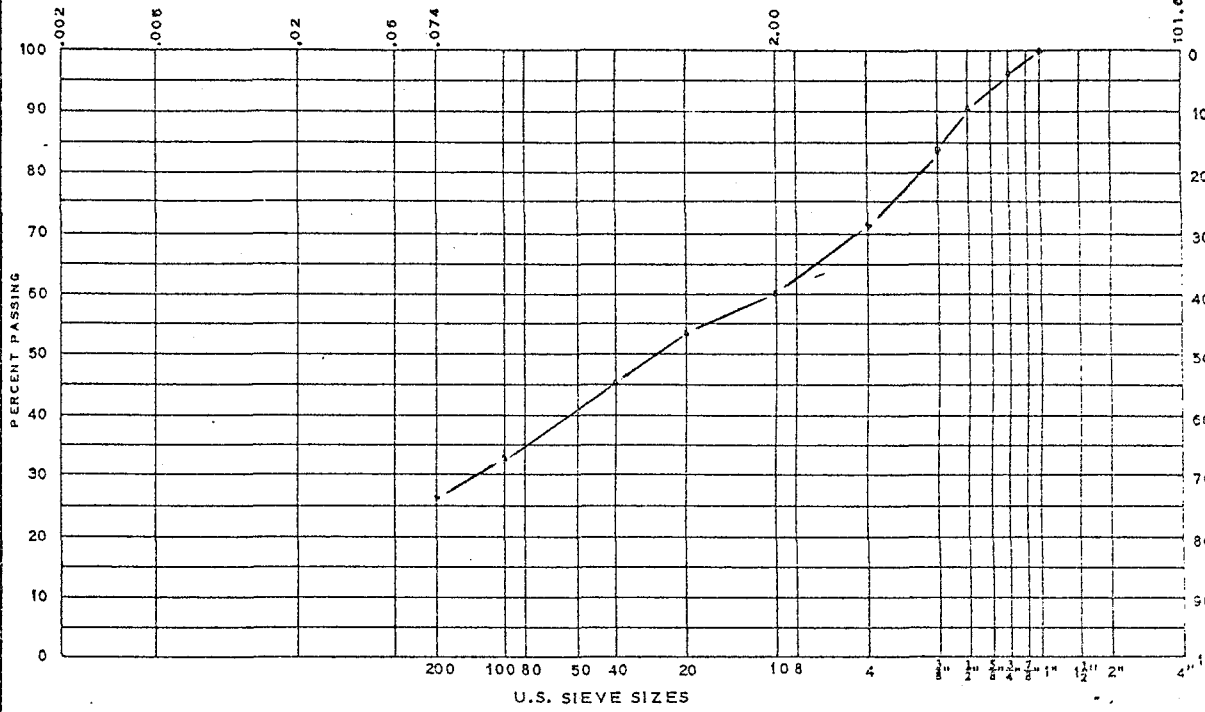


AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	FINER
100.0	1"	60.1 #10
96.1	3/4"	53.1 #20
90.2	1/2"	45.1 #40
83.9	3/8"	32.5 #100
71.3	#4	26.5 #20

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
		A-2-A			00							
		S.M.										
		SILTY SAND										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEPARTMENT OF HIGHWAY CONSTRUCTION  
 LOCATION STA. 2260+00  
 HOLE No. \_\_\_\_\_ DEPTH 4-12'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED June 1968  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 199  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE 6/1/70 *EX*

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMOLITION HIGHWAY TEST HOLE NO. 173 174 175 176  
 LOGGED BY ED. MELANSON DATE JUNE 69 STATION 2250 2245  
 ENTERED BY G. KOBISKI DATE JULY 69 2240 2235  
 CHECKED BY G. KOBISKI DATE JULY 69 HOLE ADVANCED BY 4" AUGER MACHINE

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
												T.H. <u>173</u> ROAD FILL
										8		
										10		BROKEN ROCK. REFUSED
												T.H. <u>174</u> ROAD FILL
										7		
<u>173</u>										10		SANDY CLAY WITH SMALL STONES AND BROKEN ROCK (DAMP)
										12		
												T.H. <u>175</u> ROAD FILL
										6		
										8		OVERBURDEN
										10		FROZEN SANDY CLAY
										12		SMALL STONES.
												T.H. <u>176</u> ROAD FILL
										5		
										6		OVERBURDEN.
<u>174</u>										10		FROZEN ORGANIC SILT,
										11		CLAY.

AGGREGATE DEPOSIT REPORT (Cont'd)

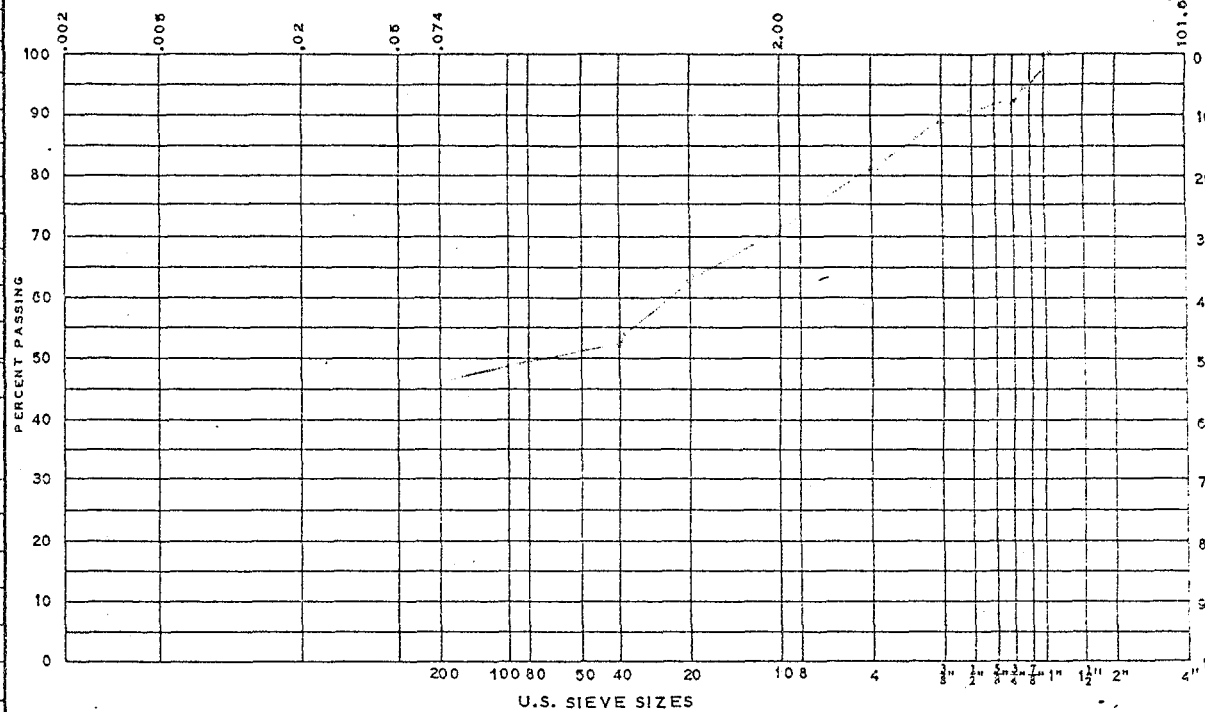
SHEET

OF

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	1"	70.9 #10
93.2	3/4"	64.2 #20
91.9	1/2"	58.7 #40
89.0	3/8"	49.1 #60
80.7	#4	15.7 #200

AGGREGATE BOUNDING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MC SO4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	22.9	19.1	3.8							
		SM										
		SOIL - SAND MIXTURE										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEVELOPER HEADQUARTERS CONSTRUCTION  
 LOCATION STA 2295700  
 HOLE No. \_\_\_\_\_ DEPTH 7'-12"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 16, 70  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 207  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

6/18/70  
SA

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMOLISHED 4021 TEST HOLE NO. 177-178-179-180  
 LOGGED BY A. MILLERSON DATE June 69 STATION 2230 2224  
 ENTERED BY G. KUBISKI DATE July 69 2220 2215  
 CHECKED BY G. KUBISKI DATE July 69 HOLE ADVANCED BY 4" AUGER MOBILE

SAMPLE NO.	PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	P <sub>60</sub>	P <sub>100</sub>					
												T.H. <u>177</u>
									6			ROAD FILL
									10			OVER BURDEN
									12			FROZEN ORGANIC SILT CLAY.
												T.H. <u>178</u>
									5			ROAD FILL
									7			FROZEN ORGANIC OVER BURDEN
<u>180</u>									10			FROZEN SILTY SAND.
									13			
												T.H. <u>179</u>
									4			ROAD FILL
									5			OVER BURDEN
									10			FROZEN SAND SILT AND
									14			SMALL STONES
												T.H. <u>180</u>
									6			ROAD FILL
									8			OVER BURDEN
									10			FROZEN SILTY SAND
									15			WITH SMALL STONES.

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

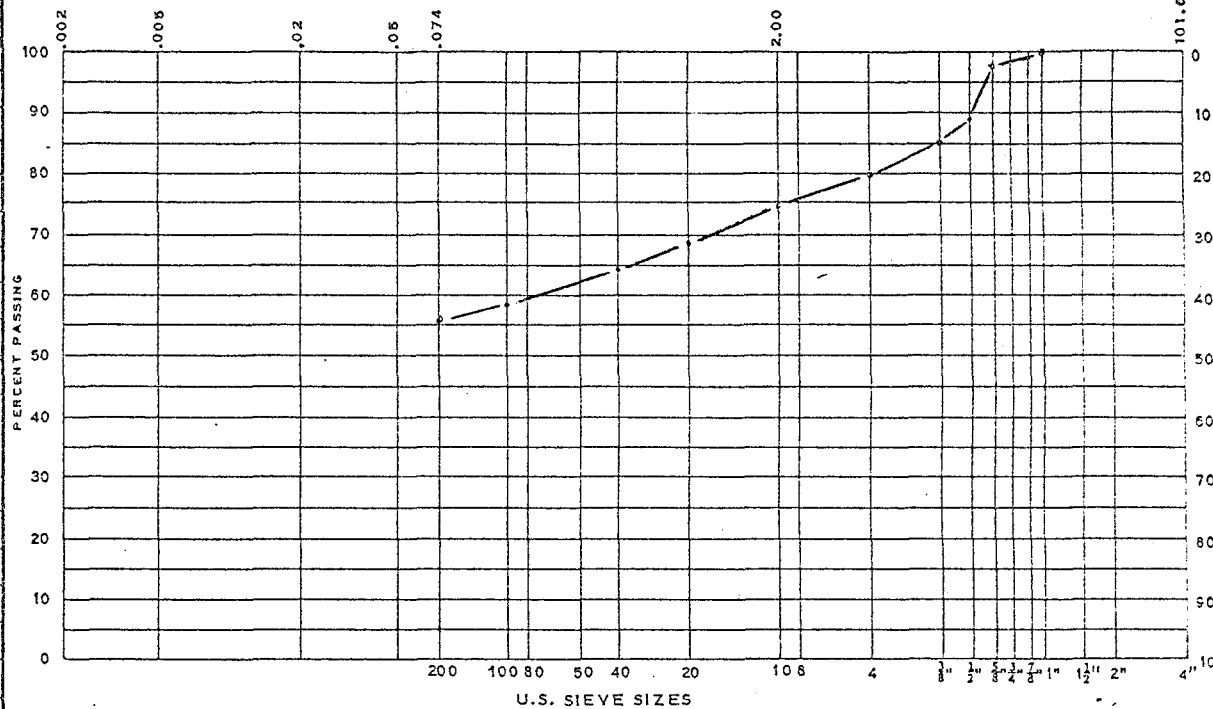
PROJECT DEMOLISHED HIGHWAY TEST HOLE NO. 181 182 183 184  
 LOGGED BY ED. MELANSON DATE JUNE 24 STATION 2210 2205  
 ENTERED BY G. KUBISKI DATE JULY 21 1955  
 CHECKED BY G. KUBISKI DATE JULY HOLE ADVANCED BY 4" AUGER.

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	P. 1	P. 1					
												ROAD FILL T.H. 181
									8			
									10 15		FROZEN SAND CLAY STONES.	
												ROAD FILL T.H. 182
									7		OVERBURDEN	
									10 15		FROZEN SILT, SAND SMALL STONES.	
												ROAD FILL T.H. 183
									7		OVERBURDEN.	
181									10 16		SILT, SAND, CLAY VERY WET SMALL STONES.	
												ROAD FILL T.H. 184
									6		OVERBURDEN.	
182									10 15		FROZEN SAND CLAYEY GRAVEL.	

AGGREGATE DEPOSIT REPORT (Cont'd)

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	1"	74.3 #10
97.3	3/4"	68.7 #20
88.9	1/2"	64.7 #40
85.6	3/8"	58.1 #100
79.5	#4	55.2 #200

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	27	42	18.56							
		MAL										
		INORGANIC SILT AND FINE SAND										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEVELOPMENT HIGHWAY CONSTRUCTION  
 LOCATION STA. 2200+00  
 HOLE No. \_\_\_\_\_ DEPTH 8-16'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED June 6, 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 203  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE 6/2/70

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

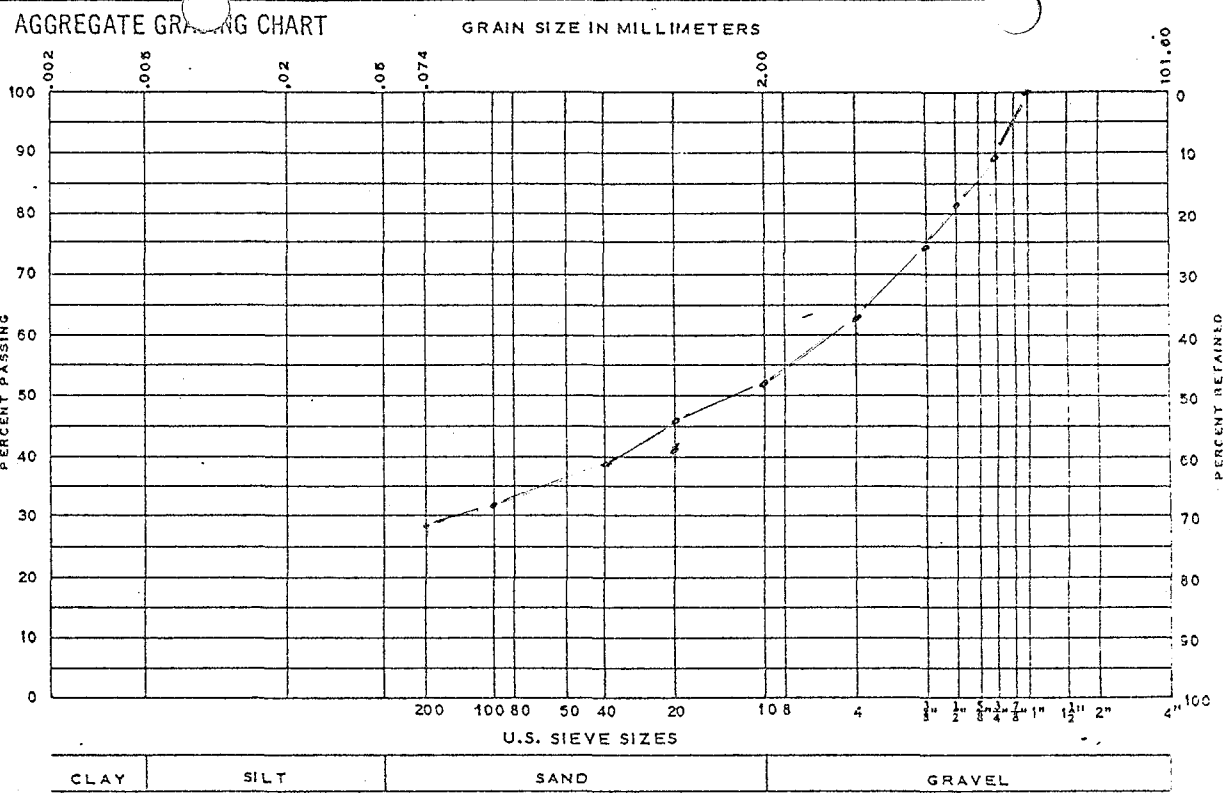
DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS		SAMPLE NUMBER
	SIEVE	% FINER	
100.0	1	53.2	# 10
89.1	3/4	15.1	# 20
80.3	1/2	39.9	# 40
74.7	3/8	31.9	# 100
63.7	# 4	27.8	# 200

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.G. 504 % LOSS	D.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-2-4	27.7	27.0	2.1							
		SM										
		SILTY SAND										



TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT... DEMPSTER HIGHWAY CONSTRUCTION

LOCATION... STATION: 2195 +00

HOLE No. .... DEPTH... 7 1/2' - 15'

SAMPLE TYPE..... DATE SAMPLED JUNE 1967

FIELD SAMPLE No. .... LAB SAMPLE No. 204

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

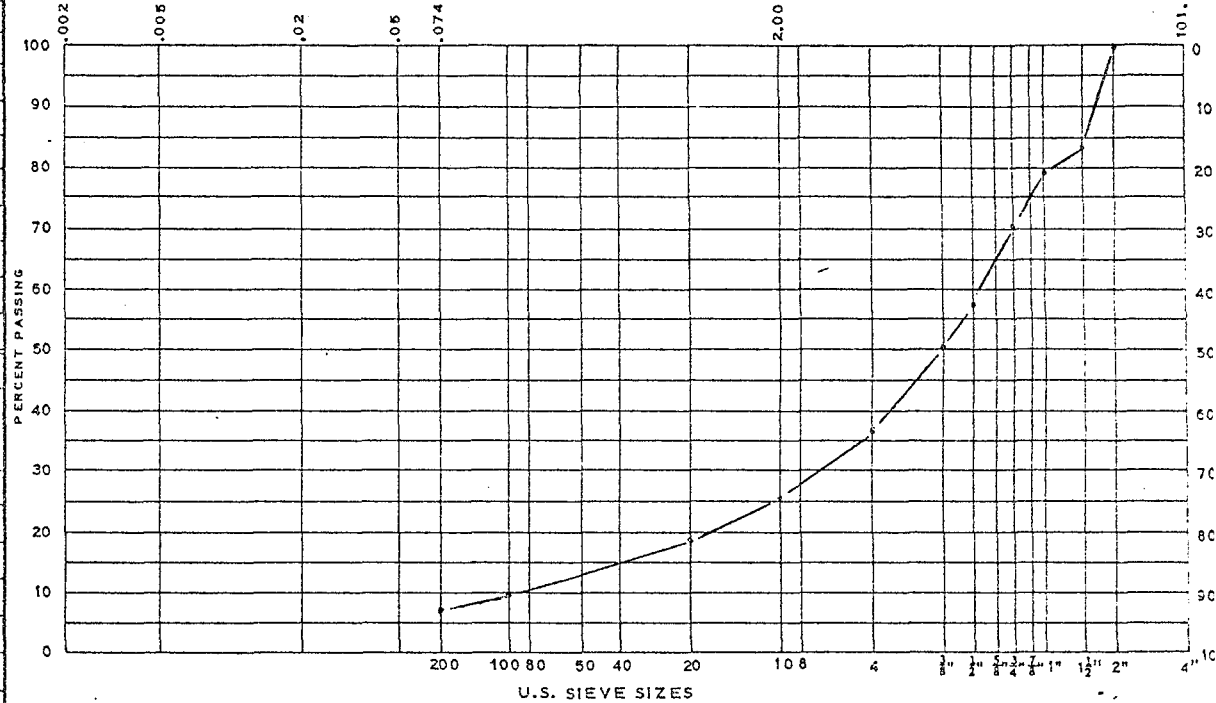
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMOLITION HWY TEST HOLE NO. 185-186-187-188  
 LOGGED BY ED MELHORN DATE JUNE 29 STATION 2190 2195  
 ENTERED BY G. KURISKI DATE JULY 29 2180 2175  
 CHECKED BY G. KURISKI DATE JULY 29 HOLE ADVANCED BY 4" AUGER MOBILE

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
												<div style="text-align: right; border: 1px solid black; padding: 2px;">T.H. <u>185</u></div> ROAD FILL  Overburden  "Frozen" SAND, Clay, Gravel Refusal
									9			
									10			
									14			
												<div style="text-align: right; border: 1px solid black; padding: 2px;">T.H. <u>186</u></div> ROAD FILL  Sandy Gravel Refusal Large Cobbles
183									6			
									9			
									10			
												<div style="text-align: right; border: 1px solid black; padding: 2px;">T.H. <u>187</u></div> ROAD FILL  Refusal Cobbles
									6			
									10			
									11			
												<div style="text-align: right; border: 1px solid black; padding: 2px;">T.H. <u>188</u></div> ROAD FILL  Overburden Silt, Sand, Gravel, Refusal
									0			
									5			
									10			

% FINER BY WEIGHT	SIEVE ANALYSIS		SAMPLE NUMBER
	SIEVE	% FINER	
100.0	2"	25.9	#10
83.3	1 1/2"	18.7	#20
79.8	1"	14.3	#40
70.9	3/4"	9.2	#100
57.2	1/2"	7.1	#200
50.3	3/8"		
36.1	#4		

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ADSORB.	F.M.
		A-1-a										
		GW										
		WELL-GRADED GRAVEL										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DENVER HIGHWAY CONSTRUCTION  
 LOCATION: STA. 2185+10 &  
 HOLE No. \_\_\_\_\_ DEPTH: 6-9  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 1962  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 205  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

6/14/62  
SA

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

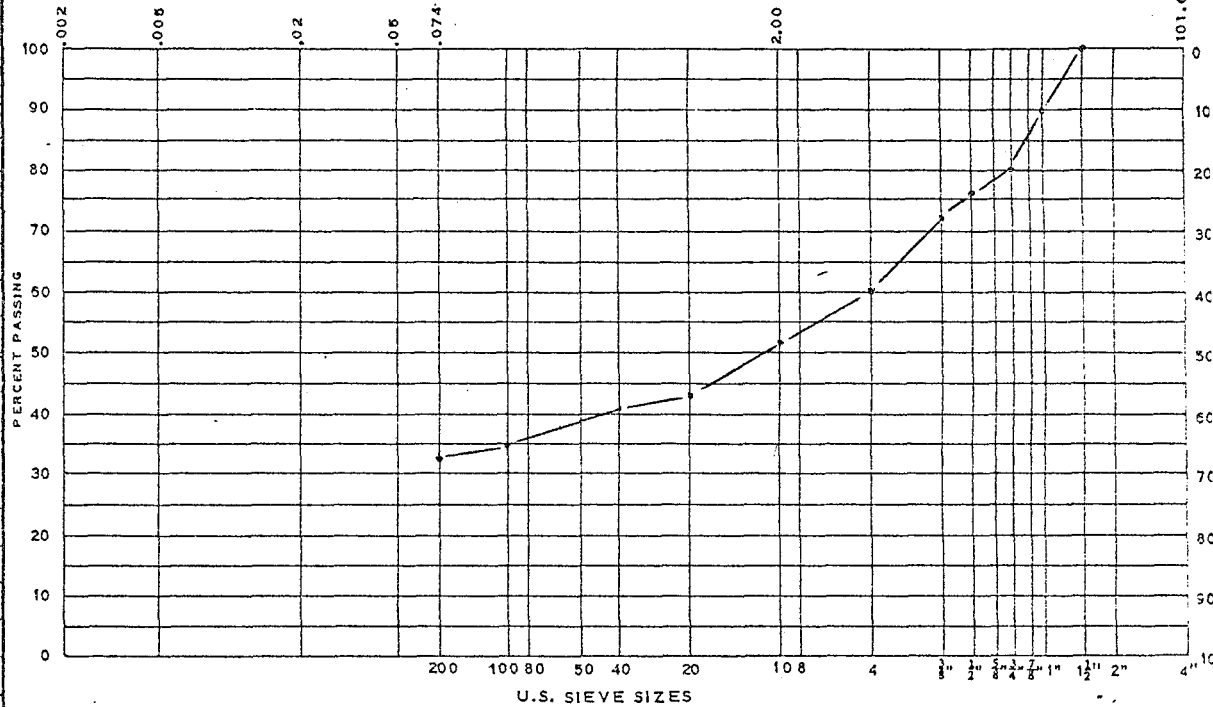
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER Hwy TEST HOLE NO. 189-190-191-192  
 LOGGED BY Ed Melanson DATE June 1/69 STATION 2170-2165  
 ENTERED BY J. Cairns DATE Aug 8/69 2160-2155  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Auger Machine

SAMPLE NO.	% PASSING LIMITS						Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	P <sub>20</sub>	P <sub>10</sub>					
									0		T.H. <u>189</u>
									8		Road Fill
									10		Refusal, sand, gravel, cobbles
									12		
									0		T.H. <u>190</u>
									6		Road Fill
									7		Overburden
<u>184</u>									10		small stones, Silt, Sandy Clay
									11		Large Cobbles
									0		T.H. <u>191</u>
									9		Road Fill
									12		Overburden
									11		Silt, sand, Small Stones, Large Cobbles, Refusal
									16		
									0		T.H. <u>192</u>
									6		Road Fill
									7		Overburden (Damp)
<u>185</u>									10		Silty Clay, Small Stones
									14		

% FINER BY WEIGHT	SIEVE ANALYSIS		SAMPLE NUMBER
	SIEVE	% FINER	
100.0	1 1/2"	51.8	#10
89.8	1"	43.2	#20
80.1	3/4"	41.1	#40
76.3	1/2"	34.9	#100
72.1	3/8"	32.4	#200
60.1	#4		

AGGREGATE BOUNDING CHART



CLAY      SILT      SAND      GRAVEL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-2-4	38.0	33.1	5.7							
		SMA										
		SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEVELOPER HIGHWAY CONSTRUCTION  
 LOCATION STA. 216.5+00 ±  
 HOLE No. \_\_\_\_\_ DEPTH 7-11'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED June 6, 70  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 206  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE 6/8/70

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

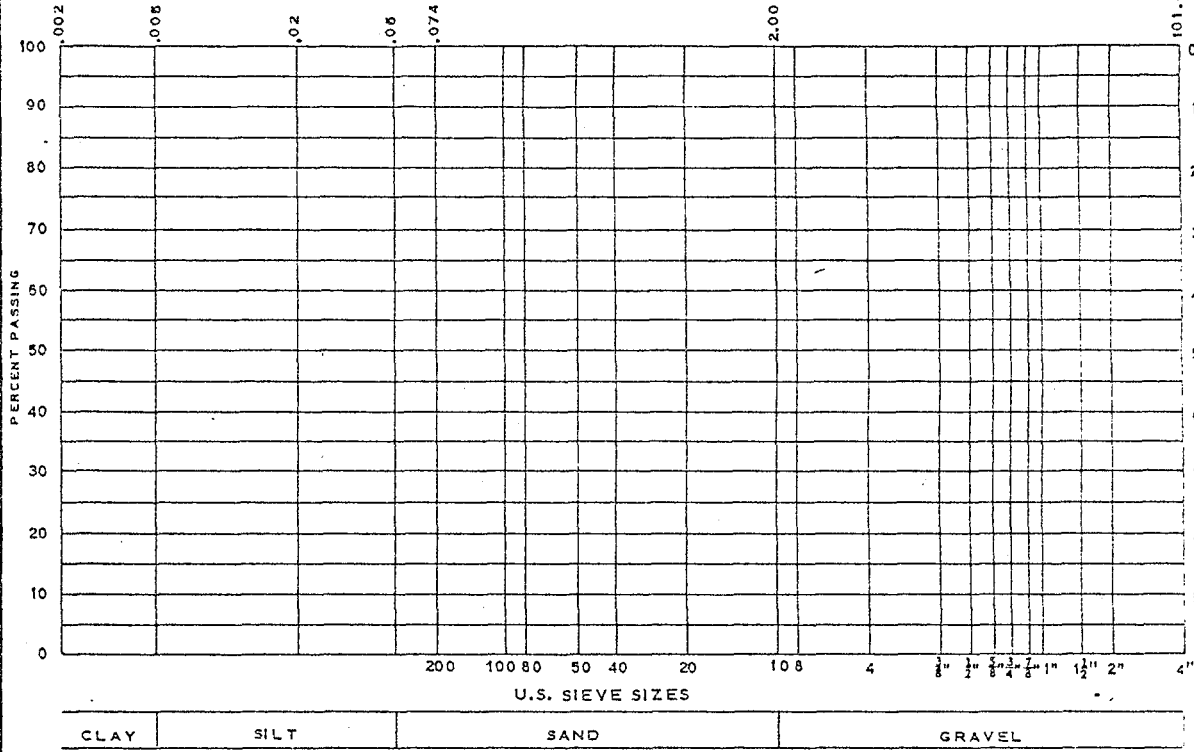
DATE

# AGGREGATE DEPOSIT REPORT (Cont'd)

% FINER BY WEIGHT		SIEVE ANALYSIS										
		SAMPLE NUMBER										
> 75% PASSING # 200												
% + 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	U.A. % LOSS	MG 504 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		4-7-5	46.5	32.3	14.2							
		ML										
		MEDIUM PLASTIC SAND										

## AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



### TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DORSETT HIGHWAY CONSTRUCTION

LOCATION: STA 21557.00

HOLE No. \_\_\_\_\_ DEPTH: 2-1'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 19

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 20.7

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE 6/19/20

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 193-194-195-196  
 LOGGED BY ED. MELANSON DATE June 1/69 STATION 2150 - 2145  
 ENTERED BY T. CAIRNS DATE Aug 2/69 2140 - 2135  
 CHECKED BY JK DATE Aug 11/69 HOLE ADVANCED BY 4" AUGER MOBILE

SAMPLE NO.	% PASSING LIMITS						Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	P. 200	P. 10					
									0	Road	T.H. 193
									5	Fill	
									10	Overburden	
									14	"Wet" silty clay small stones	
									0		T.H. 194
									5	Road	
									10	Fill	
									15	"Wet" silty clay	
									0	Road	T.H. 195
									5	Fill	
1869									8	Refusal, Dry Sandy Gravel	
									10	Cobbles	
									0	Road Fill	T.H. 196
									2	Refusal, Sand,	
									5	Gravel, large cobbles	
									10		

% FINER BY WEIGHT		SIEVE ANALYSIS	
		SAMPLE NUMBER	
SIEVE	% FINER	SIEVE	
107.0	1 1/2"	70.1	# 10
94.9	1"	64.6	# 20
94.2	3/4"	60.6	# 40
89.5	1/2"	50.8	# 100
83.6	3/8"	43.6	# 20
76.0	# 4		

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A.	M.C.S.O.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
						% LOSS	% LOSS				
		A-4	15.8	14.0	1.8						
		ML									
INORGANIC SILT AND FINE SAND											

TYPICAL PETROGRAPHIC ANALYSIS

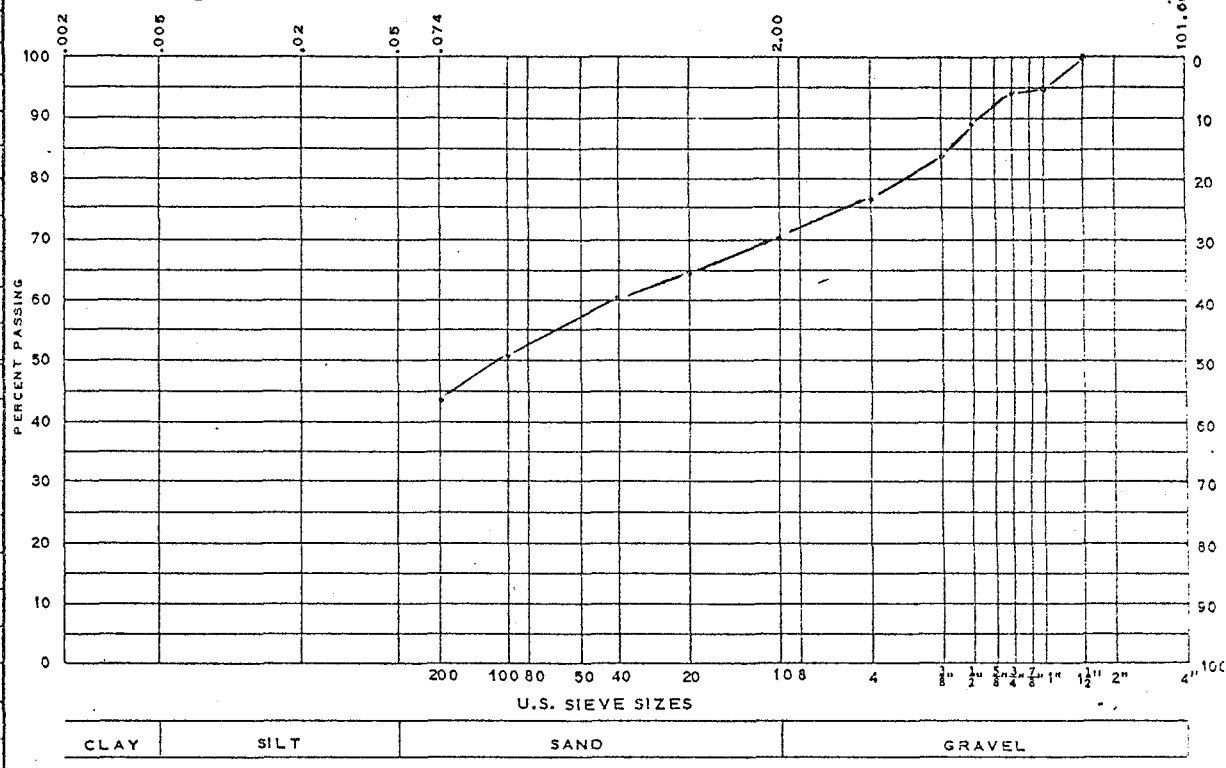
COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

AGGREGATE GRADING CHART



LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION: STA. 21+00 TO 00 ±  
 HOLE No. \_\_\_\_\_ DEPTH: 3'-8"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: June 16, 62  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 208  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE: 6/17/62 SA

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 197-198-199-200  
 LOGGED BY ED MELANSON DATE JUNE 16/67 STATION 2130 - 2125  
 ENTERED BY J. CAIRNS DATE AUG 8/67 2120 - 2115  
 CHECKED BY [Signature] DATE \_\_\_\_\_ HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	PASSING LIMITS						Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1					
								0			
								4			Road Fill <span style="float:right">T.H 197</span>
								8			Refusal, Sandy Gravel, Cobbles
								10			
								0			
								6			Road Fill <span style="float:right">T.H 198</span>
								10			Refusal, Sand, Gravel, Cobbles
								11			
								0			
								4			Road Fill <span style="float:right">T.H 199</span>
								10			Sand, Gravel, Cobbles Refusal
								0			
								4			Road Fill <span style="float:right">T.H 200</span>
								9			Sand, Gravel, Large Cobbles Refusal
								10			

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMASTER HWY TEST HOLE NO. 201-202-203-204  
 LOGGED BY ED MELANSON DATE JUNE 19 STATION 2110-2105  
 ENTERED BY J. CAIRNS DATE AUG 8/69 2100  
 CHECKED BY M.K. DATE Aug 14/69 HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS						Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1					
									0		T.H. 201
									6		Road Fill
									10		Refusal, Sandy Gravel, Cobbles
									0		T.H. 202
									7		Road Fill
									9		Organic Overburden
									10		Sandy Gravel, Large Stones
									12		Refusal
									0		T.H. 203
									12		Road Fill
									13		Silty Sandy Gravel, Large Cobbles
									13		Refusal
									10		T.H. <del>204</del>

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT Dempster Hwy TEST HOLE NO. 204-205-206-207  
 LOGGED BY Ed Melanson DATE June 23/69 STATION 2095 - 2090  
 ENTERED BY J. Cairns DATE Aug 11/69 2085 - 2080  
 CHECKED BY [Signature] DATE \_\_\_\_\_ HOLE ADVANCED BY 4" Auger Mobile

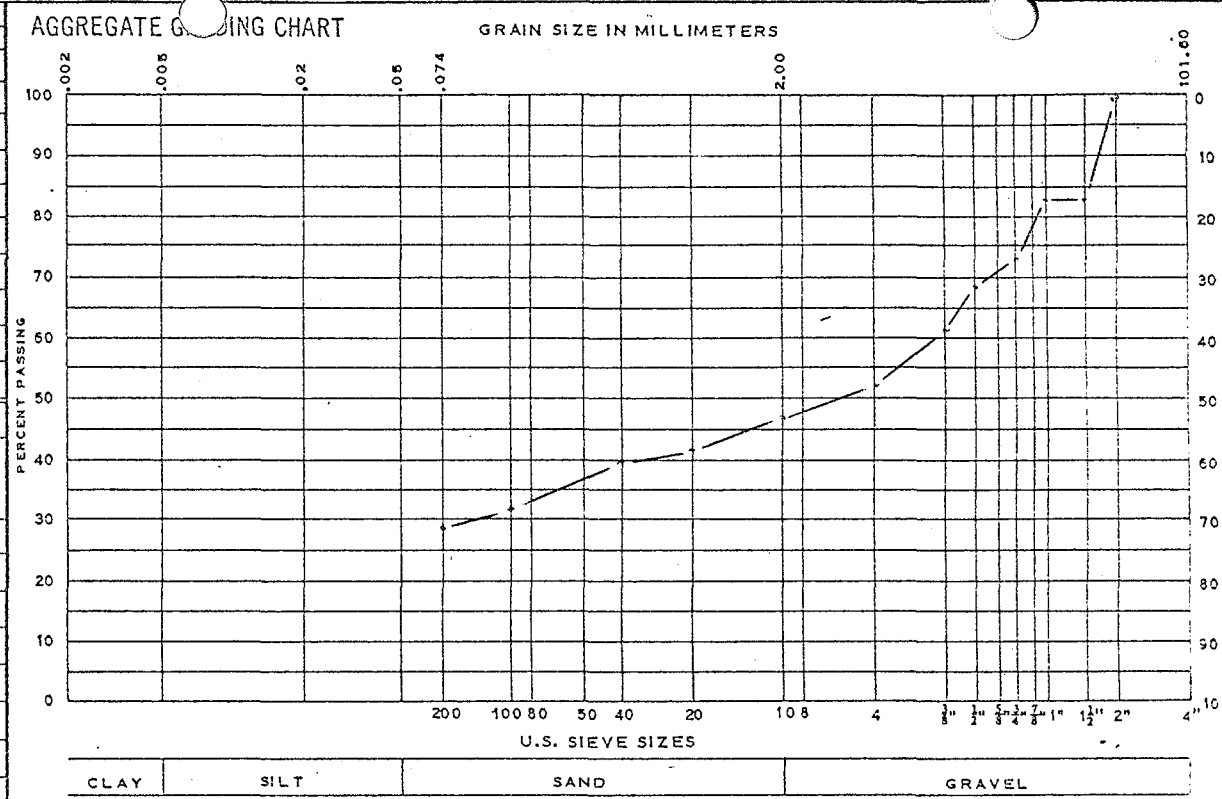
SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.I.					
										5		Road Bed
												Silt, Sand, Gravel
												Large Csbles
185										10		
										5		Road Fill
												T.H. 205
										5		Overburden
												Silt, Sand, Gravel
										10		
										11		
										4		Road Fill
												T.H. 206
										6		Overburden
												"Frozen" sandy clay
186										10		Small stones
										13		
										7		Road Fill
												T.H. 207
										5		Overburden
												Frozen sand, clay
												Small Stones
										10		

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

OF

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	2"	46.5
83.1	1 1/2"	42.3
83.1	1"	39.1
72.9	3/4"	31.8
62.6	1/2"	28.5
60.7	3/8"	
52.4	#4	



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DspG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
		A-2-4				15.9	15.3	0.6				
		SM										
		SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DENVER HIGHWAY CONSTRUCTION  
 LOCATION STA. 2095+00  
 HOLE No. \_\_\_\_\_ DEPTH 5'-10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED June 16, 69  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 209  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

3/4/70  
EA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

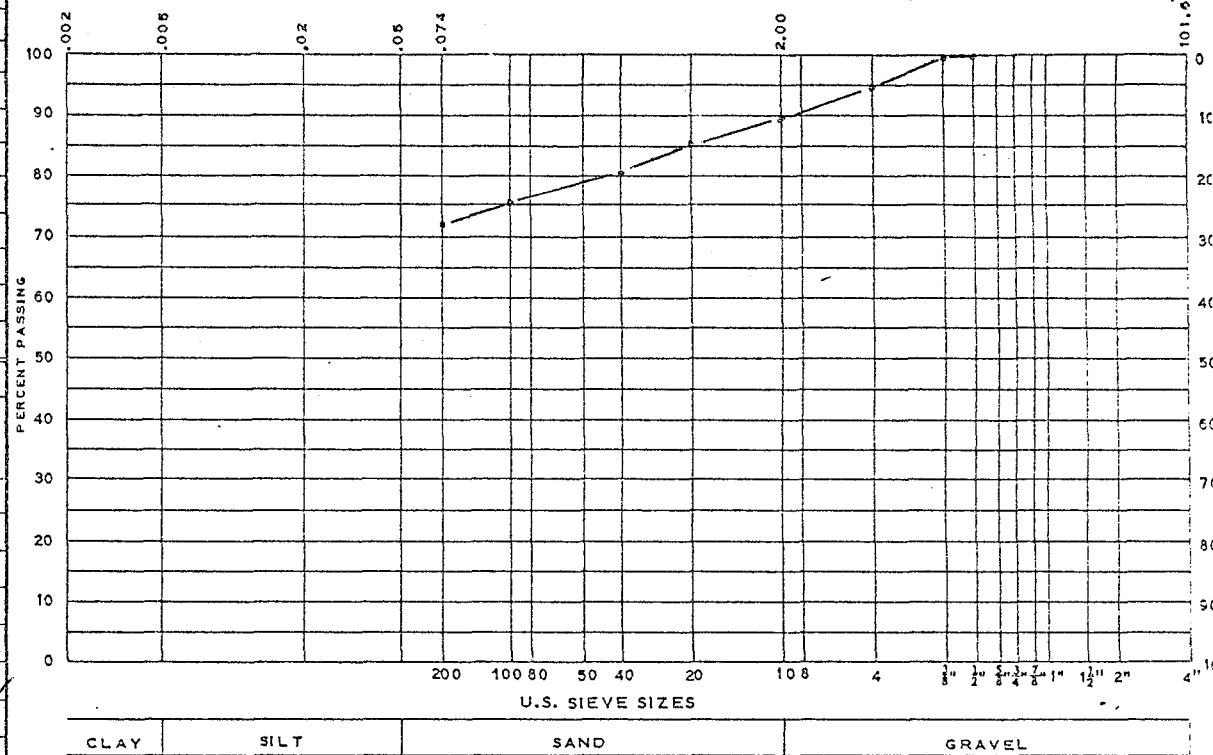
OF

% FINER BY WEIGHT		SIEVE ANALYSIS									
Sieve		SAMPLE NUMBER									
100.0	1/2"										
99.2	3/8"										
94.7	#4										
89.5	#10										
85.4	#20										
80.8	#40										
75.5	#100										
72.6	#200										
% + 4"											

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	USPC	COLOR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	27.7	12.9	10.3							
		CL										
INORGANIC CLAY OF LOW TO MEDIUM PLASTICITY												

AGGREGATE BOUNDING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEARBORN HIGHWAY CONSTRUCTION  
 LOCATION STA. 2085+00  
 HOLE No. \_\_\_\_\_ DEPTH 6'-13'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 6, 68  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 210  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

CLP/10  
DATE 5/8

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

OF

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	2"	44.2
79.8	1 1/2"	38.4
65.9	1"	33.8
61.7	3/4"	24.1
56.7	1/2"	18.9
53.8	3/8"	
49.9	"#4	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
		A-1-b										
		GM										
		SILTY SAND AND GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

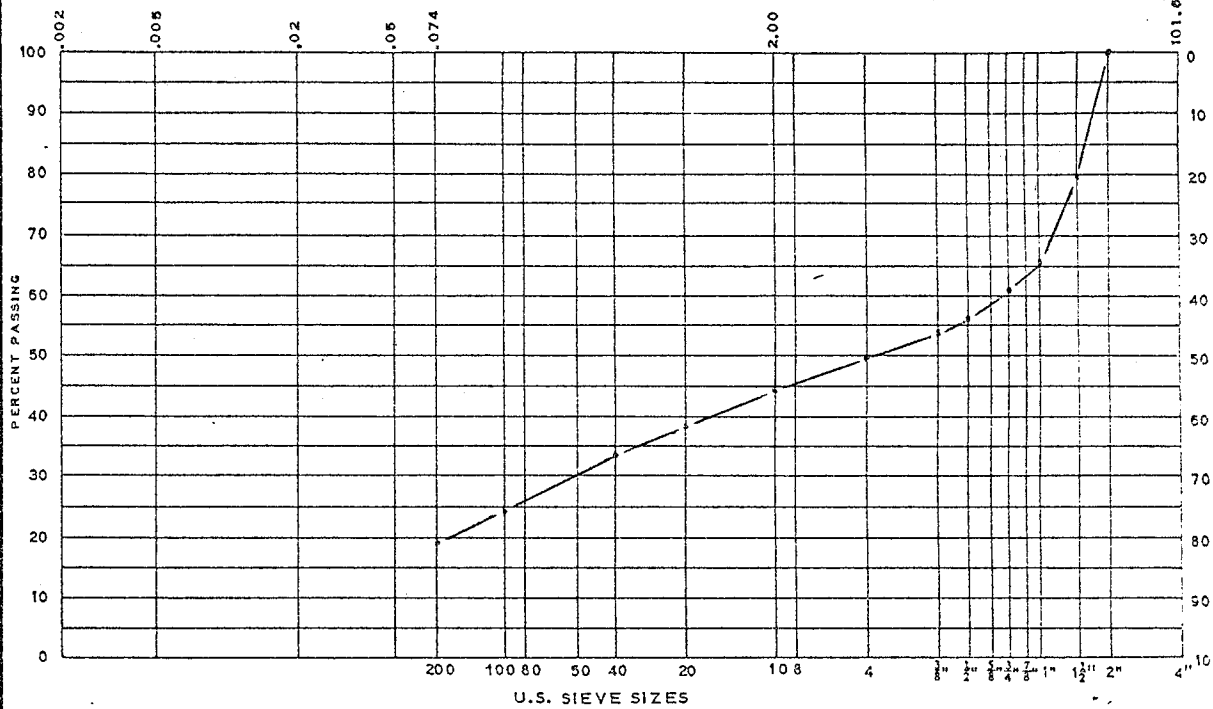
COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

AGGREGATE GOING CHART



U.S. SIEVE SIZES: 200, 100, 80, 50, 40, 20, 10, 7.5, 6, 4.75, 3.75, 3, 2.5, 2, 1.5, 1.18, 0.85, 0.6, 0.425, 0.3, 0.25, 0.15, 0.075, 0.075, 0.075

CLAY      SILT      SAND      GRAVEL

LABORATORY'S REMARKS

PROJECT DENVER AIRPORT CONSTRUCTION  
 LOCATION STR 2075100 2  
 HOLE No. \_\_\_\_\_ DEPTH 6'-14"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED June 1970  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 211  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

6/19/70 SD

MATERIALS ENGINEER'S REMARKS



AGGREGATE DEPOSIT REPORT (Cont'd)

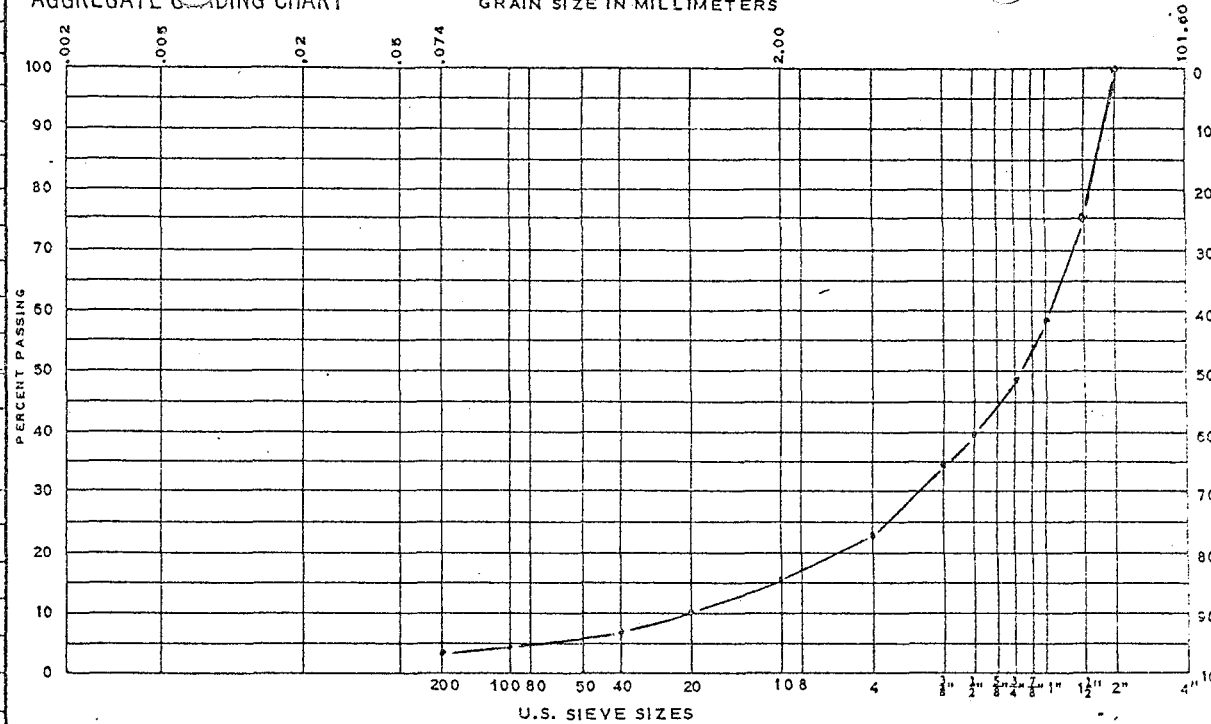
SHEET

OF

% FINER BY WEIGHT		SIEVE ANALYSIS	
SIEVE	% FINER	SIEVE	SAMPLE NUMBER
100.0	2"	15.4	# 10
74.5	1 1/2"	10.3	# 20
58.4	1"	7.1	# 40
48.5	3/4"	4.5	# 100
39.4	1/2"	3.6	# 200
34.3	3/8"		
22.6	# 4		

NOTE: INSUFFICIENT SUFFICIENT MATERIAL FOR FURTHER TESTING.

AGGREGATE GRADING CHART



CLAY      SILT      SAND      GRAVEL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 504 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a										
		GW										
		WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION: STA. 2060+00  
 HOLE No. .... DEPTH: 6'-10"  
 SAMPLE TYPE ..... DATE SAMPLED: JUNE 1969  
 FIELD SAMPLE No. .... LAB SAMPLE No. 213  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE: 6/14/70

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 212-213-214-215  
 LOGGED BY Ed Melanson DATE June 23/69 STATION 2055 - 2060  
 ENTERED BY J. Cairns DATE Aug 11/69 2045 - 2040  
 CHECKED BY ML DATE \_\_\_\_\_ HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.L.						
										4		Road Fill Sandy Gravel Cobbles.	T.H. 212
										10			
										5		Road Fill Sandy Gravel Cobbles Refusal	T.H. 213
										10			
										6		Road Fill Frozen, sandy gravel Cobbles	T.H. 214
										10			
										11			
										8		Road Fill	T.H. 215
										10		Overburden	
190										14		?	

AGGREGATE DEPOSIT REPORT (Cont'd)

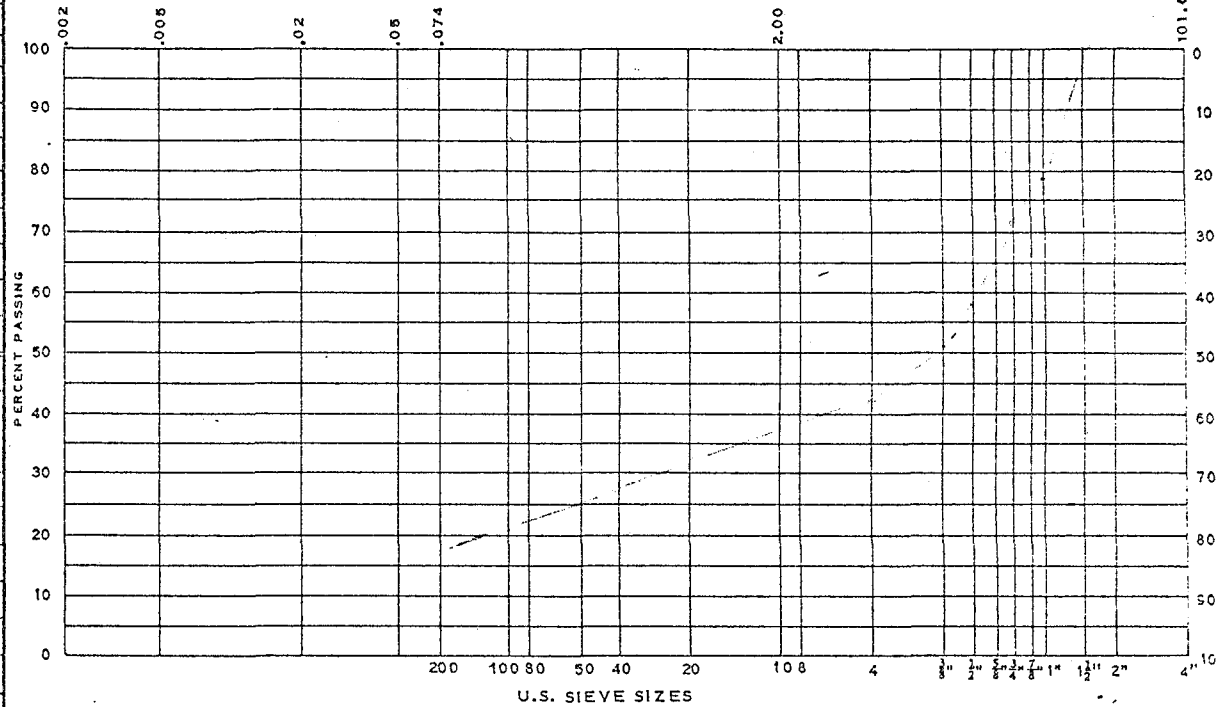
SHEET

OF

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	PERCENT FINER
100.0	1 1/2"	37.1 #10
79.3	1"	31.6 #20
71.4	3/4"	27.9 #40
58.1	1/2"	21.3 #100
50.9	3/8"	17.4 #200
43.7	#4	

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY	SILT	SAND	GRAVEL
------	------	------	--------

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
		D-1-G GM SILT & GRAVEL			00							

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMOLITION HIGHWAY CONSTRUCTION  
 LOCATION STA. 2040+00  
 HOLE No. \_\_\_\_\_ DEPTH 9'-14"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED June 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 21A  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

6/17/70  
SA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 216-217-218-219  
 LOGGED BY Ed. Melanson DATE June 23/69 STATION 2035 - 2030  
 ENTERED BY J. Cairns DATE Aug 11/69 2025 - 2020  
 CHECKED BY J.K. DATE \_\_\_\_\_ HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS			L.L.	P.L.	P.I.	Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10								
									4		Road Fill
									10		Sandy Gravel Cobbles
									6		Road Fill
									10		
									4		Road Fill
									10		
									10		Road Fill
									12		

T.H. 216

T.H. 217

T.H. 218

T.H. 219

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 220-221-222-223  
 LOGGED BY Ed. Helanson DATE June 27/67 STATION 7013-2010  
 ENTERED BY J. Cairns DATE Aug 11/67 2005-2000  
 CHECKED BY J.H. DATE \_\_\_\_\_ HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS				L.L.	P.L.	P.I.	Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4								
												T.H. <u>220</u>
										10		Road Fill
												T.H. <u>221</u>
										2		Road Fill
										10		
												T.H. <u>222</u>
										5		Road Fill
										10		
												T.H. <u>223</u>
										10		Road Fill
										20		

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 224-225-226-227  
 LOGGED BY Ed Helanson DATE June 23/69 STATION 1995-1990  
 ENTERED BY J. Cairns DATE Aug 11/69 1985-1980  
 CHECKED BY J.H. DATE \_\_\_\_\_ HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING			LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.					
											T.H. <u>224</u>
											Road Fill
									10		
									13		
											T.H. <u>225</u>
											Road Fill
									10		
									16		
											T.H. <u>226</u>
											Road Fill
									9		
									10		
											T.H. <u>227</u>
											Road Fill
									10		
									18		

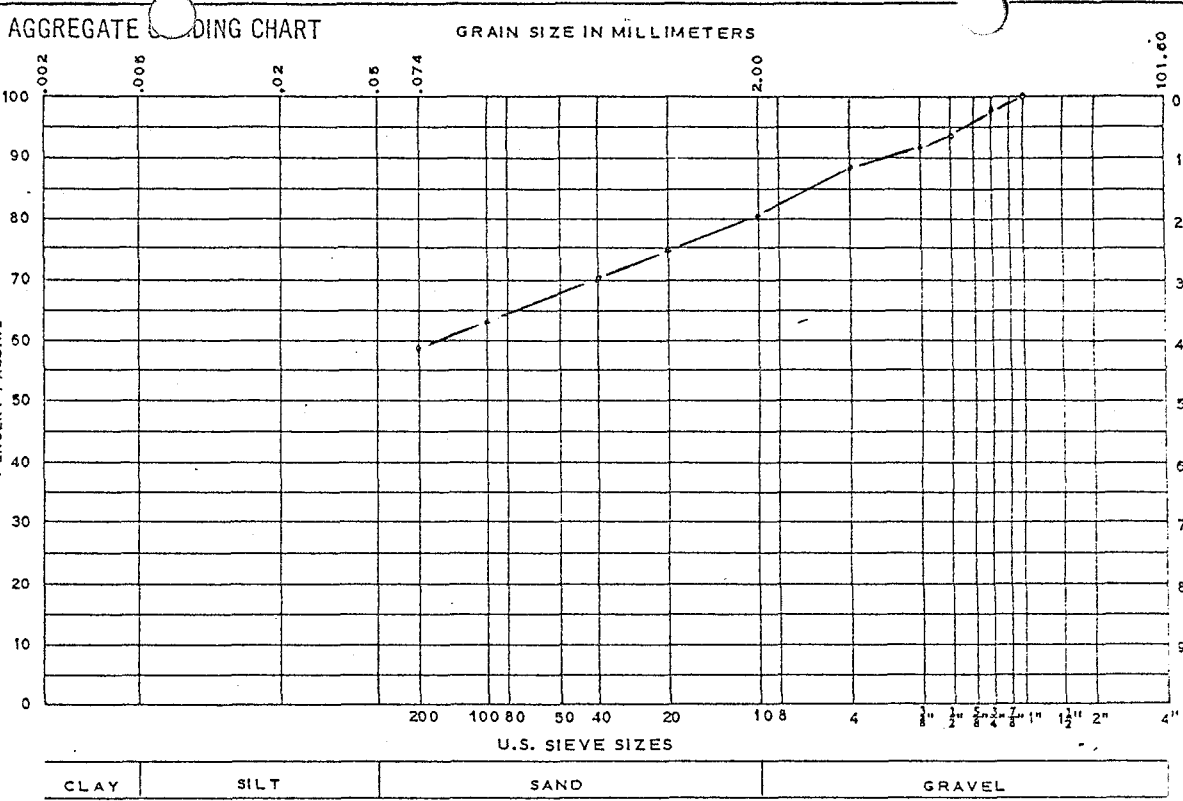
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 228-229-230-231  
 LOGGED BY Ed Melanson DATE June 23/69 STATION 1975 - 1970  
 ENTERED BY J. Cairns DATE Aug 11/69 1965 - 1960  
 CHECKED BY M.H. DATE Aug 11/69 HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L	P.L	P.L					
										7		<del>Road Fill</del> T.H. 228 Road Fill SIDE HILL CUT
										10		
										12		
										4		Road Fill T.H. 229
										5		Overburden
										9		Sandy Clay Refusal
										10		Stones
										5		Road Fill T.H. 230
										7		Overburden
										10		Large stones Refusal
										11		Sandy Clay
										5		Road <del>Fill</del> T.H. 231
										7		Sandy Gravel Refusal
										10		With Large cobbles

AGGREGATE DEPOSIT REPORT (Cont'd)

% FINER BY WEIGHT	SIEVE ANALYSIS			
	SIEVE	% FINER	SIEVE	SAMPLE NUMBER
100.0	1"	80.6	#10	
97.7	3/4"	74.6	#20	
93.3	1/2"	70.7	#40	
92.1	3/8"	63.2	#100	
82.2	#4	57.9	#200	



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.C.S. % LOSS	D.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.	% + 4"			
		A-4	23.3	4.5	5.9											
		ML														
		INORGANIC SILT AND FINE SAND														

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA. 1970+00 &

HOLE No. \_\_\_\_\_ DEPTH 5-9'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 1969

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 215

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE 6/17/70 *SA*

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

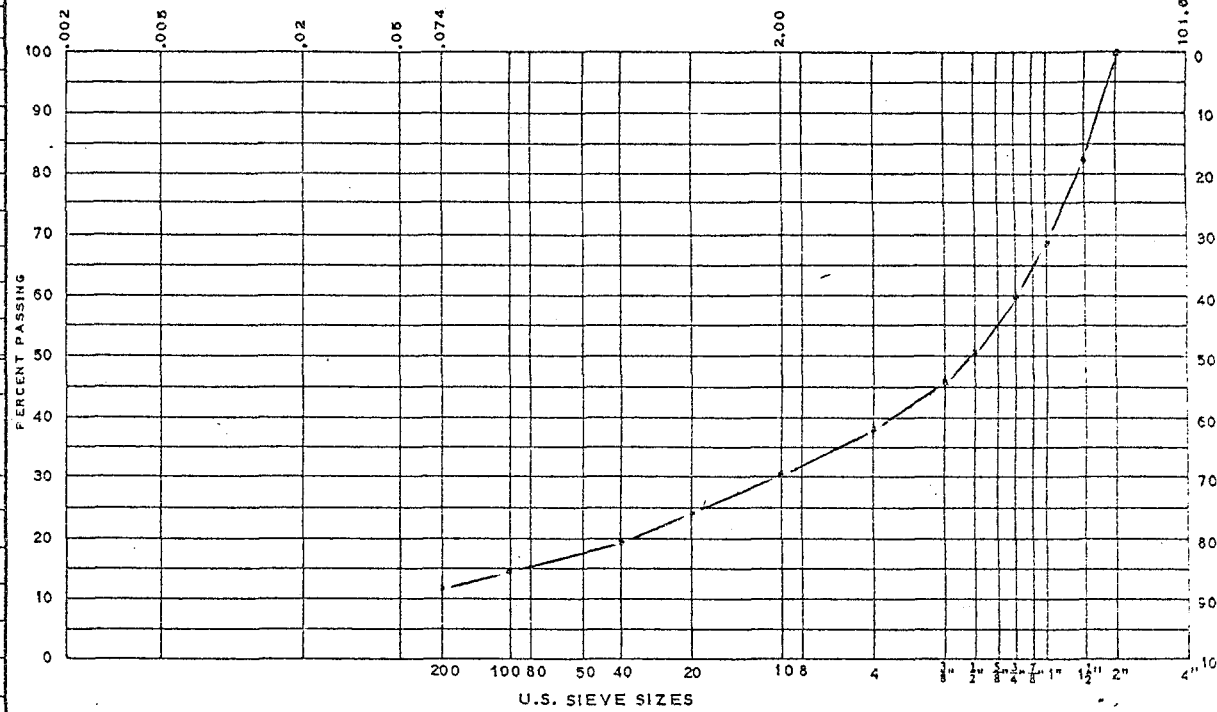
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS		SAMPLE NUMBER
	SIZE	% FINER	
100.0	2"	30.3	#10
82.2	1 1/2"	24.0	#20
68.5	1"	19.9	#40
59.6	3/4"	14.5	#100
50.2	1/2"	12.1	#200
45.9	3/8"		
38.2	#4		

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	BSIPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
		A-1-a			100							
		GW										
		WELL-GRADED GRAVEL										

AGGREGATE GRADING CHART



CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT... DEADSTEEPLE HILL HIGHWAY CONSTRUCTION ...  
 LOCATION... STA. 1960+00 ...  
 HOLE No. .... DEPTH... 3'-9" ...  
 SAMPLE TYPE..... DATE SAMPLED June 1963 ...  
 FIELD SAMPLE No. .... LAB SAMPLE No. 216 ...  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

*6/18/63*  
*SA*

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 232-233-234-235  
 LOGGED BY Ed Melanson DATE June 23/69 STATION 1955-1950  
 ENTERED BY J. Cairns DATE Aug 11/69 1945-1940  
 CHECKED BY J.K. DATE Aug 11/69 HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING			LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.						P.L.
									2		Road Fill Sandy Gravel Large Cobbles Refusal	T.H. 232
									3		Road Fill Sandy Gravel Large Cobbles Refusal	T.H. 233
									4		Road Fill Sandy Gravel Large Cobbles Refusal	T.H. 234
									4		Road Fill Sandy Gravel Large Cobbles Refusal	T.H. 235

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 236-237-238-239  
 LOGGED BY Ed. Helanson DATE June 23/69 STATION 1935-1930  
 ENTERED BY T. Cairns DATE Aug 11/69 1925-1920  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4 1/2 Auger Mobile

SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.I.					
										2	Road Fill	T.H. 236
											Sandy Gravel Large Cobbles	
										10		
										15	Refusal	
										3	Road Fill	T.H. 237
										4	Overburden	
193											Silty Sand Some Stones	Damp
										10		
										2	Road Fill	T.H. 238
										5	Frozen Overburden	
194											Frozen Silty Sand Some Stones	
										10		
										15		
										7	Road Fill	T.H. 239
										8	Fill	
195											Frozen Overburden	
										7	Frozen Organic Silt	
196											Frozen Gray Silty Sandy Clay Some Pebbles	
										10		

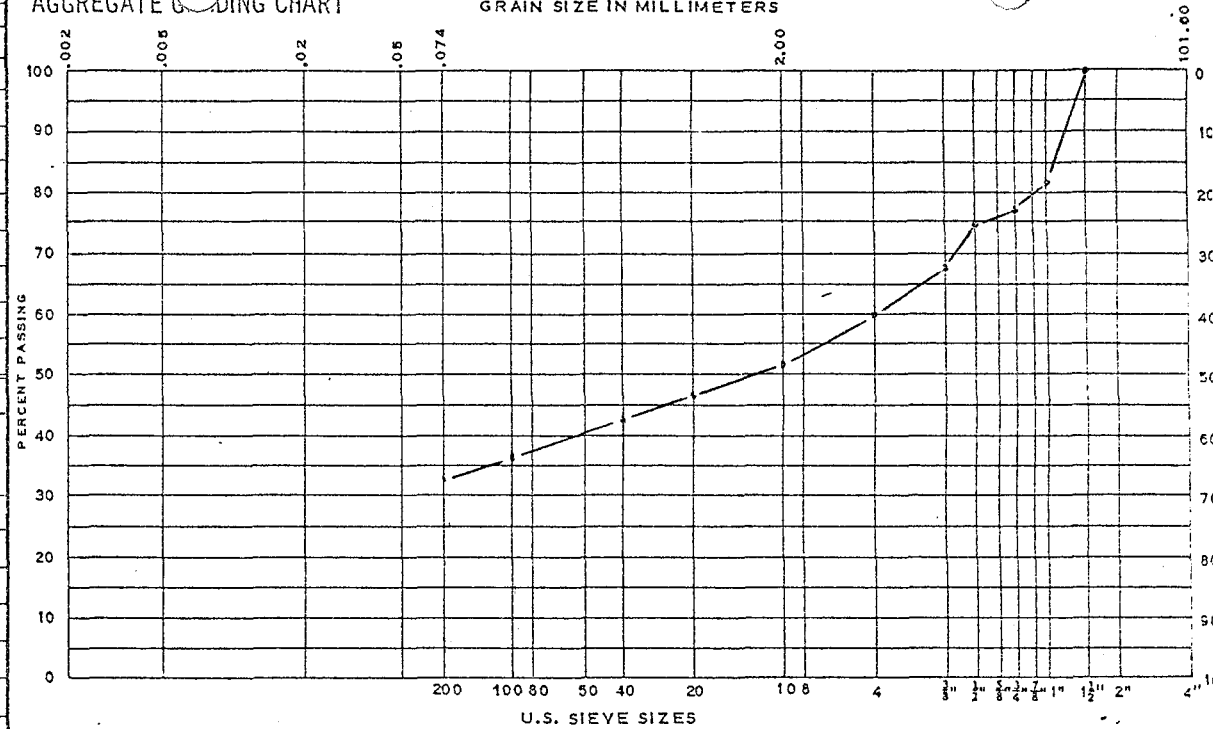
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

OF

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	1 1/2"	51.9 #10
81.5	1"	46.1 #20
76.8	3/4"	42.7 #40
74.9	1/2"	36.6 #100
67.5	3/8"	32.9 #200
59.9	#4	

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MIG SOL. % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-2-4	215	12	3	0						
		SM										
		SILTY SAND										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DENVER AIRPORT CONSTRUCTION  
 LOCATION: STA 1930+07  
 HOLE No. \_\_\_\_\_ DEPTH: 4'-10"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: June 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 217  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE 6/17/70

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

AGGREGATE DEPOSIT REPORT (Cont'd)

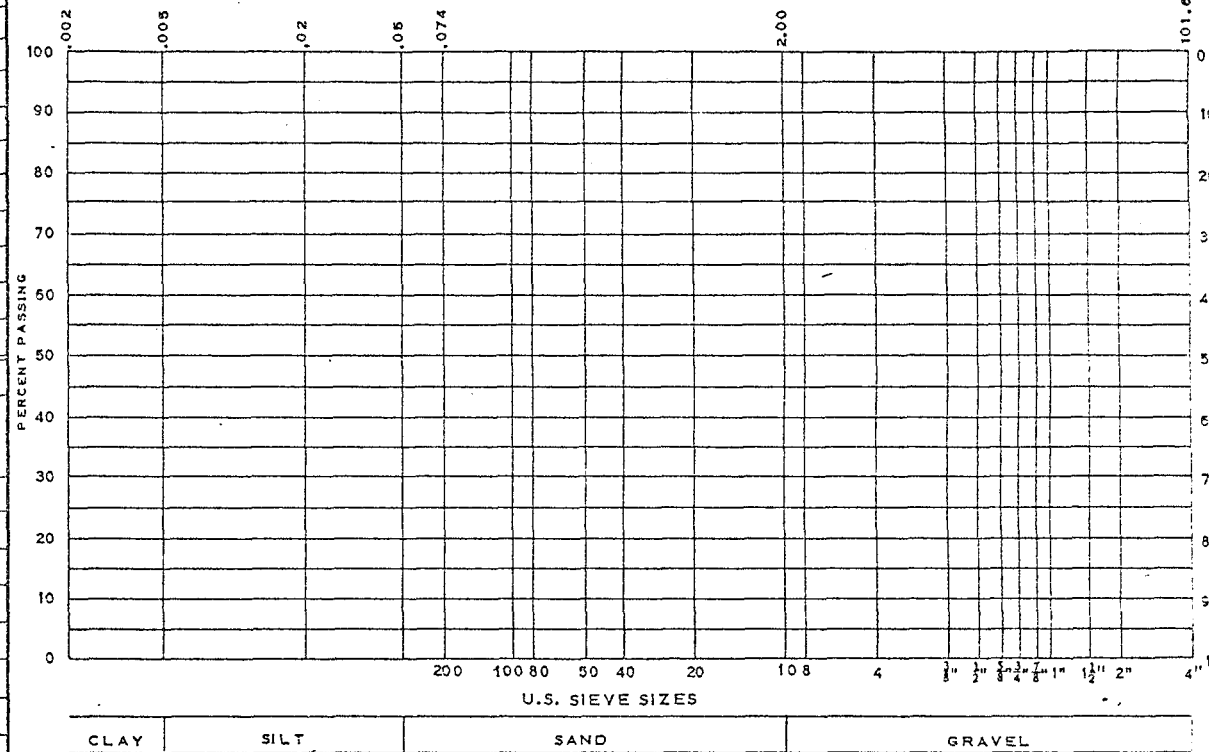
SHEET

F

% FINER BY WEIGHT		SIEVE ANALYSIS										
		SAMPLE NUMBER										
> 75% Passing #200												
% + 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>2</sub> % LOSS	BSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		9-1 CL	26.5	18.5	8.0							
		Low Plasticity Silty Clay = 0.21										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Demolition Highway Construction  
 LOCATION STA. 1925+00 & 1920+00  
 HOLE No. \_\_\_\_\_ DEPTH 5'-15" , 7'-14"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED June 1964  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 218  
 D. P. W. WHITEHORSE - SOILS LAB 270

TESTING ENGINEER

6/17/70  
DATE EA

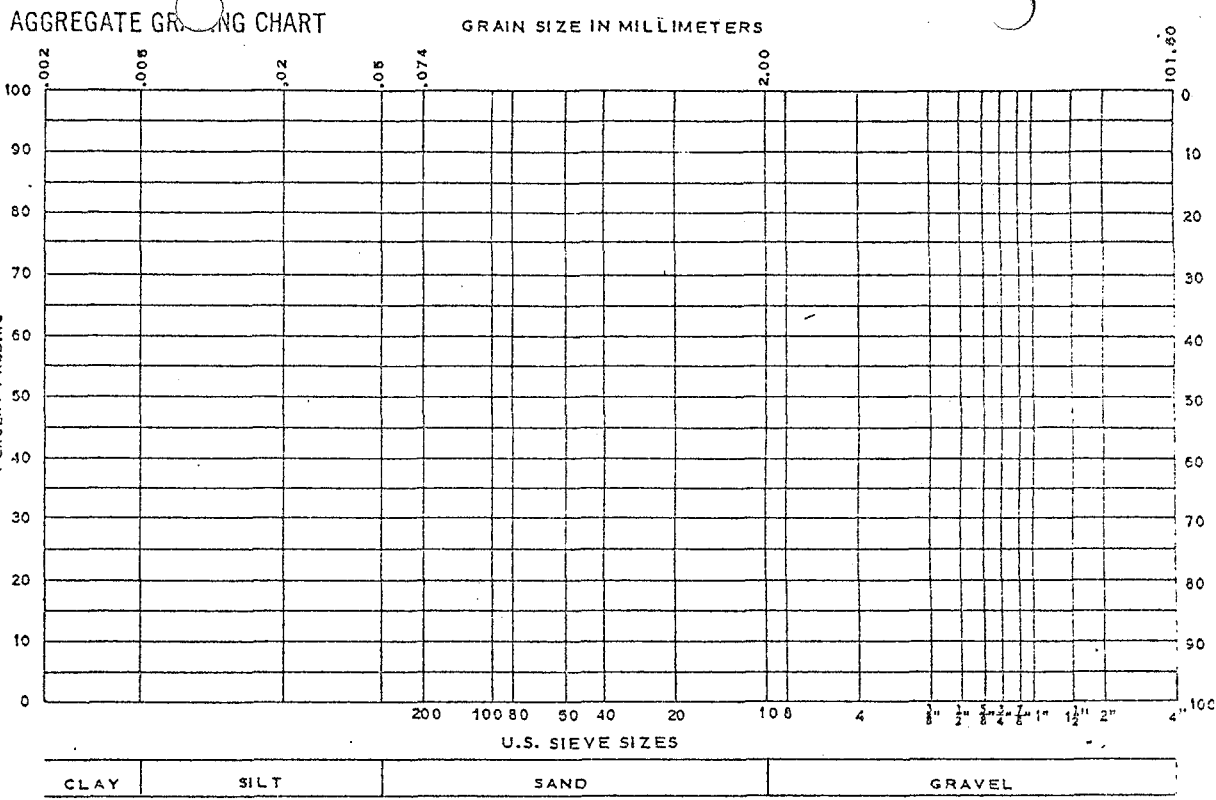
MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

% FINER BY WEIGHT		SIEVE ANALYSIS SAMPLE NUMBER										
<p>75% PASSING # 200</p>												



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMETER HIGHWAY CONSTRUCTION

LOCATION STA. 1930+00

HOLE No. \_\_\_\_\_ DEPTH 5' 7"

SAMPLE TYPE \_\_\_\_\_ DATE SA 15 JUL 69

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 219

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEM PSTER HWY TEST HOLE NO. 240-241-242-243  
 LOGGED BY Ed Melanson DATE June 23/69 STATION 1915-1910  
 ENTERED BY J. Cairns DATE Aug 11/69 1905-1900  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Auger Mobile

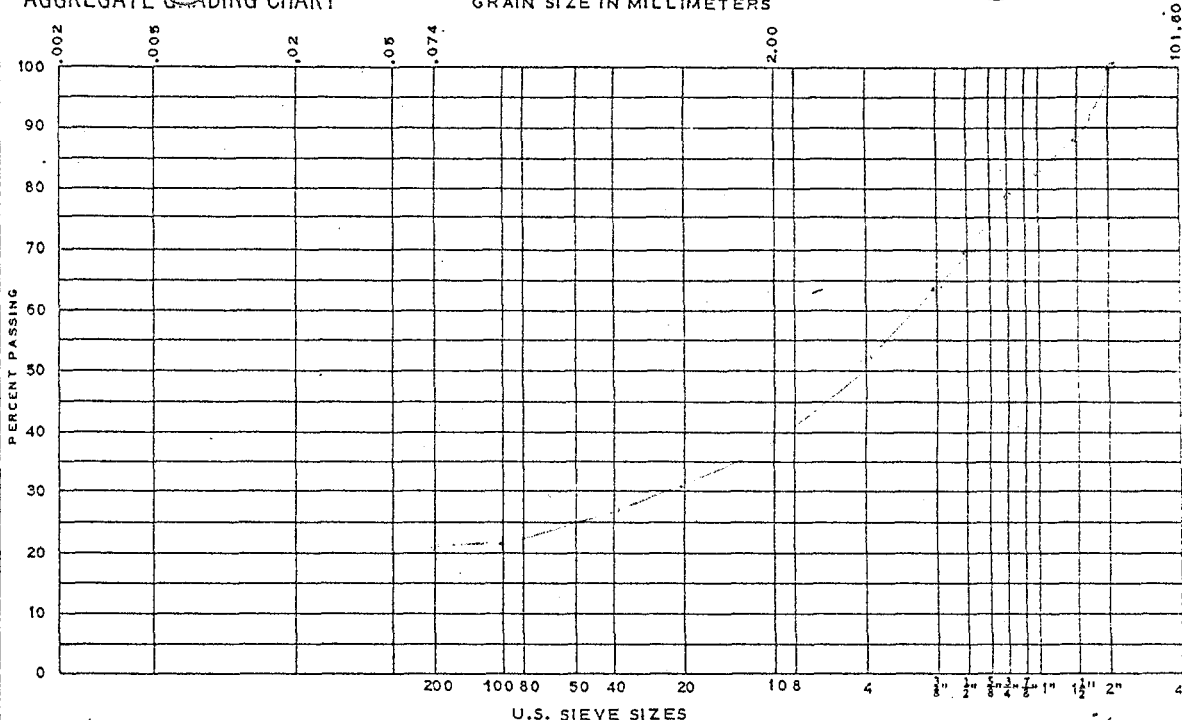
SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L	P.L	P.L					
										3	Road Fill	T.H 240
197										10	Sandy Silty Gravel Gravel Dominant From 8' down Well-Graded. Cobbles 4-7" Refusal	
										7	Road Fill	T.H 241
										10	Sandy Silty Gravel Gravel Dominant 6' down Well Graded Cobbles 4-7" Refusal	
										7	Road Fill	T.H 242
										10	Sandy Silty Gravel Gravel Dominant From 6' Well Graded Cobbles 4-7" Refusal	
										8	Road Fill	T.H 243
										10	Sandy Silty Gravel Cobbles & Boulders showing-1/2"	
										11	Refusal	

AGGREGATE DEPOSIT REPORT (Cont'd)

% FINER BY WEIGHT	SIEVE ANALYSIS		SAMPLE NUMBER	
	SIEVE	% FINER	SIEVE	
100.0	2"	37.7	#10	
87.3	1 1/2"	31.1	#20	
83.8	1"	26.9	#40	
79.0	3/4"	23.3	#100	
70.0	1/2"	20.8	#200	
64.7	3/8"			
51.1	#4			

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY                      SILT                      SAND                      GRAVEL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.C. 504 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-U	25.6	20.9	5.2							
		SILT										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT... DUMFRIES HIGHWAY CONSTRUCTION  
 LOCATION... STA. 1915+00  
 HOLE No. .... DEPTH... 3-10'  
 SAMPLE TYPE..... DATE SAMPLED JUN 5, 1959  
 FIELD SAMPLE No. .... LAB SAMPLE No. 221  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/11/59  
DATE GA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 244-245-246-247  
 LOGGED BY Ed Melanson DATE June 23/69 STATION 1899-1890  
 ENTERED BY J. Cairns DATE Aug 11/69 1895-1890  
 CHECKED BY J.H. DATE Aug HOLE ADVANCED BY 4" Sugar Mobile

SAMPLE NO.	PASSING LIMITS				L.L.	P.L.	P.I.	Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	% No. 200	No. 40	No. 10	No. 4								
										3		Road Fill T.H. 244
										6		Medium to Coarse Sandy Gravel Cobbles & Boulders up to 18" & dominant ↑ Refusal
										10		
										2		Road Fill T.H. 245
198										2 1/2		← overburden silty clay Brown Silty clay & Coarse Gravel Refusal at 4' Cobbles & Boulders Slight Cut. TRENCHED 2'
										10		
										3		Road Fill T.H. 246
										3 1/2		← Silty clay & Coarse Gravel Refusal @ 4' Cobbles & Boulders Slight Cut TRENCHED 2'
										10		
										5		Road Fill T.H. 247
										5		Coarse Sandy Gravel Cobbles & Boulders up to 14" Refusal
										10		

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

F

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	6	20.9
76.2	5	19.6
49.4	4	18.2
37.9	3	16.6
34.7	2	15.3
27.4	1 1/2	12.3
23.7	1	12.1
22.7	3/4	
21.7	1/2	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a GM			100							
		SILTY GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

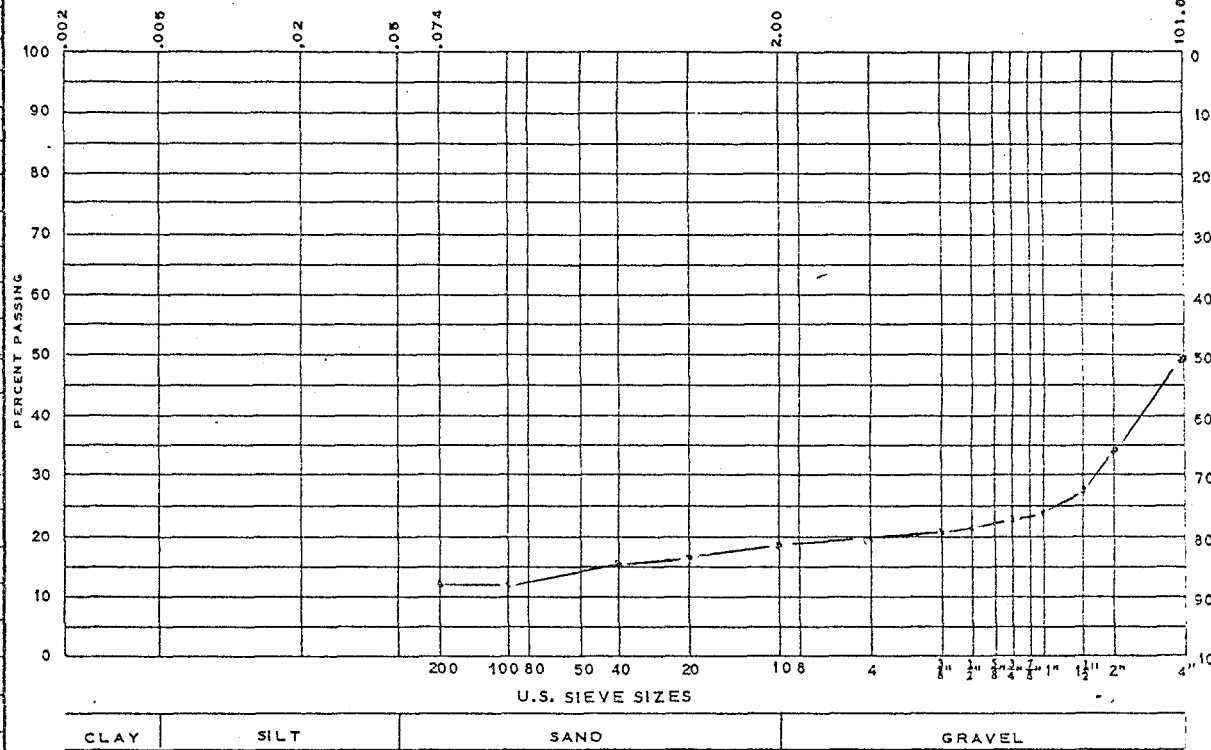
COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

AGGREGATE GRADING CHART



LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION STA 1890 +00  
 HOLE No. \_\_\_\_\_ DEPTH 2'-5'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE/69  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 222  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPESTER HWY TEST HOLE NO. 248-249-250-251  
 LOGGED BY Ed Melanson DATE June 23/69 STATION 1875 - 1870  
 ENTERED BY J. Cairns DATE Aug 11/69 1865 - 1860  
 CHECKED BY Bill Loh DATE June HOLE ADVANCED BY 4" Auger Machine

SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L	P.L	P.I					
										2'	Road Fill	T.H 248
199										10'	Fine to Coarse Sandy Gravel & Organic Substance Well Graded, some cobbles up to 8"	
										11'	Refusal.	
										5'	Road Fill	T.H 249
										6'	← Organic Silty Sand Overburden	
200										10'	Damp Silty Sand & Fine Gravel	
										12'	← Refusal. Some cobbles	
										7'	Road Fill	T.H 250
										9'	Organic Overburden	
201										10'	Frozen Light Brown Silty Sand	
										12'	Some Pebbles	
202										17'	Dark Gray Sandy Silt & Fine to Coarse Gravel A Few Cobbles	
										3'	Road Fill	T.H 251
										6'	Frozen Dark Gray Organic Overburden	
203										10'	Fine Silty Sand	
										13'	Some Fine Gravel Wet & lighter colour @ 9"	

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

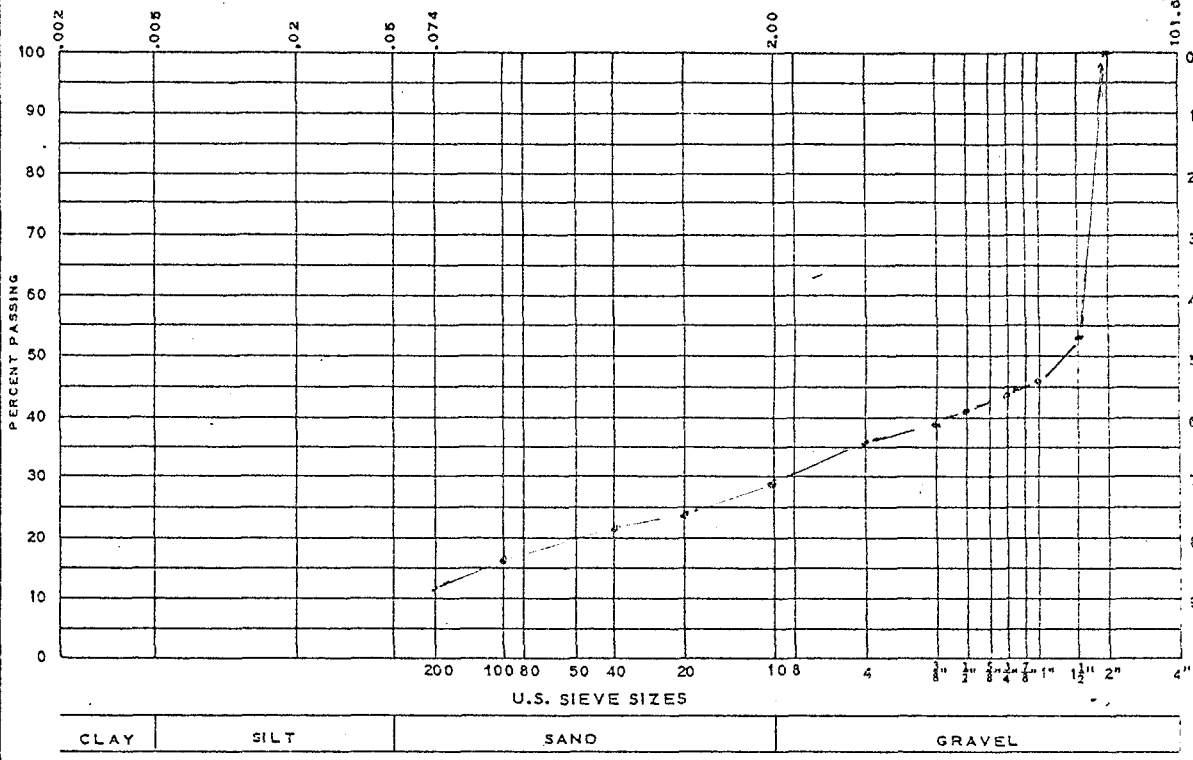
OF

% FINER BY WEIGHT	SIEVE ANALYSIS		SAMPLE NUMBER	
	SIEVE	% FINER	SIEVE	
100.0	2	29.9	#10	
53.9	1/2	25.7	#20	
	1	22.5	#40	
45.3	3/4	15.7	#100	
44.6	1/2	12.3	#200	
42.3	3/8			
39.4	#4			
34.1				
% + 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 504 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a	26.2	23.5	2.7							
		SM										
		SILTY SAND										

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION STA 1875+00  
 HOLE No. \_\_\_\_\_ DEPTH 2'-11"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED 3/14/69  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 223  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

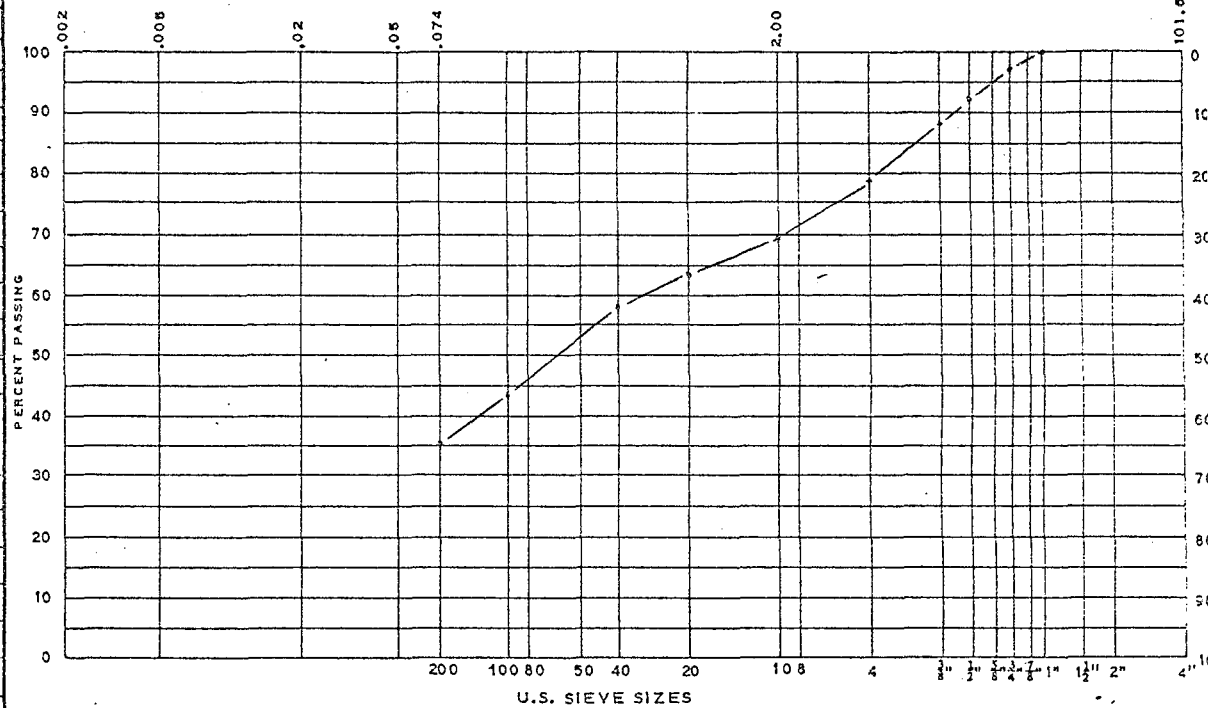
OF

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	1"	69.8 #10
97.1	3/4"	63.2 #20
92.5	1/2"	57.8 #40
87.7	3/8"	43.3 #100
78.6	#4	35.7 #200

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	U.A. % LOSS	M.G. SO <sub>4</sub> % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-2-A										
		SM										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: D. P. W. WHITEHORSE HIGHWAYS CONSTRUCTION  
 LOCATION: STA. 1870+00 &  
 HOLE No. \_\_\_\_\_ DEPTH: 6'-12"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 1955  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 224  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE 6/7/70

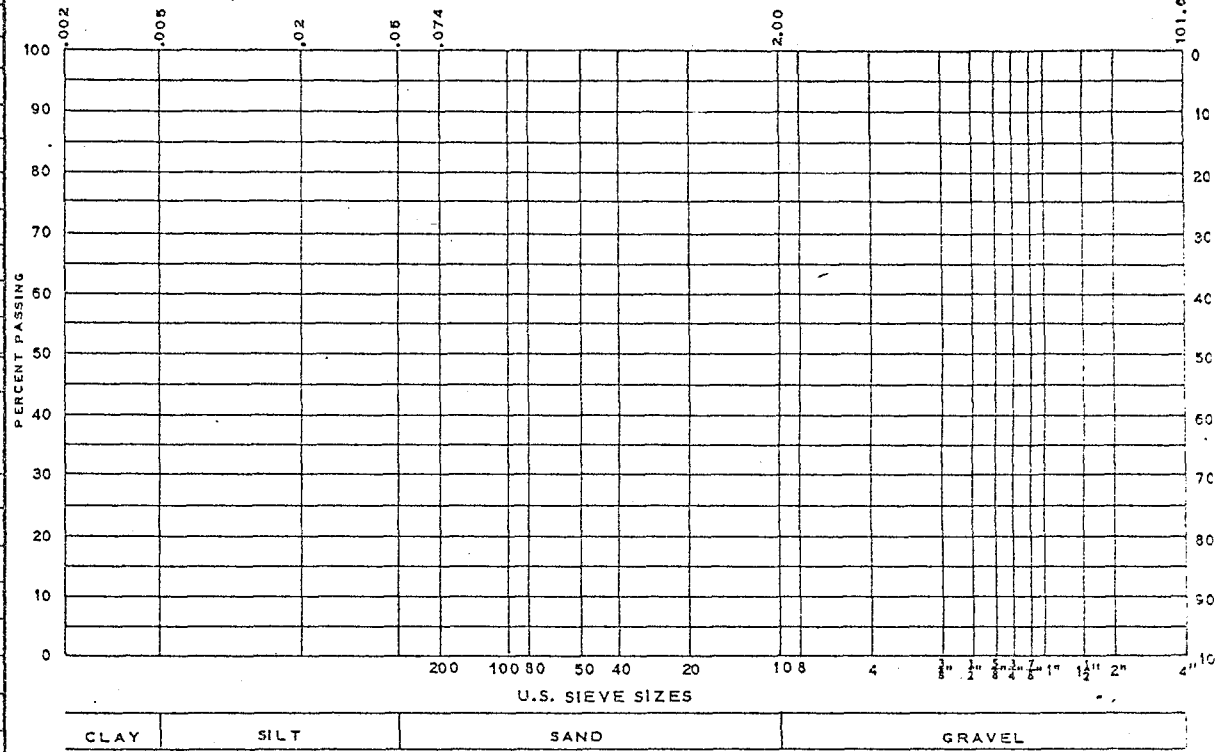
MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

% FINER BY WEIGHT		SIEVE ANALYSIS SAMPLE NUMBER															
<p>&gt; 75% PASSING # 200</p>																	
% + 4"																	
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.					
		A-4	28.5	21.2	7.3												
		CL															
		Lo PLASTIC INORGANIC CLAY															

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION STA 11865 + 00  
 HOLE No. \_\_\_\_\_ DEPTH 9' - 12'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 16/9  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 225  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

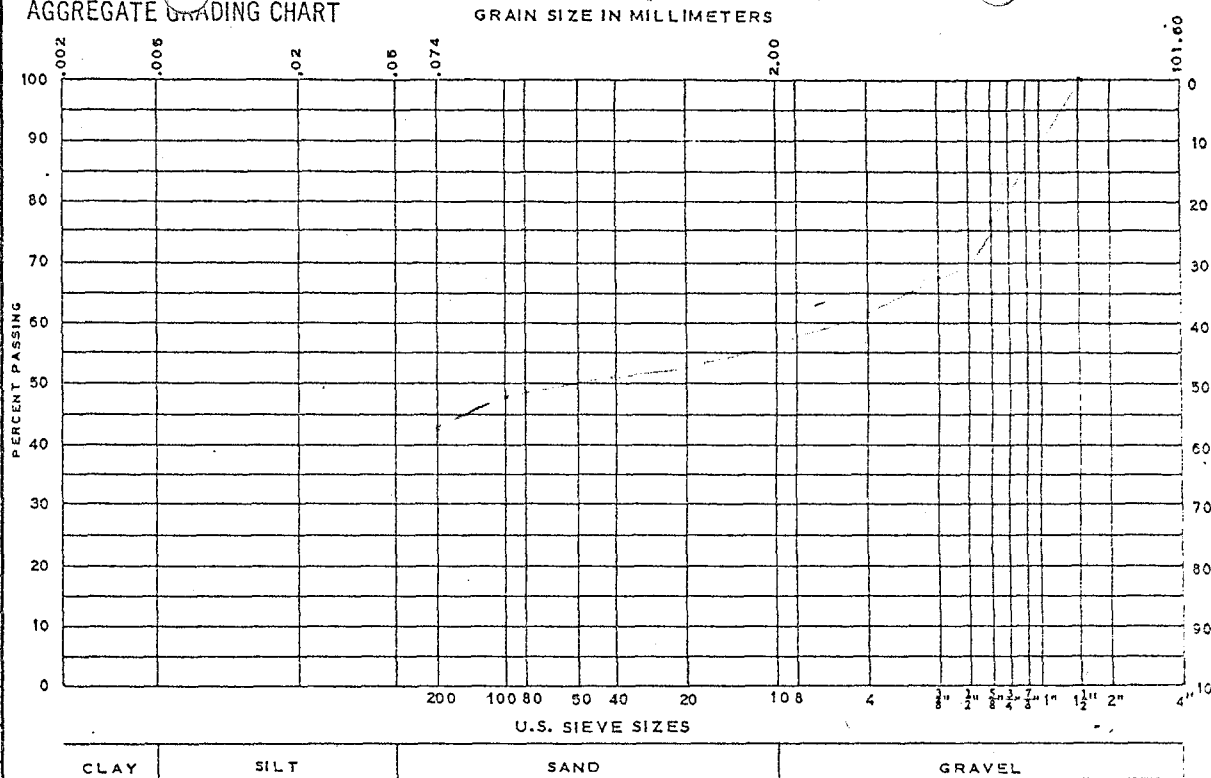
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS		SIEVE	% FINER	SIEVE
	SIEVE	SAMPLE NUMBER			
100.0	1/2		#10	56.3	
89.7	1		#20	53.2	
76.1	3/4		#40	51.0	
68.8	1 1/2		#100	47.1	
67.1	2		#200	43.7	
60.3	#4				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSIC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			26.2	20.0	6.2							
		CLAYEY SILT, SAND										

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT..... DEMPSTER HIGHWAY CONSTRUCTION

LOCATION..... STA. 18.65+00

HOLE No..... DEPTH..... 12'-17'

SAMPLE TYPE..... DATE SAMPLED JUNE/69

FIELD SAMPLE No..... LAB SAMPLE No. 726

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

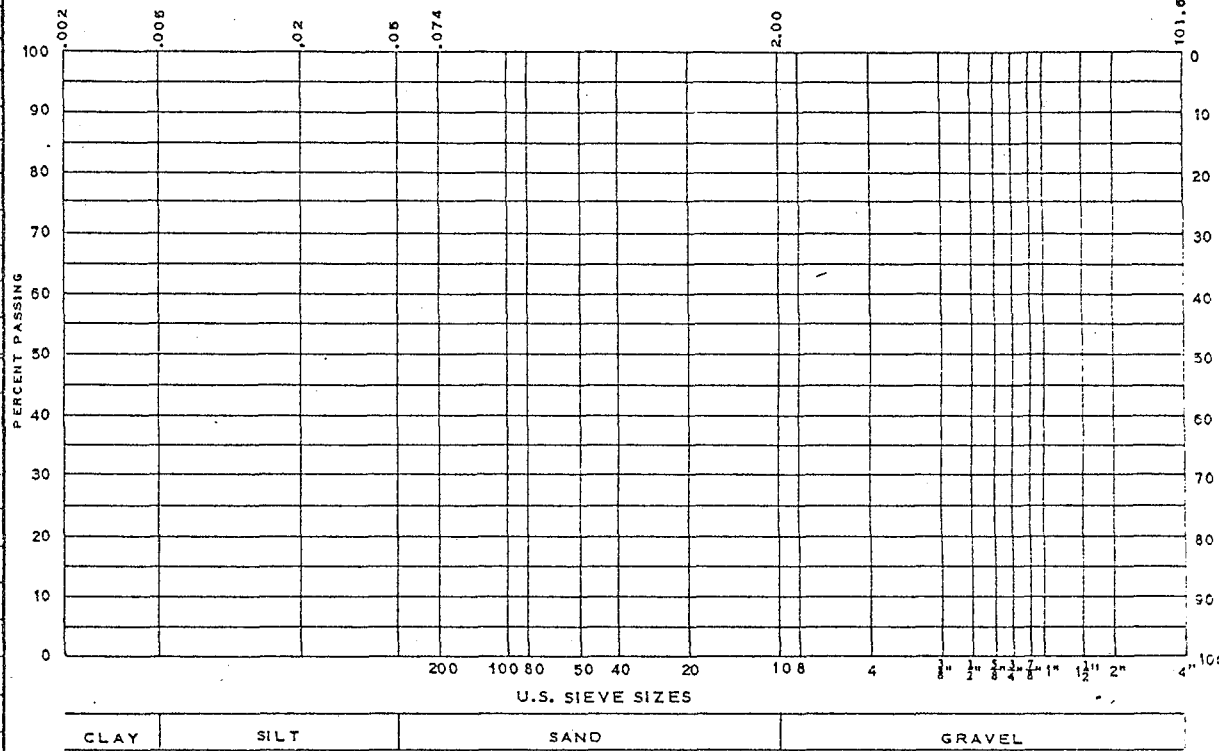
DATE

MATERIALS ENGINEER'S REMARKS

AGGREGATE DEPOSIT REPORT (Cont'd)

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER											
	<p>&gt; 75% PASSING #200</p>											
<p>% + 4"</p>												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-7	26.4	28.0	2.4							
ML												
LO PLASTIC INORGANIC SILT.												

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSEY R. HIGHWAY CONSTRUCTION

LOCATION ST. IRVED TWP

HOLE No. \_\_\_\_\_ DEPTH 6'-13'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE/69

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 227

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DAMPSTER HWY TEST HOLE NO. 252-253-254-255  
 LOGGED BY Ed Melanson DATE June 23/49 STATION 1855 - 1850  
 ENTERED BY J. Cairns DATE Aug 11/49 1845 - 1840  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 2" Auger Mobile

SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.I.					
										3		Road Fill
										4		Organic Overburden
										10		Fine Silty Sand
										13		Some Fine Gravel
												Wet & Lighter Colour @ 9'
										4		Road Fill
204										9		Coarse Sandy Gravel
										10		Slight Cut Bank
												Cobbles up to 8"
												Refusal
										19		Road Fill
205										25		Sandy Cobbles & Boulders
												& Broken Rock up to 2'
												CUT BANK MILE
												26.2
										10		Road Fill
												Sandy, Cobbles Boulders
												& Broken Rock up to 2'
										30		

% FINER BY WEIGHT	SIEVE	SIEVE ANALYSIS		SIEVE NUMBER	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO <sub>4</sub> % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		% FINER	SIEVE												
100.0	4	17.1	#10												
88.9	3	13.7	#20												
66.7	2	11.7	#40												
56.5	1 1/2	8.7	#100												
44.8	1	7.2	#200												
37.4	3/4														
31.0	1/2														
28.6	3/8														
22.3	#4														
% + 4"															

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO <sub>4</sub> % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		GW-GM										
		WELL GRADED SILTY GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

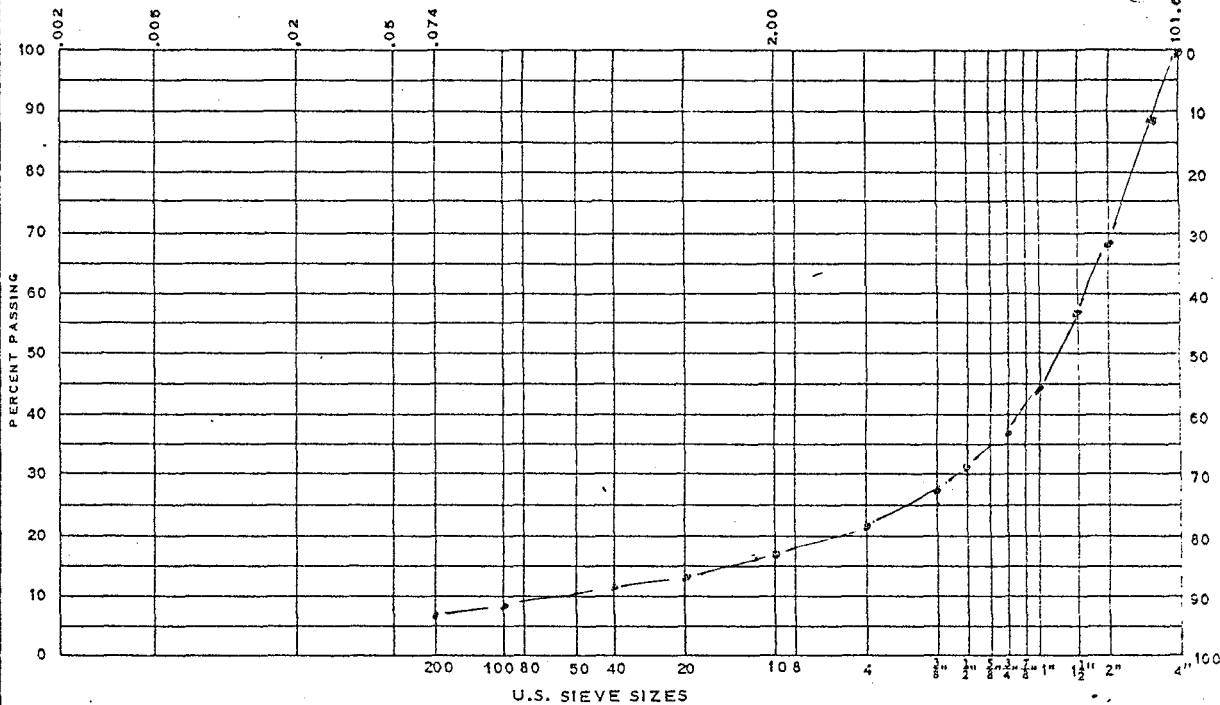
ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION STA 1850+00 + STA 1845+00  
 HOLE No. \_\_\_\_\_ DEPTH 1-9' ± ??  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No 228 ± 228  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DIEM PETER HWY TEST HOLE NO. 256-257-258-259  
 LOGGED BY Ed McLaurin DATE June 27/29 STATION 1835-1830  
 ENTERED BY J. Cairns DATE Aug 11/29 1925-1920  
 CHECKED BY J. K. Kishki DATE \_\_\_\_\_ HOLE ADVANCED BY 4" Auger MOBILE

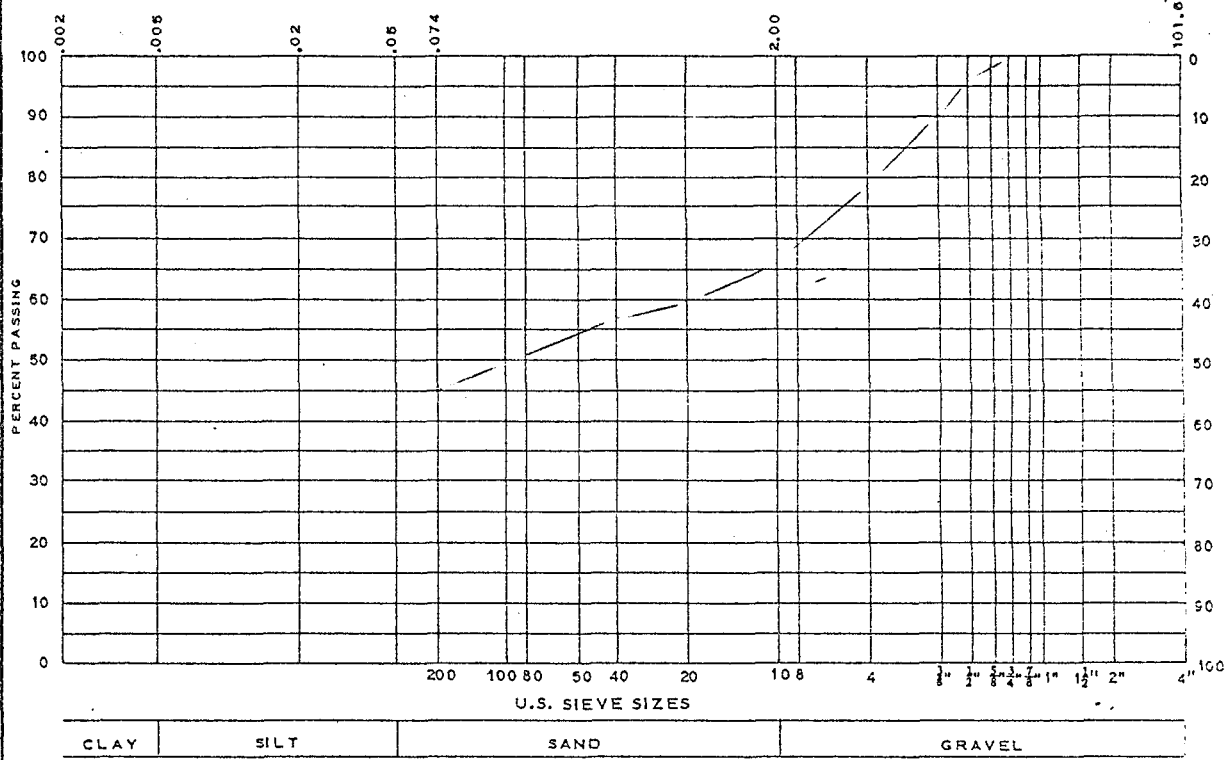
SAMPLE NO.	% PASSING LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10					
						2		<div style="float: right; border: 1px solid black; padding: 2px;">T.H. 256</div> Road Fill Sand Clay Fine to Medium Gravel Some Broken Rock Cut Back Slight
206						10		
						12		
						2		<div style="float: right; border: 1px solid black; padding: 2px;">T.H. 257</div> Road Fill Some Cobbles & Broken Rock
						10		
						12		
						6		<div style="float: right; border: 1px solid black; padding: 2px;">T.H. 258</div> ROAD FILL ← Overburden Silty Sandy Clay Silt, Clay, Broken Rock
207						10		
						12		
						2		<div style="float: right; border: 1px solid black; padding: 2px;">T.H. 259</div> Road Fill Very little Clay, Sand, Silt Broken Rock ← Refusal
208						6		
						10		

% FINER BY WEIGHT		SIEVE ANALYSIS									
		SAMPLE NUMBER									
SIEVE											
100.0	3/4"										
95.5	1/2"										
90.1	3/8"										
77.7	# 4										
66.4	# 10										
60.0	# 20										
56.7	# 40										
50.2	# 100										
45.4	# 200										
% + 4"											

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.G. SOL. % LOSS	USPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-A				24.7	19.3	5.4				
		SMA-SC										
		SILT-Y-SAND										

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION: STA 1835+00  
 HOLE No. \_\_\_\_\_ DEPTH: 2'-12"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 16, 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 230  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/14/70  
DATE SA

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

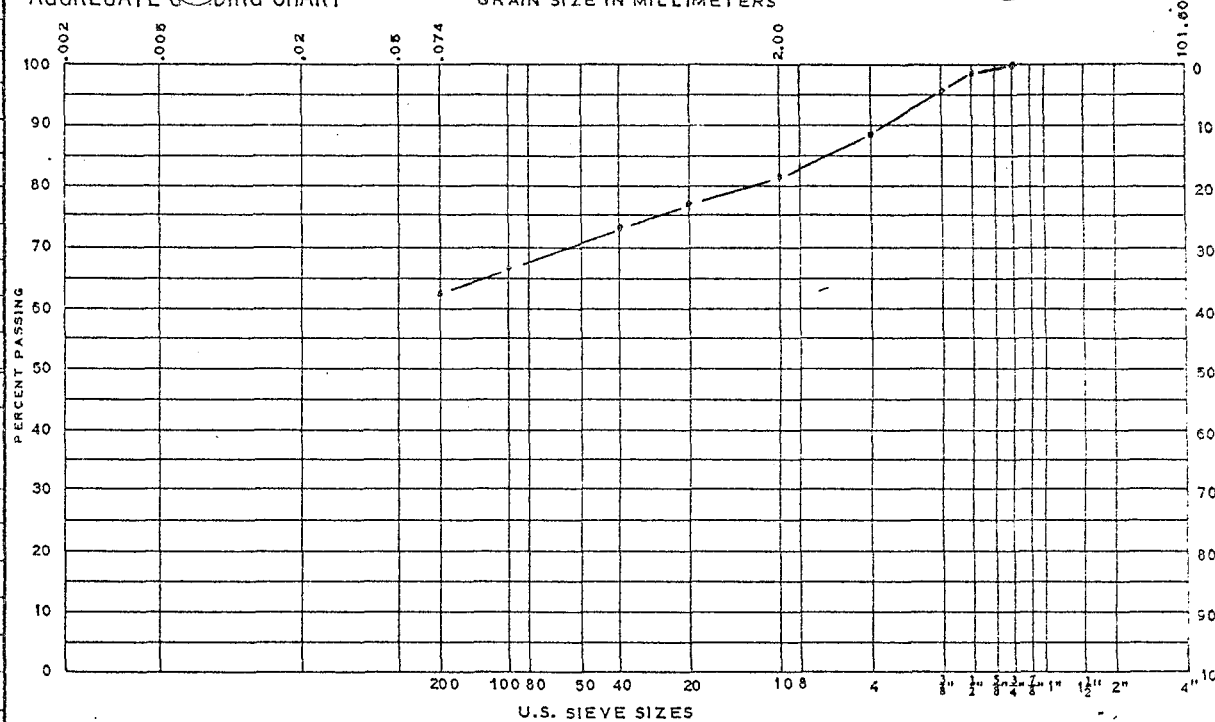
DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	3/4"	81.7 #10
98.7	1/2"	71.4 #20
95.4	3/8"	73.0 #40
88.4	#4	66.3 #100
		62.7 #200

AGGREGATE GOING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	BSPC	COLOUR	% WATER ABSORBED	% ASPH. ABSORB.	F.M.
		A-4			0.0							
		ML										
		INORGANIC SILT AND FINE SAND										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION STA 18257.00  
 HOLE No. \_\_\_\_\_ DEPTH 7'-9"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED Jan 16/68  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 231  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE SA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

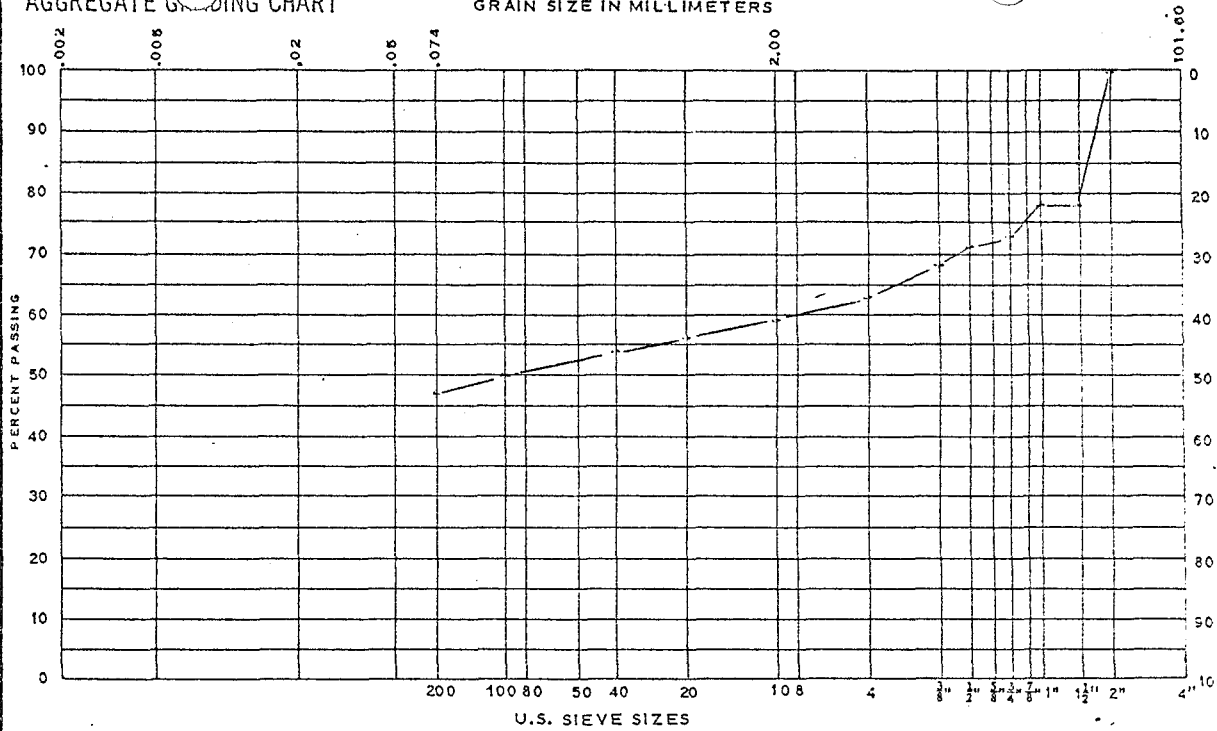
DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER SIEVE
100.0	2	59.0 #10
77.8	1/2	56.0 #20
77.8	1	54.0 #40
73.3	3/4	49.9 #100
70.9	1/2	47.3 #200
67.9	3/8	
63.0	#4	

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.G. 504 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4				23.7	18.4	4.3				
		S.M.-SC										
		INORGANIC SILTY SAND										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEWEATER HIGHWAY CONSTRUCTION  
 LOCATION STA. 1820+00  
 HOLE No. \_\_\_\_\_ DEPTH 2'-6"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED June 69  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 232  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE 3/4/80 *SA*

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 260-261-262-263  
 LOGGED BY Ed Melanson DATE June 23/69 STATION 1815-1810  
 ENTERED BY J. Cairns DATE Aug 1/69 1805-1800  
 CHECKED BY J.K. DATE Aug 1/69 HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.I.					
										3	Road Fill	T.H. 260
										5	← Very Little Clay, Sand, Silt, Broken Rock Refusal	
										10		
										3	Road Fill	T.H. 261
										7	Very Little Clay, Sand, Silt, Broken Rock Refusal	
										10		
										3	Road Fill	T.H. 262
										5	Very Little Clay, Sand, Silt, Broken Rock Refusal	
										9	Some <del>clay</del> Broken Rock Refusal	
										10		
										3	Road Fill	T.H. 263
										5	Very Little Clay, Sand, Silt, Broken Rock Refusal	
										8	Some <del>clay</del> Broken Rock Refusal	
										10		

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 264-265-266-267  
 LOGGED BY Ed Melanson DATE June 23/69 STATION 1795 - 1790  
 ENTERED BY J. Cairns DATE Aug 11/69 1785 - 1780  
 CHECKED BY J. Cairns DATE Aug 11/69 HOLE ADVANCED BY 4" Auger MOBILE

SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	L.L	P.L	P.L						
										6		Road Fill	T.H. 264
209										10		"Damp" "Coarse" Silty Sandy Gravel, Some Clay	
										7		Road Fill	T.H. 265
										10		"Damp" "Coarse" Silty Sandy Gravel, Some Clay	
										12			
										10		Road Fill	T.H. 266
										20		"Damp" "Coarse" Silty Sandy Gravel, Some Clay	
										25			
										3		Road Fill	T.H. 267
210										7		"Dry" Silty & Sandy Gravel Boulders Refusal Very Hard	
										10			

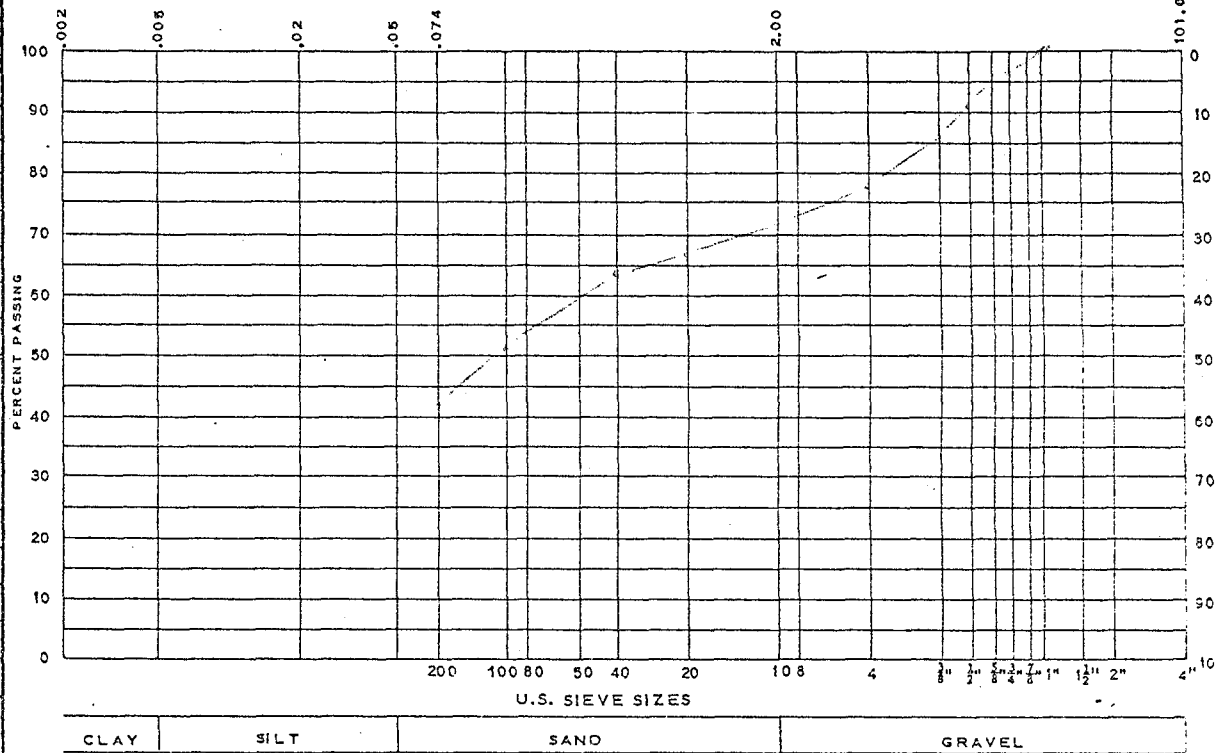
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT		SIEVE ANALYSIS		SAMPLE NUMBER									
SIEVE	% FINER	SIEVE	% FINER	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
100.0	1	#10	73.2										
97.5	#4	#20	68.4										
90.1	#10	#40	64.3										
85.3	#20	#100	51.1										
78.7	#40	#200	43.3										
% + 4"													
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.	
		A-4	24.3	20.7	3.6								
		3H											
		SILT SAND MIXTURE											

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION STA. 1795+00 &  
 HOLE No. \_\_\_\_\_ DEPTH 6'-10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED June 6, 1970  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 233  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

6/12/70  
FA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPESTER HWY TEST HOLE NO. 268-269-270-271  
 LOGGED BY Ed Malanson DATE June 23/69 STATION 1773 - 1770  
 ENTERED BY J. Cairns DATE Aug 11/69 1765 - 1760  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Auger Mobile

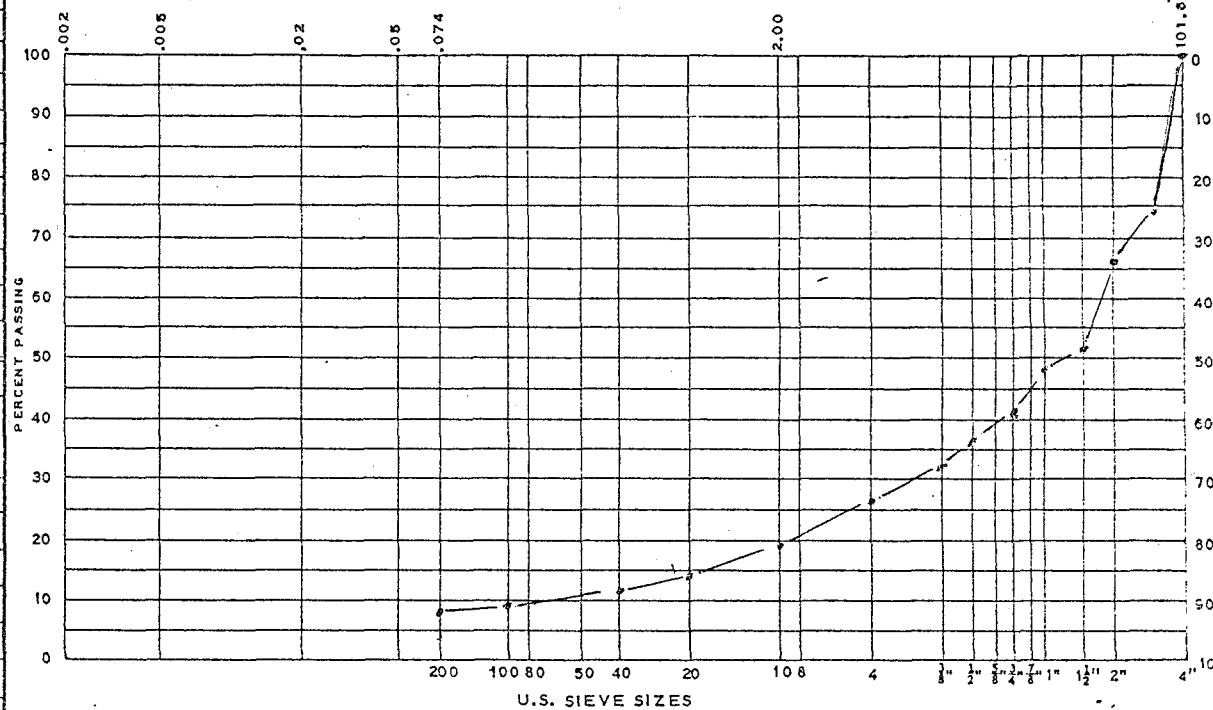
SAMPLE NO.	PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L	P.L	P.1					
										2		Road Fill Sandy Gravel Boulders ← Refusal
										3		Road Fill Sandy Gravel Boulders ← Same Refusal
										2		Road Fill Sandy Gravel Large Boulders ← Refusal
										5		
										10		
										5		Road Fill Sandy Gravel Large Boulders ← Refusal
										8		
										10		

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	#4	19.4
74.1	#3	14.8
65.5	#2	12.6
57.2	#1 1/2	9.9
47.2	#1	8.8
41.7	#3/4	
36.9	#1/2	
32.5	#3/8	
25.7	#4	

AGGREGATE GRADING CHART



CLAY      SILT      SAND      GRAVEL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
		A-1-a										
		G <sub>u</sub> -GM										
		WELL GRADED SILTY GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT..... DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION..... STN 1775+00  
 HOLE No..... DEPTH..... 2'-9"  
 SAMPLE TYPE..... DATE SAMPLED..... JULY/69  
 FIELD SAMPLE No..... LAB SAMPLE No..... 239  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT Dempster Hwy TEST HOLE NO. 272-273-274-275  
 LOGGED BY Ed Melanson DATE June 27/69 STATION 1755 - 1750  
 ENTERED BY J. Cairns DATE Aug 11/69 1745 - 1740  
 CHECKED BY [Signature] DATE Aug 14/69 HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING			LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L	P.L					
											T.H 272
											Road Fill
									10		
									11		Overburden
											Organic, silt, clay
211											Stones & Boulders
									15		Refusal Rocks
											T.H 273
											Road Fill
									10		
									12		
									13		Overburden
											Organic, silt, clay
											Stones & Boulders
									16		Refusal Rocks
											T.H 274
											Road Fill
									7		
212									10		"Damp" Silty Sandy Clay
											Some cobbles
									12		
											T.H 275
											Road Fill
									6		
213									10		Sandy Silty Gravel
											Large Rocks.
									11		Refusal

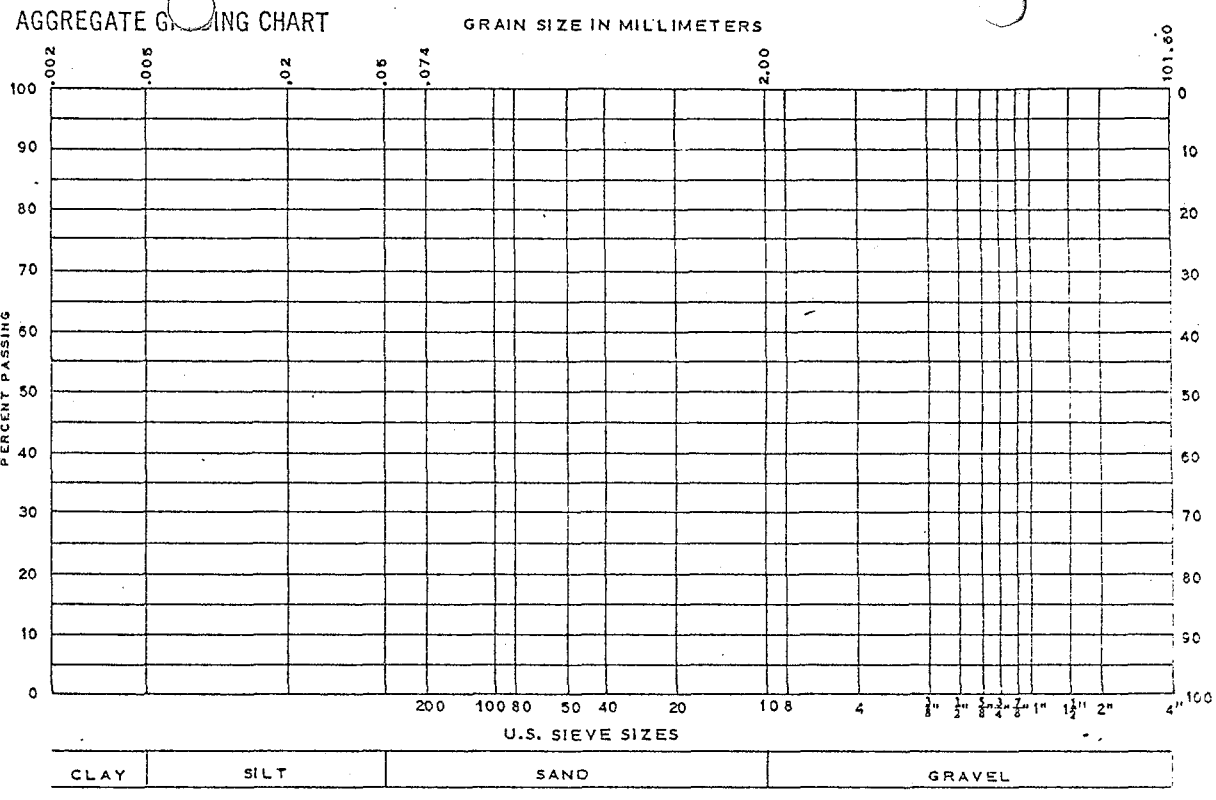
% FINER BY WEIGHT	SIEVE ANALYSIS									
	SAMPLE NUMBER									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A.		M.C. SOL.	B.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
						% LOSS	% LOSS						

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE	
ROCK TYPE	%



LABORATORY'S REMARKS

PROJECT... DENVER HIGHWAY CONSTRUCTION

LOCATION... STA. 1755+00

HOLE No. .... DEPTH... 11-15'

SAMPLE TYPE..... DATE SAMPLED JUNE 1968

FIELD SAMPLE No..... LAB SAMPLE No. 23.5

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE 6/24/68

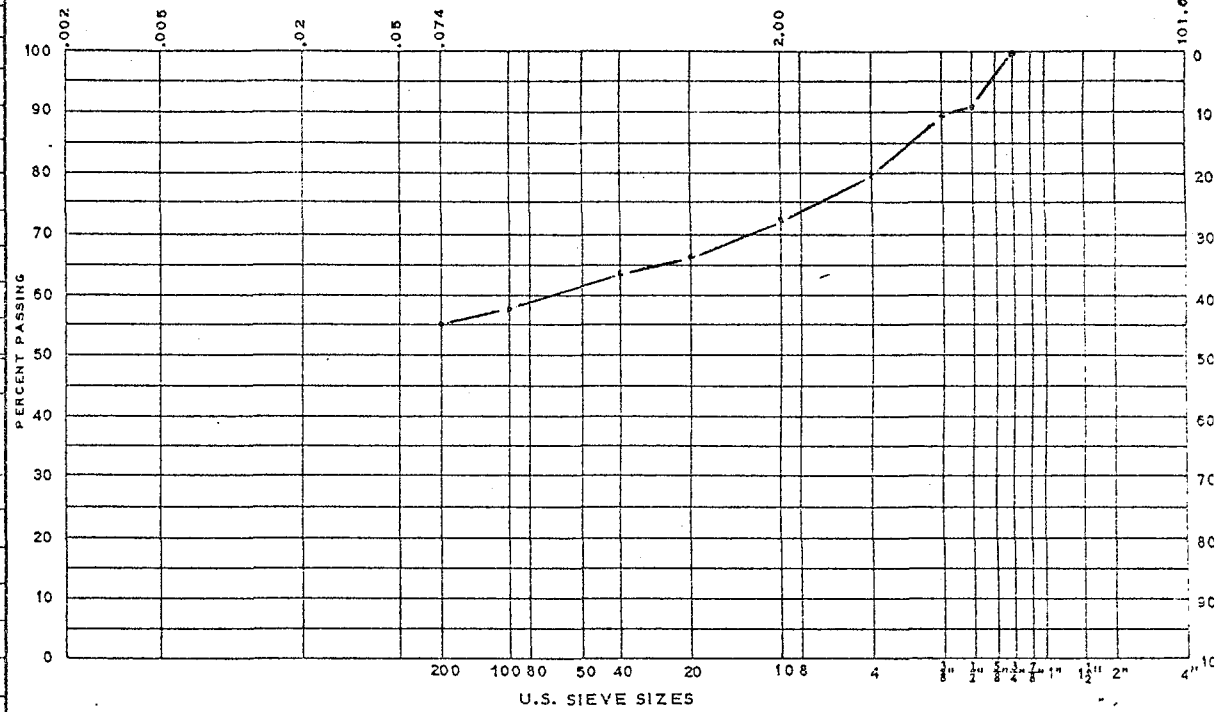
MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

AGGREGATE DEPOSIT REPORT (Cont'd)

% FINER BY WEIGHT		SIEVE ANALYSIS	
		SAMPLE NUMBER	
SIEVE	% FINER	SIEVE	
100.0	#4"	72.2	#10
91.8	#2"	66.5	#20
89.1	#3"	63.0	#40
79.8	#4"	57.4	#100
		55.1	#200

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	29	403	25.7							
		ML										
		INORGANIC SILT AND FINE SAND										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Dempster Highway Construction  
 LOCATION S.T.A. 174.5+00 &  
 HOLE No. \_\_\_\_\_ DEPTH 7-12'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED June 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 236  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE 6/14/69 SA

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

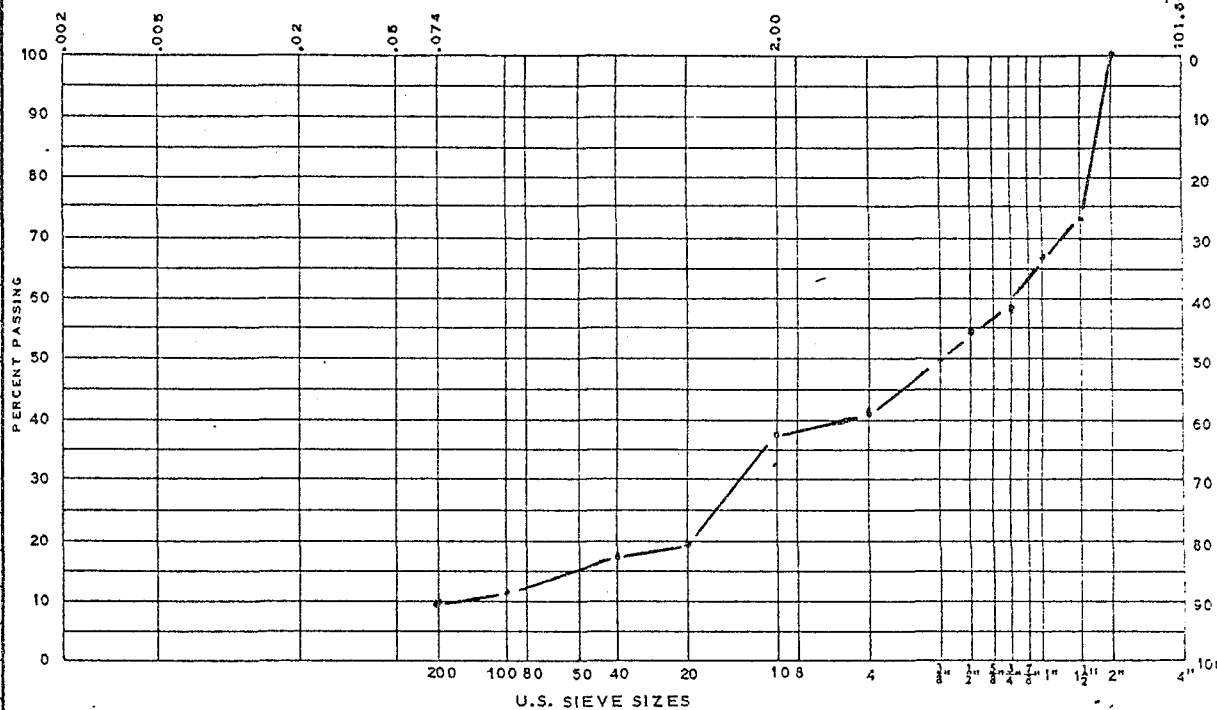
DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS		SAMPLE NUMBER
	SIEVE	% FINER	
100.0	#2	37.3	#10
72.9	#10	19.9	#20
66.0	#1	17.2	#40
58.3	#4	11.5	#100
54.0	#10	9.6	#200
49.8	#20		
41.6	#40		

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	USPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			6.0							
		GW										
		WELL GRADED GRAVEL										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DENVER AIRWAY CONSTRUCTION  
 LOCATION: STA 1240+00  
 HOLE No. \_\_\_\_\_ DEPTH: 6'-11"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 16, 1988  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 257  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE: 6/14/88

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

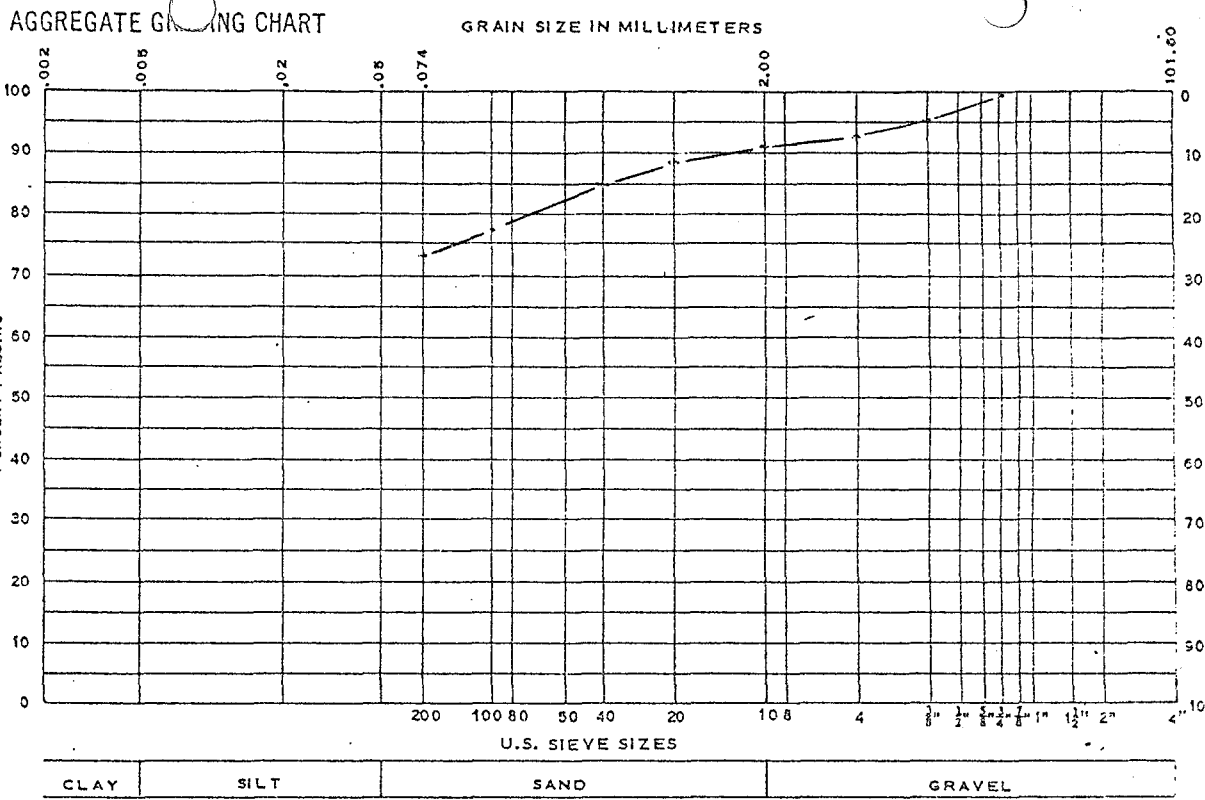
PROJECT DEMOPSTER HWY TEST HOLE NO. 276-277-278-279  
 LOGGED BY Ed Melanson DATE June 23/69 STATION 1735 - 1730  
 ENTERED BY J. Cairns DATE Aug 11/69 1725 - 1720  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L	P.L	P.I					
										1		Road Fill T.H. 276
										5		
										10		Sandy Silt Gravel Cobbles ↳ Refusal
										4		Road Fill T.H. 277
										5		
										9		↳ Overburden Silt, Sandy Gravel
										10		↳ Refusal
										6		Road Fill Cobbles T.H. 278
										10		
												Silt, Sandy Gravel ↳ Refusal
										2		Road Fill Overburden T.H. 279
										4		
												"Frozen" Silty Sand Small Stones 1"-2" Water Seepage
										10		
										12		

276

AGGREGATE DEPOSIT REPORT (Cont'd)

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	3/4"	90.8
95.5	1/2"	87.6
95.5	3/8"	84.9
92.9	#4	77.3
		72.9



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.G. SO4 % LOSS	D.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMISTEER HI-WAY CONSTRUCTION

LOCATION STA 1720+00

HOLE NO. \_\_\_\_\_ DEPTH 4'-12'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE '69

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 238

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 280-281-282-283  
 LOGGED BY Ed Melanson DATE June 23/69 STATION 1715 - 1710  
 ENTERED BY J. Cairns DATE Aug 11/69 1705 - 1700  
 CHECKED BY [Signature] DATE Aug 11/69 HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS				L.L.	P.L.	P.I.	Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4									
215										2		Road Fill silty, sandy Gravel Cobbles & Boulders ↑ Refusal	T.H 280
										6			
										10			
										3		Road Fill	T.H 281
										8		silty, sandy Gravel Cobbles & Boulders ↑ Refusal	
										10			
										2		Road Fill	T.H 282
										7		Sand silty Gravel With Cobbles & Boulders ← Refusal	
										10			
										4		Road Fill	T.H 283
										6		Overburden	
										10		"Damp" silty Sandy clay	
216													

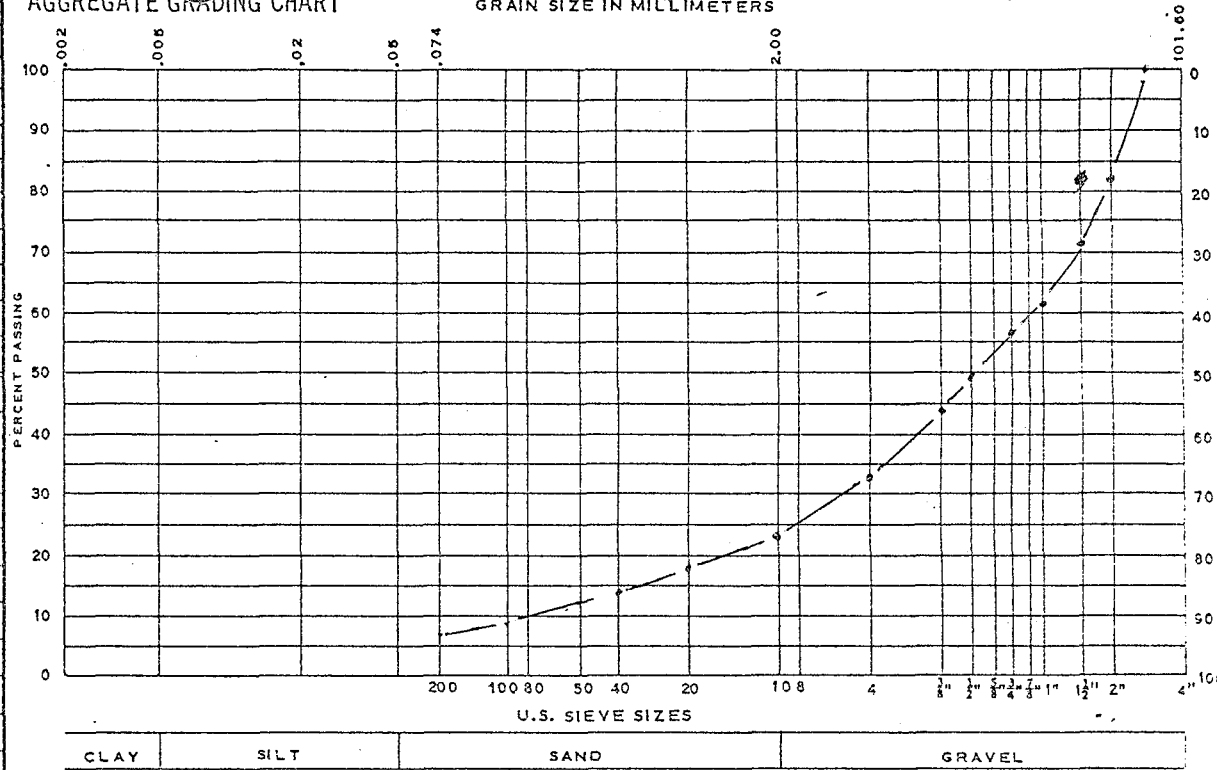
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT		SIEVE ANALYSIS		SAMPLE NUMBER											
SIEVE	% FINER	SIEVE	% FINER												
100	3	#10	83.5												
20	2	#20	17.2												
40	1 1/2	#40	13.9												
100	1	#100	9.9												
200	3/4	#200	8.3												
40	1/2														
100	3/8														
200	#4														
* + 4"															
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.			
		A-1-a			0.0										
		GW-GM													
WELL GRADED SILTY GRAVEL															

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION STA 1715 +00  
 HOLE No. \_\_\_\_\_ DEPTH 2'-6'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE/69  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 239  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 284-285-286-287  
 LOGGED BY Ed Melanson DATE June 27/69 STATION 1695 - 1690  
 ENTERED BY J. Cairns DATE Aug 11/69 1685 - 1680  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY \_\_\_\_\_

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	P. 1	P. 1					
												Road Fill <span style="float: right;">T.H. <u>284</u></span> ← Overburden silty sandy clay, large rocks ← Refusal
												Road Fill <span style="float: right;">T.H. <u>285</u></span> ← Overburden sandy clay large rocks
												Road Fill <span style="float: right;">T.H. <u>286</u></span> ← Overburden large rocks sandy clay ← Refusal
217												Road Fill <span style="float: right;">T.H. <u>287</u></span> ← Overburden sandy gravel large cobbles ← Refusal

AGGREGATE DEPOSIT REPORT (Cont'd)

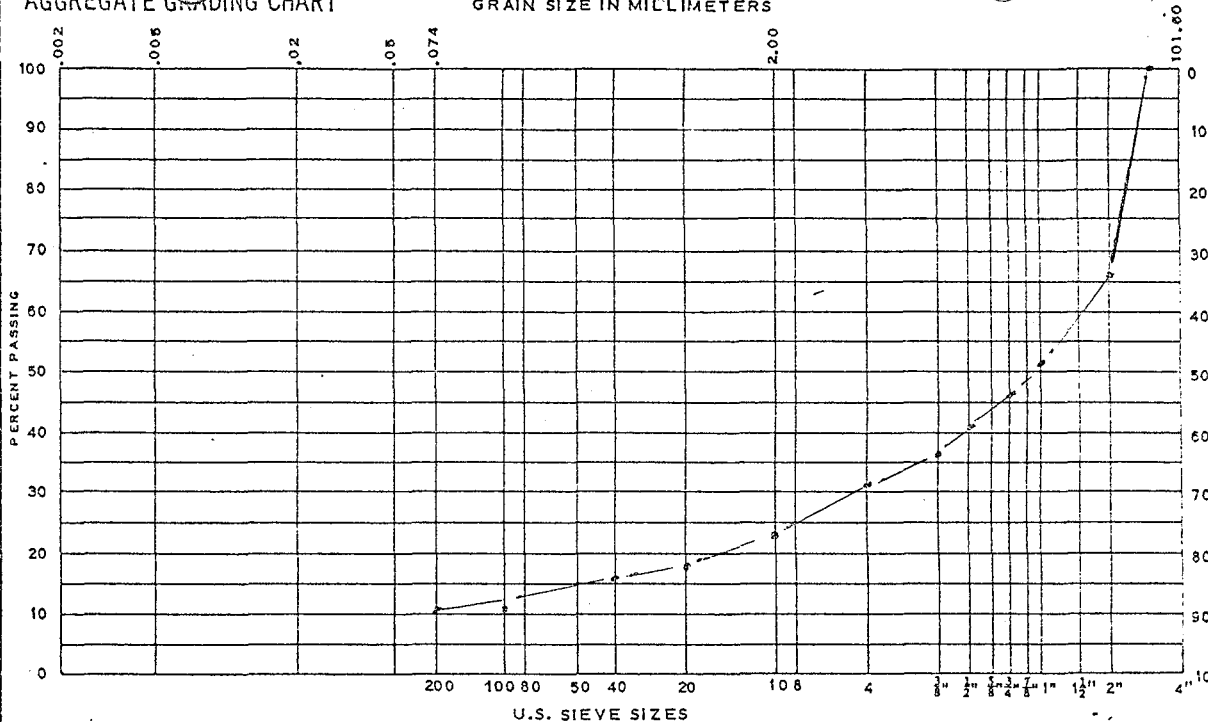
SHEET

F

% FINER BY WEIGHT	SIEVE ANALYSIS		SAMPLE NUMBER
	SIEVE	ZINER	
100.0	3	23.4	#10
66.2	2	18.7	#20
	1/2	15.8	#40
51.3	1	11.7	#100
46.1	3/4	10.2	#200
40.9	1/2		
36.0	3/8		
30.2	#4		

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MC SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-R			0.0							
		Qw-GM										
		WELL GRADED SILTY GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DENPSTER HIGHWAY RECONSTRUCTION  
 LOCATION STA: 16.80 +00  
 HOLE No. \_\_\_\_\_ DEPTH 3'-7'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE/65  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 241  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE



DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 292-293-294-295  
 LOGGED BY Ed Melnean DATE June 23/69 STATION 1655 - 1650  
 ENTERED BY J. Cairns DATE Aug 12/69 1645 - 1640  
 CHECKED BY AK [unclear] DATE [unclear] HOLE ADVANCED BY 4" Huger Mobile

SAMPLE NO.	% No. 200	PASSING LIMITS			P.L.	Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
		No. 40	No. 10	No. 4						
							3		Road Fill	T.H. <u>292</u>
							9		Sandy Gravel Large Cobbles ← Refusal	
							10			
							3		Road Fill	T.H. <u>293</u>
							7		← Refusal Sandy Gravel Large Cobbles	
							10			
							3		Road Fill	T.H. <u>294</u>
							6		Sandy Gravel Large Cobbles ← Refusal	
							10			
							3		Road Fill	T.H. <u>295</u>
							7		Sandy Gravel Large Cobbles ← Refusal	
							10			

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT Dempster Hwy TEST HOLE NO. 296-297-298-299  
 LOGGED BY Ed Mulrison DATE June 23/69 STATION 1235 - 1230  
 ENTERED BY J. Cairns DATE Aug 12/69 1225 - 1220  
 CHECKED BY A. K. Lake DATE Aug HOLE ADVANCED BY 4" Auger Mobile

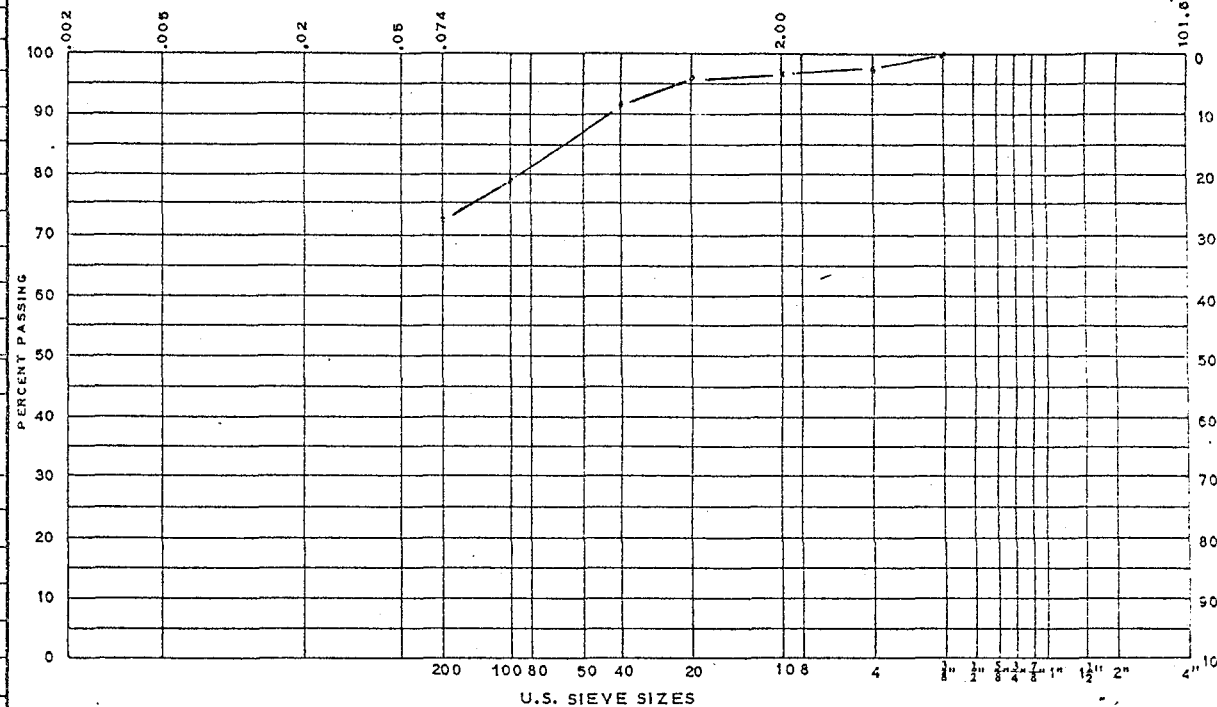
SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
										1	Road Fill	T.H. 296
										4	Fill	
										6	Sandy Silt	
										7	Sandy Gravel	
										9	Large Cobbles	
										10	← Refusal	
										3	Road Fill	T.H. 297
										4	← Overburden	
											Silty Sand, Small Stones	
											8-10' Rock	
										10	← Refusal	
										4	Road Fill	T.H. 298
											Fill	
											Sandy Gravel	
										8	Cobbles	
											← Refusal	
										10		
										3	Road Fill	T.H. 299
											Silty Sand	
										7	Small Stones Large Cobbles	
											← Refusal	
										10		

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE	SIEVE ANALYSIS				
		SAMPLE NUMBER				
100.0	3/8					
97.6	#4					
96.7	#10					
95.9	#20					
92.0	#40					
78.7	#100					
72.3	#200					

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 304 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4				0.0						
		ML										
		INORGANIC SILT AND FINE SAND										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMONSTRATOR HIGHWAY CONSTRUCTION  
 LOCATION: STA ?  
SOMEWHERE BETWEEN (1850+00) & (1615+00)  
 HOLE No. \_\_\_\_\_ DEPTH: 7-10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: June 1970  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 292  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE: 6/1/70

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

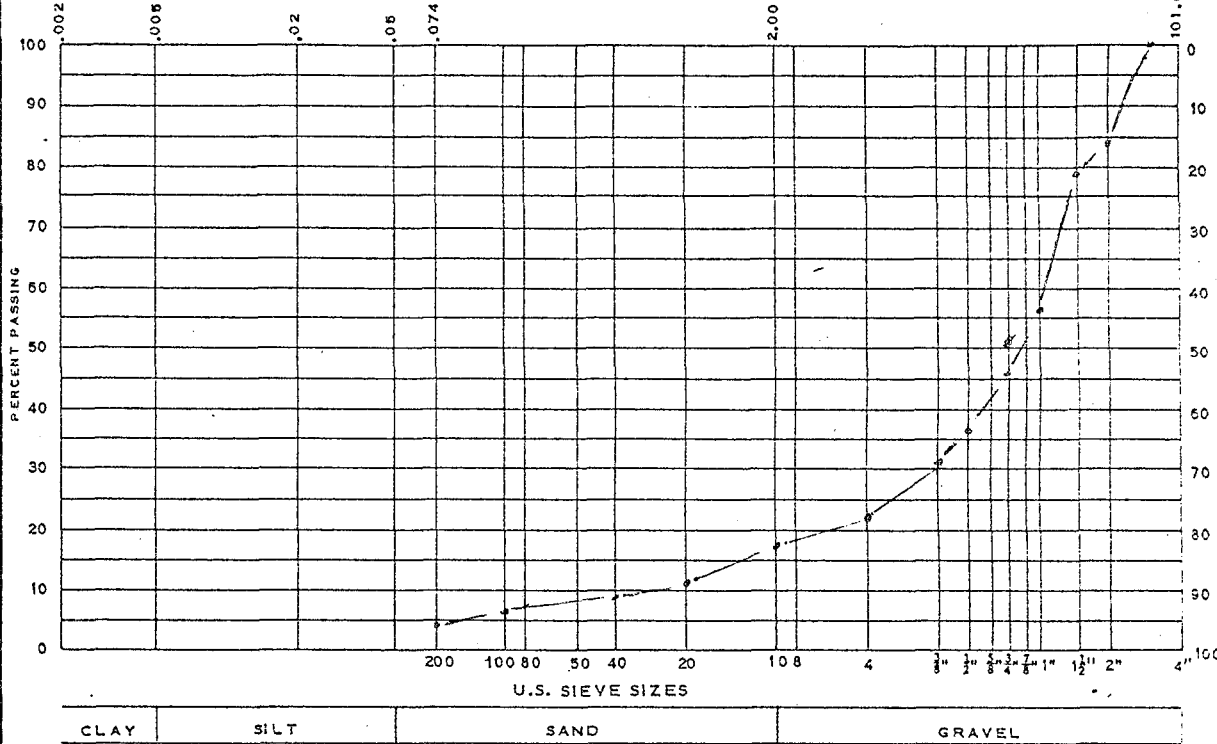
PROJECT DEMETER HWY TEST HOLE NO. 300-301-302-303  
 LOGGED BY Ed Melanson DATE June 23/69 STATION 1615 - 1610  
 ENTERED BY J. Cairns DATE Aug 12/69 1605 - 1620  
 CHECKED BY H. K. Lush DATE LE 69 HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	P. I.					
									2		Road Fill	T.H. 300
219									5		Sandy Gravelly large cobbles Boulders	
									10		← Refusal	
									2		Road Fill	T.H. 301
									9		Sandy Gravel Large cobbles Boulders	
									10		← Refusal	
									2		Road Fill	T.H. 302
									6		Sandy Gravelly large Cobbles, Boulders	
									10		← Refusal	
									2		Road Fill	T.H. 303
									7		Sandy Gravel Large cobbles Boulders	
									10		← Refusal	

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	SIEVE NUMBER
100.0	3	#10
84.6	2	#20
79.5	1 1/2	#40
55.9	1	#100
45.2	3/4	#200
36.9	1/2	
30.3	3/8	
23.1	#4	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.C. 504 % LOSS	BS PG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a Gw+			0.0							
WELL GRADED GRAVEL												

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION STA 1615+00  
 HOLE No. \_\_\_\_\_ DEPTH 2'-8'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE/69  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 234243  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE



DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 308-309-310-311  
 LOGGED BY Ed Melanson DATE June 23/49 STATION 1575-1570  
 ENTERED BY J. Cairns DATE Aug 12/49 1965-1960  
 CHECKED BY J. K. ... DATE Aug 14/49 HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% No. 200	PASSING LIMITS						Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
		No. 40	No. 10	No. 4	No. 2	No. 1	P.L.					
									1		← Road Fill	T.H. <u>308</u>
									9		← Refusal	
									10			
									1		← Road Fill	T.H. <u>309</u>
									7		← Refusal	
									10			
									2		Road Fill	T.H. <u>312</u>
									6		Sandy Gravel, Large Cobbles, Boulders	
									10		← Refusal	
									2		Overburden	T.H. <u>311</u>
									8		Silty Sand Gravel Large Cobbles	
									10		← Refusal	

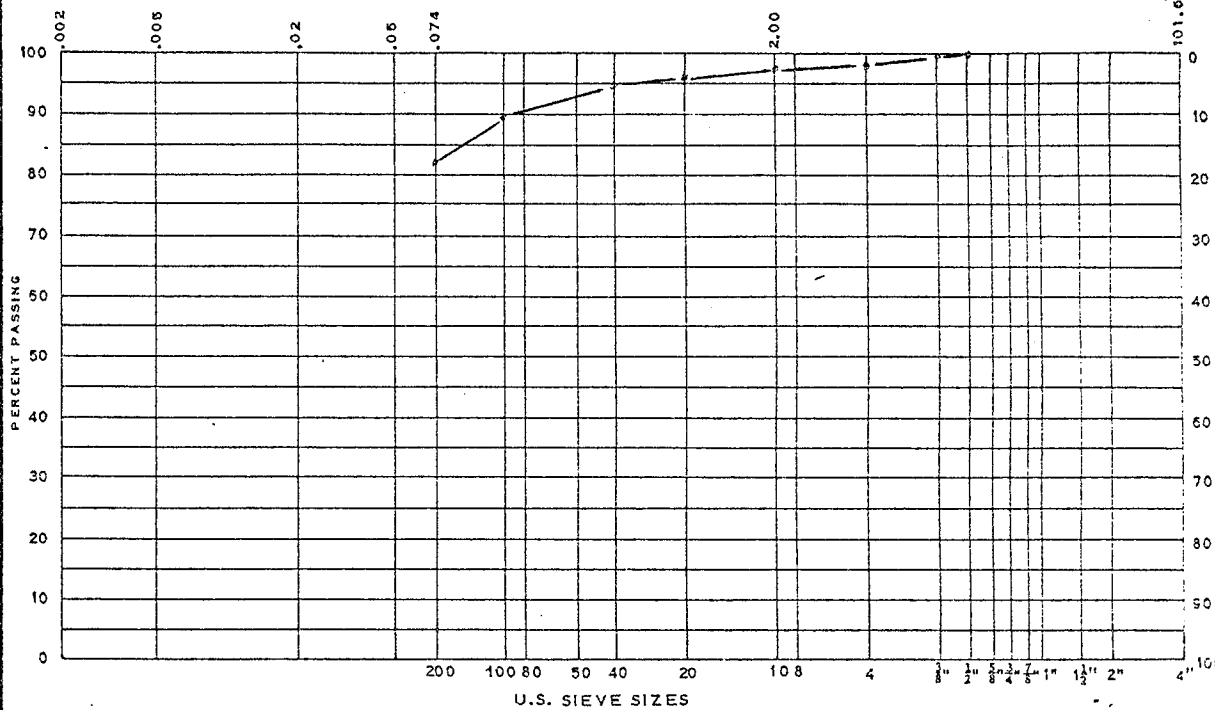


AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE	SIEVE ANALYSIS										
		SAMPLE NUMBER										
100.0	#12											
99.2	#30											
97.7	#40											
97.0	#10											
96.1	#20											
94.7	#40											
89.3	#100											
81.8	#200											
% + 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
		A-4			0.0							
		ML										
INORGANIC SILT AND FINE SAND												

AGGREGATE GOING CHART



CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DENVER HIGHWAY CONSTRUCTION  
 LOCATION STA 1550+10  
 HOLE No. \_\_\_\_\_ DEPTH 1'-5"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED June 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 297  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE 6/1/69

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

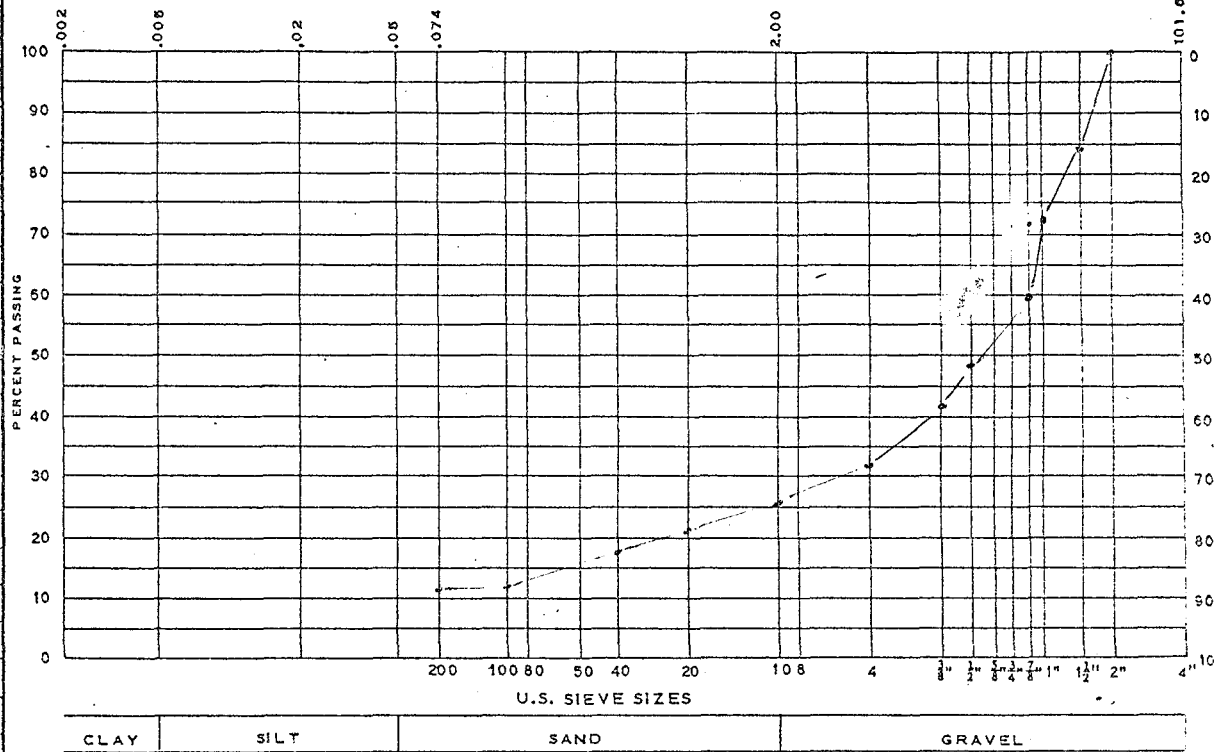
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS			
	SIEVE	WEIGHT	SIEVE	WEIGHT
100.0	2	26.1	#10	
84.9	1/2	20.6	#20	
76.2	1	17.4	#40	
59.4	3/4	12.6	#60	
48.0	1/2	10.6	#80	
41.1	3/8			
31.5	#4			

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	W.A. % LOSS	M.G. SO <sub>4</sub> % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		GW-GM										
		WELL GRADED SILTY GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION: STN: 1545+00 ADD 1535+00  
 HOLE No.: DEPTH: 2'-9" : 0'-8"  
 SAMPLE TYPE: DATE SAMPLED: June 69  
 FIELD SAMPLE No.: LAB SAMPLE No: 215 & 246  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEVELOPER / HW TEST HOLE NO. 316-317-318-319  
 LOGGED BY EL Malvern DATE 12/14 STATION 1535-1530  
 ENTERED BY T. Collins DATE 12/14 1525-1520  
 CHECKED BY Blushki DATE 12/14 HOLE ADVANCED BY 4" Auger D-4 Cat

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	P. 1					
222										10		Sandy, Silty, Gravel Large Cobbles Dry ← Refusal (Rock) <span style="float: right;">T.H. 316</span>
										10		
										7		Sandy Silty Gravel Cobbles <span style="float: right;">T.H. 317</span>
										10		← Refusal (Rock)
										10		Sandy Silty Gravel, Cobbles <span style="float: right;">T.H. 318</span>
										10		← Refusal (Rock)
223										2		← Overburden ← Silt, Sand, Clay <span style="float: right;">T.H. 319</span>
224										10		Sandy Gravel Cobbles

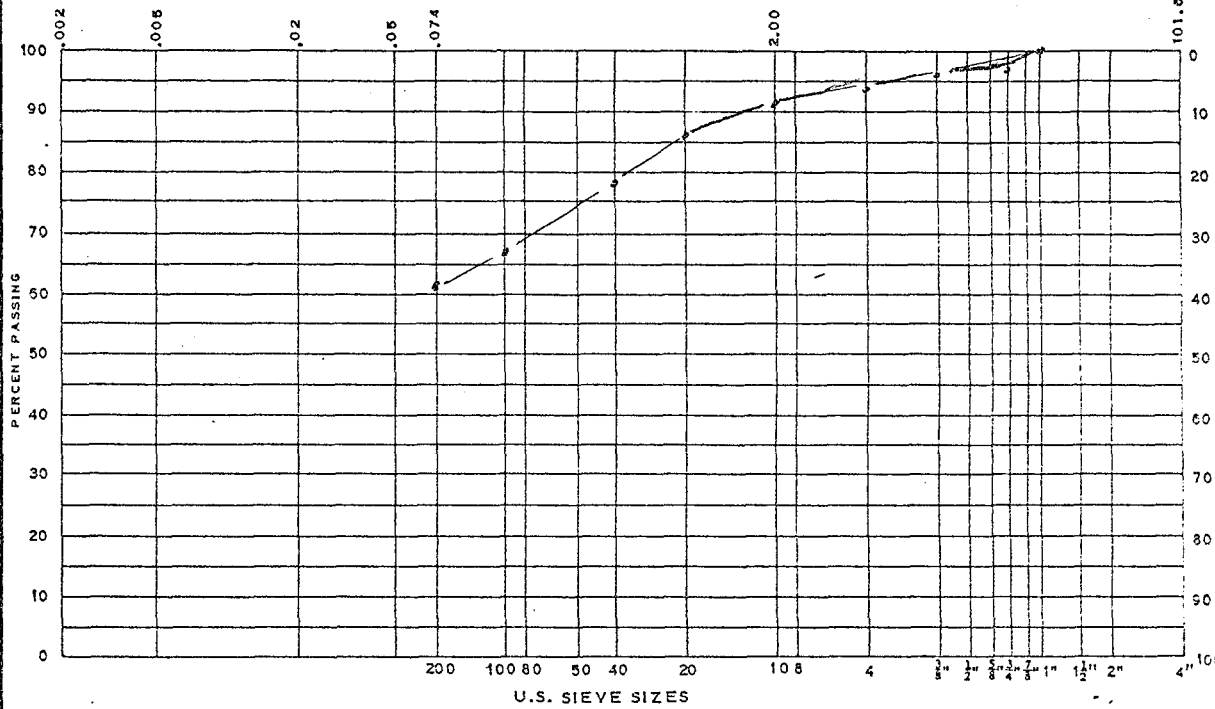
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

F

% FINER BY WEIGHT		SIEVE ANALYSIS	
SIEVE	% FINER	SIEVE	SIEVE NUMBER
100.0	1	90.5	#10
97.4	3/4	86.2	#20
-	1/2	76.9	#40
96.3	3/8	66.9	#100
94.0	#4	62.0	#200

AGGREGATE GRADING CHART



CLAY      SILT      SAND      GRAVEL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
		A-4	25.7	23.6	2.1							
		ME										
		LOW PLASTIC INORGANIC SILT										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION STA 1520+00  
 HOLE No. \_\_\_\_\_ DEPTH 1' - 2'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 234297  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

AGGREGATE DEPOSIT REPORT (Cont'd)

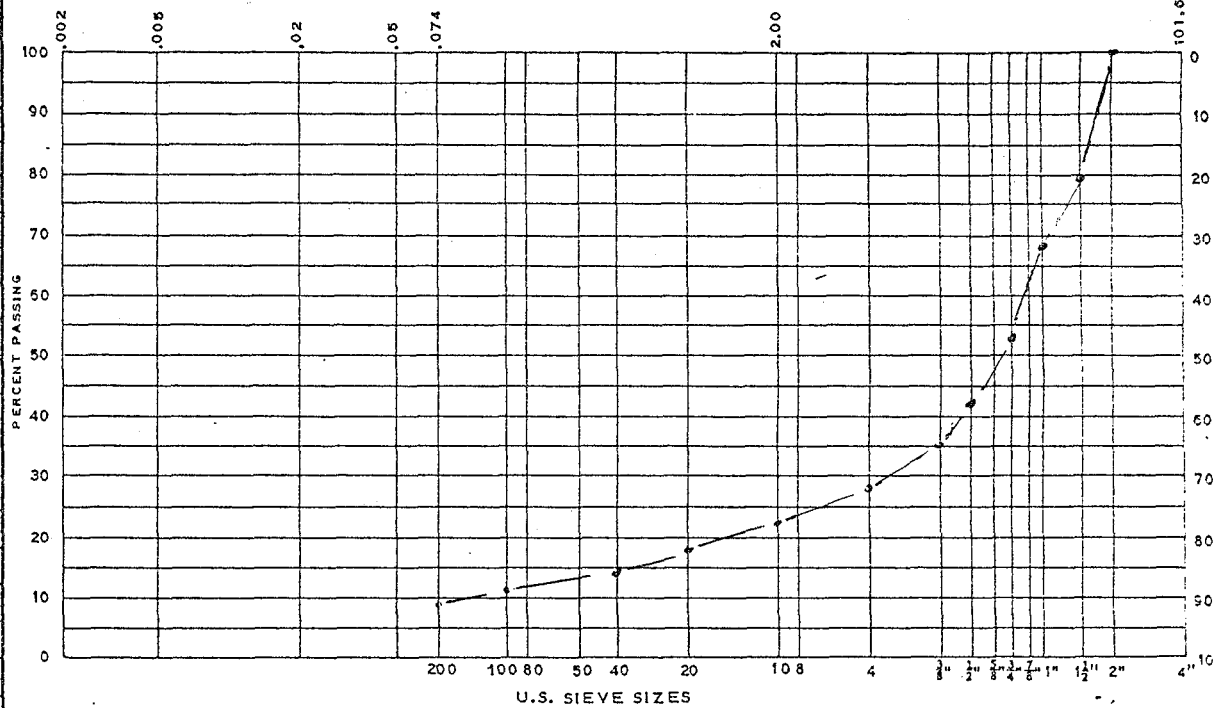
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	FINER SIEVE
100.0	2	30.5 #10
79.8	1/2	18.0 #30
67.8	1	14.9 #40
53.7	3/4	10.8 #150
41.7	1/2	9.0 #200
35.0	5/8	
27.4	#4	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.W. - G.M.										
		WELL GRADED SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DUNSTER HIGHWAY CONSTRUCTION  
 LOCATION: STA. 1520 +00  
 HOLE No.: ..... DEPTH: 2'-10'  
 SAMPLE TYPE: ..... DATE SAMPLED: JUNE/69  
 FIELD SAMPLE No.: ..... LAB SAMPLE No.: 248  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

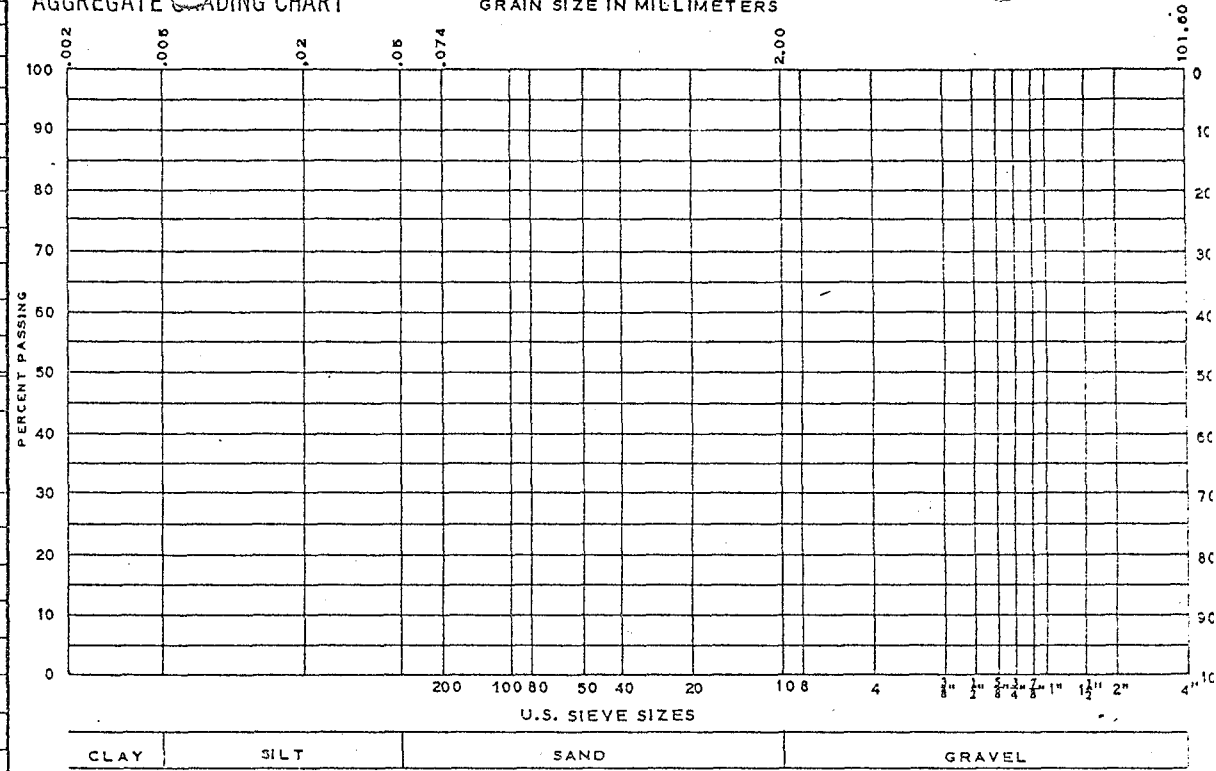
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT Dempster Hwy TEST HOLE NO. 920-321-322-323  
 LOGGED BY Ed Melanson DATE June 16/69 STATION 1515 - 1510  
 ENTERED BY J. Cairns DATE Aug 12/69 1505 - 1500  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Auger Molate

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75						
225										0		Overburden Frozen Silty Clay	T.H. 320
										7			
										10		Sandy Gravel, Cobbles	
										4		Road Fill	T.H. 321
										7		Wet Silty Sandy Gravel, cobbles	
										10			
										4		Road Fill	T.H. 322
										6		Silt, Clay	
										10		Gravel, Large Cobbles Wet @ 7'	
226										2 1/2		Overburden Silty Sand	T.H. 323
										8		"Wet" Sandy Gravel Large Cobbles	
										10		Refusal	

% FINER BY WEIGHT		SIEVE ANALYSIS												
		SAMPLE NUMBER												
>75% PASSING #200														
% + 4"														
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SOL. % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.		
		A-4	28.9	160	104									
		CL.												
		MEDIUM PLASTIC INORGANIC CLAY												

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION STN: 15 15 +00  
 HOLE No.                                  DEPTH 1' - 7'  
 SAMPLE TYPE                                  DATE SAMPLED JUNE/69  
 FIELD SAMPLE No.                                  LAB SAMPLE No. 249  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

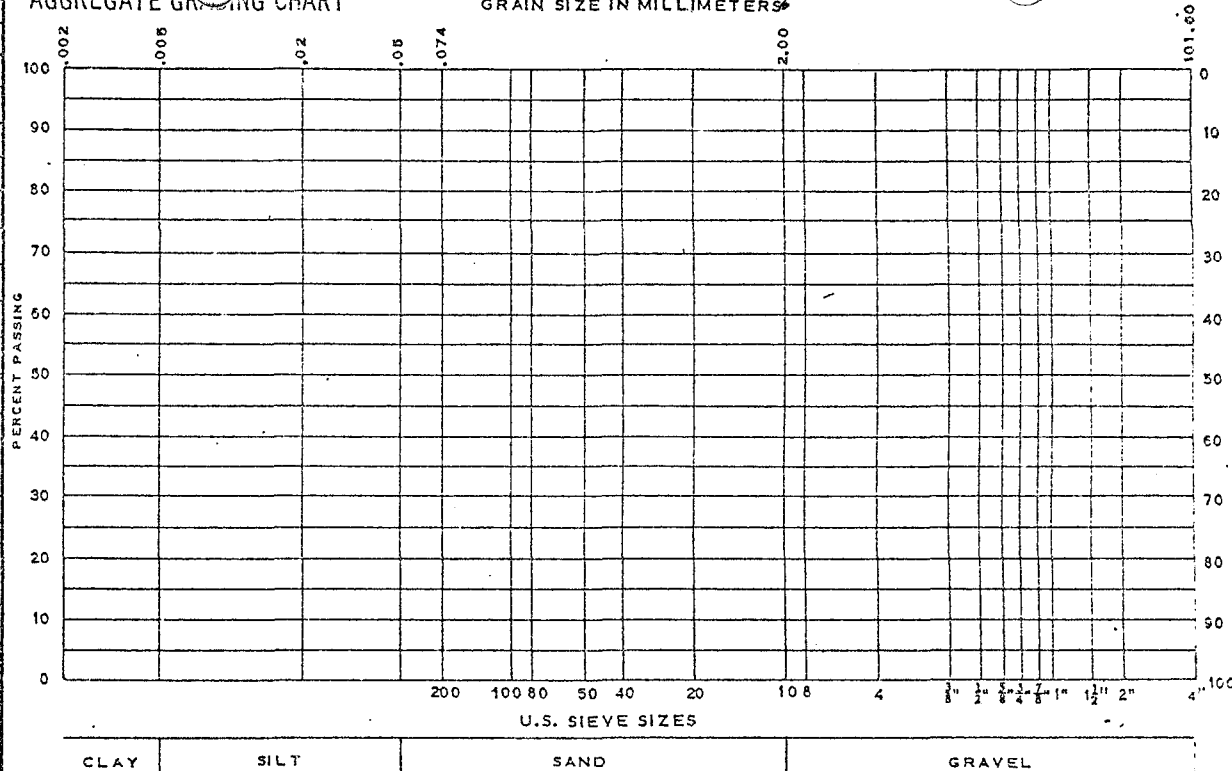
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

FINER BY WEIGHT		SIEVE ANALYSIS SAMPLE NUMBER										
		75% PASSING #200										
+ 4"												
AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 ML			00							
INORGANIC SILT WITH VERY FINE SAND												

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT DEMISTER #1-WAY CONSTRUCTION  
 LOCATION STA. 1500±00  
 HOLE NO.      DEPTH 1'-2 1/2'  
 SAMPLE TYPE      DATE SAMPLED JUNE '69  
 FIELD SAMPLE No.      LAB SAMPLE No. 250  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMOLITION HAY TEST HOLE NO. 324-325-326-327  
 LOGGED BY Ed Melanson DATE June 16/69 STATION 1495 - 1490  
 ENTERED BY J. Cairns DATE Aug 12/69 1485 - 1480  
 CHECKED BY J. Cairns DATE Aug HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
									1 1/2		Overburden	T.H. 324
									2		Silty Sand	
									9		"Wet" Sandy Gravel	
									10		Refusal	
									3		Road Fill	T.H. 325
									8		"Wet" Silty Sandy Gravel	
									10		Large Stones	
									1		Overburden	T.H. 326
227									6		Silty Sand	
									10		Sandy Gravel	
											Cobbles	
											Bush Pile	T.H. 327
									10			
									15		Sandy Silty Gravel	

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SAMPLE NUMBER	
> 75% PASSING #200		

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	26	4	32	34						
		AL										
LO PLASTIC INORGANIC SILTS												

TYPICAL PETROGRAPHIC ANALYSIS

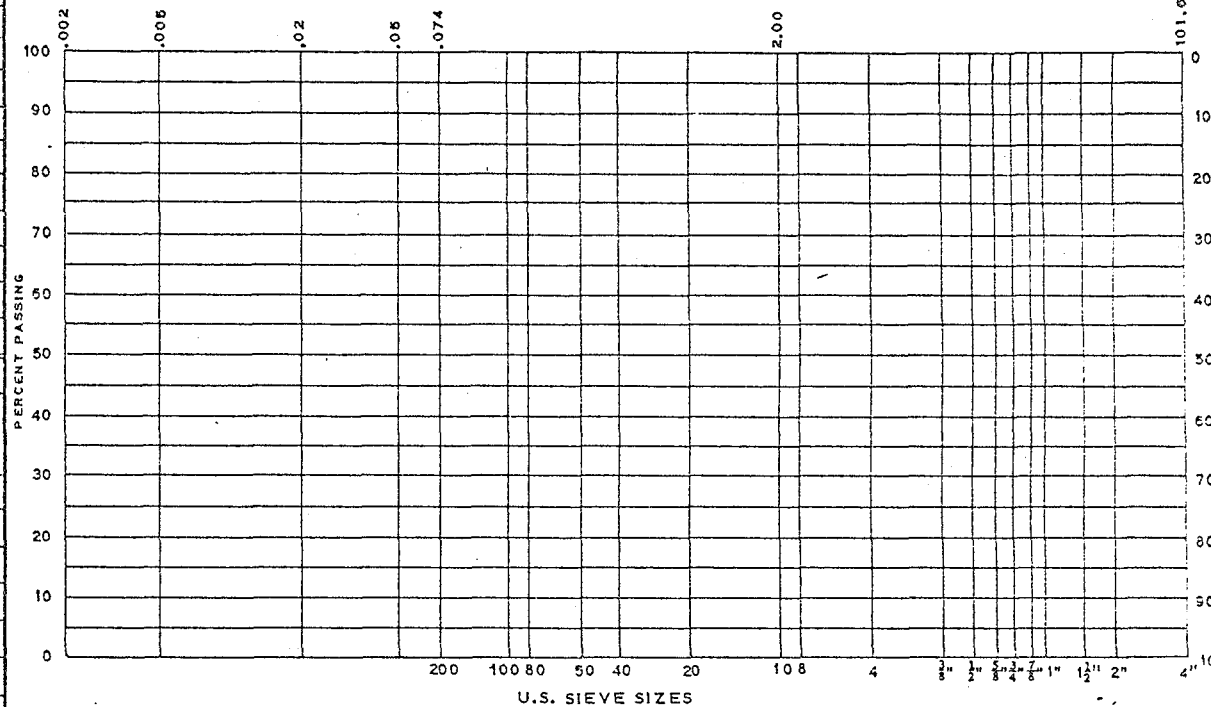
COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

AGGREGATE LOADING CHART



CLAY	SILT	SAND	GRAVEL
------	------	------	--------

LABORATORY'S REMARKS

PROJECT DEMPESTER HIGHWAY CONSTRUCTION  
 LOCATION STN: 148.5 +00  
 HOLE No. \_\_\_\_\_ DEPTH 1'-6'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 251  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 328-329-330-331  
 LOGGED BY Ed Melanson DATE June 16/69 STATION 1475 - 1470  
 ENTERED BY T. Cairns DATE Aug 12/69 1465 - 1460  
 CHECKED BY A.H. Smith DATE Aug HOLE ADVANCED BY 4" Auger Machine

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75						
										2		Road Fill sandy Silty Gravel cobbles	T.H 328
										10			
										10		Bush Pile	T.H 329
										15		Sandy Gravel cobbles	
										7		← Overburden	T.H 330
										3		Silty Sand	
										10		Sandy Gravel	
										14		← Overburden	T.H 331
										3		← Silty Sand	
324													
										10		Sandy Gravel Cobbles	



AGGREGATE DEPOSIT REPORT (Cont'd)

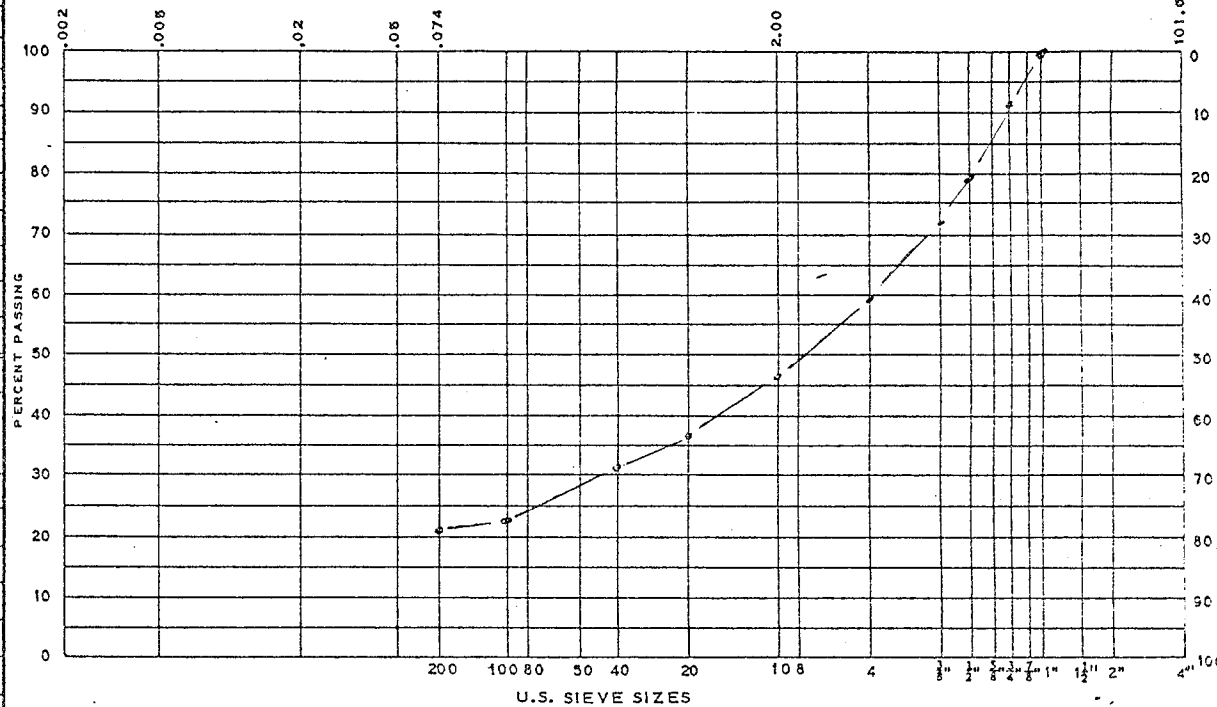
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	#10	46.8
98.3	#20	36.6
77.8	#40	30.4
73.0	#100	28.9
59.2	#200	21.5

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
		A-1-a SM SILTY SAND			0.0							

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION STA. 1450+00  
 HOLE No. \_\_\_\_\_ DEPTH 2'-10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 252  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

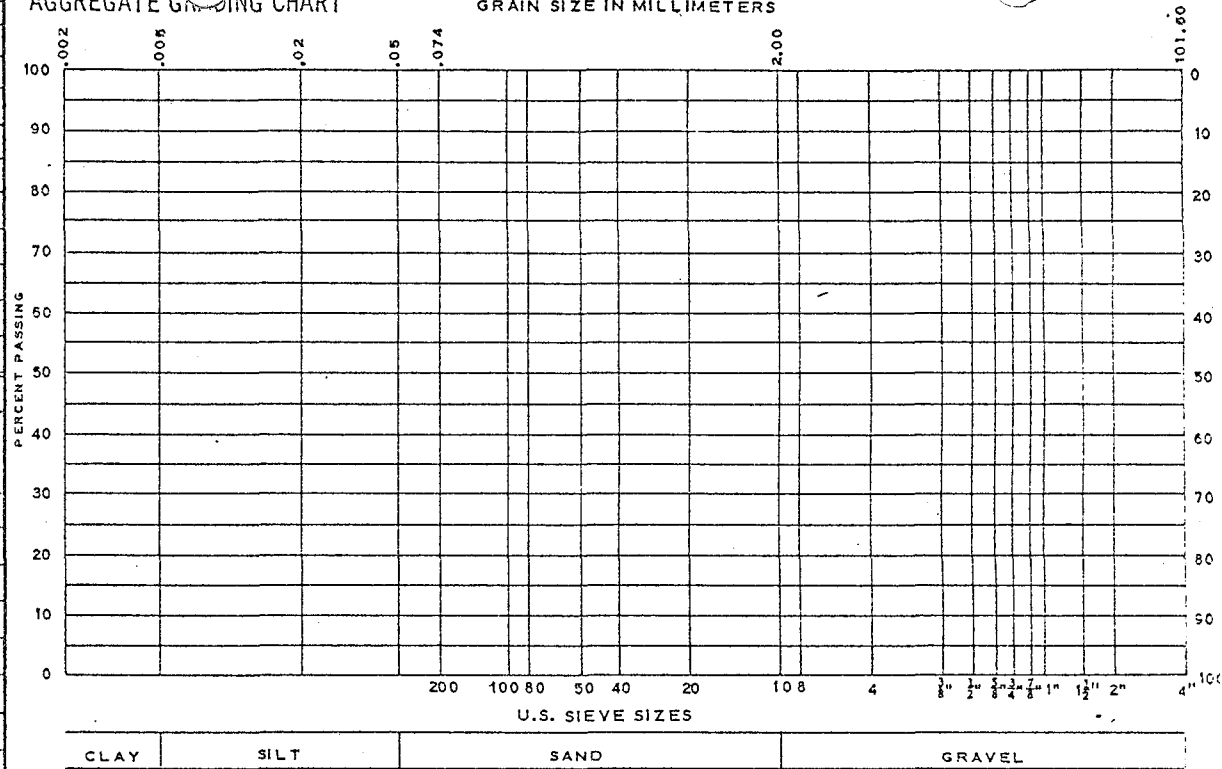
DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT		SIEVE ANALYSIS SAMPLE NUMBER										
<p>&gt; 75% PASSING # 200</p>												
% + 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-5	10.8	31.1	9.7							
		ML	INORGANIC LO PLASTIC SILT									

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT..... DEMPSTER HIGHWAY CONSTRUCTION

LOCATION..... STN: 1440+00

HOLE No..... DEPTH..... 1 1/2' - 5'

SAMPLE TYPE..... DATE SAMPLED JUNE/69

FIELD SAMPLE No..... LAB SAMPLE No. 253

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DAMPSTER HAY TEST HOLE NO. 336-337-338-339  
 LOGGED BY Ed Melanson DATE June/69 STATION 1425-1430  
 ENTERED BY J. Cairns DATE Aug 12/69 1425-1420  
 CHECKED BY [Signature] DATE Aug HOLE ADVANCED BY 4" Auger - Mohite

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	P. 20	P. 10					
									1 1/2			← Overburden Black Silty Sand Some clay Frozen for 2'
									6			
									10			Sandy Gravel
									2			Overburden
									4			Partly Frozen Silty Sand, Clay
									7			silty Sandy Gravel
									10			Cobbles (spruce trees)
									2			Overburden
									3 1/2			← Silty Sandy Clay
									10			Sandy Gravel
									2			Overburden
									8			"Wet" Silty Sand, Clay
230									10			Sandy Gravel
									12			Cobbles

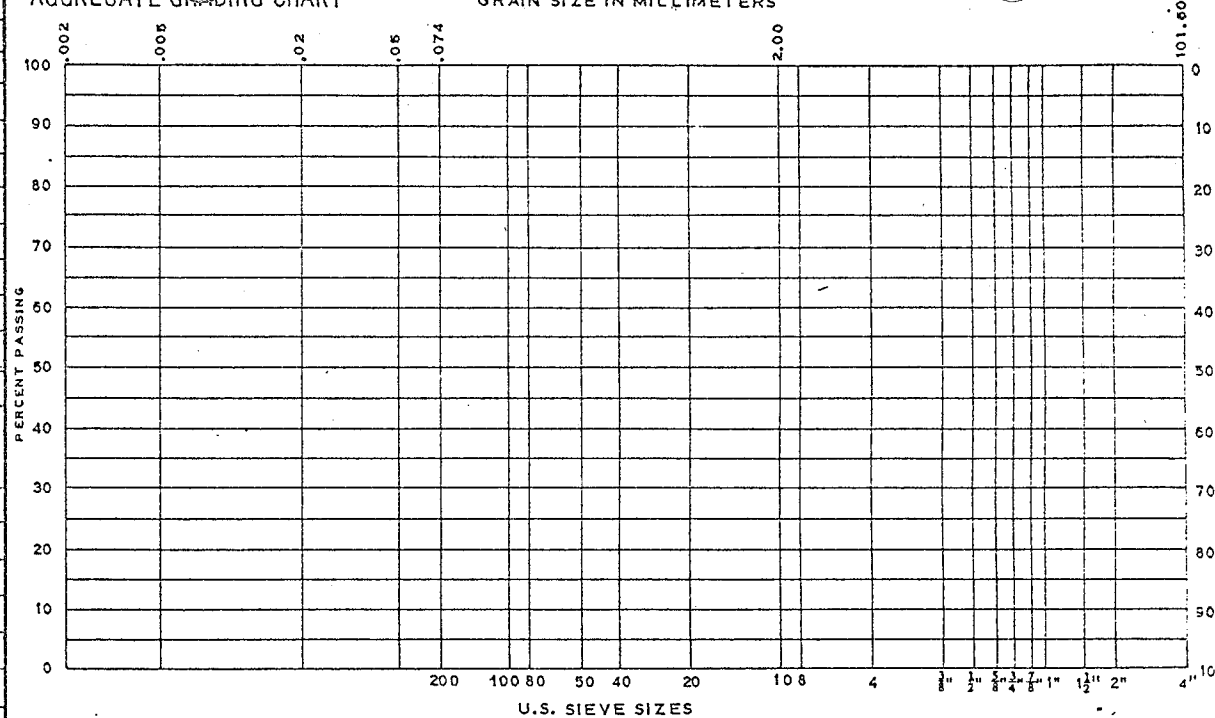
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT		SIEVE ANALYSIS										
		SAMPLE NUMBER										
		> 75% PASSING # 200										
% + 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-7-5	42.7	25.7	17.0							
		CL MEDIUM PLASTIC INORGANIC CLAY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION: STN. 1420 +00  
 HOLE No. \_\_\_\_\_ DEPTH: 2'-8'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: 5/16/62  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 254  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 340-341-342-343  
 LOGGED BY Ed Melanson DATE June/69 STATION 1415 - 1410  
 ENTERED BY J. Cairns DATE Aug 12/69 1405 - 1400  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	U.C.S.	P.L.	P.L.						
										1		Road Fill	T.H. 340
										4			
										6		DAMP Silty Sandy Clay	
										10		Sandy Gravel	
										3		Road Fill	T.H. 341
										7		Sandy Clay	
										10		Sandy Gravel	
										4		Road Fill	T.H. 342
232										7		Sandy Clay "Wet" at 7'	
										8		Small Stones	
										10		Gravel	
										11			
										4		Road Fill	T.H. 343
										6		Silty Sandy Clay	
										10		Sandy Gravel Cobbles	

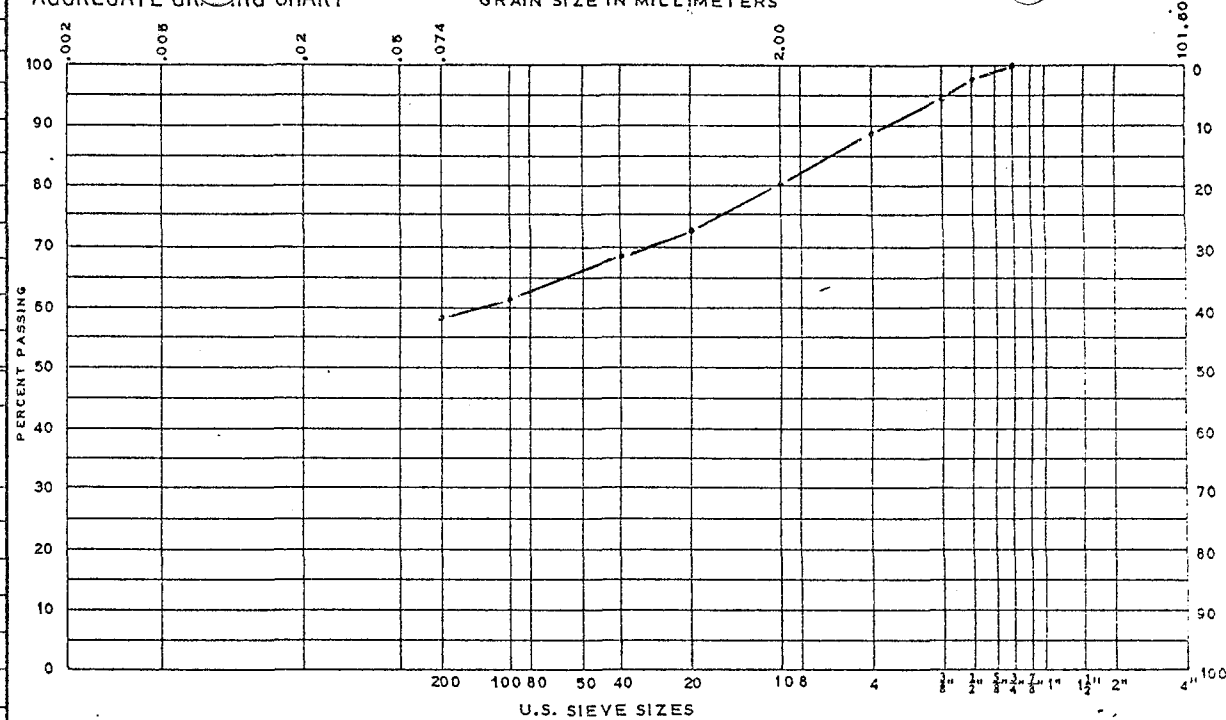
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT		SIEVE ANALYSIS										
		SAMPLE NUMBER										
100.0	3/4"											
97.3	1/2											
94.9	3/8											
88.2	#4											
80.2	#10											
22.9	#20											
68.3	#40											
61.9	#100											
58.3	#200											
% + 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	22.9	18.7	3.7							
		ML										
INORGANIC SILT AND FINE SAND												

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DENVER HIGHWAY CONSTRUCTION  
 LOCATION STA. 1405+00  
 HOLE No. \_\_\_\_\_ DEPTH 4'-8"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED June 16, 1970  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 257  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

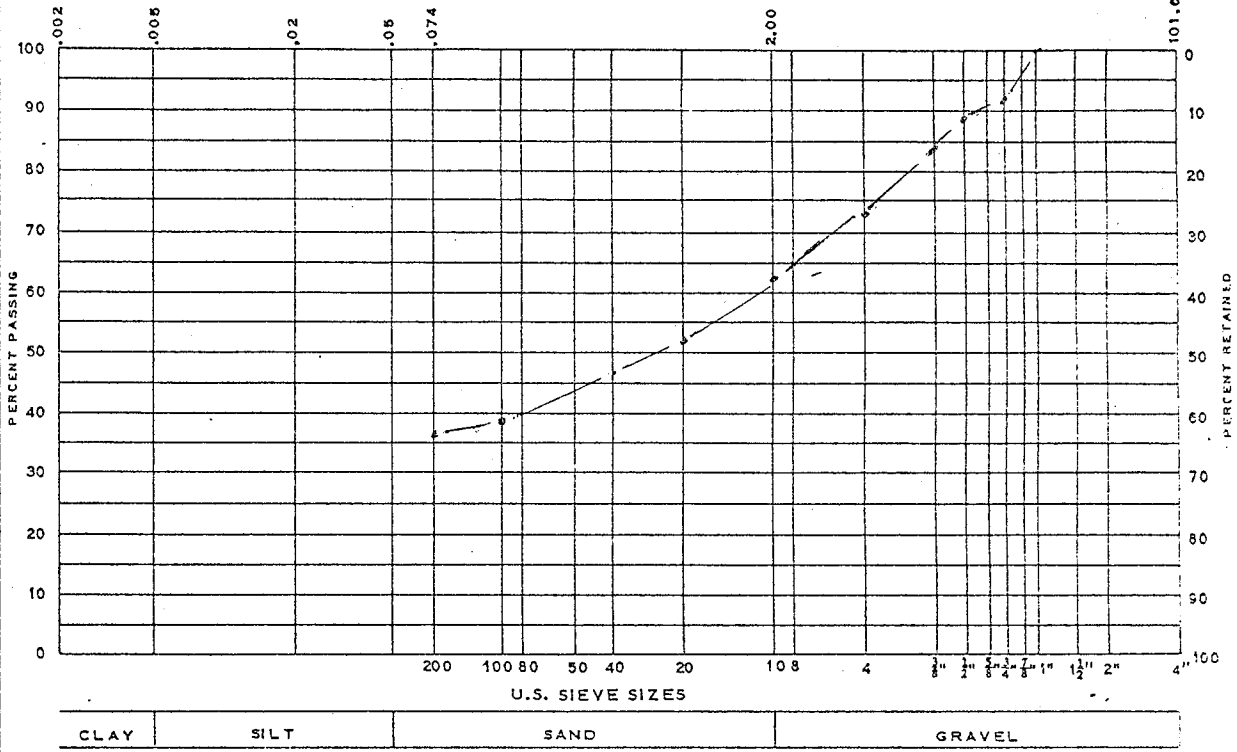
DATE 6/19/70

MATERIALS ENGINEER'S REMARKS

AGGREGATE DEPOSIT REPORT (Cont'd)

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	SAMPLE NUMBER
100.0	1	61.3 #10
93.5	3/4	51.4 #20
89.2	1/2	45.7 #40
84.3	3/8	38.9 #100
73.7	#4	36.0 #200

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 50.4 % LOSS	BSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 SM SILT SAND MIXTURE										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 1410 +00

HOLE No. \_\_\_\_\_ DEPTH 3'-7'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JULY/65

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 255

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DUMPSITE HWY TEST HOLE NO. 344-345-346-347  
 LOGGED BY Ed Melanson DATE June 16/69 STATION 1395 - 1390  
 ENTERED BY T. Cairns DATE Aug 12/69 1385 - 1380  
 CHECKED BY C. K. Kishki DATE Aug HOLE ADVANCED BY 4" Auger 14 1/2'

SAMPLE NO.	% PASSING LIMITS				Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4					
							2		Road Fill Silt, Sandy, Clay With Stones
							10		
							3		Road Fill "Dry" Silt, Sandy, Clay With Stones
							10		
							4		Road Fill Silt, Sandy, Clay "Dry" Broken Rock
							10		
							2		Road Fill Silt, Sand, Clay Broken Rock ("Dry")
							10		

AGGREGATE DEPOSIT REPORT (Cont'd)

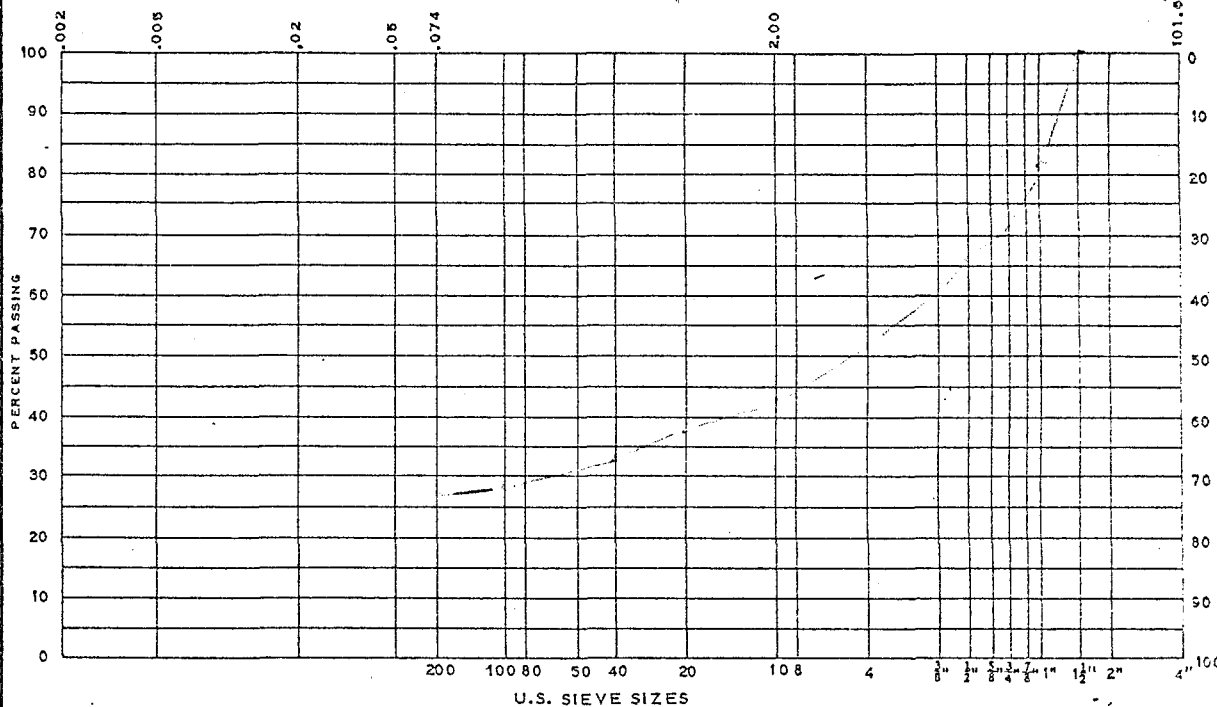
SHEET

OF

% FINER BY WEIGHT	SIEVE ANALYSIS		SAMPLE NUMBER	
	SIEVE	% FINER	SIEVE	
100.0	1 1/2"	43.6	#10	
81.6	1"	37.5	#20	
70.9	3/4"	34.0	#40	
66.6	1/2"	29.4	#100	
60.0	3/8"	27.4	#200	
57.2	#4			

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.3	22.7	2.6							
		A-2-4										
		S.M.										
		SILT - SAND MIXTURE										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION STA 1395+00  
 HOLE No. \_\_\_\_\_ DEPTH 2'-10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE/69  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 256  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

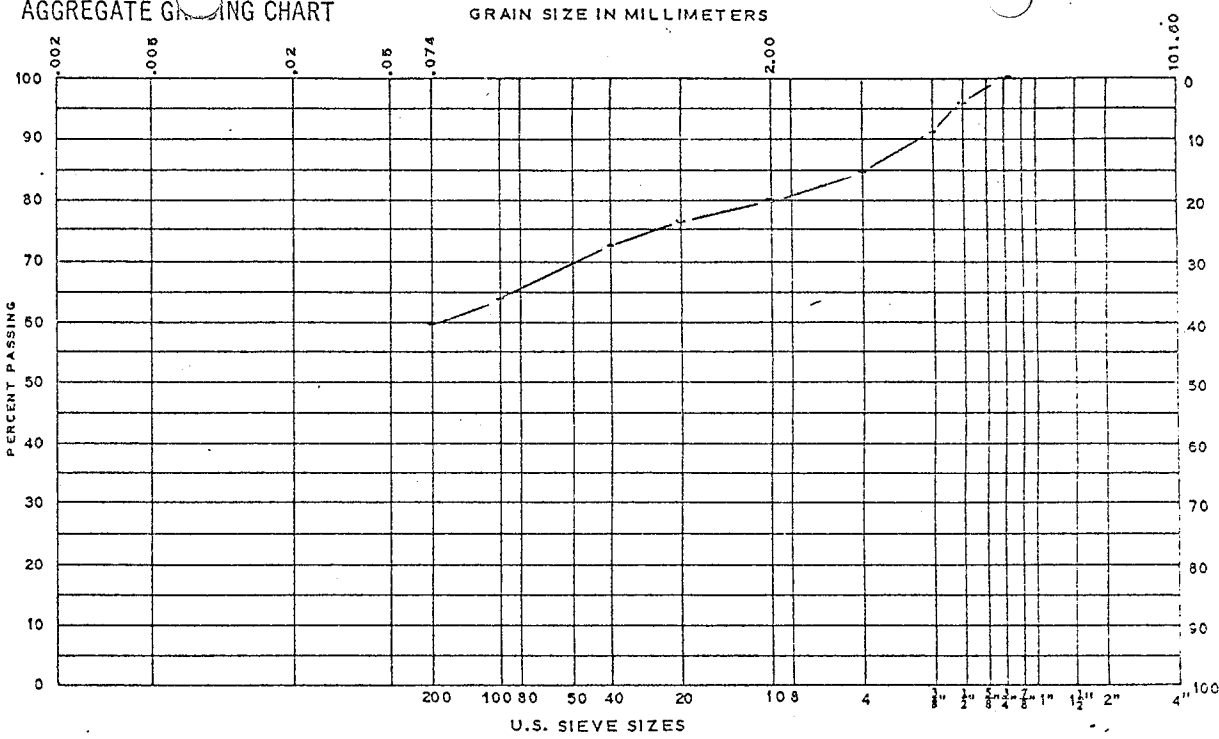
PROJECT DEMPSTER HWY TEST HOLE NO. 348-349-350-351  
 LOGGED BY ED Melanson DATE June/69 STATION 1375-1370  
 ENTERED BY J. Cairns DATE Aug 12/69 1365-1360  
 CHECKED BY [Signature] DATE \_\_\_\_\_ HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	P. 1					
									3		Road Fill	T.H. 348
									10		Dry silt, sand, clay with broken rock	
									11			
233									2		Overburden	T.H. 349
									5		silt, sand, clay	Frozen
									10		Broken Rock Clay	Silt, Sand
									7		Wind Row PILE	T.H. 350
									10		Silt, sand, clay	
									12		Broken - Rock	
									2		Road Fill	T.H. 351
											Silt, sand	
									10		Clay Broken Rock & Cobbles	

% FINER BY WEIGHT		SIEVE ANALYSIS	
SIEVE		SAMPLE NUMBER	
100.0	#4	77.4	#10
96.3	#10	75.6	#20
91.5	#30	72.5	#40
81.6	#40	64.2	#100
		59.8	#200

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-A			0.0							
		ML										
		INORGANIC SILT AND SAND										

AGGREGATE GRADING CHART



CLAY SILT SAND GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEARBSTER HIGHWAY CONSTRUCTION  
 LOCATION: STA. 1370+00  
 HOLE No. .... DEPTH: 2'-5'  
 SAMPLE TYPE ..... DATE SAMPLED JUNE 1969  
 FIELD SAMPLE No. .... LAB SAMPLE No. 258  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER [Signature] DATE 3/4/70

MATERIALS ENGINEER'S REMARKS

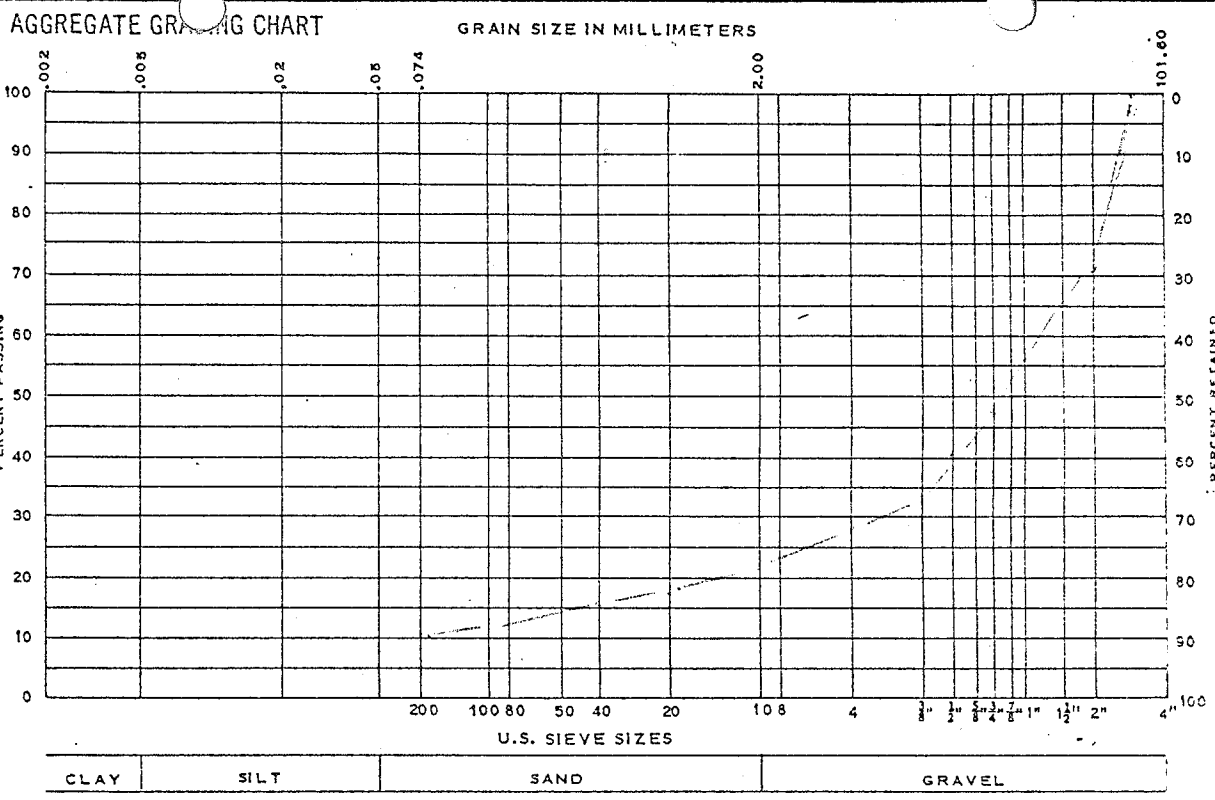
MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT Bo WEMPSTER HWY TEST HOLE NO. 352-353-354-355  
 LOGGED BY Ed Melanson DATE June/69 STATION 1355-1350  
 ENTERED BY J. Cairns DATE Aug 12/69 1345-1340  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
									2			Road Fill "Dry" T.H. 352
234									2			"Dry" silt, sand, gravel
									2			With cobbles
									10			Refusal
									2			Road Fill T.H. 353
									2			silt sand gravel
									7			cobbles
									10			
									3			Road Fill T.H. 354
									3			silt, sandy gravel
									10			cobbles
									2			Road Fill T.H. 355
									2			silt, sand, gravel
									2			Large cobbles.
									10			Refusal

FINER BY WEIGHT	SIEVE ANALYSIS		SIEVE	%	FINER
	SIEVE	SIEVE			
130.0	3	22.3	#10		
70.7	2	16.5	#20		
66.2	1 1/2	16.1	#40		
56.5	1	12.7	#100		
48.4	3/4	10.7	#200		
40.6	1/2				
34.7	3/8				
27.1	1/4				



AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	USPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		W.G.M.										
		WELL GRADEN SILTY GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 1355+00

HOLE No. \_\_\_\_\_ DEPTH 3'-8"

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED \_\_\_\_\_

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 258

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 356-357-358-359  
 LOGGED BY Ed Melanson DATE June/69 STATION 1335-1330  
 ENTERED BY J. Colons DATE Aug/2/69 1325-1320  
 CHECKED BY [Signature] DATE Aug HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS							Public. Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
									2		Road Fill	T.H. 356
									3		sand	
									10		silt sand	
									12		Gravel	
									2		Road Fill	T.H. 357
									3		sand	
									10		silt sand Gravel cobbles	
									2		Road Fill	T.H. 358
									10		Silt, Sandy Gravel cobbles	
									2		Road Fill	T.H. 359
									7		silty Sandy Gravel	
									9		Large cobbles	
									10		Refusal	

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DUMFRIES FLUX TEST HOLE NO. 360-361-362-363  
 LOGGED BY Ed Melanson DATE June 6/69 STATION 1315-1317  
 ENTERED BY J. Cairns DATE Aug 12/69 1305-1300  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY \_\_\_\_\_

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	P.L.					
										2		Road Fill T.H. 360
										9		Silty Sandy Gravel Large Cobbles ← Refusal
										10		
										1		← overburden Sandy Gravel Large Stone T.H. 361
										10		← Refusal
										1 1/2		← overburden silt sand T.H. 362
										5		Sand Gravel Cobbles ↑ Refusal
										10		
												Stripped Sandy Gravel Cobbles T.H. 363
										10		← Refusal

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DAMPSTER HWY TEST HOLE NO. 364-365-366-367  
 LOGGED BY Ed Melanson DATE June / 69 STATION 1295 - 1290  
 ENTERED BY J. Cairns DATE Aug 12 / 69 1285 - 1280  
 CHECKED BY M. K. ... DATE ... HOLE ADVANCED BY 411 Auger Mobile

SAMPLE NO.	% PASSING LIMITS								Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75	No. 0.425						
											4		stripped Sandy Gravel Cobble ↑ Refusal	T.H. 364
											10			
											3 1/2		stripped ← sandy Gravel ↑ Refusal Cobble	T.H. 365
											10			
											2		stripped Road Fill	T.H. 366
											8		Sand, Gravel, Cobble Boulders ↑ Refusal	
											10			
											2		Road Fill stripped	T.H. 367
											6		sandy Gravel Boulders ↑ Refusal Cobble	
											10			

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMETER HWY TEST HOLE NO. 368-369-370-371  
 LOGGED BY Ed Melanson DATE June 27/69 STATION 1275 - 1270  
 ENTERED BY J. Cairns DATE Aug 12/69 1265 - 1260  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	P.L.						
										3		Road Fill Stripped	T.H. 368
										7		Sandy Gravel	
										10		Cobbles Boulders	
												↑ Refusal	
										4		Road Fill	T.H. 369
										6		Overburden	
235										10		Silty Sandy Gravel cobbles	
										4		Road Fill	T.H. 370
										6		Overburden	
236										9		Frozen Organic Silt With Some Rock	
										10		↑ Refusal	
										4		Road Fill	T.H. 371
										10		Frozen Organic Silt With Some Rock	
												↑ Refusal	

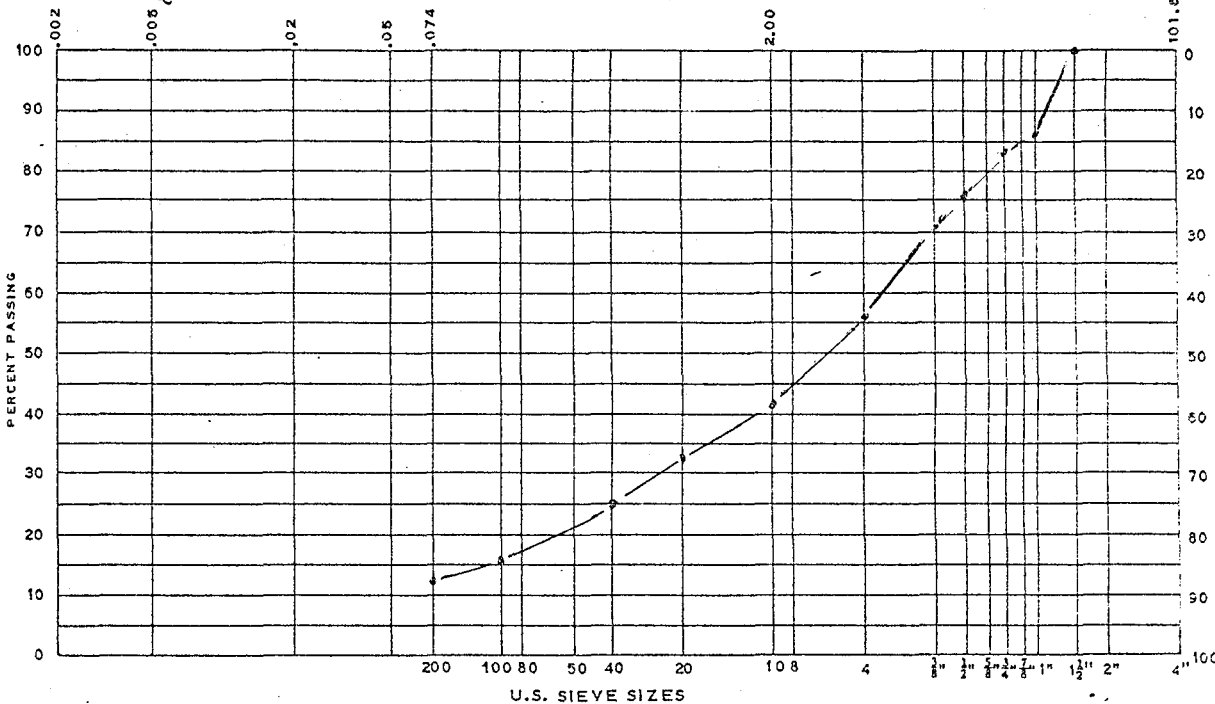
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	#10	43.3
86.3	#20	32.9
64.1	#40	25.0
45.1	#100	15.3
20.5	#200	12.9
5.9	#4	

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		SILT SANDS										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION STA. 1270 +00  
 HOLE No. \_\_\_\_\_ DEPTH 6'-10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE/89  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 260  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

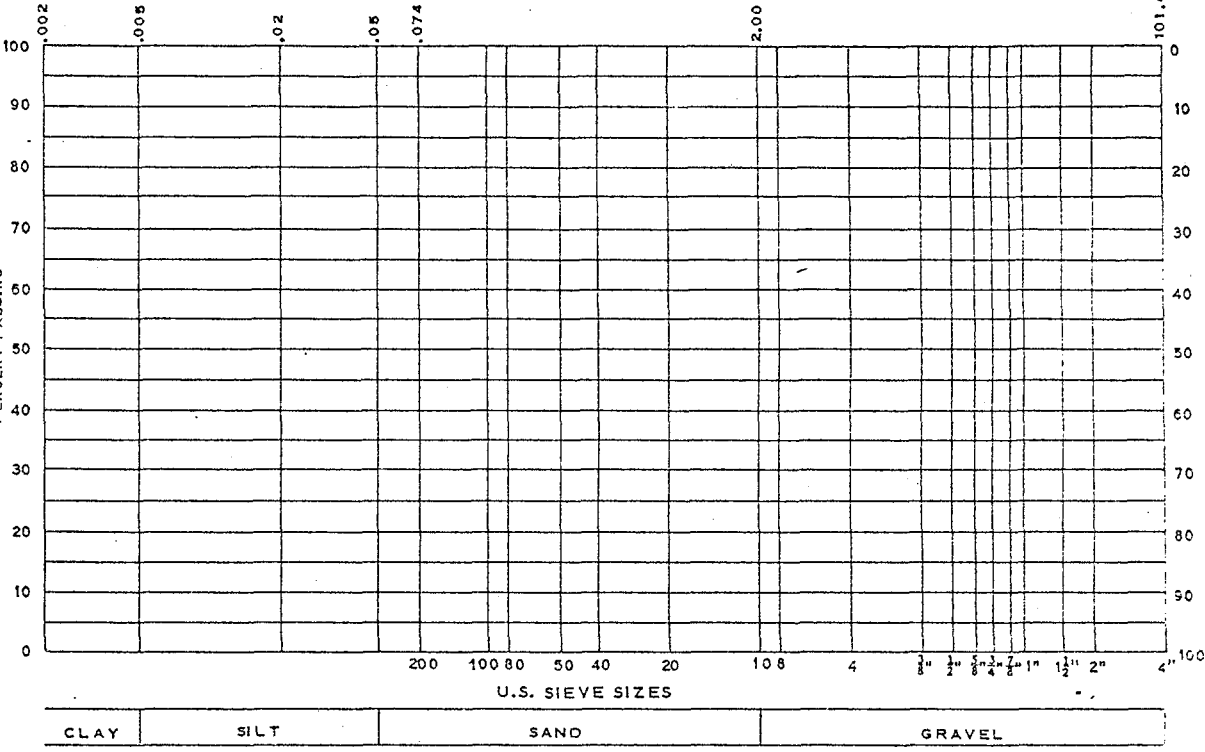
DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

SIEVE ANALYSIS												
SAMPLE NUMBER												
% FINER BY WEIGHT												
% + 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	OSPc	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		Pc.										
		Pc., HIGHLY ORGANIC SOIL										

AGGREGATE GRADING CHART



LABORATORY'S REMARKS

PROJECT DEMPETER AIRWAY CONSTRUCTION  
 LOCATION STA 1265+00  
 HOLE No.          DEPTH 6-9'  
 SAMPLE TYPE          DATE SAMPLED JUNE 1965  
 FIELD SAMPLE No.          LAB SAMPLE No. 261  
 D. P. W. WHITEHORSE - SOILS LAB

6/17/70  
DATE SA

TESTING ENGINEER

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER Hwy TEST HOLE NO. 372-373-374-375  
 LOGGED BY Ed Melanson DATE June 1969 STATION 1235-1250  
 ENTERED BY J. Cairns DATE Aug 13/69 1245-1240  
 CHECKED BY W. Kelso DATE Aug 1969 HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	P. 1	P. 1					
										3		Road Fill <span style="float: right;">T.H 372</span>
237										7		Silty Sand Broken Rock ↑ Refusal
										10		
										12		← overburden
										3		Frozen Silty Clay, small Stones <span style="float: right;">T.H 373</span>
										6		Frozen silt Sand, Broken Rocks ↑ Refusal
										10		
										2		Overburden
										5		Silt, Sand Broken Rock ↑ Refusal <span style="float: right;">T.H 374</span>
										10		
										12		← overburden
239										3		Frozen Silty Clay Some Rocks <span style="float: right;">T.H 375</span>
										10		↑ Refusal

AGGREGATE DEPOSIT REPORT (Cont'd)

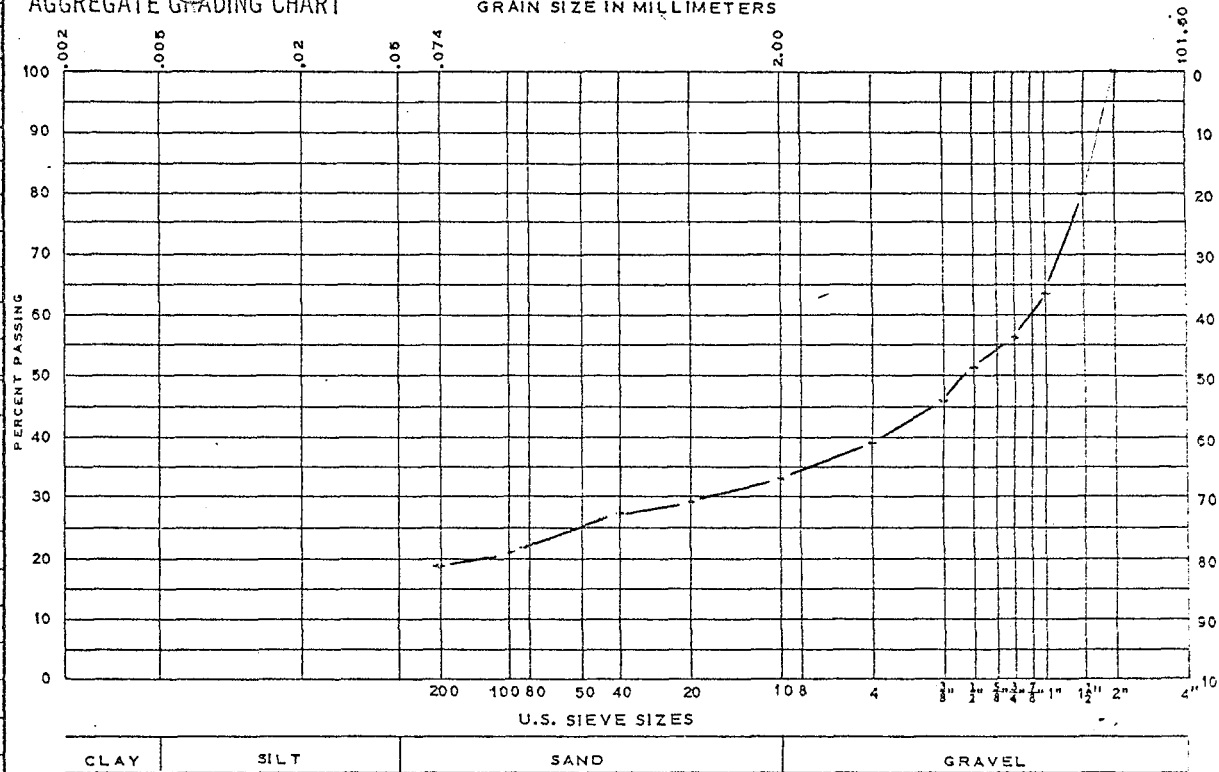
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	2"	33.3 #10
79.9	1 1/2"	29.3 #20
64.1	1"	27.3 #40
56.2	3/4"	26.3 #100
51.9	1/2"	18.9 #200
42.7	3/8"	
38.7	#4	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
		A-1-b	20.7	44.3								
		GP										
		ROAD-J- GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMONSTRATION HIGHWAY CONSTRUCTION  
 LOCATION STA. 1255+00  
 HOLE No. \_\_\_\_\_ DEPTH 5'-7'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 262  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

1/4/70  
ESJ

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

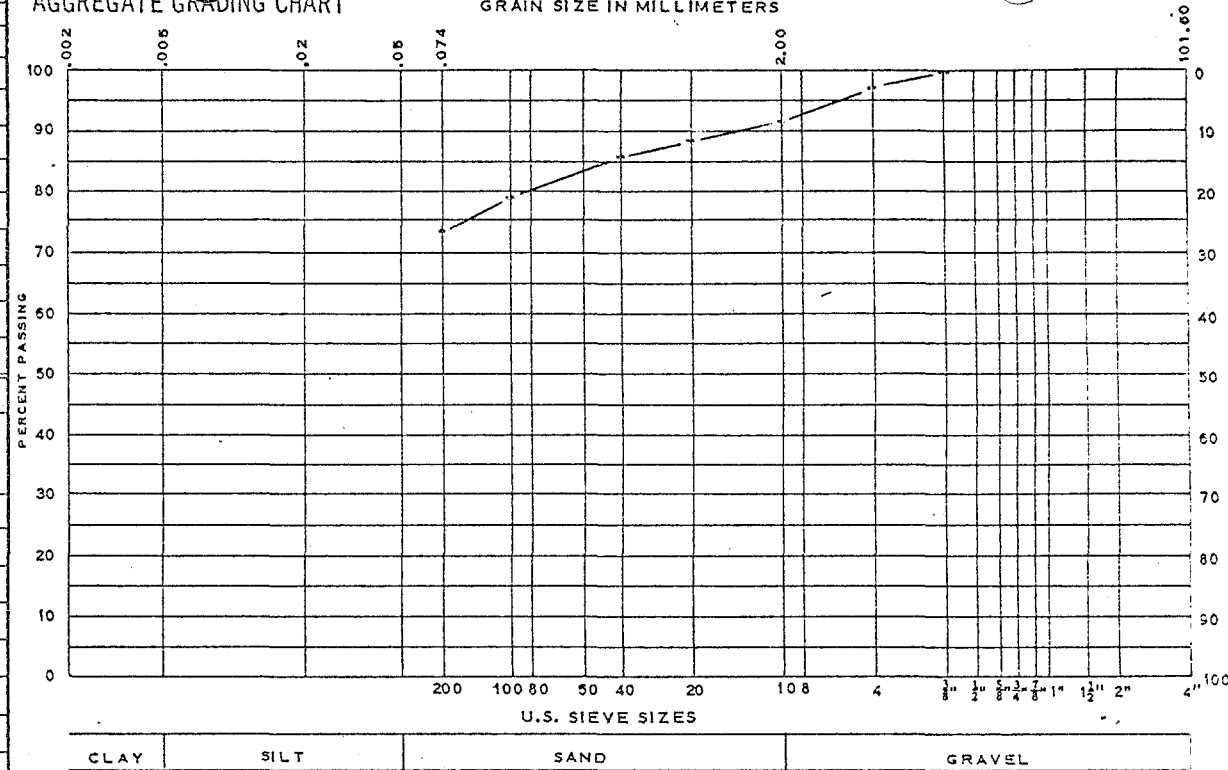
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT		SIEVE ANALYSIS										
		SAMPLE NUMBER										
		SIEVE										
100.0		3/8"										
91.5		#4										
91.8		#10										
89.3		#20										
85.7		#40										
79.2		#60										
73.3		#100										
% + 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	28.4	20.2	28.2							
		ML										
INORGANIC SILT AND FINE SAND												

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT DENVER HIGHWAY CONSTRUCTION  
 LOCATION STN. 1250+00  
 HOLE No. \_\_\_\_\_ DEPTH 1 1/2'-3'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE/67  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 263  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

1/4/70 SA

FINE AGGREGATE

ROCK TYPE

%

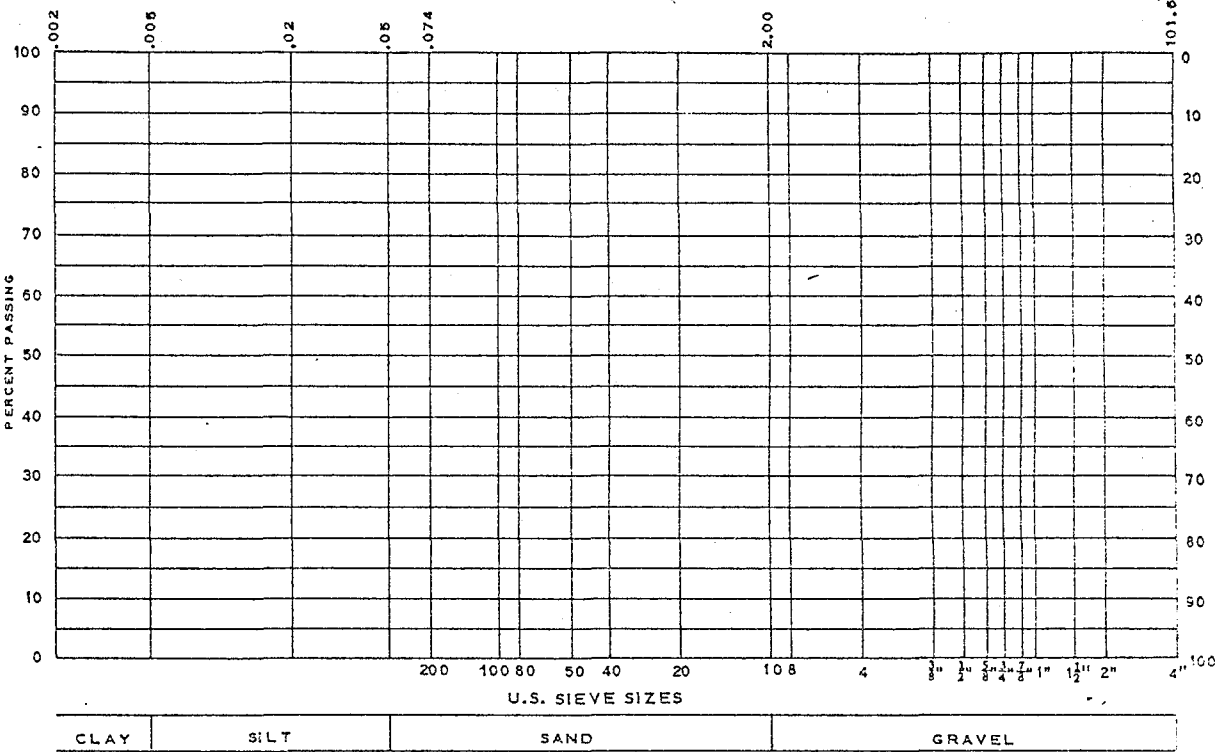
MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

SIEVE ANALYSIS											
SAMPLE NUMBER											
<p>&gt; 75% PASSING # 2000</p>											
<p><i>(Empty rows for sieve analysis data)</i></p>											
<p>CLASSIFICATION: A-5 ML Lo PLASTIC INORGANIC SILT</p>											

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS		
COARSE AGGREGATE		
ROCK TYPE		%
FINE AGGREGATE		
ROCK TYPE		%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION: STN: 1270+00  
 HOLE No. \_\_\_\_\_ DEPTH: 1 1/2' - 5'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE/69  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 264  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER'S REMARKS

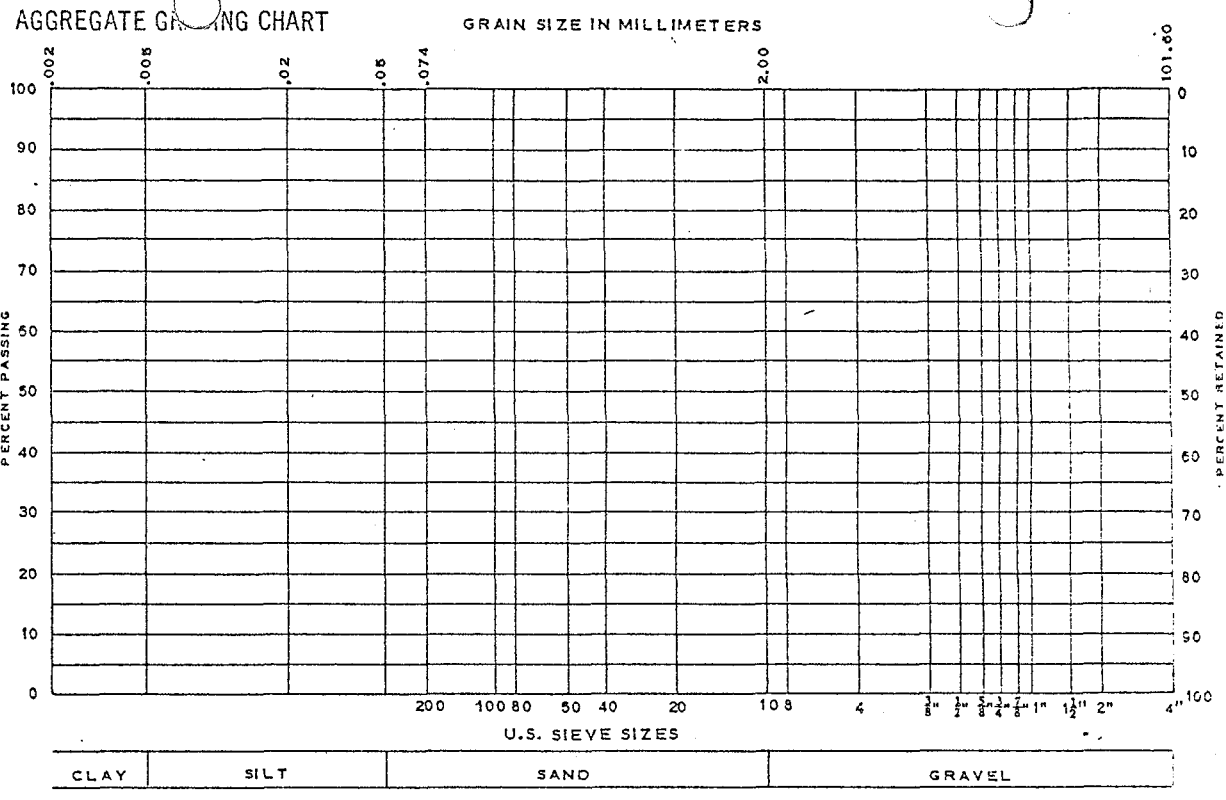
MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER Hwy TEST HOLE NO. 376-377-378-379  
 LOGGED BY Ed Melanson DATE June 16/69 STATION 1235-1230  
 ENTERED BY J. Cairns DATE Aug 12/69 1225-1220  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Huger Mobile

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75						
										2		Overburden Frozen silty clay Some Rocks	T.H. 376
										8			
										10			
										2		Overburden Frozen silty clay Some Broken Rocks	T.H. 377
										9			
										10			
												Side Hill cut Road Fill	T.H. 378
										9			
										10		silt sand Broken Rock Boulders	
												Road Fill	T.H. 379
										5			
										7		Overburden	
240										10		Frozen Silty Organic Clay	

% FINER BY WEIGHT		SIEVE ANALYSIS									
		SAMPLE NUMBER									
		> 75% PASSING #200									



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A.	MG SO4	BSPG	COLOUR	% WATER	% ASPH.	F.M.
						% LOSS	% LOSS	% LOSS	WATER	ABSORB.	ABSORB.	
		A-5	79.7	60.9	7							
PLASTIC INORGANIC SILT												

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

**LABORATORY'S REMARKS**

PROJECT: DENRSTER HIGHWAY CONSTRUCTION

LOCATION: STA: 9220+00

HOLE No. \_\_\_\_\_ DEPTH: 7'-10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE/69

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 265

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

**MATERIALS ENGINEER'S REMARKS**

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER Hwy TEST HOLE NO. 380-381-382-383  
 LOGGED BY Ed Melanson DATE June 1969 STATION 1215 - 1210  
 ENTERED BY J. Givens DATE Aug 12/69 1205 - 1200  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Auger Mobile

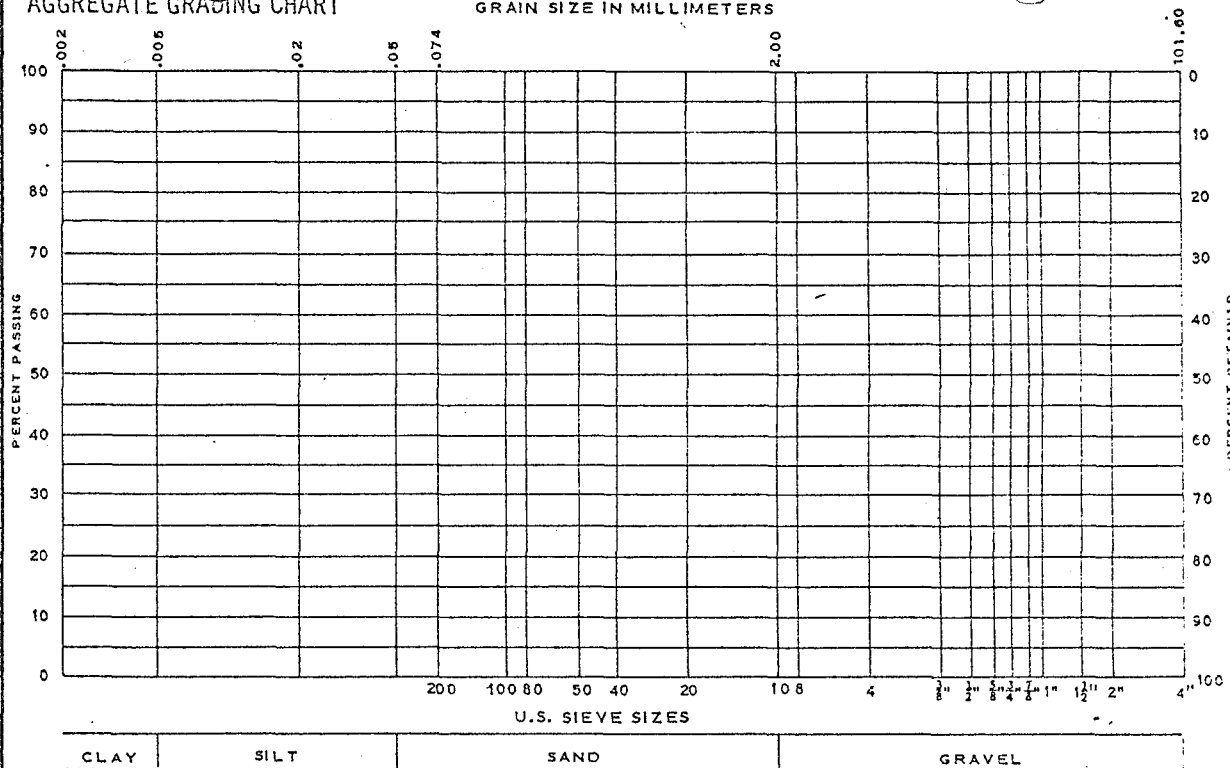
SAMPLE NO.	PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
										6		Road Fill
										10		Frozen Silty Organic Clay
										20		Side Hill Cut
												Road Fill
												Broken Rock Silty Sand
										10		
										12		Silt, sand, Broken Rock
										2		Overburden
												Frozen
241												Silty, Sandy, Clay
										10		

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT		SIEVE ANALYSIS										
		SAMPLE NUMBER										
> 75% PASS. AG # 200												
% + 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT.....DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION.....STN: 1200 +00  
 HOLE No.....DEPTH.....2'-10'  
 SAMPLE TYPE.....DATE SAMPLED.....JUNE 1969  
 FIELD SAMPLE No.....LAB SAMPLE No.....266  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMASTER HWY TEST HOLE NO. 384, 385, 386, 387.  
 LOGGED BY ED Melanson DATE July 169 STATION 1195, 1190,  
 ENTERED BY L LEDKEY DATE AUG 12/69 1185, 1180,  
 CHECKED BY [Signature] DATE Aug HOLE ADVANCED BY 4" [Signature]

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	P.L.					
242										2'	STRIPPED ROAD FILL	T.H 384
										10'	SILTY SANDY GRAVEL SOME CLY	BROKEN ROCK
										12'	REFUSAL	
243										5'	ROAD FILL	T.H 385
										7'	← OVER BURDEN	
										10'	SILTY CLAY ORGANIC	
										12'		
										2'	← CUT BANK ROAD FILL	T.H 386
										7'	SILTY SAND BROKEN ROCK	
										10'	REFUSAL	
										2'	← CUT BANK ROAD FILL	T.H 387
											SILTY SAND	
											BROKEN ROCK	
										10'	REFUSAL	

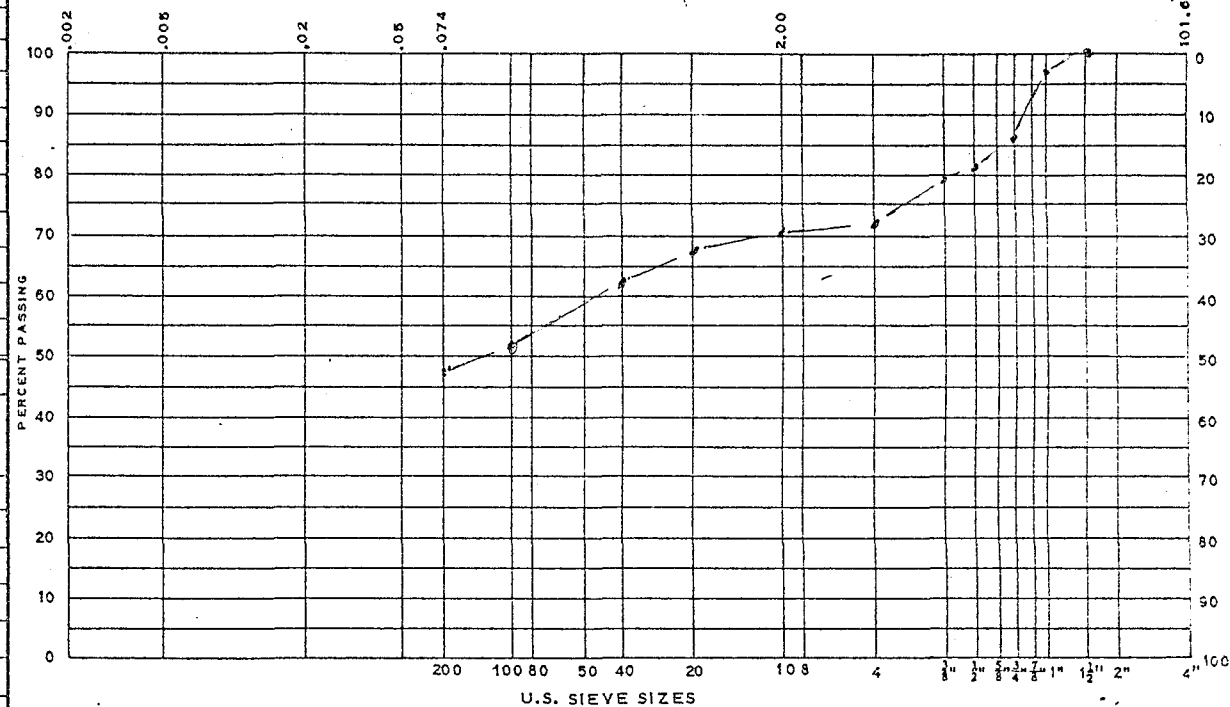
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	#12	78.4
97.4	#20	67.4
86.9	#40	43.4
82.3	#100	53.4
79.0	#200	47.1
73.6	#4	

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	22.1	18.1	4.0							
		Silty Sand										

CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION STA 1195+00  
 HOLE No. \_\_\_\_\_ DEPTH 2'-12'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 16, 69  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 267  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

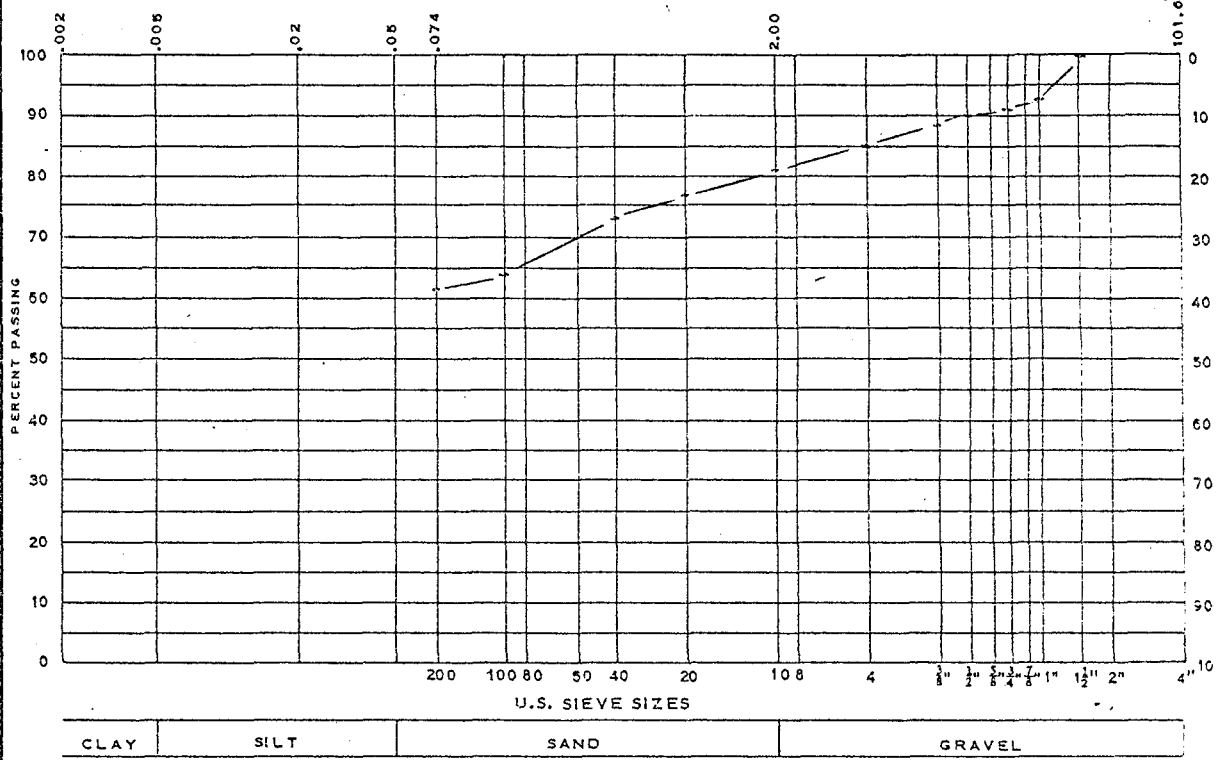
OF

% FINER BY WEIGHT		SIEVE ANALYSIS		SAMPLE NUMBER	
SIEVE	% FINER	SIEVE			
100.0	1 1/2	80.6	#10		
93.3	1	76.5	#20		
91.3	3/4	73.1	#40		
89.6	1/2	63.8	#100		
87.9	3/8	61.7	#200		
84.7	#1				

% + 4"	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 804 % LOSS	BSpc	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	N.M.
		A-4	36	33	13.2							
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GOING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMASTER HIGHWAY CONSTRUCTION  
 LOCATION: STA. 1190+00  
 HOLE No. \_\_\_\_\_ DEPTH: 7-12'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 16/69  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 268  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE 1/4/70  
 EA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

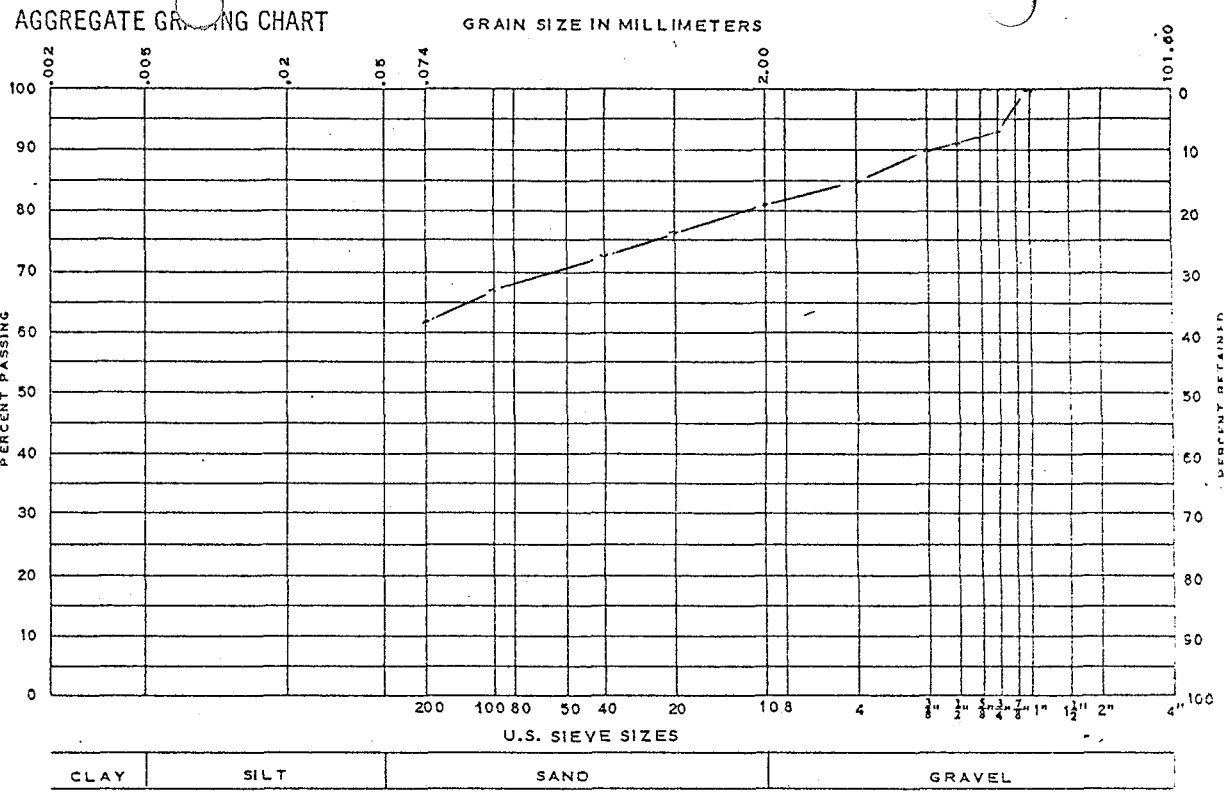
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY. TEST HOLE NO. 388, 389, 390, 391  
 LOGGED BY ED MELANSON DATE July 169 STATION 1175, 1170,  
 ENTERED BY B LEDKEY DATE Aug 12/69 1165, 1160,  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" (11.1)

SAMPLE NO.	PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
244									4'		← ROAD FILL	T.H. 388
									10'		WET SILTY CLAY SOME BROKEN ROCK	
									3'		ROAD FILL	T.H. 389
									7'		SILTY SAND BROKEN ROCK BOLDERS	
									10'		REFUSAL	
									5'		ROAD FILL	T.H. 390
									9'		SILT, SAND BROKEN ROCK BOLDERS	
									10'		REFUSAL	
									3'		ROAD FILL	T.H. 391
									4'		← OVER BERDEN	
									7'		← BROKEN ROCK, BOLDERS	
									10'		REFUSAL	

AGGREGATE DEPOSIT REPORT (Cont'd)

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	1"	80.7 #10
93.3	3/4"	76.4 #20
91.2	1/2"	72.9 #40
89.6	3/8"	66.7 #100
85.1	#4	62.2 #200



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-A	21	22	24							
		ML										
		INORGANIC SILT AND FINE SAND										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMOSTER Highway Construction

LOCATION: STA 1175+00

HOLE No. \_\_\_\_\_ DEPTH: 4'-10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: June/69

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 269

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE 6/1/69

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER HWY. TEST HOLE NO. 392, 393, 394, 395  
 LOGGED BY ED MELANSON DATE July 1969 STATION 1155, 1150,  
 ENTERED BY L. LEPKEY DATE Aug 12/69 1145, 1140,  
 CHECKED BY A.K. Pelti DATE Aug 1969 HOLE ADVANCED BY 11" Aug 1969

SAMPLE NO.	% PASSING LIMITS				Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4					
							1		CUT BANK SILT, SAND BROKEN ROCK REFUSAL
							8		
							10		
							2		ROAD FILL CUT BANK SILT, SAND BROKEN ROCK REFUSAL
							7		Boulder
							10		
							5		OLD RIVER BED ROAD FILL SILT, SAND BOLDERS REFUSAL
							8		BROKEN ROCKS
							10		
							2		OLD RIVER BED ROAD FILL SILT, SAND BOLDERS REFUSAL
							8		
							10		

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER Hwy. TEST HOLE NO. 396, 397, 398, 399  
 LOGGED BY ED MELANSON DATE July 16/69 STATION 1135, 1130,  
 ENTERED BY L. BEARKEY DATE Aug 12/69 1125, 1120  
 CHECKED BY [Signature] DATE Aug HOLE ADVANCED BY 4" auger

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
										2'		0-2' RIVER BED T.H. 396
										6'		ROAD FILL ← SILT SAND GRAVEL Boulders REFUSAL AT 6'
										2'		0-2' RIVER BED T.H. 397
										5'		2-5' SAND GRAVEL Boulders REFUSAL AT 5'
										3'		0-3' RIVER BED T.H. 398
										7'		ROAD FILL 3-7' SAND GRAVEL Boulders REFUSAL AT 7'
										3'		0-3' RIVER BED T.H. 399
										6'		ROAD FILL 3-6' GRAVEL - Boulders REFUSAL AT 6'

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DE MASTER Hwy TEST HOLE NO. 400, 401, 402, 403  
 LOGGED BY ED MELANSON DATE 3.14.19 STATION 1115, 1110  
 ENTERED BY L. LEFFEY DATE 4.20.19 1105, 1100  
 CHECKED BY A. K. Smith DATE 6.24.19 HOLE ADVANCED BY 4" (under Melnik)

SAMPLE NO.	PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 100	No. 4	No. 2	No. 1	No. 0.75					
												0'-1' RIVER BED T.H. 400 1115 OVER BURDEN 1'-8' SANDY GRAVEL BOULDERS REFUSAL AT 8'
												2 RIVER BED T.H. 401 1110 0'-5' SILT, SAND, GRAVEL BOULDERS REFUSAL AT 5'
												0'-10' CUT BANK T.H. 402 1105 ROAD FILL 10'-14' SILT, SAND, BROKEN ROCK BOULDERS REFUSAL AT 14'
												0'-12' CUT BANK T.H. 403 1100 ROAD FILL 12'-15' SILT, SAND, BROKEN ROCK BOULDERS REFUSAL AT 15'

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEWATER WYNY TEST HOLE NO. 404, 405, 406, 407  
 LOGGED BY ED. SALMON DATE 5/1/10 STATION 1095, 1096  
 ENTERED BY H. LEBBEY DATE 5/1/10 1095, 1096  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" AUGER

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
245										0-2'		0-2' SMALL CREEK WATER SEEPAGE OVER BURDEN. WATER, MUSKEY ORGANIC 2-10' WET SILTY SAND
246										0-2'		0-2' OVER BURDEN ORGANIC MATERIAL 2-10' FROZEN SILTY, SANDY CLAY
247										0-3'		0-3' SILT SAND VERY WET OVER BURDEN 3-6' SILT, SANDY GRAVEL COBBLES + BOLDERS REFUSAL AT 6'
SAME										0-2'		0-2' OVER BURDEN 2-5' WET SILTY SAND 5-10' SILTY SANDY GRAVEL

1095  
1096  
1097  
1098

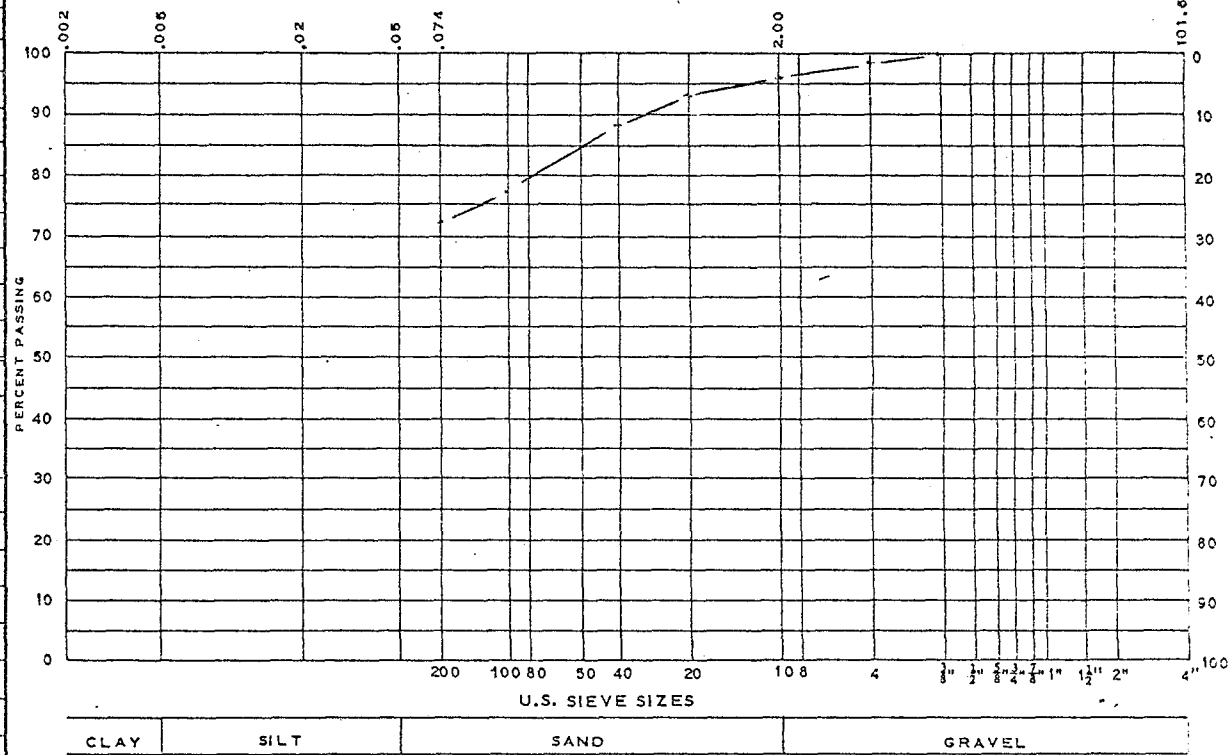
# AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET



% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	SAMPLE NUMBER
100.0	#2	
98.1	#4	
96.3	#10	
92.9	#20	
88.3	#40	
77.3	#100	
22.2	#200	

## AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-A			0.0							
		ML										
		INORGANIC SILT AND FINE SAND										

### TYPICAL PETROGRAPHIC ANALYSIS

#### COARSE AGGREGATE

ROCK TYPE	%

#### LABORATORY'S REMARKS

PROJECT	DEARBOROUGH HIGHWAY CONSTRUCTION
LOCATION	STA. 1095+00
HOLE No.	DEPTH 2'-10'
SAMPLE TYPE	DATE SAMPLED June 6, 69
FIELD SAMPLE No.	LAB SAMPLE No. 270
D. P. W. WHITEHORSE - SOILS LAB	

TESTING ENGINEER

3/4/70  
DATE SA

#### FINE AGGREGATE

ROCK TYPE	%

#### MATERIALS ENGINEER'S REMARKS

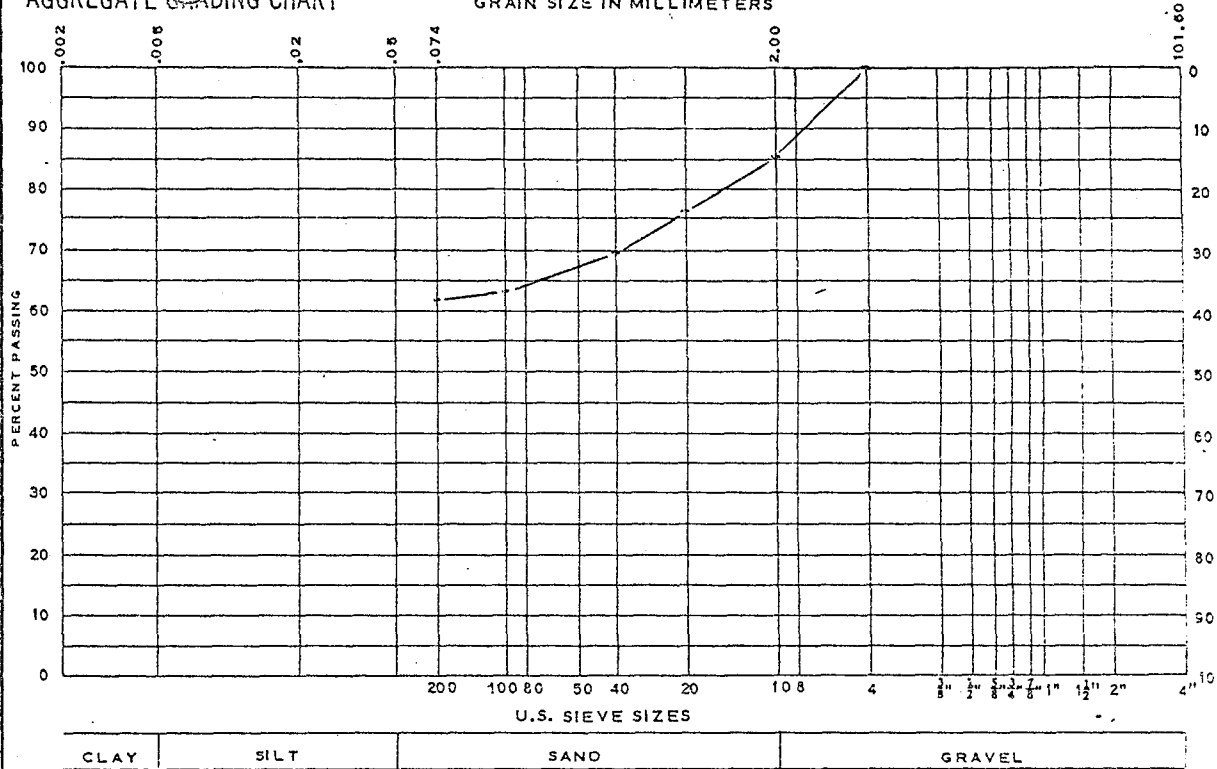
MATERIALS ENGINEER

DATE

% FINER BY WEIGHT		SIEVE ANALYSIS SAMPLE NUMBER										
100.0	# 4											
85.5	# 10											
75.9	# 20											
69.0	# 40											
63.5	# 100											
62.1	# 200											
% + 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	U.A. % LOSS	MG SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	29.2	23.9	5.3							
		ML										
INORGANIC SILT AND FINE SAND												

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT: IX-115-120 Alkaidah Road, Jeddah, Saudi Arabia  
 LOCATION: STA 1090+00  
 HOLE No. .... DEPTH: 2-10'  
 SAMPLE TYPE ..... DATE SAMPLED: June 1968  
 FIELD SAMPLE No. .... LAB SAMPLE No. 271  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

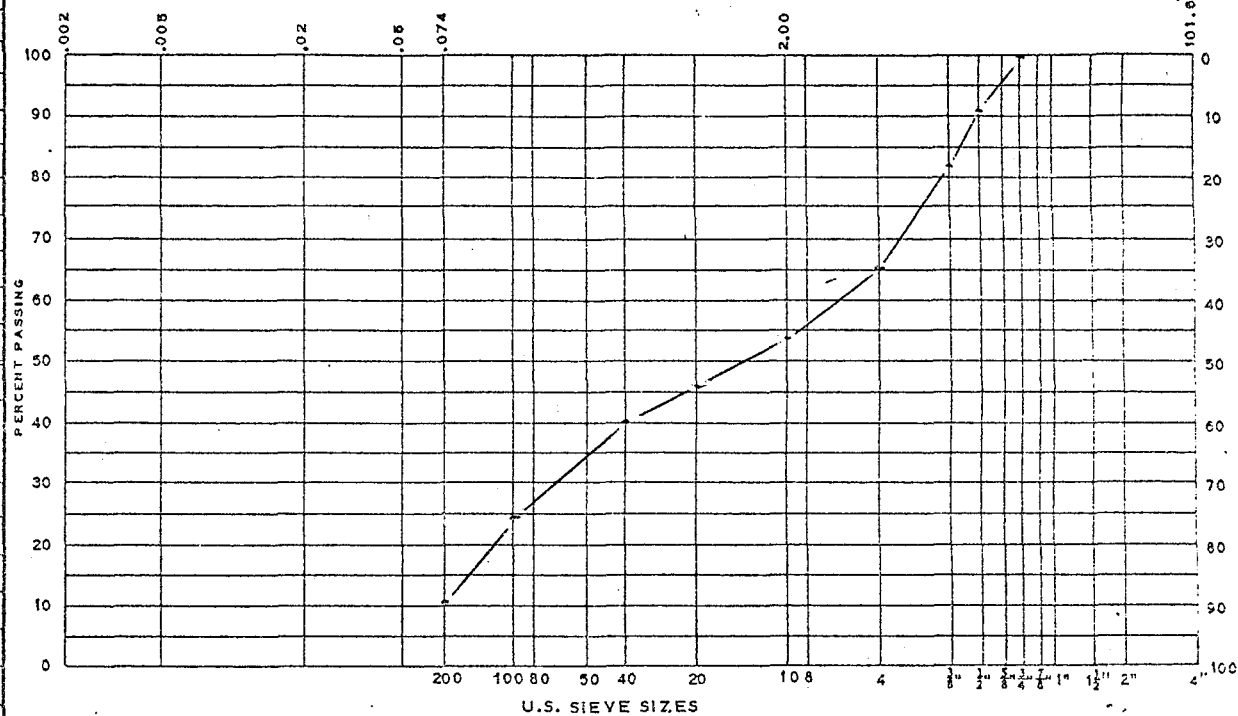
FINER BY WEIGHT		SIEVE ANALYSIS		SAMPLE NUMBER														
	SIEVE	% FINER	SIEVE															
100.0	3/4"	54.2	10															
90.7	1/2"	45.9	20															
81.8	3/8"	40.2	40															
65.2	#4	24.4	100															
		10.5	200															

AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MC SO. % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b GW										
WELL GRADED - GRAVEL SAND MIXTURE.												

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMETER HI-WAY CONSTRUCTION  
 LOCATION STA. 1085+00  
 HOLE No. \_\_\_\_\_ DEPTH 3'-6'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE '69  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 272  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMASTER Hwy TEST HOLE NO. 402409411, 411  
 LOGGED BY FD Malanuk DATE July 10 STATION 1075, 1070  
 ENTERED BY L. LEDNEY DATE Aug 13/10 0.15, 10.10  
 CHECKED BY A. Kubiak DATE Aug 19 HOLE ADVANCED BY 11" Aug 19

SAMPLE NO.	% PASSING LIMITS						Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1					
									1		0-2' ROAD FILL T.H. <u>4094</u> 1075
									2		2'-9' SILT BLACK SANDY SHIST REFUSAL AT <u>9'</u> BOULDERS + GRAVEL STARTS AT ST. RIVER BED
									9		
									10		
									2		0-2' WET ROAD FILL T.H. <u>409</u> 1076
									7		2'-7' BLACK SANDY SHIST BOULDERS REFUSAL AT <u>7'</u>
									7		
									10		
									3		0-3' ROAD FILL T.H. <u>410</u> 1068
									6		3'-6' WET BLACK SANDY SHIST BOULDERS REFUSAL AT <u>6'</u>
									6		
									10		
									4		0-4' ROAD FILL T.H. <u>411</u> 1066
									9		4'-9' WET BLACK Silty SAND 9'-11' GRAVEL + BOULDERS REFUSAL AT <u>11'</u>
									9		
									10		
									11		

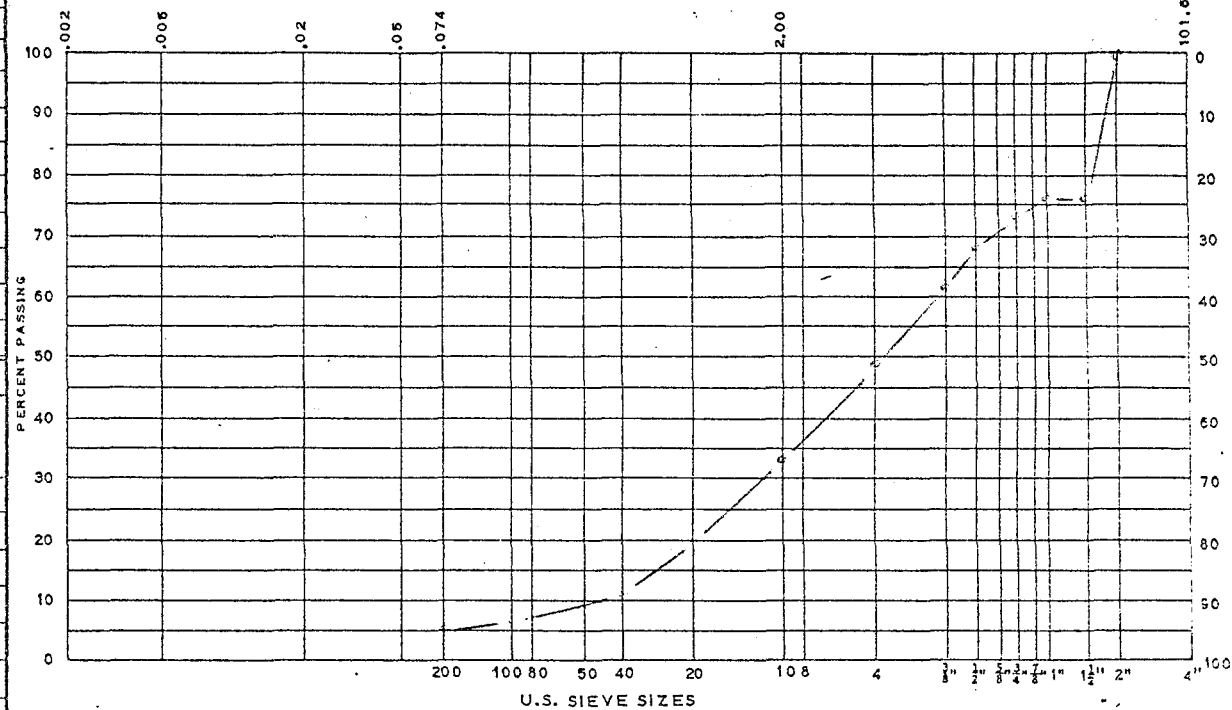
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS		SAMPLE NUMBER
	SIEVE	% FINER	
100.0	2"	33.6	#10
75.9	1 1/2"	20.1	#20
75.8	1"	11.5	#40
72.9	3/4"	6.6	#100
68.1	1/2"	5.5	#200
61.9	3/8"		
48.8	#4		

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 204 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a										
		G. 10										
		WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMASTER HIGHWAY CONSTRUCTION  
 LOCATION: STA. 10+75+00  
 HOLE No. \_\_\_\_\_ DEPTH: 2-9'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE/68  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 273  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

11/4/70 GA

MATERIALS ENGINEER'S REMARKS

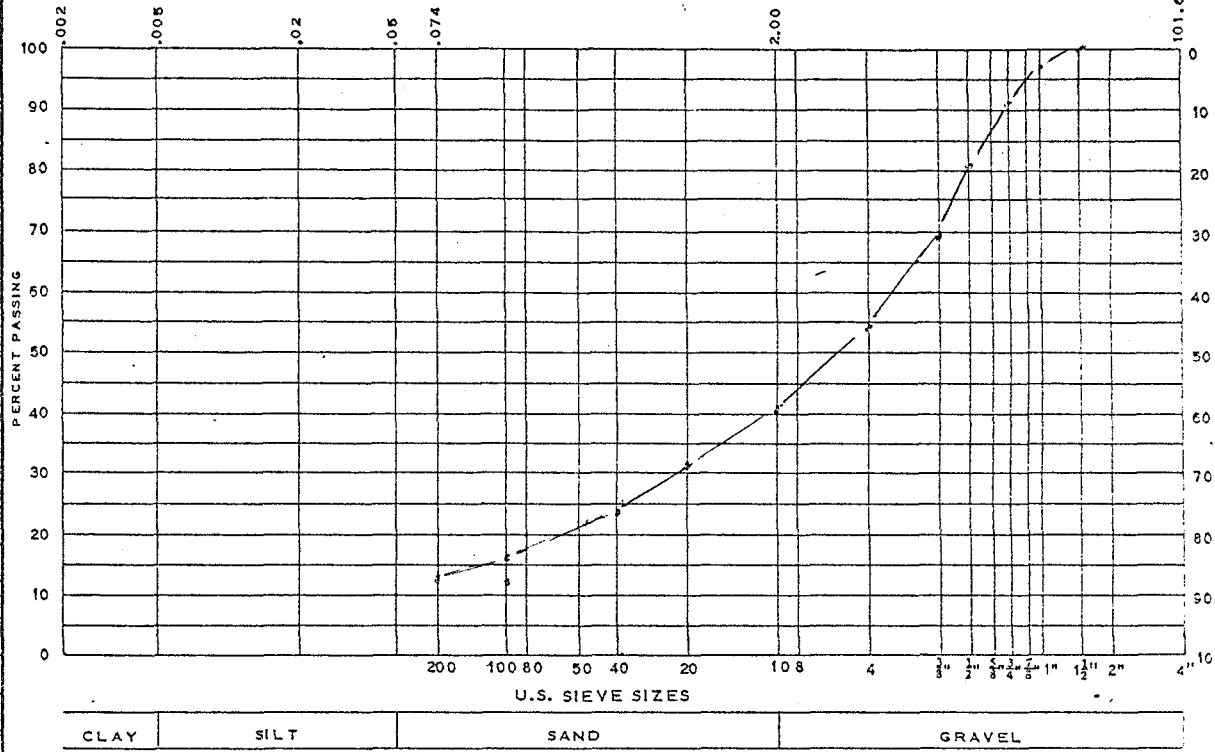
MATERIALS ENGINEER

DATE



% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	PERCENT FINER
100.0	1 1/2"	100.0
97.8	1"	97.8
90.9	3/4"	90.9
80.1	1/2"	80.1
69.5	3/8"	69.5
54.3	#4	54.3

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A.	MG SO <sub>4</sub>	% LOSS	BSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-L SM SILTY SAND	22.5	21.0	0.8								

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT..... DEMPSTER HIGHWAY .....

LOCATION..... STA 1050 +00 .....

HOLE No..... DEPTH 3 1/2 - 10' .....

SAMPLE TYPE..... DATE SAMPLED JUNE/69 .....

FIELD SAMPLE No..... LAB SAMPLE No. 27A .....

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEARSTAR Hwy TEST HOLE NO. 411, 417, 418, 419  
 LOGGED BY ED. HARRISON DATE J. 11. 1969 STATION 10 25 10 20  
 ENTERED BY J. L. LEDREY DATE 4. 2. 1972 10 25 10 25  
 CHECKED BY A. Kulachi DATE 11. 14 HOLE ADVANCED BY 4' (100%)

SAMPLE NO.	PASSING LIMITS						Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1					
								0-4'			0-4' ROAD FILL T.H. 416 1025
								4-9'			SILTY SAND BROKEN ROCK + BOULDERS REFUSAL AT <u>9'</u>
								4-8'			0-4' ROAD FILL T.H. 417 1030
								4-8'			SILTY SAND, BROKEN ROCK + BOULDERS REFUSAL AT <u>8'</u>
								4-10'			0-4' ROAD FILL T.H. 418 1025
								4-10'			SILTY SANDY GRAVEL, COBBLES + BOULDERS
								4-4'			RIVER BED T.H. 419 1025
								0-4'			SANDY GRAVEL COBBLES + BOULDERS REFUSAL AT <u>4'</u>

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DUMFRIES HWY TEST HOLE NO. 420, 421, 422, 423  
 LOGGED BY ED MALAN DATE July 1960 STATION 1015, 1016  
 ENTERED BY L. LEADY DATE July 1960  
 CHECKED BY W.K. [unclear] DATE 1960 HOLE ADVANCED BY 4' Aug 60

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
												RIVER BED T.H. <u>420</u> 0-6' SANDY GRAVEL COBBLES + Boulders REFUSAL AT <u>6'</u>
												RIVER BED T.H. <u>421</u> 0-6' SANDY GRAVEL COBBLES + Boulders REFUSAL AT <u>6'</u>
250												0-2' GRAVEL RIDGE T.H. <u>422</u> ROAD FILL 2'-5' SILTY SANDY GRAVEL COBBLES + Boulders REFUSAL AT <u>6'</u>
												0-2' TOP OF RIDGE T.H. <u>423</u> ROAD FILL 2-7' SILTY SANDY GRAVEL Broken Rock + Boulders

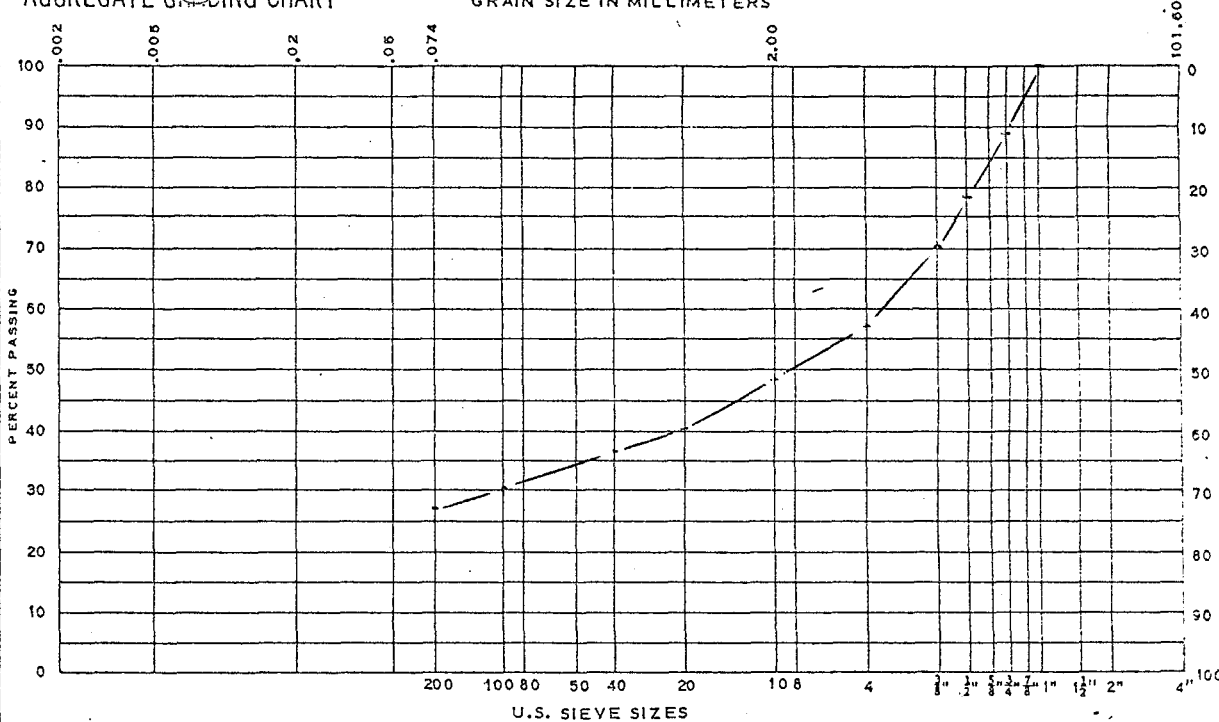
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT		SIEVE ANALYSIS		SAMPLE NUMBER									
SIEVE	WEIGHT	WEIGHT	SIEVE										
100.0	1"	48.9	#10										
88.9	3/4"	40.4	#20										
78.0	1/2"	36.6	#40										
70.1	3/8"	30.1	#100										
57.1	#4	27.0	#200										
% + 4"													
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO. % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.	
		A-2-A	27	22	4.2								
		SM											
		SILTY SAND											

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY SILT SAND GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMONSTRATION HIGHWAY CONSTRUCTION  
 LOCATION SRA 1005100 &  
 HOLE No. \_\_\_\_\_ DEPTH 0'-5'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED June 68  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 275  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

2/4/70  
 DATE JA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEVELOPMENT HWY TEST HOLE NO. 424, 425, 426, 427  
 LOGGED BY ED. McLAUGHLIN DATE JULY 11/19 STATION 055, 900  
 ENTERED BY L. LECKEY DATE Aug 13/19 055, 900  
 CHECKED BY A. Kulinski DATE \_\_\_\_\_ HOLE ADVANCED BY 4" Dia

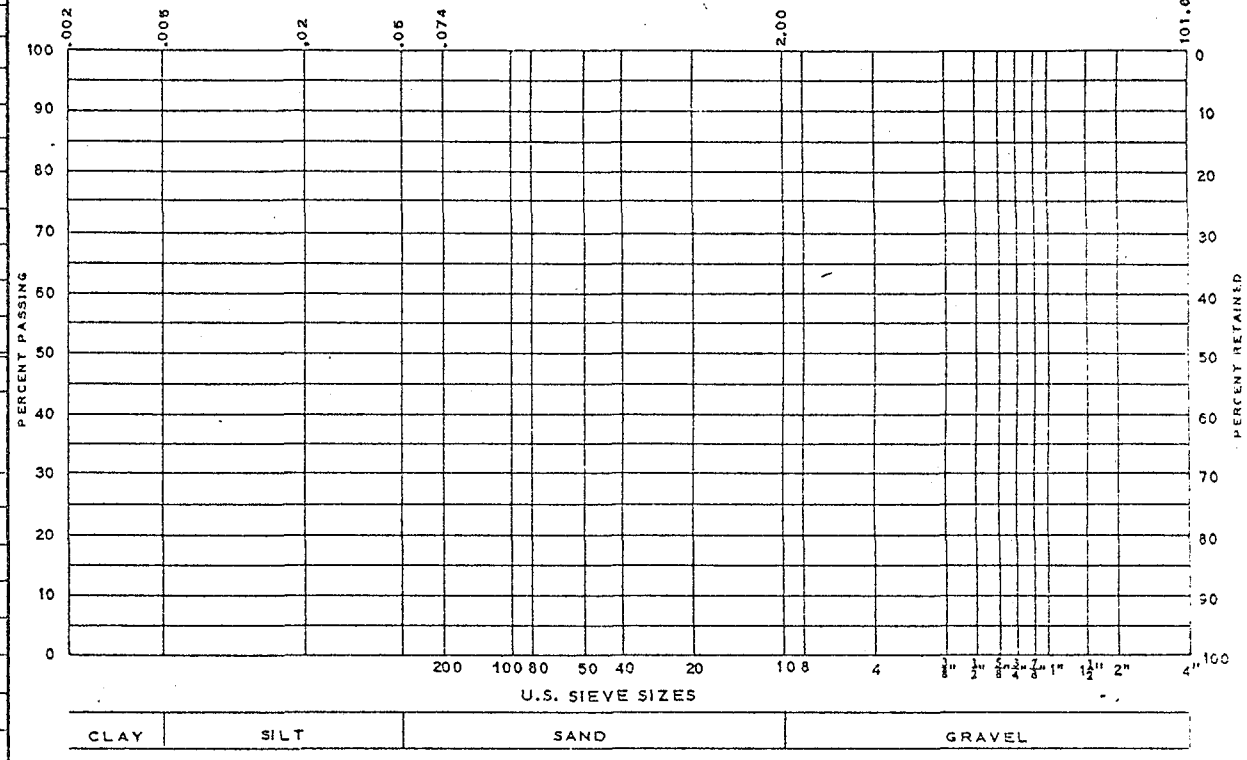
SAMPLE NO.	PASSING LIMITS						Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1					
								2		0-2' ROAD FILL	T.H. 424 975
								7		3-7' SILTY SANDY GRAVEL BROKEN ROCK + Boulders	
								10			
								3		0-3' ROAD FILL	T.H. 425 990
751								6		3-6 BLACK SILTY SAND SMALL STONES BOULDERS AT 6' REFUSAL	
								10			
								2		0-2' ROAD FILL	T.H. 426 985
								7		2-7' BLACK SILTY SAND CORBELS + Boulders REFUSAL AT 7'	
								10			
								3		0-3' ROAD FILL	T.H. 427 980
								9		3-9 SILTY SAND CORBELS REFUSAL AT 9'	
								10			

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS					
	SAMPLE NUMBER					
	<i>&gt; 75% PASSING #200</i>					

AGGREGATE GRADING CHART



AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.G. SO <sub>4</sub> % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		<i>A-4</i>	<i>30.1</i>	<i>27.0</i>	<i>3.1</i>							
		<i>ML</i>										
		<i>Lo PLASTIC INORGANIC SILT</i>										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HILLS HWY CONSTRUCTION

LOCATION STN: 99D +00

HOLE No. \_\_\_\_\_ DEPTH 3'-6'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 1969

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 276

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT CEMETER Hwy TEST HOLE NO. 428, 429, 430, 431  
 LOGGED BY ED. Malins DATE July 1969 STATION 975, 979  
 ENTERED BY L. E. Peck DATE Aug 1969 965, 960  
 CHECKED BY M. K. ... DATE Aug HOLE ADVANCED BY 4' aug

SAMPLE NO.	% PASSING SIEVES							Sample Depth	Depth ft.	Profile	NOTES:
	No. 20	No. 40	No. 60	No. 100	No. 200	No. 425	No. 600				
									0-2'	ROAD FILL	T.H. 428
									2-7'	SILTY SAND	
										BOULDERS AT 6'	
										REFUSAL AT 7'	
									0-3'	ROAD FILL	T.H. 429
									3-9'	SILTY SAND	
										BOULDERS	
										REFUSAL AT 9'	
									0-2'	ROAD FILL	T.H. 430
									2-6'	SILTY SAND	
										BOULDERS	
										REFUSAL AT 6'	
									0-2'	ROAD FILL	T.H. 431
									2-8'	SILTY SAND	
										BOULDERS	
										REFUSAL AT 8'	

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT BEAVER HWY TEST HOLE NO. 432 433 434 435  
 LOGGED BY ED MALANSON DATE July 11/53 STATION 955 950  
 ENTERED BY L LEPKEY DATE Aug 13/53 945 940  
 CHECKED BY H. K. Kishicki DATE Aug 6/53 HOLE ADVANCED BY 4" Aug 6/53

SAMPLE NO.	No. 200's	PASSING				LEAVENS		Fines Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
		N. 40	N. 10	"	"	P. 20	P. 10					
									0-2'		0-2' ROAD FILL	T.H. 432
									2-11'		2-11 silty sand Boulders	
											REFUSAL AT 11'	
									0-3'		0-3' ROAD FILL	T.H. 433
									3-4'		3-4 silty sand Boulders	
											REFUSAL AT 4'	
									0-2'		0-2' ROAD FILL	T.H. 434
									2-6'		2-6' silty sand Boulders	
											REFUSAL AT 6'	
									0-3'		0-3' ROAD FILL	T.H. 435
									3-7'		3-7 silty sand Boulders	
											REFUSAL AT 7'	

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

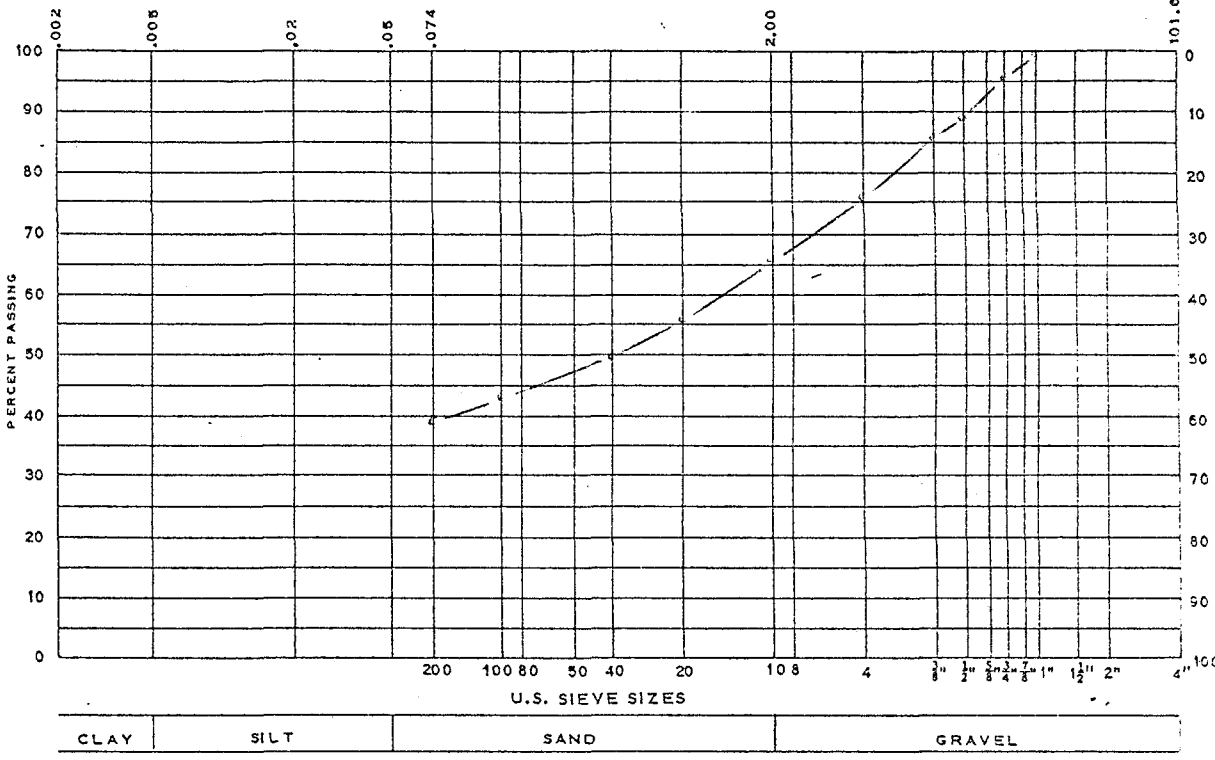
PROJECT DEMSTER HWY TEST HOLE NO. 436, 437, 438, 439  
 LOGGED BY ED MALANSON DATE July 16/69 STATION 935, 936  
 ENTERED BY L. LePrie DATE Aug 3/69 935, 936  
 CHECKED BY A. Kukulski DATE Aug 6/69 HOLE ADVANCED BY 4' depth

SAMPLE NO.	No. 200	PASSING			LIMITS		Plastic Roads Glass	Sample Depth	Depth ft.	Profile	NOTES:
		No. 40	No. 10	No. 2	U.C.T.	L.C.T.					
								0-2'			0-2' ROAD FILL T.H. 436
								2-8'			2-8' ROCKS
								8'			REFUSAL AT 8'
								0-3'			0-3' ROAD FILL T.H. 437
								3-5'			3-5' ROCKS
								5'			REFUSAL AT 5'
252								0-3'			0-3' ROAD FILL T.H. 438 BLACK.
								3-9'			3-9' <del>SAND</del> SILTY SAND SMALL STONES
								9'			REFUSAL AT 9'
								0-2'			0-2' CURB BURDEN T.H. 439
								2'-10'			2'-10' SILTY SANDY SMALL STONES
								10'			REFUSAL AT 10'

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	1"	65.7
96.1	3/4"	56.5
89.0	1/2"	50.1
85.9	3/8"	43.4
75.9	#4	39.6

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-A				22.1	19.3	3.4				
		SM										
		SILTY SAND										

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DENPSTER HIGHWAY CONSTRUCTION  
 LOCATION STA 925700  
 HOLE No. \_\_\_\_\_ DEPTH 3'-9'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED June 69  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 277  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

1/11/70  
SA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
 SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DENVER HWY TEST HOLE NO. 340 341 342 343  
 LOGGED BY ED MALONE DATE 11/10 STATION 915 916  
 ENTERED BY L. H. KAY DATE 11/10 915 916  
 CHECKED BY A. K. HASTI DATE 11/10 HOLE ADVANCED BY 4' gauge

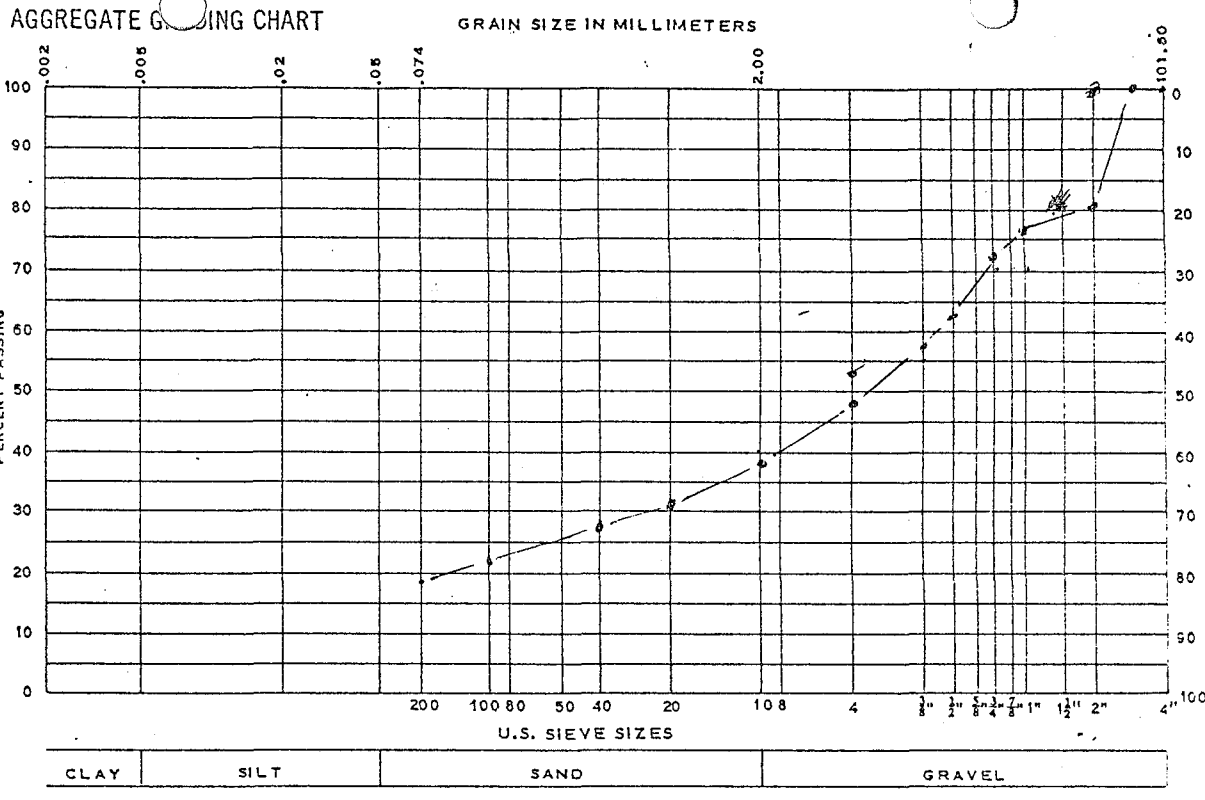
SAMPLE NO.	No. 200	PASSING				LINES		Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
		No. 40	No. 10	No. 2	No. 1	Per. 1	Per. 2					
									0		0-2' ROAD FILL OVER BURDEN	T.H. 340 91
									10		2-11' SILTY SAND SMALL STONES REFUSAL <u>11'</u>	
									2		0-2' OVER BURDEN	T.H. 341 91
									10		2-10' BLACK SILTY SAND SMALL STONES	
									2		0-2' ROAD FILL	T.H. 342 96
253									8		2-8' SILTY SANDY GRAVEL COBBLES + BOLDERS REFUSAL AT <u>8'</u>	
									2		0-2' ROAD FILL	T.H. 343 96
									6		2-6' SILTY SANDY GRAVEL COBBLES + BOLDERS REFUSAL AT <u>6'</u>	
									10			

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

OF

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100	#3	37.6
80.2	#2	30.9
	#1/2	27.4
76.9	#1	22.2
72.0	#3/4	19.9
63.5	#1/2	
57.5	#3/8	
47.1	#A	



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
		A-1-A GM SILTY GRAVEL			D.D							

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEEPSTER HIGHWAY CONSTRUCTION  
 LOCATION STP POST 100  
 HOLE No. \_\_\_\_\_ DEPTH 2'-88'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE/68  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 278  
 D. P. W. WHITEHORSE - SOILS LAB

MATERIALS ENGINEER'S REMARKS

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
 MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

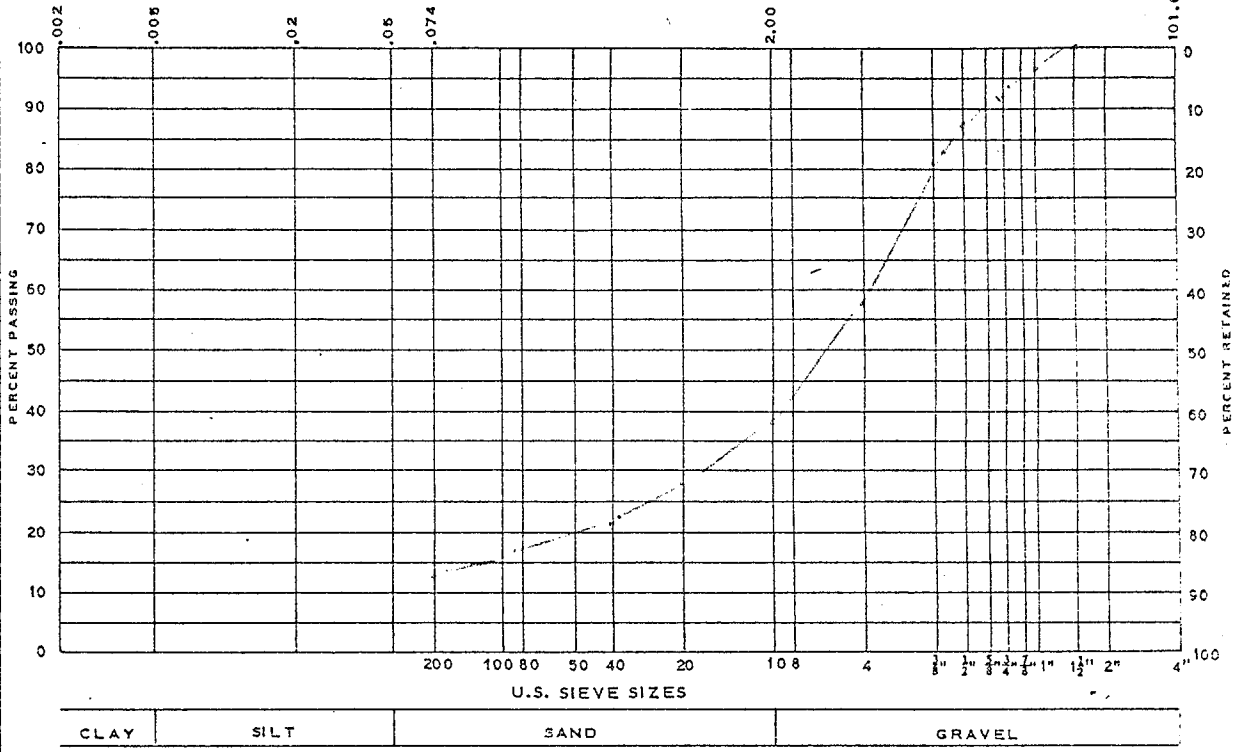
PROJECT DEAD END HWY TEST HOLE NO. 244 245, 246, 247  
 LOGGED BY ED. Malson DATE 3.1.19 STATION 895 + 90  
 ENTERED BY L. LEBRY DATE 4.7.19 895 + 90  
 CHECKED BY H. Kubiak DATE Aug HOLE ADVANCED BY 4" Aug 24

SAMPLE NO.	PASSING LIMITS						Sample Depth	Depth (ft.)	Profile	NOTES:
	No. 200%	No. 40	No. 10	No. 4	No. 2	No. 1				
										<div style="text-align: right;">T.H. <u>244</u></div> 0-7' silty sandy Broken rock COBBLES + BOULDERS REFUSAL AT <u>7'</u>
										<div style="text-align: right;">T.H. <u>245</u></div> 0-6' BOULDERS REFUSAL AT <u>6'</u>
										<div style="text-align: right;">T.H. <u>246</u></div> 0-9' COBBLES REFUSAL AT <u>9'</u>
<u>254</u>										<div style="text-align: right;">T.H. <u>247</u></div> 0-1' OVER BURDEN 1-8' <u>Dry</u> SILTY CLAYEY SAND BROKEN ROCK REFUSAL AT <u>8'</u>

AGGREGATE DEPOSIT REPORT (Cont'd)

% FINER BY WEIGHT		SIEVE ANALYSIS		SAMPLE NUMBER	
Sieve	% Finer	Sieve			
100.0	100	#10	36.3	#10	
97.1	1	#20	27.2	#20	
93.6	5/4	#40	22.3	#40	
87.5	12	#100	16.7	#100	
80.4	3/8	#200	14.3	#200	
58.8	24				

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	U.A. % LOSS	M.G. 504 % LOSS	D.S.P.C.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.	% + 4"	
		P-1-C	19.2	16.0	1.5									
		SM												
		SANDY SAND												

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION: STA. 880+00  
 HOLE No. \_\_\_\_\_ DEPTH: 1'-8"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUNE 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 279  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

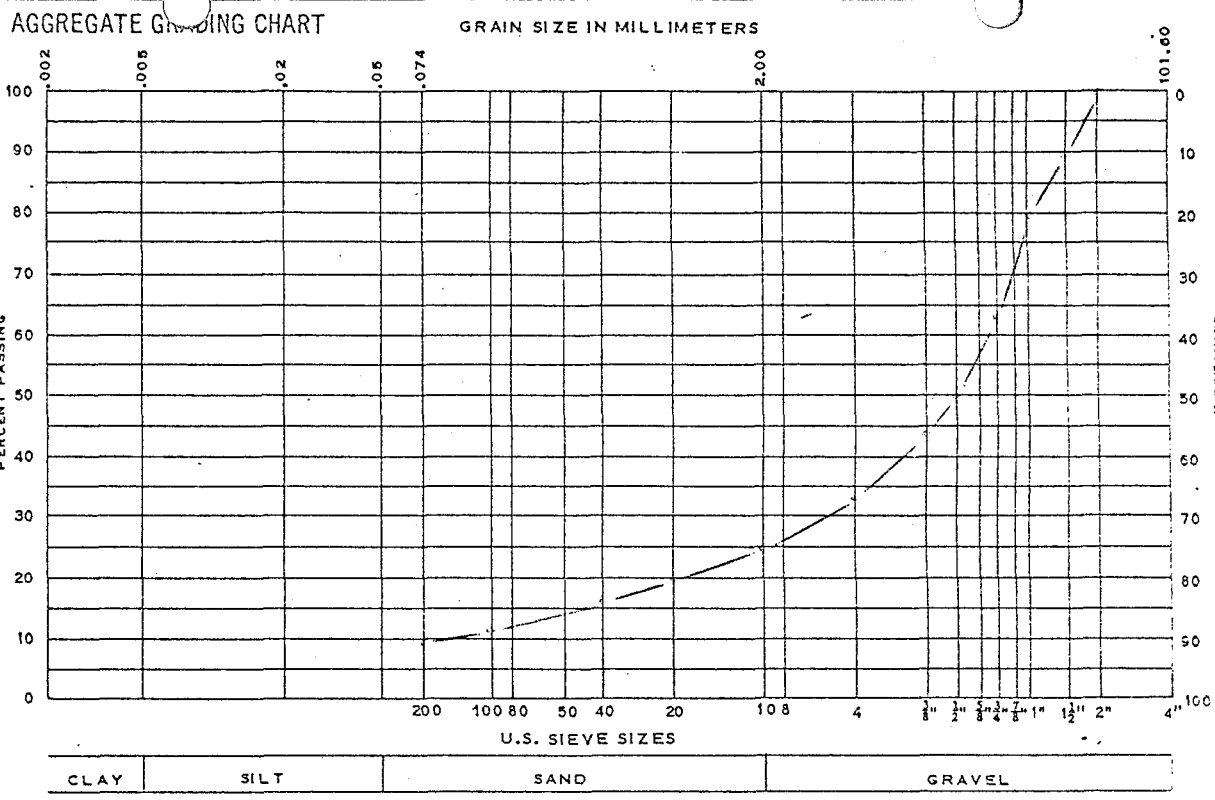
DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY. TEST HOLE NO. 348, 349, 350, 351  
 LOGGED BY ED. MALINSON DATE Jul 1/49 STATION 975, 970  
 ENTERED BY L. LEPPY DATE Aug 13/49 015, 860.  
 CHECKED BY A. Kulacki DATE Aug HOLE ADVANCED BY 4" diam

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
												0-1' OVERBURDEN T.H. 348
										4' 10'		1-9 DRY SILTY SANDY CLAY BROKEN ROCK REFUSAL AT 9'
												0-1' OVERBURDEN T.H. 349
										4' 10'		1-9 SILTY SANDY CLAY BROKEN ROCK REFUSAL AT 9'
												0-1 OVERBURDEN T.H. 350
										10'		1-10 SILTY SANDY CLAY BROKEN ROCK REFUSAL AT 10'
										2' 10'		0-2' ROADFILL T.H. 351
												2-10 SILTY SANDY BROKEN ROCK REFUSAL AT 10'

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	2"	25.0
89.9	1 1/2"	19.9
80.5	1"	16.5
62.9	3/4"	12.2
50.5	1/2"	9.7
44.1	3/8"	
33.1	#4	



AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MC SO. % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			00							
		GW										
		WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMASTER HIGHWAY CONSTRUCTION  
 LOCATION STA. 865+00 &  
 HOLE NO. \_\_\_\_\_ DEPTH 0-6'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUN 6/69  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 226  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE 2/4/70 *SA*

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

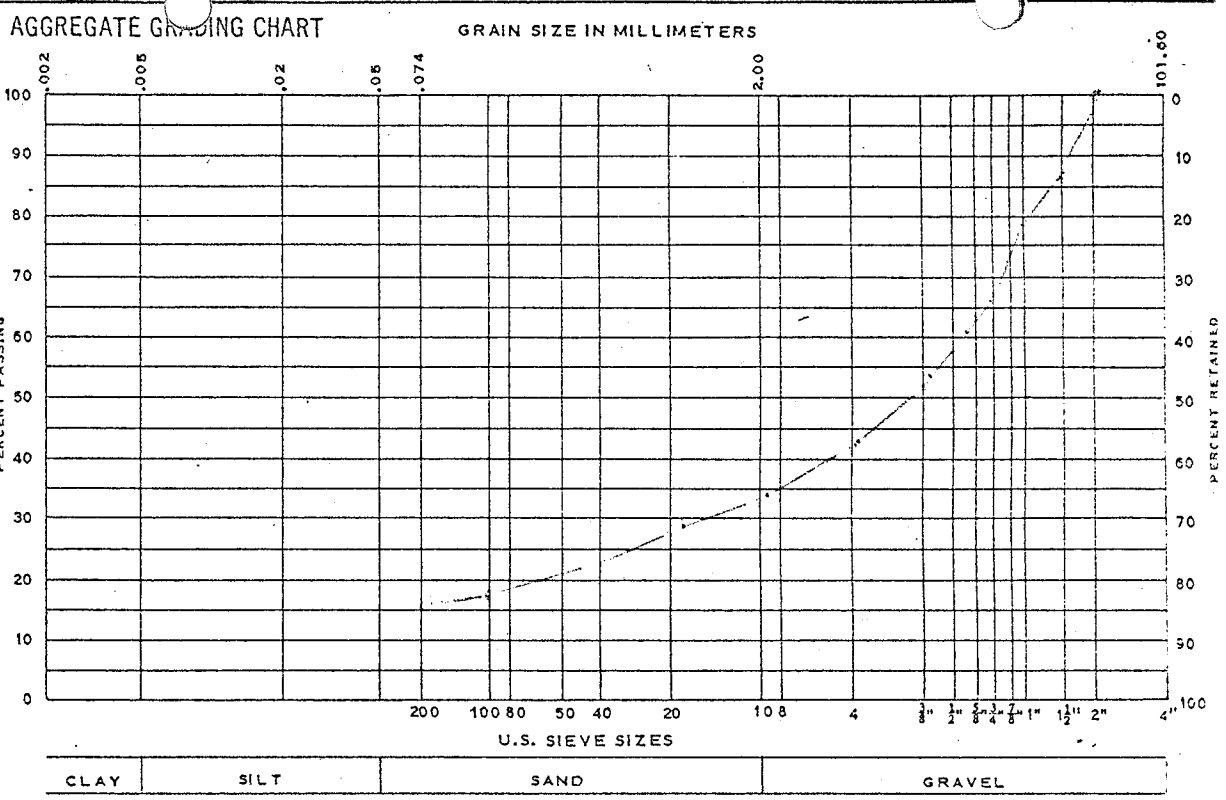
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER Hwy TEST HOLE NO. 352, 353, 354, 355  
 LOGGED BY ED Malan DATE 5/14/20 STATION 855, 850  
 MINED BY L. LePrie DATE Aug 13/19 845, 840  
 CHECKED BY JK DATE 11/19 HOLE ADVANCED BY 4' Aug 19

SAMPLE NO.	% PASSING		LIMITS		Public Road Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4					
							2		0-2' ROAD FILL T.H. 352
							10		2-10' SILTY SAND BROKEN ROCK
							1		0-1' OVERBURDEN T.H. 353
							6		1-6' SILTY SAND BROKEN ROCK REFUSAL AT 6'
							5		CUT BANK T.H. 354
255							5		0-5' SILT SAND SOME CLAY COBBLES + BLK DERS BROKEN ROCK REFUSAL AT 5'
							6		CUT BANK T.H. 355
							10		REFUSAL AT 6'

AGGREGATE DEPOSIT REPORT (Cont'd)

FINER BY WEIGHT		SIEVE ANALYSIS	
SIEVE	% FINER	SIEVE	SAMPLE NUMBER
100.0	2	23.6	#10
86.0	1/2	27.7	#20
79.4	1	23.7	#40
66.0	3/4	18.0	#100
58.5	1/2	15.6	#200
52.9	3/8		
42.1	#4		



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SOL. % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		4-1-2	12.9	15.7	3.2							
		CH										
		Silty GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STR 645+00

HOLE No. \_\_\_\_\_ DEPTH 0-5'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED 3/23/65

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 280

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 356, 357, 358  
 LOGGED BY ED Malanson DATE July 11/19 STATION 835, 830,  
 ENTERED BY L Lepke DATE Aug 18/19 835  
 CHECKED BY A Kubicki DATE Aug HOLE ADVANCED BY 11" Auger

SAMPLE NO.	% PASSING LIMITS				Public Road Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4					
							5		SIDE HILL CUT BANK T.H. <u>356</u> 0-4' Rock out crop showing to right REFUSAL AT <u>4'</u>
							5.5		SIDE HILL CUT T.H. <u>357</u> 0-5.5' REFUSAL AT <u>5.5'</u> Rock out crop showing to the right.
							8		SIDE CUT T.H. <u>358</u> 0-8' Rock out crop showing to the right REFUSAL AT <u>8'</u>
							10		T.H. _____

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 459-460-461-462  
 LOGGED BY Ed Melanson DATE July 16/69 STATION 820 - 815  
 ENTERED BY J. Cairns DATE Aug 13/69 810 - 805  
 CHECKED BY J. Cairns DATE Aug 13/69 HOLE ADVANCED BY 4" Auger Mobil

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.L.					
25b										6		Side Hill Cut. T.H. 459 Silty Sandy Broken Rock Boulders Some Clay ↑ Refusal
										4		Road Fill T.H. 460 Damp Silty Sandy Clay Broken Rock ↑ Refusal
										4		Road Fill T.H. 461 Damp Silty Sandy Clay Broken Rock. ↑ Refusal
										3		Road Fill T.H. 462 Damp Silty Sandy Clay Broken Rock. ↑ Refusal

80  
81  
82  
83



DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMETER HWY TEST HOLE NO. 463-464-465-466  
 LOGGED BY Ed Melanson DATE July/69 STATION 800 - 795  
 ENTERED BY J. Cairns DATE Aug 13/69 790 - 785  
 CHECKED BY M. K. K... DATE Aug HOLE ADVANCED BY 4" Auger Machine

SAMPLE NO.	PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
257									4		Silty Sandy Broken Rock Boulders	T.H 463
									10		Refusal	
									5		Road Silty, Sandy Fill	T.H 464
									8		Broken Rock Water seepage	
									10		Refusal	
									4		Road Fill	T.H 465
									9		Silty Sand Broken Rock	
									10			
									1 1/2		Broken Rock Refusal Mountain	T.H 466
									10			

DEPARTMENT OF PUBLIC WORKS  
 SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DAMPSTER HWY TEST HOLE NO. 467-468-469-470  
 LOGGED BY Ed Melanson DATE July 1/69 STATION 780 - 775  
 ENTERED BY J. Cairns DATE Aug 13/69 770 - 765  
 CHECKED BY J. Cairns DATE Aug HOLE ADVANCED BY 4" auger

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
									3		Silt, Sand, Broken Rock Boulders ↑ Refusal	T.H. 467
258									2		Mile 47 / ← Road Fill Dry Hard Pack Silty Sandy Clay With Some Broken Rock 9 10 ← Refusal	T.H. 468
									3		Road Fill Dry Hard Pack Silty Sandy Clay With Some Broken Rock 8 10 ↑ Refusal	T.H. 469
									3		Road Fill Dry Hard Pack Silty Sandy Clay With Some Broken Rock 8 10 ↑ Refusal	T.H. 470



DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 471-472-473-474  
 LOGGED BY Ed Melanson DATE July 16/69 STATION 760 - 755  
 ENTERED BY J. Cairns DATE Aug 13/69 750 - 745  
 CHECKED BY J. Cairns DATE Aug HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING			LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	P.L.	P.L.						
259									2		Road Fill	T.H. 471
									5		Silty Sand, Clay Broken Rock Boulders	
											Refusal	
									10			
											Road Side Cut	T.H. 472
									5		Fill	
									8		Silty Sand, Clay, Broken Rock Boulders	
									10		Refusal	
									2		Overburden	T.H. 473
									4		Creek Bed Water	
											← Refusal	
									10		Silty, Sandy Clay Broken Rock, Boulders	
											← overburden	T.H. 474
											Silt, Sand clay, Broken Rocks	
											Some Boulders	
									10		Refusal	

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER Hwy TEST HOLE NO. 475-476-477-478  
 LOGGED BY Ed. Melanson DATE Aug 16/69 STATION 740 - 735  
 ENTERED BY J. Cairns DATE Aug 13/69 730 - 725  
 CHECKED BY J. Cairns DATE Aug HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING			LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	P.L.	P.1						
									4		Road Fill	T.H. 475
									8		Silt, Sand, clay Broken Rock	
									10		↑ Refusal	
									1		← Road Fill	T.H. 476
									4		Silt, Sand, Broken Rock	
									10		↑ Refusal	
									2		Road Fill	T.H. 477
									5		Silt, Sand, Broken Rock	
									10		↑ Refusal	
									6		Broken Rock	T.H. 478
									10		↑ Refusal	

74  
73  
73  
72

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 479-480-481-482  
 LOGGED BY Ed Melanson DATE July/69 STATION 720-715  
 ENTERED BY T. Cairns DATE Aug 13/69 710-705  
 CHECKED BY J. K. ... DATE Aug 13/69 HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING				LIMITS		Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	P.L.	P.L.					
									1		Silt, sand Broken Rock Boulders T.H. <u>479</u>
									9		← Refusal
									10		
									1		← Road Fill
260									5		Silt, Sand, Broken Rock Boulders T.H. <u>480</u>
									10		← Refusal
									1		Road Fill
									8		Silt, Sand Broken Rock Boulders T.H. <u>481</u>
									10		← Refusal
									5		Road Fill T.H. <u>482</u>
									9		Silt, Sand, Broken Rock Boulders
									10		← Refusal

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER Hwy TEST HOLE NO. 483-484-485-486  
 LOGGED BY Ed Melanson DATE July/69 STATION 700 - 695  
 ENTERED BY J. Cairns DATE Aug 13/69 690 - 685  
 CHECKED BY [Signature] DATE Aug 69 HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS				P.L	P.L	Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4							
									4		Road Fill
									10		silt; sand Some clay Broken Rock ↑ Refusal
									7		silt sand Some clay Broken Rock ↑ Refusal
									2		Creek Bed Sandy ↑ Gravel cobbles Refusal & Boulders
761									6		Silty Sand Some clay Broken Rock & Boulders ↑ Refusal

T.H 483

T.H 484

T.H 485

T.H 486

700

695

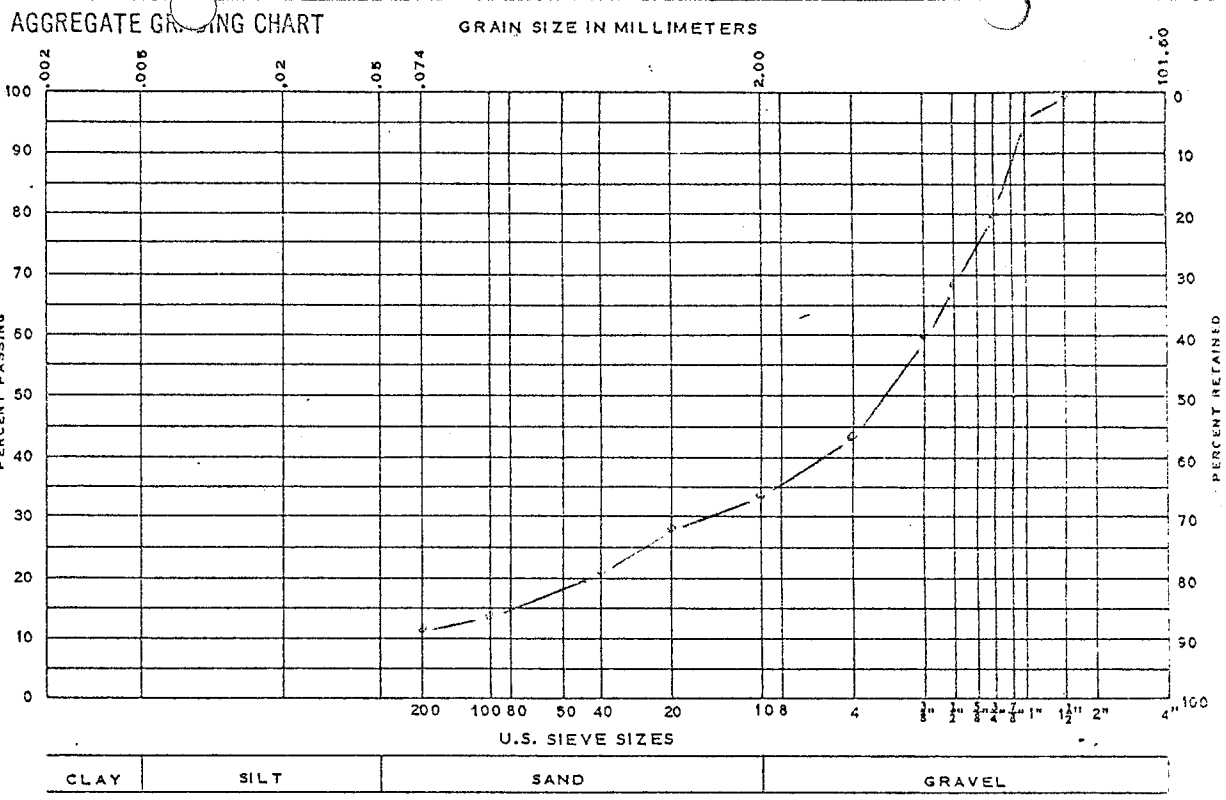
690

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER Hwy TEST HOLE NO. 487-488-489-490  
 LOGGED BY Ed Malanson DATE July 167 STATION 680-675  
 ENTERED BY J. Cairns DATE Aug 13/69 670-665  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75					
										3		Road Fill <span style="float: right;">T.H 487</span>
										8		Silty Sand, Broken Rock, Boulders
										10		Refusal
										2		Road Fill <span style="float: right;">T.H 488</span>
262										6		Silty Sand Broken Rock Boulders
										10		Refusal
										2		Over burden <span style="float: right;">T.H 489</span>
										7		Silty Sand, Clay Broken Rock Boulders
										1		Refusal
										3		Road Fill <span style="float: right;">T.H 490</span>
										8		Silty Sand Broken Rock Some Clay
										10		Refusal

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	1 1/2"	33.9 #10
95.8	1"	28.3 #20
79.9	3/4"	21.3 #40
68.6	1/2"	14.2 #100
59.7	3/8"	12.1 #200
44.4	#4	



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 504 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a	16.6	46.2	0							
		GW										
		WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA. 675+00

HOLE No. \_\_\_\_\_ DEPTH 2'-6'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 1969

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 287

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE 1/4/70

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER Hwy TEST HOLE NO. 491-492-493-494  
 LOGGED BY Ed Melanson DATE July 18/69 STATION 660-655  
 ENTERED BY J. Cairns DATE Aug 13/69 650-645  
 CHECKED BY [Signature] DATE \_\_\_\_\_ HOLE ADVANCED BY 411 Auger Mobile

SAMPLE NO.	PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.I.					
										3		Road Fill
										7		silty sandy Broken Rock Some Clay ↑ Refusal
										10		
										2		Road Fill
										6		silty Sand, Broken Rocks, Boulders ↑ Refusal
										10		
										3		Road Fill
										5		silty sand, Broken Rocks Boulders ↑ Refusal
										10		
										2		Road Fill
										9		silty Sand Broken Rocks Boulders ↑ Refusal
										10		

T.H 491

T.H 492

T.H 493

T.H 494

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 495-496-497-498  
 LOGGED BY Ed Melanson DATE July 16/69 STATION 640-635  
 ENTERED BY J. Cairns DATE Aug 13/69 630-625  
 CHECKED BY W. Kubick DATE Aug 16/69 HOLE ADVANCED BY H. Rager Mobile

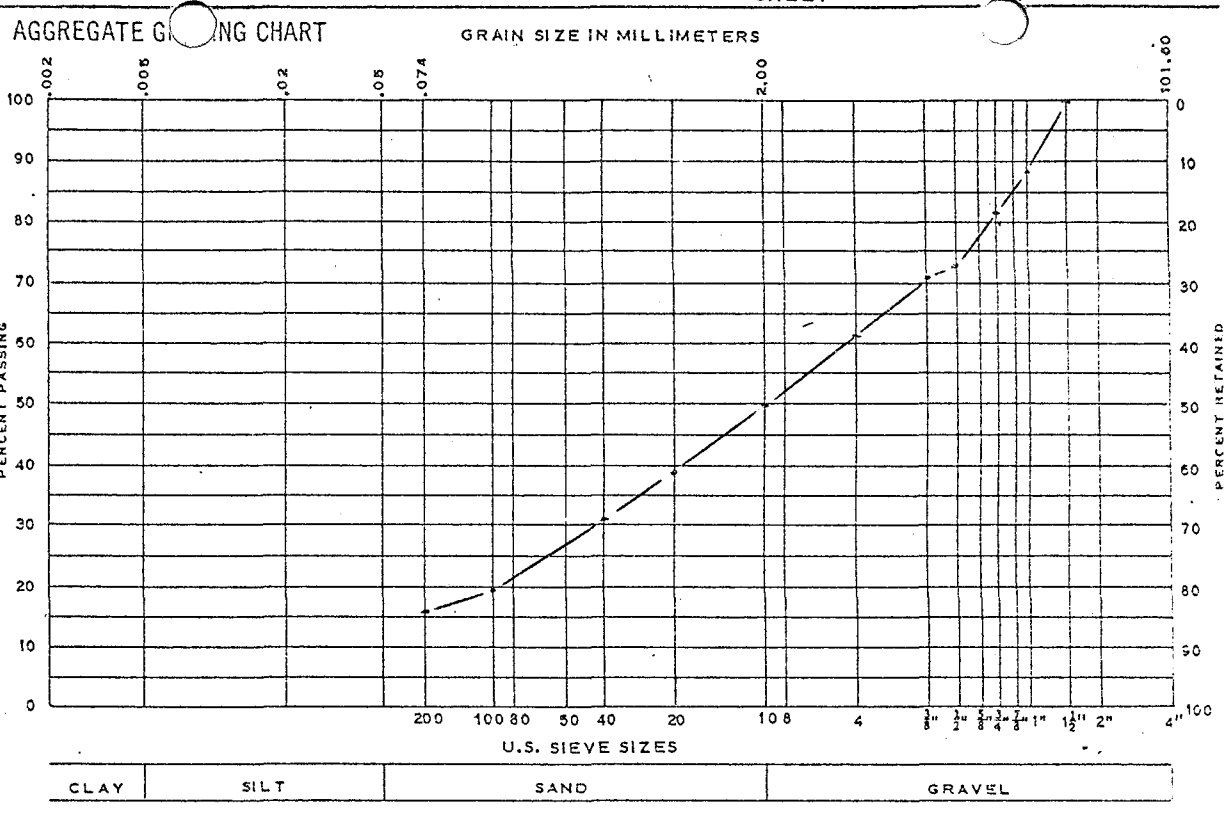
SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	L.L	P.L	P.I						
										12		Silty Sand Overburden Silty Sandy Broken Rock ↖ Refusal	T.H. 495
										8			
										10			
										2		Silty Sand Overburden Broken Rock ↖ Refusal	T.H. 496
										8			
										10			
										3 1/2		Silty Sand Overburden silt, Sand Broken Rock ↖ Refusal	T.H. 497
										10			
										6		Silty Sand Some Clay Broken Rock ↖ Refusal	T.H. 498
										10			

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 499-500-501-502  
 LOGGED BY Ed Melanson DATE July 1969 STATION 620 - 615  
 ENTERED BY J. Cairns DATE Aug 13/69 610 - 605  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Auger Makale

SAMPLE NO.	% PASSING				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	L.L	P.L	P.I						
										9 10		Silty Sand Some Clay Broken Rock ↑ Refusal	T.H. <u>499</u> 62
										8 10		Silt, Sand Some Clay Broken Rock Boulders ↑ Refusal	T.H. <u>500</u> 615
										6 9 10		Road Fill silt, sand Broken Rock ↑ Refusal	T.H. <u>501</u> 61
263										6 10		Dirty sandy Gravel, Boulders ↑ Refusal	T.H. <u>502</u> 60

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	FINER SIEVE
100.0	1 1/2"	49.9 #10
88.2	1"	38.9 #20
51.8	3/4"	30.9 #40
28.5	1/2"	19.6 #100
21.3	3/8"	15.9 #200
61.3	#4	



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b				00						
		GW										
		WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEARBSTER HIGHWAY CONSTRUCTION

LOCATION STA. 605+00

HOLE No. \_\_\_\_\_ DEPTH 0'-6'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED July 1969

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 288

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE 2/4/70

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DUMPSTER HUX TEST HOLE NO. 503-504-505-506  
 LOGGED BY Ed Melanson DATE July/69 STATION 600-595  
 ENTERED BY J. Cairns DATE Aug 13/69 590-585  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Auger Machine

SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L	P.L	P.L					
										0		Dirty Sandy Gravel Boulders T.H. 503 ↑ Refusal
										10		
										2		Road Fill silt, sand Broken Rock Boulders T.H. 504 ↑ Refusal
										8		
										2		Road Fill silt, sand, Broken Rock Boulders T.H. 505 ↑ Refusal
										5		
										2		Road Fill silt, sand, Broken Rock, Boulders some Clay T.H. 506 ↑ Refusal
										8		
										10		

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEPOTTER Hwy TEST HOLE NO. 507-508-509-510  
 LOGGED BY Ed. Melanson DATE July/67 STATION 580 - 575  
 ENTERED BY J. Cairns DATE Aug 13/67 570 - 565  
 CHECKED BY H. K. ... DATE Aug 14 HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING			LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.						P.L.
									7		silt, sand Broken Rock Boulders ↑ Refusal	T.H. 507
									8		silt, sand Broken Rock Boulders ↑ Refusal	T.H. 508
263									6		silty sandy Gravel Boulders	T.H. 509
									3		Road Fill	T.H. 510
									9		silty sandy Gravel Boulders	

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER Hwy TEST HOLE NO. 511-512-513-514  
 LOGGED BY Ed Melanson DATE July/69 STATION 560 - 555  
 ENTERED BY J. Cairns DATE Aug 13/69 550 - 545  
 CHECKED BY M. K. ... DATE (...) HOLE ADVANCED BY 4" Ruger Mobile

SAMPLE NO.	% PASSING LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10					
						2		Road Fill
						7		Silty Sandy Gravel Boulders
						10		
						1		← Overburden
264						4		Silty, Sandy Gravel
265						6		Wet Silty Sand
266						8		Partly Frozen Silty Sand
						10		↑ Rock Refusal
						1 1/2		← Overburden
267								Silty Sandy Gravel
						10		
						1		← Overburden
								Silty sand
						7		Large Boulders
						10		↑ Refusal

T.H. 511

T.H. 512

T.H. 513

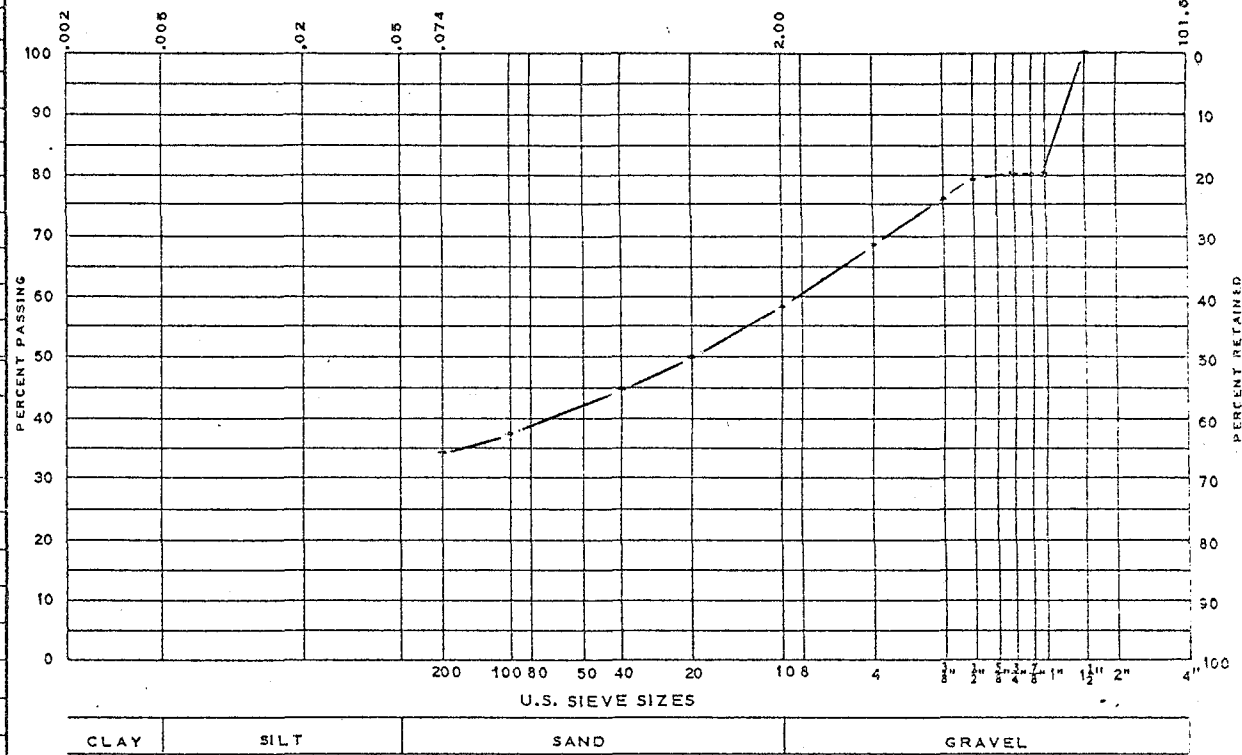
T.H. 514

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

FINER BY WEIGHT		SIEVE ANALYSIS		SAMPLE NUMBER									
SIEVE	% FINER	SIEVE	% FINER										
100.0	1 1/2"	57.9	#10										
80.3	1"	50.2	#20										
80.3	3/4"	44.9	#40										
77.1	1/2"	37.4	#100										
25.5	3/8"	34.5	#60										
62.7	#4												
% + 4"													
AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 504 % LOSS	USPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.	
		A-2-4	17.2	21.0	8								
		SM											
		SILTY - SAND											

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION STA. 555700 &  
 HOLE No. \_\_\_\_\_ DEPTH 1-4'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED July 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 289  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE 2/4/70

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

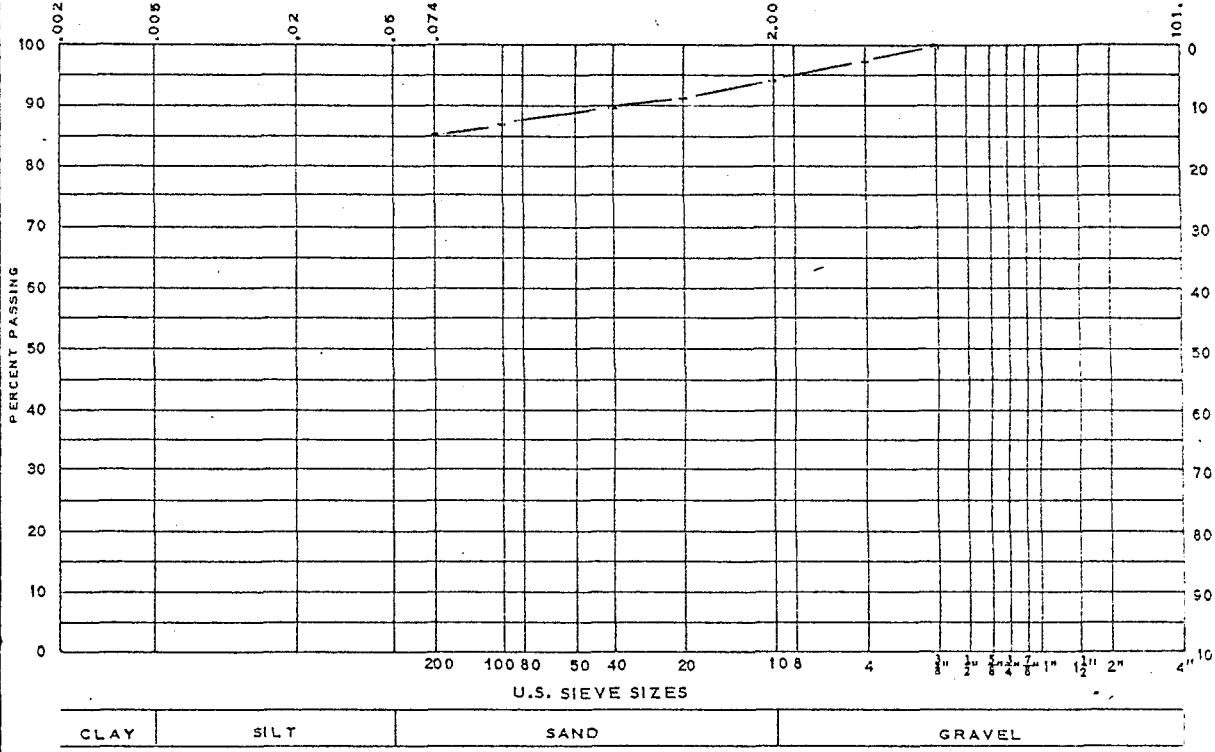
DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT		SIEVE ANALYSIS		SAMPLE NUMBER	
		SIEVE			
100.0		# 3/8			
96.9		# 4			
94.2		# 10			
91.4		# 20			
92.6		# 40			
87.0		# 100			
85.5		# 200			
% + 4"					

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-A	25.0	24.5	0.5							
		ML										
INORGANIC SILT AND CLAY / FINE SAND												

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMONSTRATION HIGHWAY CONSTRUCTION  
 LOCATION: STA. 555+00  
 HOLE No. \_\_\_\_\_ DEPTH: 4'-6'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JULY/65  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 290  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

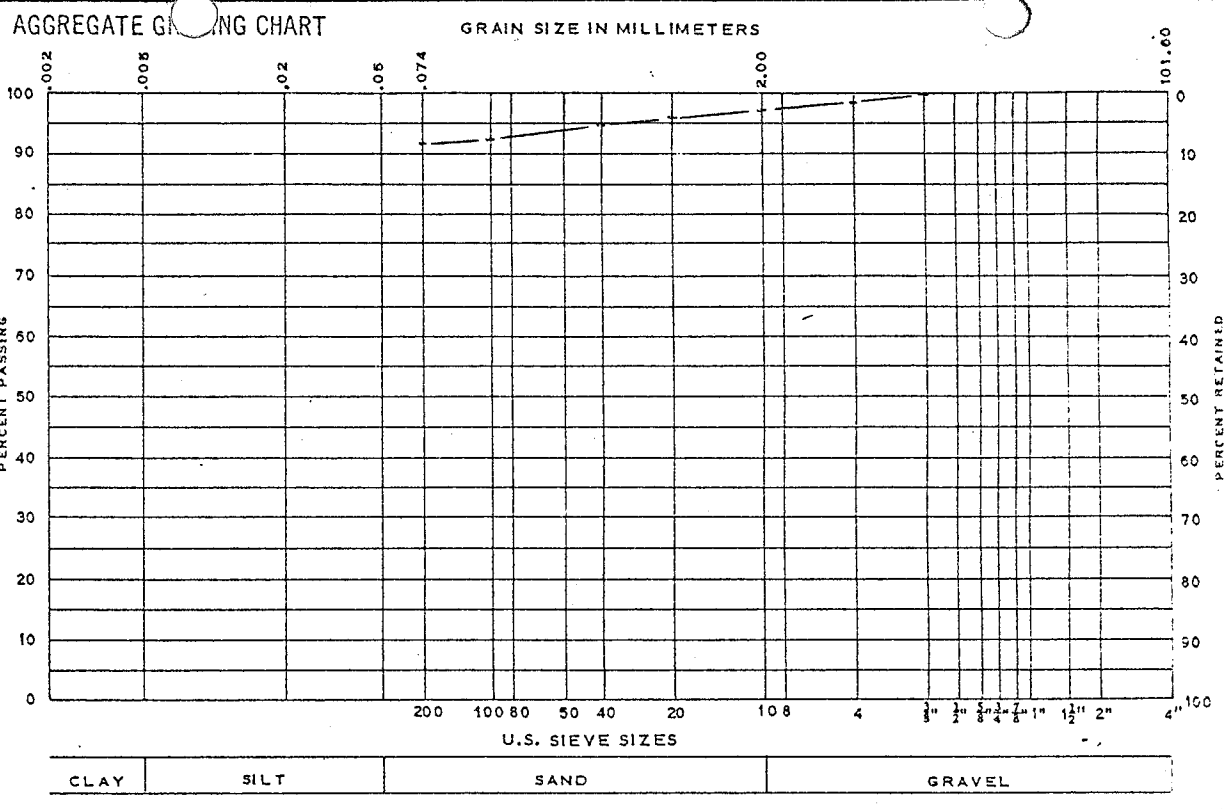
DATE 3/4/70 HA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

% FINER BY WEIGHT		SIEVE ANALYSIS									
		SAMPLE NUMBER									
SIEVE											
100.0	# 3/8										
98.0	# 4										
97.0	# 10										
45.8	# 30										
44.7	# 40										
92.7	# 100										
91.4	# 200										
% + 4"											



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: Demo for Highway Construction

LOCATION: Sta. 555+00

HOLE No. \_\_\_\_\_ DEPTH: 6'-8'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: Jan 16/92

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 291

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER: \_\_\_\_\_ DATE: 1/16/92

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

*INORGANIC SILT AND VERY FINE SAND*

*A-4 ML*

*0.5%*

AGGREGATE DEPOSIT REPORT (Cont'd)

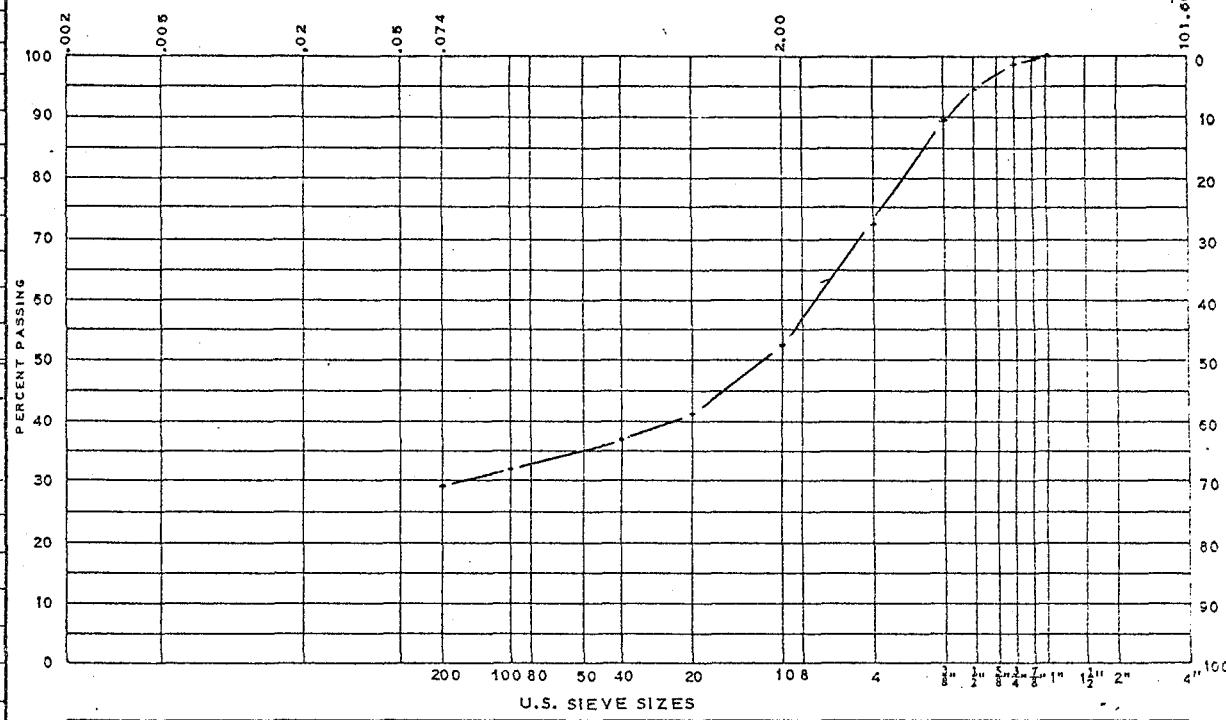
SHEET

OF

% FINER BY WEIGHT	SIEVE ANALYSIS		SAMPLE NUMBER
	SIEVE	% FINER	
100.0	#10	52.6	#10
97.6	#20	40.9	#20
94.2	#40	36.6	#40
89.6	#100	31.5	#100
72.3	#200	28.9	#200

AGGREGATE GOULDING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 804 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
		A-7-A	22.9	17.6	5.3							
		S.M.										
		SIATY-SAND										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMASTER HIGHWAY CONSTRUCTION  
 LOCATION: STA. 550+00 &  
 HOLE No. \_\_\_\_\_ DEPTH: 1 1/2 - 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: June/69  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 292  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

2/1/70  
EA

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE



DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 519-520-521-522  
 LOGGED BY Ed Melanson DATE July 16/69 STATION 520-515  
 ENTERED BY J. Cairns DATE Aug 13/69 510-505  
 CHECKED BY J. Kubal DATE Aug 14/69 HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.I.						
										4		Road Fill	T.H. 519
										7		Sandy Broken Rock Boulders	
										10		↑ Refusal	
										1		Road Fill	T.H. 520
										6		Silty Sandy Broken Rock Boulders	
										10			
										4		Road Fill	T.H. 521
										9		Silty Sandy Some Clay Broken Rock	
										10		↑ Refusal	
										7		Wind Row Sand Clay Broken Rock Boulders	T.H. 522
										10		↑ Refusal	

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 523-524-525-526  
 LOGGED BY Ed Melanson DATE July 16/69 STATION 500 - 495  
 ENTERED BY J. Cairns DATE Aug 13/69 490 - 485  
 CHECKED BY J. Cairns DATE Aug 13/69 HOLE ADVANCED BY 1" Auger-Mohale

SAMPLE NO.	% PASSING LIMITS				L.L.	P.L.	P.1	Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4								
										3		Road Fill <span style="float: right;">T.H. 523</span>
										10		Silt, Sand Broken Rock Boulders ↖ Refusal
268										1		← Overburden Silty Sand Broken Rock Boulders ↖ Refusal
										8		
										10		
										1		← Overburden Silty Sand Broken Rock Boulders ↖ Refusal
										8		
										10		
										1		← Overburden Silty Sand, Broken Rock, Boulders ↖ Refusal
										8		
										10		

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

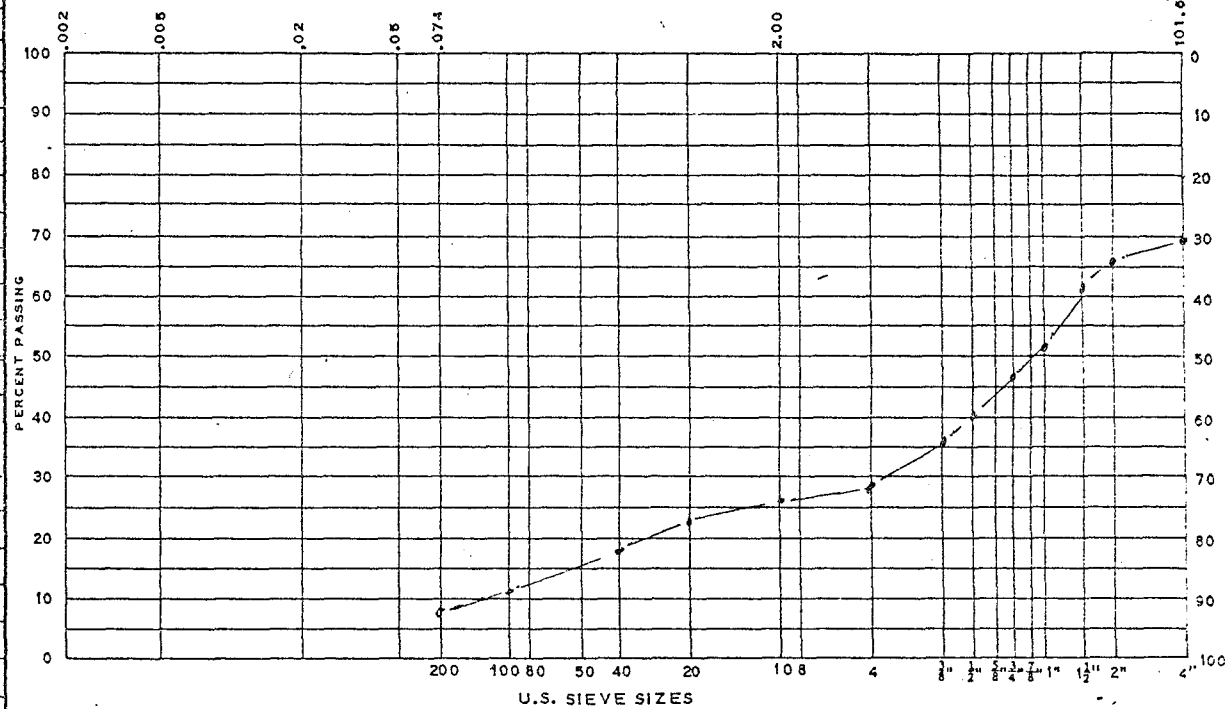
% FINER BY WEIGHT		SIEVE ANALYSIS		SAMPLE NUMBER											
		SIEVE	% FINER	SIEVE											
69.9		4	26.3	#10											
-		3	23.1	#20											
65.3		2	17.5	#40											
61.1		1/10	10.7	#100											
52.3		1	8.5	#200											
46.7		3/10													
40.0		1/2													
35.1		3/8													
28.0		#4													
% + 4"															

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		GP-GM										
		POORLY GRADED SILTY GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT..... DENPSTER HIGHWAY CONSTRUCTION  
 LOCATION..... STA 495+00  
 HOLE No.....                      DEPTH..... 1'-8'  
 SAMPLE TYPE.....                      DATE SAMPLED JULY/69  
 FIELD SAMPLE No.....                      LAB SAMPLE No. 293  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

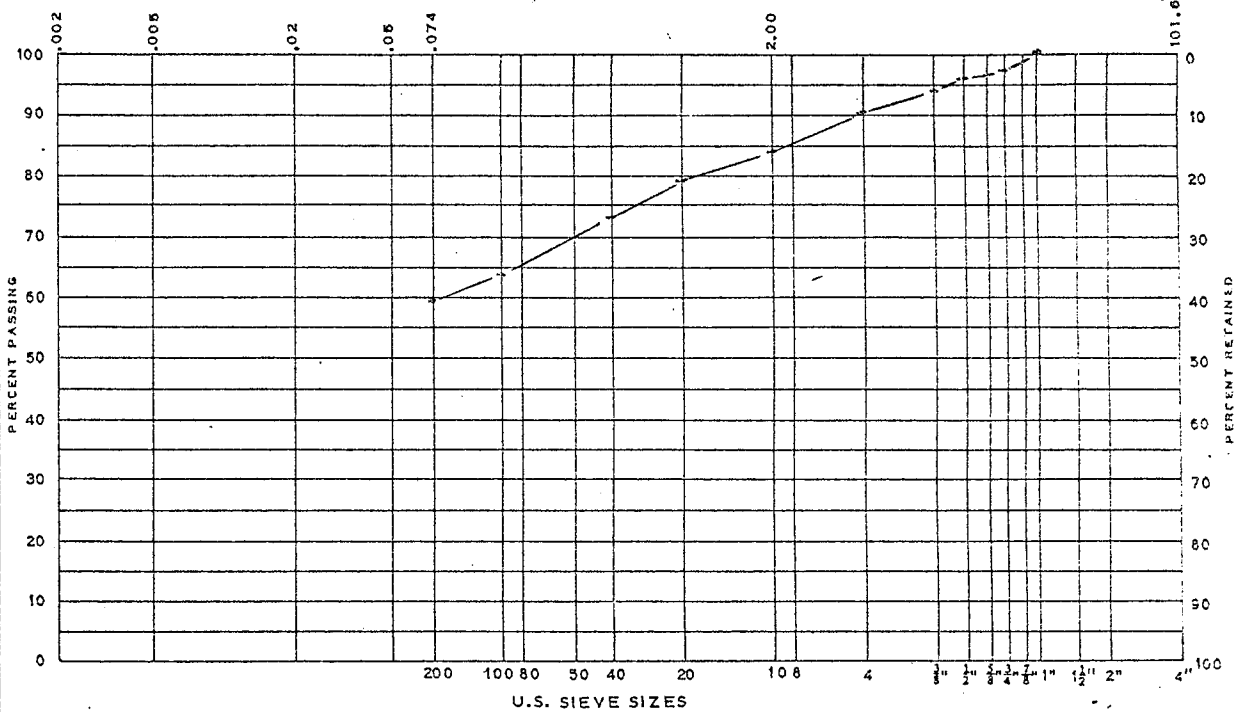
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 527-528-529-530  
 LOGGED BY Ed. Melanson DATE July 16/69 STATION 480 - 475  
 ENTERED BY J. Cairns DATE Aug 13/69 470 - 465  
 CHECKED BY A. K. ... DATE Aug 17/69 HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.I.					
269										1 5 10		← Overburden "Frozen" Silty, Sand, Clay Small Stones ↑ Boulders ∴ Refusal
270										1 6 10		← Overburden "Frozen" Perma Frost Organic Material ↑ Refusal of Boulders
										1 4 10		← Overburden "Frozen" Silty Sand, Broken Rock, Boulders @ 4" ↑ Refusal
										1 6 10		Pint Row Silt, Sand, Broken Rock Boulders ↑ Refusal

FINER BY EIGHT	SIEVE ANALYSIS		SAMPLE NUMBER							
	SIZE	% FINER								
100.0	1"	89.4	#10							
77.4	3/4"	78.5	#20							
76.5	1/2"	73.4	#40							
93.9	3/8"	64.0	#100							
70.2	#4	59.8	#200							
%										
% + 4"										
IMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L. P.L. P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
		A-A	27320370							
		ML								
INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART



CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEPARTMENT HIGHWAY CONSTRUCTION  
 LOCATION STA. 480+00  
 HOLE No. \_\_\_\_\_ DEPTH 0-5'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUN 2 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 294  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/70  
DATE SA

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE



DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER Hwy TEST HOLE NO. 531-532  
 LOGGED BY Ed Melanson DATE July 16/29 STATION 460 - 455  
 ENTERED BY T. Cairns DATE Aug 13/29 450  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS						Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.						P.L.
									5		Road Fill	T.H. 531
									10		Silty Sand Broken Rock Boulders	
									11		Refusal	
									4		Road Fill	T.H. 532
									9		Silty Sand Broken Rock & Boulders	
									10		Refusal	
									2		Road Fill	T.H. 533
									7		Silty Sand Broken Rock & Boulders	
									10			
												T.H. _____
									10			

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMASTER Hwy TEST HOLE NO. 535, 536, 537, 538  
 LOGGED BY ED Malanson DATE July 1963 STATION 445, 440  
 ENTERED BY L LEPKOY DATE Aug 1963 435, 430  
 CHECKED BY J. K. K. K. DATE Aug HOLE ADVANCED BY 4" auger

SAMPLE NO.	PASSING LIMITS				P. 20	P. 40	Public Road's Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4							
271									0-4'		0-4' ROAD FILL T.H. 535 4-9' SILTY SANDY CLAY GRAVEL Broken Rock BOULDERS REFUSAL AT 9'
									0-2'		0-2' ROAD FILL T.H. 536 2-7' SILTY SANDY CLAY, GRAVEL, BROKEN ROCK BOULDERS REFUSAL AT 7'
									0-3'		0-3' ROAD FILL T.H. 537 3-6' SILTY SANDY CLAY GRAVEL, BROKEN ROCK BOULDERS REFUSAL AT 6'
									0-4'		0-4' ROAD FILL T.H. 538 4-8' SILTY SANDY GRAVEL, some clay BOULDERS REFUSAL AT 8'

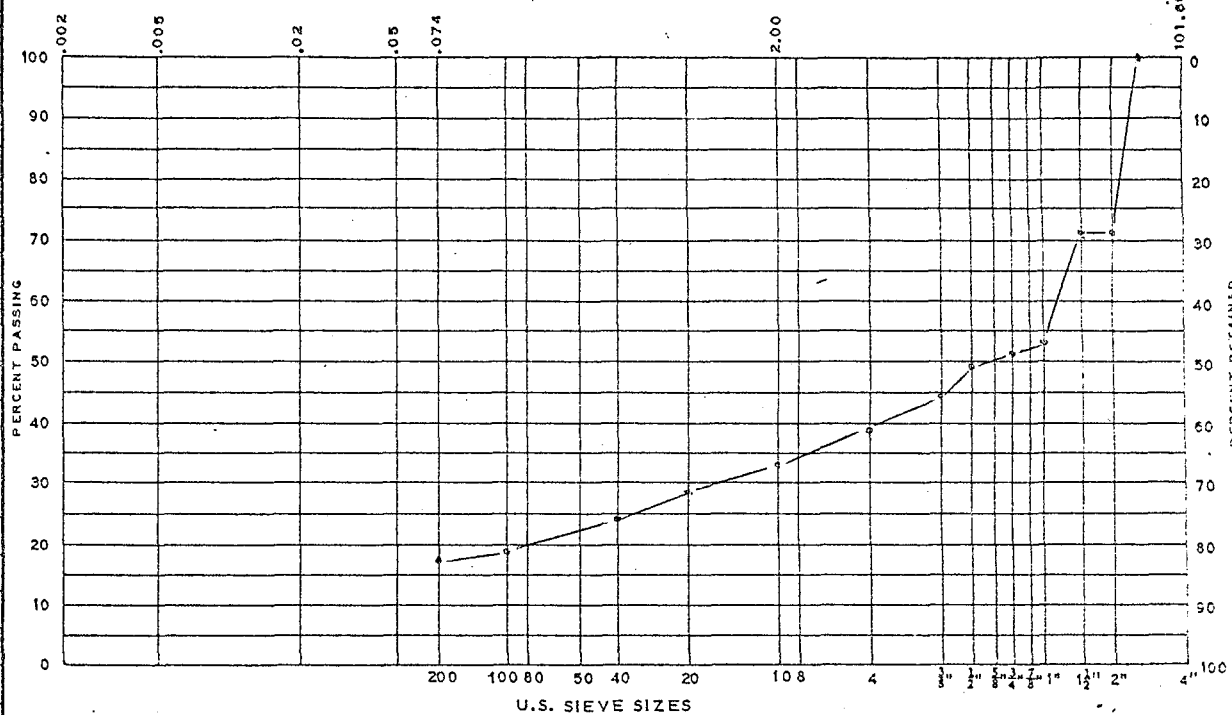
# AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS		SAMPLE NUMBER									
	SIEVE	% FINER	SIEVE									
100.0	3"	33.1	#10									
70.6	2"	27.9	#20									
70.6	1 1/2"	24.1	#40									
53.2	1"	18.6	#100									
51.2	3/4"	17.4	#200									
48.6	1/2"											
44.6	3/8"											
38.9	#4											
% + 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	OSPc	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
		A-1-b	21.1	15.1	6.0							
		G.M.-G.C.										
		SILT- GRAVEL										

## AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

### TYPICAL PETROGRAPHIC ANALYSIS

#### COARSE AGGREGATE

ROCK TYPE

%

### LABORATORY'S REMARKS

PROJECT: DENVER HIGHWAY CONSTRUCTION  
 LOCATION: STA 445+00  
 HOLE No. \_\_\_\_\_ DEPTH: 4'-9'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUL 16 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 296  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

6/14/70  
BA

#### FINE AGGREGATE

ROCK TYPE

%

### MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

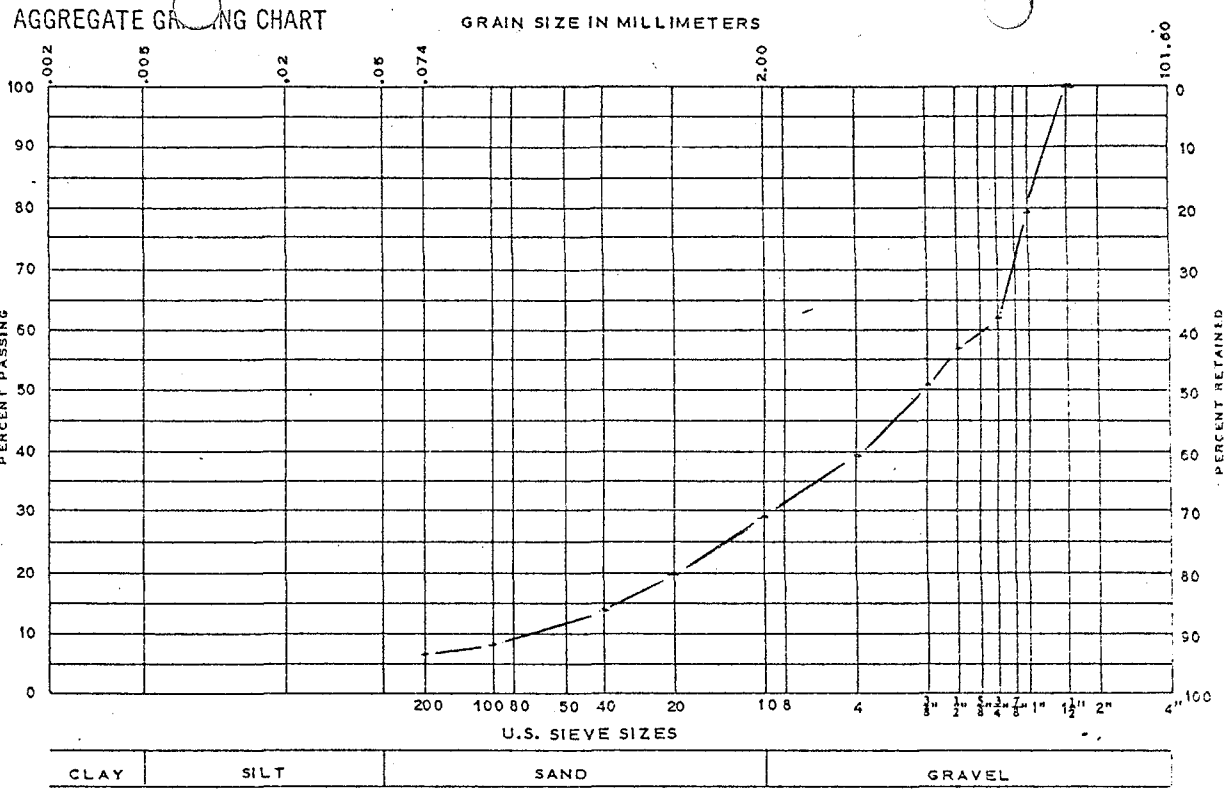
DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMOLITION HWY TEST HOLE NO. 539 540 541 542  
 LOGGED BY ED Malason DATE 5.12.69 STATION 425 420  
 ENTERED BY W. L. PECKEY DATE Aug 15/69 415 410  
 CHECKED BY H. Kulish DATE Aug 19 HOLE ADVANCED BY 4" 4000

SAMPLE NO.	No. 200	PASSING LIMITS			P.L.	P.L.	Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
		No. 40	No. 10	No. 4							
								2			0-2' ROAD FILL T.H. 539
								5			2-5' SILTY SANDY GRAVEL, SOME CLAY, Boulders REFUSAL AT <u>5'</u>
								10			
								1			0-1' ROAD FILL T.H. 540
								4			1-6' SILTY SANDY GRAVEL SOME CLAY, Boulders REFUSAL AT <u>6'</u>
								20			
								2			0-2' ROAD FILL T.H. 541
								8			2-8' SILTY SANDY GRAVEL SOME CLAY, Boulders REFUSAL AT <u>8'</u>
								10			
								2			0-1' OVER BURDEN T.H. 542
272								6			1-6' FROZEN SANDY GRAVEL COBBLES + Boulders REFUSAL AT <u>6'</u>
								10			

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	FINER SIEVE
100.0	1 1/2"	29.1 # 10
79.4	1"	20.1 # 20
61.8	3/4"	17.1 # 40
56.5	1/2"	8.1 # 100
50.6	3/8"	6.6 # 200
39.5	# 4	



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.C. 804 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a				0.0						
		GW										
		WELL-GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DENVER HIGHWAY CONSTRUCTION

LOCATION: STA 410+00

HOLE No. \_\_\_\_\_ DEPTH: 1'-6"

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: July/69

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 297

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE: 2/11/70

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DECEMBER HWY TEST HOLE NO. 543 544 545 546  
 LOGGED BY E.D. Malanec DATE July 16 STATION 405 400  
 ENTERED BY L. HARRY DATE Aug 13 19 395 390  
 CHECKED BY A. Kubaska DATE Aug 19 HOLE ADVANCED BY 2" auger

SAMPLE NO.	% PASSING LIMITS				Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4					
							0-7		ROAD FILL T.H. 543
							7-12		SANDY GRAVEL COBBLES + BOLDERS
							12		REFUSAL AT 12'
							0-1		OVERBURDEN T.H. 544
							1-13'		SANDY GRAVEL COBBLES + BOLDERS
							13		REFUSAL AT 13'
							0-1		OVERBURDEN T.H. 545
273							1-6'		FROZEN, ORGANIC PARTLY FROZEN SILTY SANDY CLAY BOLDERS
							6		REFUSAL AT 6'
							0-1'		OVER BURDEN T.H. 546
							1-10'		FROZEN SILTY SANDY CLAY ROCK AT 8'
							10		

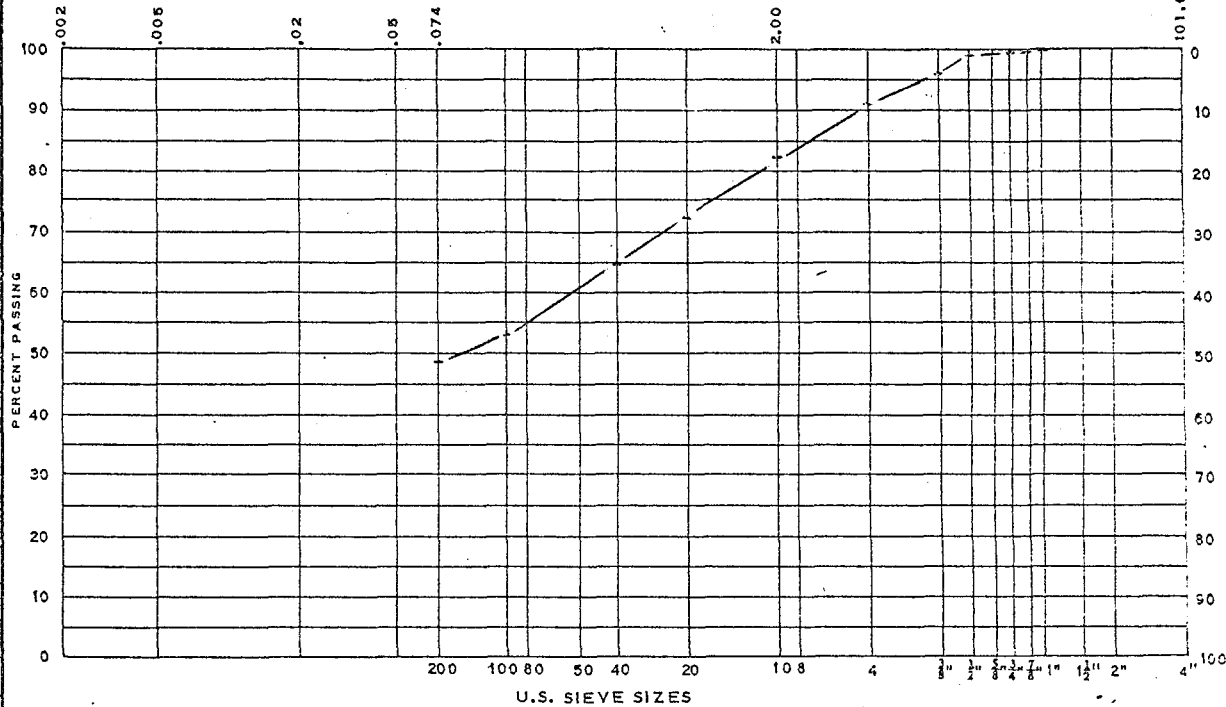
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
100.0	1"	82.5
98.8	3/4"	72.4
97.9	1/2"	64.7
96.2	3/8"	53.3
91.3	4"	18.5

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSPG	COLOUR	X W/ATER ABSORB.	% ASPH. ABSORB.	F.M.

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEVELOPMENT HIGHWAY CONSTRUCTION

LOCATION STA 395+50

HOLE No. \_\_\_\_\_ DEPTH 1'-6"

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED June 19

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 298

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

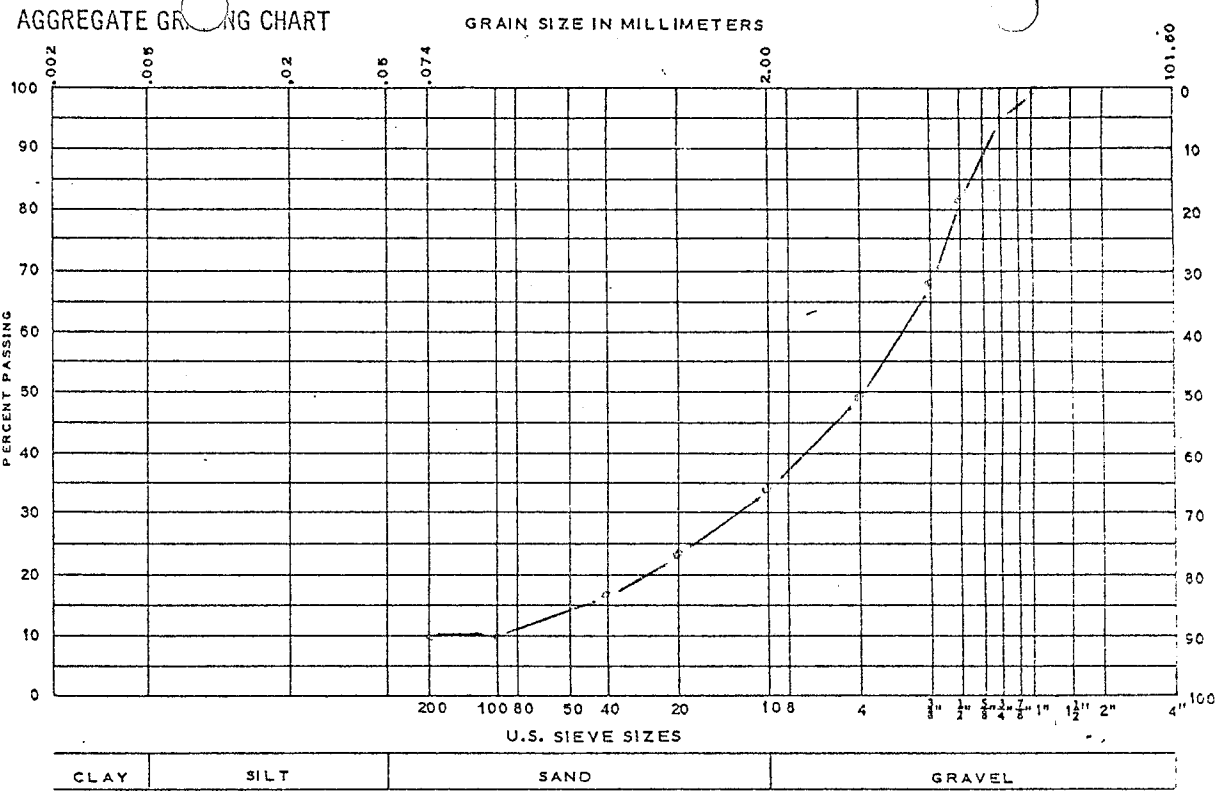
PROJECT DE MISTER HWY TEST HOLE NO. 547 548 549 550  
 LOGGED BY ED MALAGSON DATE July 1/59 STATION 355 380  
 ENTERED BY L. L. Dreyer DATE Aug 3/59 375 370  
 CHECKED BY C. Kulaska DATE Aug 19 HOLE ADVANCED BY 4" (11)

SAMPLE NO.	% No. 200	PASSING LIMITS				Public Roads Clays	Sample Depth	Depth ft.	Profile	NOTES:
		No. 10	No. 40	No. 20	No. 10					
										0-1' OVERBURDEN T.H. 547
							9			1-9' FROZEN SILTY, SANDY CLAY - REFUSAL AT 9'
							4			0-1' OVERBURDEN T.H. 548
							4			1-4' FROZEN SILTY, SANDY CLAY Boulders at 4'
										RIVER BED T.H. 549
274							6			0-6' STRIPED T.H. 550 SILTY, SANDY, GRAVEL CORBLES REFUSAL AT 6'

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT		SIEVE ANALYSIS	
SIEVE		% FINER	SIEVE
100.0	1"	34.4	#10
44.6	3/8"	23.8	#20
81.6	1/2"	17.1	#40
68.4	3/8"	10.4	#100
49.5	#4	10.1	#200



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS		BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
						MG 504	% LOSS					
		A-1-a			00							
		GW										
		WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMASTER HIGHWAY CONSTRUCTION

LOCATION: STA. 370+00

HOLE No. .... DEPTH: 0-6'

SAMPLE TYPE ..... DATE SAMPLED: July 1/69

FIELD SAMPLE No. .... LAB SAMPLE No. 299

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

11/1/70  
JH

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMOLITION TEST HOLE NO. SS-1, SS-2, SS-3, SS-4  
 LOGGED BY ED Malanson DATE July 19 STATION 345, 360,  
 ENTERED BY L Leakey DATE Aug 19/19 355, 350  
 CHECKED BY H. K. ... DATE Aug 19 HOLE ADVANCED BY 4' Aug 19

SAMPLE NO.	% PASSING LIMITS				Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 20	No. 40	No. 100	No. 200					
							0-3'		ROAD FILL T.H. SS-1
							3'-4.5'		OVERBURDEN
							4.5'-10'		SILTY SANDY GRAVEL
							0-1'		OVER BURDEN T.H. SS-2
							1'-7'		SILTY, SANDY, GRAVEL COBBLES
									REFUSAL AT <u>7'</u>
							0-1.5'		OVER BURDEN T.H. SS-3
275							1.5'-8'		FROZEN SILTY SAND ROCKS
									REFUSAL AT <u>8'</u>
							0-9'		T.H. SS-4
276									SILTY SANDY GRAVEL COBBLES

AGGREGATE DEPOSIT REPORT (Cont'd)

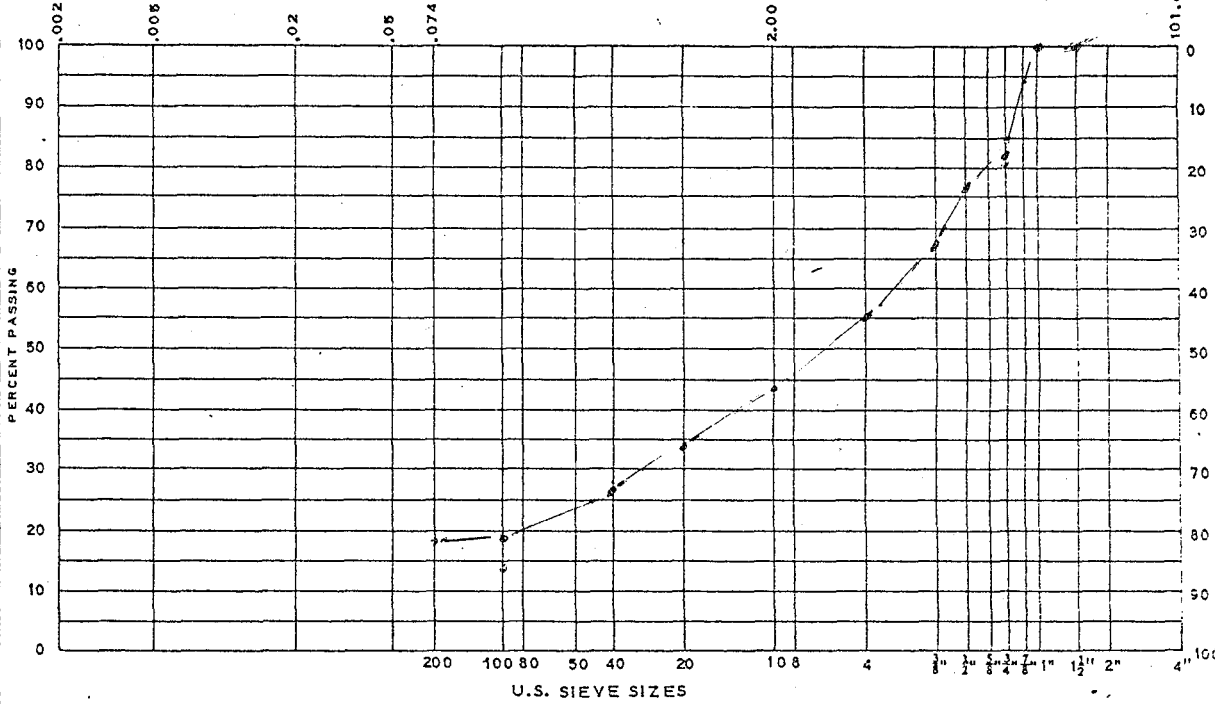
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS		SAMPLE NUMBER
	SIEVE	% FINER	
100.0	1	49.2	#10
82.4	3/4	34.6	#20
75.4	1/2	26.7	#40
67.2	3/8	19.9	#100
55.0	#4	18.3	#200

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-2-6	36.9	25.8	11.1							
		SH										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION: STA: 350+00  
 HOLE No.      DEPTH: 0-9'  
 SAMPLE TYPE      DATE SAMPLED: JULY 4/69  
 FIELD SAMPLE No.      LAB SAMPLE No. 301  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

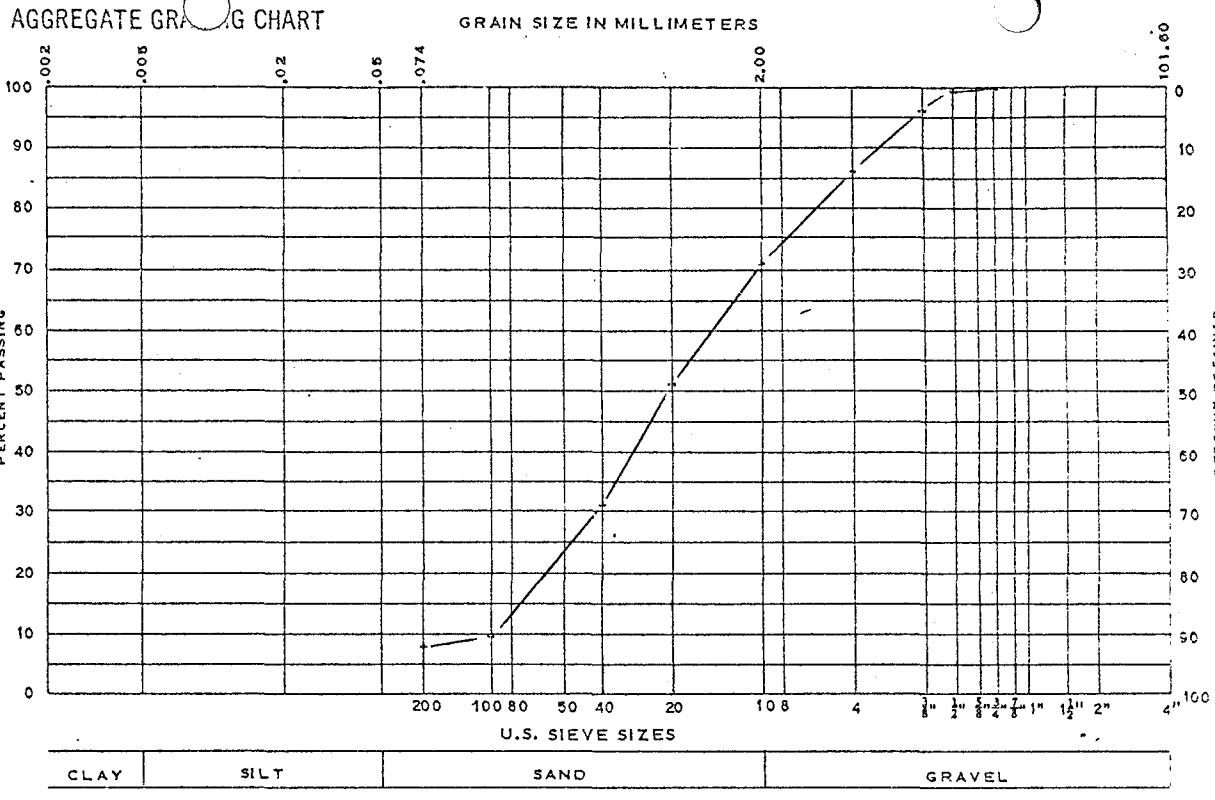
DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMETER HWY TEST HOLE NO. SSS5C6 SS7 S58  
 LOGGED BY ED Maloney DATE July 10 STATION 345 340  
 ENTERED BY L. Lerkey DATE Aug 19 335 330  
 CHECKED BY A. K. ... DATE Aug 19 HOLE ADVANCED BY 4" Aug 19

SAMPLE NO.	% PASSED	PASSING				LIMITS			Sample Depth	Depth to Profile	Profile	NOTES:
		10.00	1.00	0.75	0.25	U.C.S.	P.C.	Public Roads Class.				
									2'			0-2 ROAD FILL T.H. S55
277									6'			2'-6' BLACK, SILTY SAND WITH SMALL STONES
278									10'			6-10' FROZEN BLACK-SILT WATER AT 5'
									3'			0-3' SILTY CLAY OVERBURDEN T.H. S58
									8'			3-8' SANDY GRAVEL CORBLES FROZEN AT 6' REFUSAL AT 8'
									8'			STRIPPED T.H. S57
280									8'			0-8' SILTY, SANDY GRAVEL CORBLES + BOULDERS REFUSAL AT 8'
									9'			0-1' overburden T.H. S58
									9'			1-9' SILTY SANDY GRAVEL CORBLES + BOULDERS REFUSAL AT 9'

FINER BY WEIGHT		SIEVE ANALYSIS	
		SAMPLE NUMBER	
SIEVE	% FINER	SIEVE	
100.0	3/4"	71.1	#10
99.1	1/2"	51.2	#20
95.7	3/8"	31.1	#40
86.2	#4	9.8	#100
		7.8	#200



AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.C. 80, % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b				N.P.						
		SW										
		WELL GRADED SAND										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMONSTRATOR HIGHWAY CONSTRUCTION

LOCATION STA. 315+00

HOLE No. \_\_\_\_\_ DEPTH 2'-6"

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JULY 1970

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 302

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE 3/1/70 EA

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

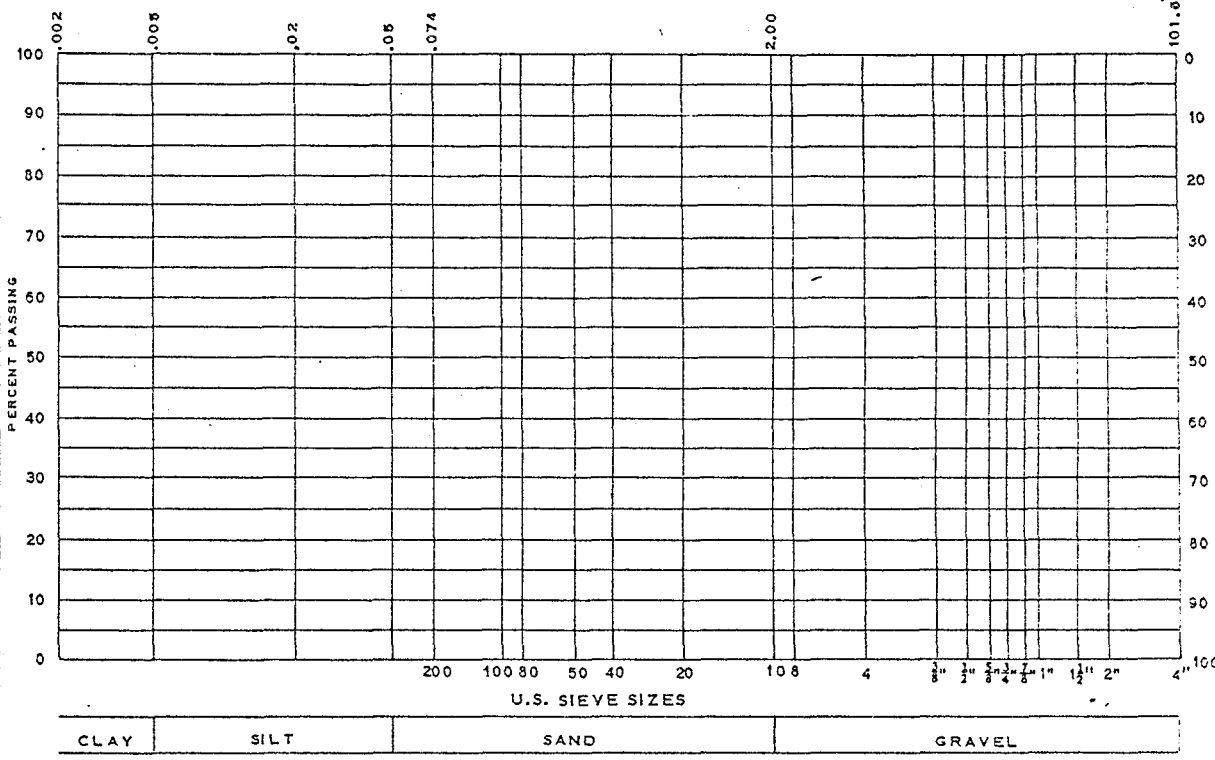
SHEET

% FINER BY WEIGHT		SIEVE ANALYSIS SAMPLE NUMBER										
<p>&gt; 75% PASSING #200</p>												

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-A	32.4	24.9	0							
		AL										
		Lo PLASTIC INORGANIC SILT.										

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STN 345+00

HOLE No. \_\_\_\_\_ DEPTH: 6'-10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JULY 69

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 303

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

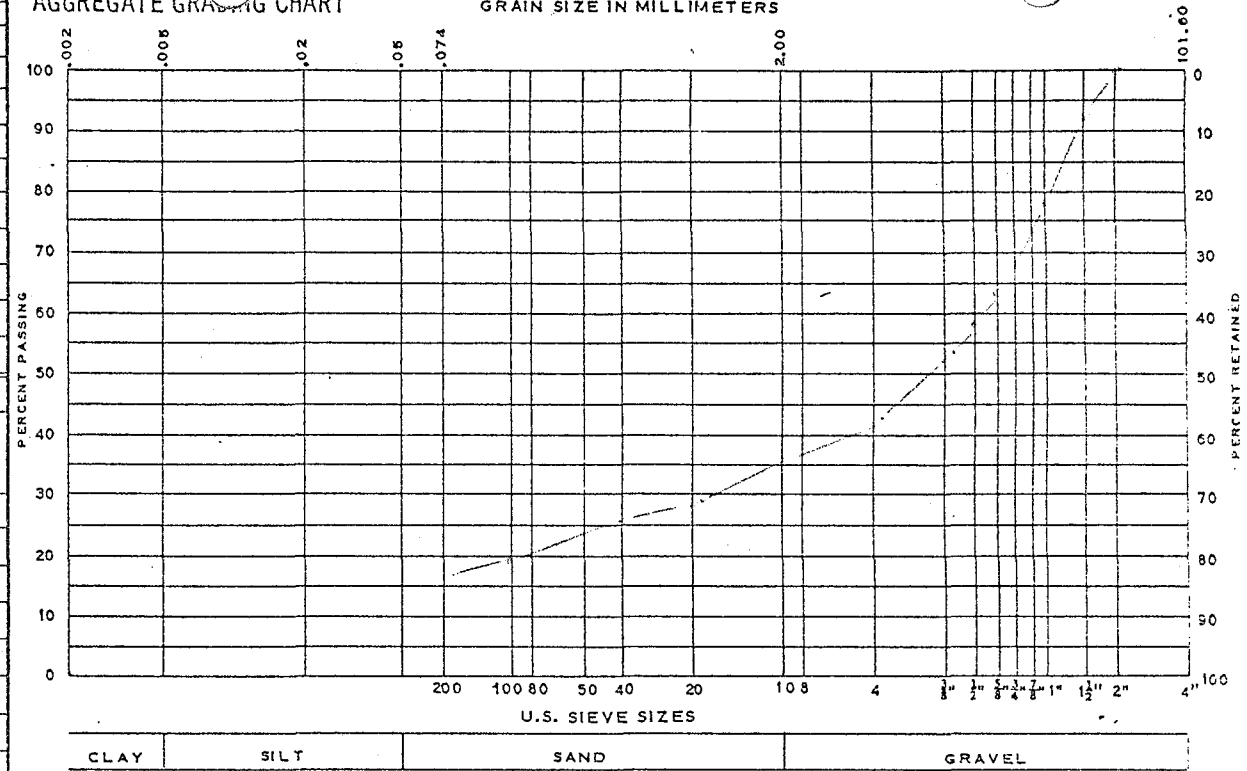


FINER BY EIGHT	SIEVE ANALYSIS		SAMPLE NUMBER	
	SIEVE	% FINER	SIEVE	
30.0	#2	35.2	#10	
92.9	#1/2	29.3	#20	
75.9	#1	25.2	#40	
64.3	#3/4	19.5	#100	
57.7	#1/2	16.5	#200	
52.2	#3/8			
42.5	#1			

MPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 504 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b	21.5	20.0	1.5							
		SILT										
		SILT (GRAVEL)										

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT..... DEARBSTER HIGHWAY CONSTRUCTION  
 LOCATION..... STN 335+00  
 HOLE No..... DEPTH..... 0-8'  
 SAMPLE TYPE..... DATE SAMPLED..... JULY 1969  
 FIELD SAMPLE No..... LAB SAMPLE No..... 305  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER Hwy. TEST HOLE NO. 559, 560, 561, 562  
 LOGGED BY ED MALAN DATE JUL/69 STATION 305, 300,  
 ENTERED BY L. LOPKEY DATE Aug 3/69 315, 310  
 CHECKED BY H. Kuller DATE Aug HOLE ADVANCED BY 4' (11/69)

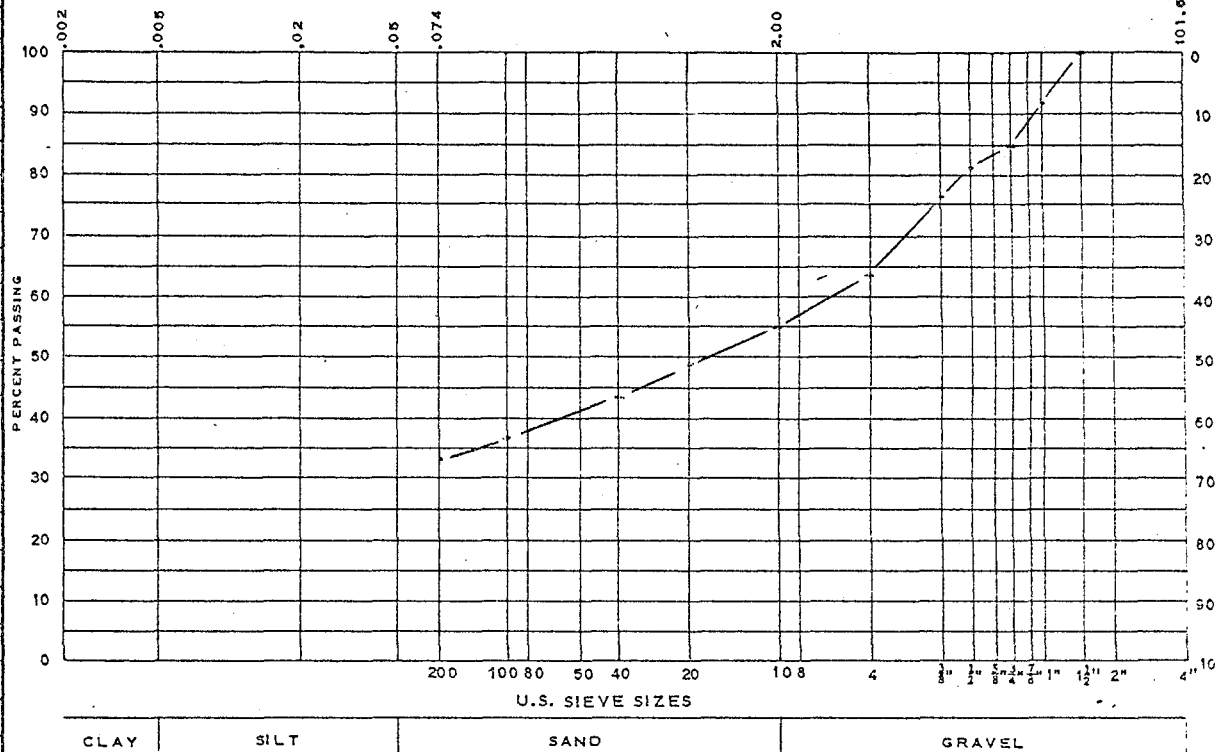
SAMPLE NO.	% PASSING				LIMITS		Public Roads Class.	Sample Depth	Depth (ft.)	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	P.	P.I.					
281									0-2'		ROAD FILL T.H. 559
									2-10'		SILTY SAND SMALL STONES COBBLES
282									0-1'		OVER BURDEN T.H. 560
									1-8'		SILTY SANDY CLAY REFUSAL AT 8'
									0-10'		STRAPPED GRAVEL PIT COBBLES T.H. 561
									0-1'		OVER BURDEN T.H. 562
									1-4'		PROZEN SILTY, BROKEN ROCK REFUSAL AT 4'

% FINER BY WEIGHT	SIZES	SIEVE ANALYSIS	
		% FINER	SIZES
100.0	1/2"	55.2	#10
91.7	1"	19.9	#20
85.0	3/4"	44.1	#40
80.6	1/2"	36.1	#100
75.7	3/8"	32.9	#200
64.2	#4		

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MIG SO. % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-2-A	25.2	19.8	5.4							
		SM-5C										
		SILTY SAND-CLAY MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEARBSTER HIGHWAY CONSTRUCTION  
 LOCATION: STA 325+00  
 HOLE No. .... DEPTH: 2'-10'  
 SAMPLE TYPE ..... DATE SAMPLED: JUN 21/69  
 FIELD SAMPLE No. .... LAB SAMPLE No. 306  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

2/4/70  
DATE EA

MATERIALS ENGINEER'S REMARKS

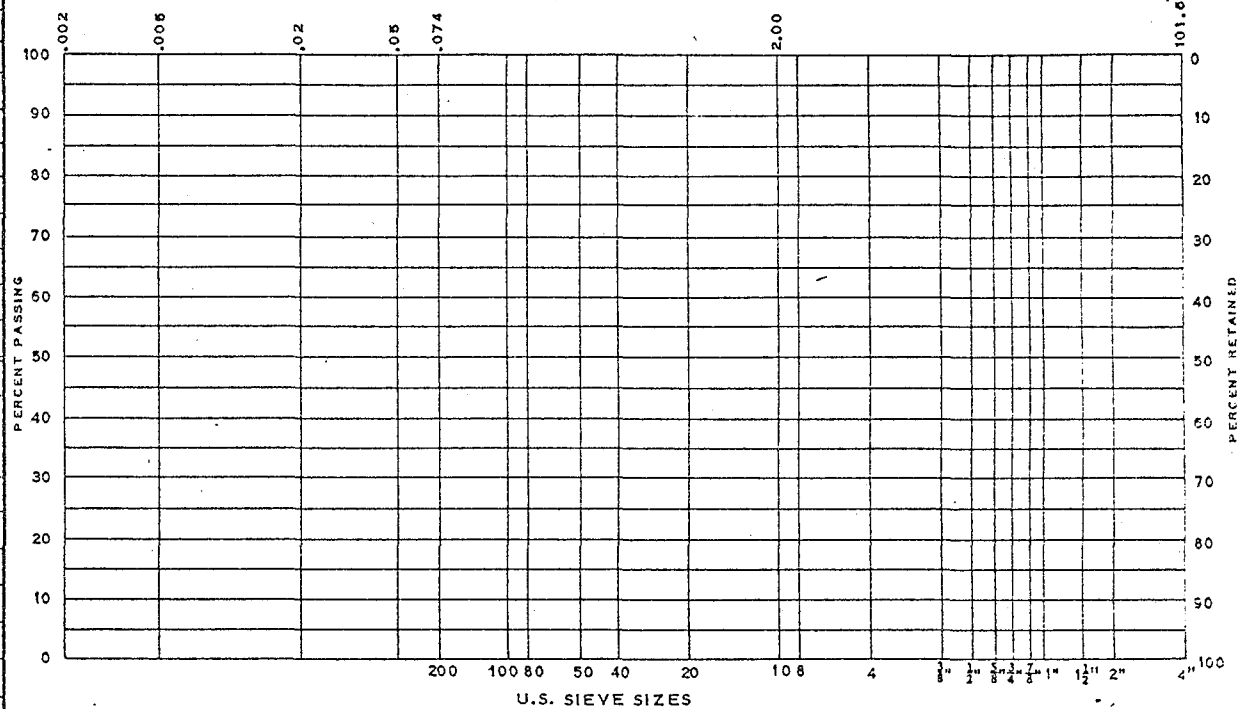
MATERIALS ENGINEER

DATE

FINER BY EIGHT		SIEVE ANALYSIS SAMPLE NUMBER										
> 75% PASSING # 200												
+ 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.G. 304 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	27.0	26.8								
		CL-ML										
		Lo PLASTIC SILT-CLAY MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT..... DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION..... STA: 320+00  
 HOLE No..... DEPTH..... 1'-3'  
 SAMPLE TYPE..... DATE SAMPLED JULY 1968  
 FIELD SAMPLE No..... LAB SAMPLE No. 307  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEWATER TEST HOLE NO. 563, 564, 565, 566  
 LOGGED BY ED MALAN DATE 5/14/49 STATION 305, 300  
 ENTERED BY L. LEAR DATE 5/14/49 295, 290  
 CHECKED BY W. K. ... DATE ... HOLE ADVANCED BY 4" gauge

SAMPLE NO.	%	PASSING			LIMITS		Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
		No. 20	No. 40	No. 100	U.C.	P.L.					
											0-1 SILTY CLAY OVERBURDEN T.H. 563 (M.P. 56)
											1-6' HARD PACK SAND GRAVEL COBBLES REFUSAL AT 6'
											0-4 ROAD FILL T.H. 564 4-7 SANDY GRAVEL REFUSAL AT 7'
											T.H. 565 0-7 SILTY SANDY GRAVEL, COBBLES REFUSAL AT 7'
											T.H. 566 0-2' OVERBURDEN SILTY CLAY 2-6' HARD PACK SANDY GRAVEL, COBBLES REFUSAL AT 6' FROZEN 1-3'

FINER BY EIGHT	SIEVE ANALYSIS		SAMPLE NUMBER	
	SIEVE	% FINER	SIEVE	
100.0	2"	19.9	#10	
87.9	1 1/2"	12.4	#20	
78.3	1"	8.7	#40	
66.2	3/4"	5.5	#100	
52.1	1/2"	4.6	#200	
43.1	3/8"			
30.0	#4			

NOTE: INSUFFICIENT MATERIAL FOR FURTHER TESTING.

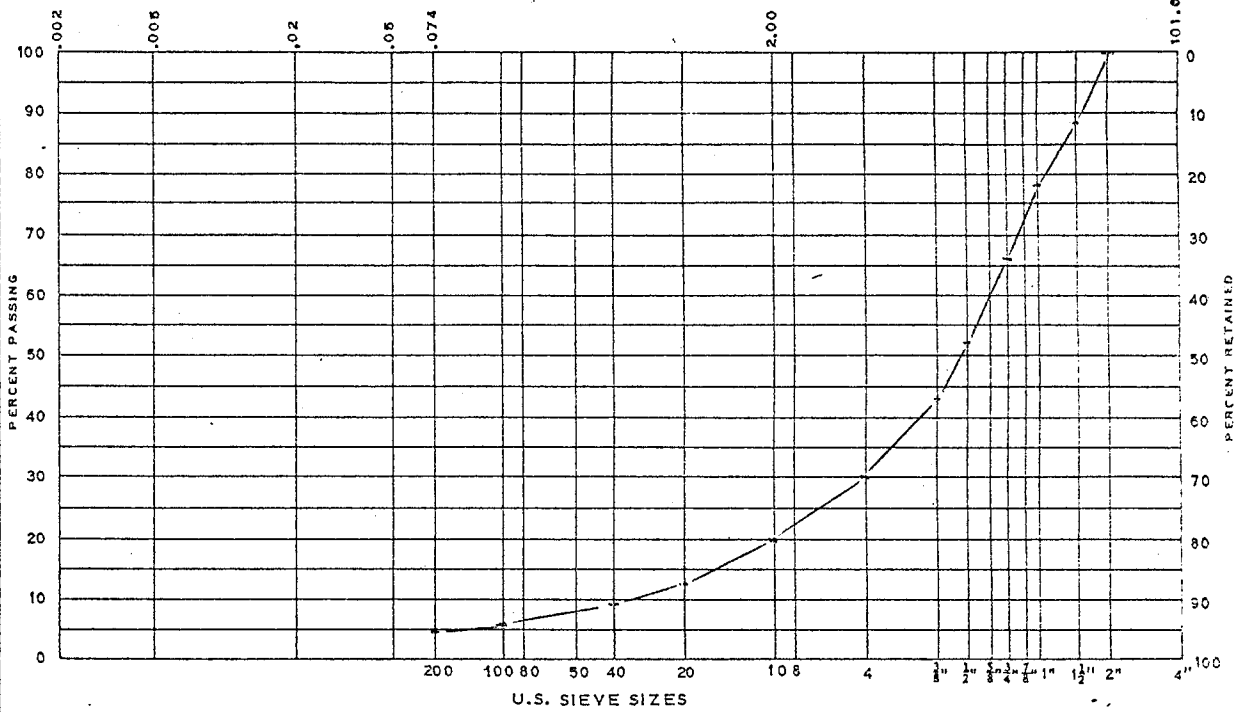
MPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a										
		GW										
		WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE	
ROCK TYPE	%

AGGREGATE GRADING CHART



CLAY      SILT      SAND      GRAVEL

LABORATORY'S REMARKS

PROJECT DUBLIN HIGHWAY CONSTRUCTION  
 LOCATION STA. 295+00  
 HOLE No. \_\_\_\_\_ DEPTH 0-7'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUN 16 69  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 308  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE 6/17/70

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DENPSTER Hwy TEST HOLE NO. 567, 568, 569, 570  
 LOGGED BY ED. MALONE DATE July 19 STATION 285, 290,  
 ENTERED BY W. LEFKEY DATE Aug 4/48 275, 270  
 CHECKED BY A. Kubacki DATE Aug 4/48 HOLE ADVANCED BY 4' 11/2"

SAMPLE NO.	% PASSING		LIMITS		Public Roads Class.	Sample Depth	Depth to Profile	NOTES:
	No. 20	No. 40	No. 100	No. 200				
							5'	0-2' FROZEN OVER BURDEN T.H. 567
							10'	2-9' HARD PACK SANDY GRAVEL, COBBLES
							15'	BORROW P.T. T.H. 568
							15'	0-9' SAND, GRAVEL COBBLES REFUSAL AT 9'
							8'	SILT, clay, BACKBRUSH T.H. 569
284							8'	0-1.5' OVER BURDEN
285							15'	1.5-3' FROZEN BLACK SILTY clay
							15'	3-8' FROZEN BROWN SANDY clay
							7'	0-1' OVER BURDEN T.H. 570
							10'	1-7' FROZEN SANDY clay



DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY. TEST HOLE NO. 571, 572, 573, 574  
 LOGGED BY ED MALANSON DATE JULY 1969 STATION 265, 260,  
 ENTERED BY L. H. PECKEY DATE Aug 19/69 255, 250.  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ HOLE ADVANCED BY \_\_\_\_\_

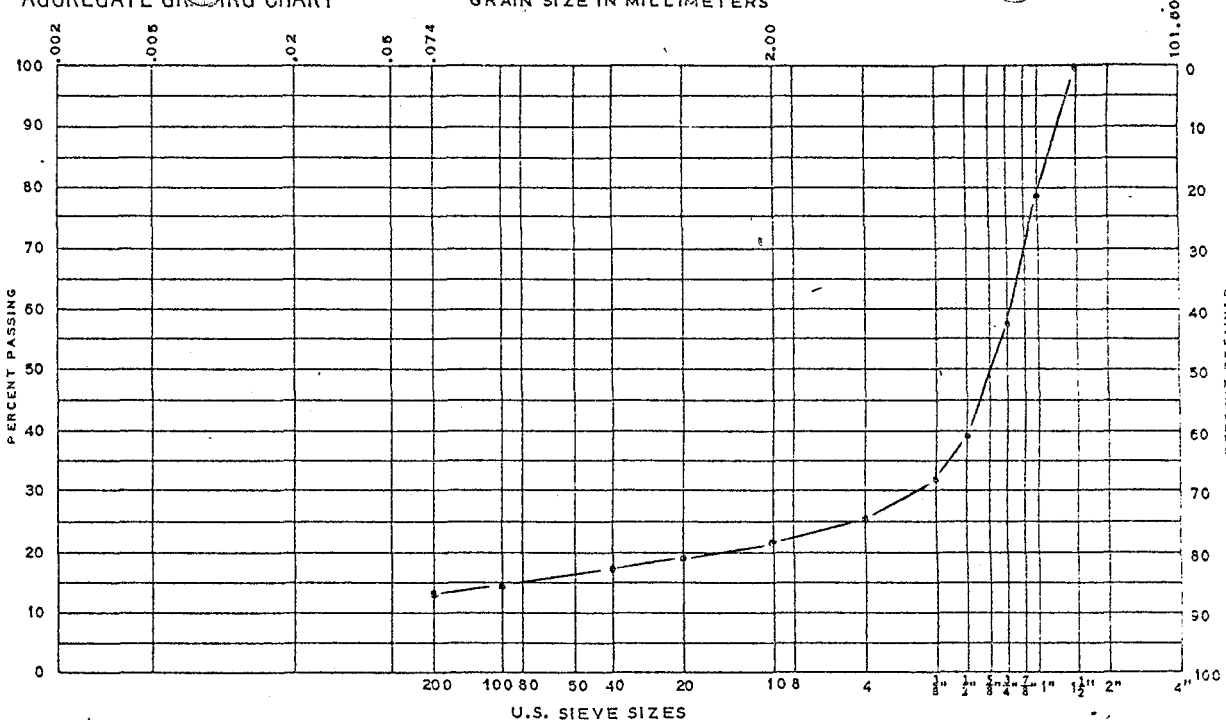
SAMPLE NO.	No. 200	PASSING			LIMITS			Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
		No. 40	No. 10	No. 2	U.C.	P.C.	P.L.					
286									0-1'			OVERBURDEN T.H. 571
									1-6'			SILTY SANDY GRAVEL BOULDERS
												REFUSAL AT 6'
287									0-1'			<u>WET</u> OVERBURDEN T.H. 572
									1-5'			CLAYEY SANDY GRAVEL, COBBLES, BOULDERS
												REFUSAL AT 5'
												M.P. 57 T.H. 573
												BORROW PIT DRY SANDY GRAVEL COBBLES
288									0-2'			ROADFILL T.H. 574
												FROZEN
									2-8'			SILTY SANDY CLAY SMALL STONES

FINER BY EIGHT	SIEVE ANALYSIS		SAMPLE NUMBER
	SIEVE	% Finer	
100.0	1 1/2"	21.7	#10
78.9	1"	19.1	#20
57.5	3/4"	17.0	#40
39.3	1/2"	14.5	#100
31.6	3/8"	13.4	#200
25.4	#4		

NOTE: INSUFFICIENT MATERIAL FOR FURTHER TESTING.

EMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	% M.
		A-1-a										
		GP										
		POORLY-GRADED GRAVEL										

AGGREGATE GRADING CHART



CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DENBESTER Highway Construction  
 LOCATION: Sta 265+00  
 HOLE No. \_\_\_\_\_ DEPTH: 1'-6"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: June 16, 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 311  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE: 6/18/69

MATERIALS ENGINEER'S REMARKS

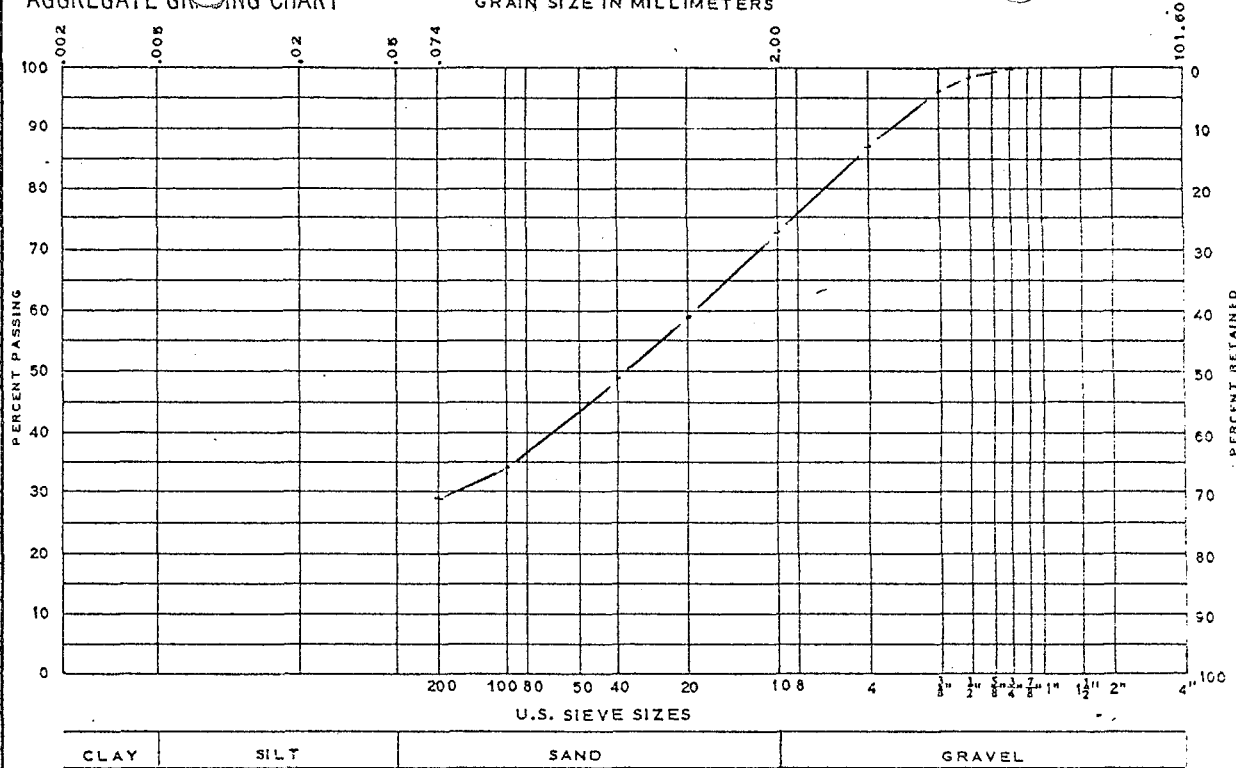
MATERIALS ENGINEER

DATE

FINER BY WEIGHT		SIEVE ANALYSIS	
SIEVE	WEIGHT	FINER	SIEVE
3/4"	100.0	73.1	#10
1/2"	97.7	59.2	#20
3/8"	96.2	48.8	#40
#4	86.7	34.5	#100
		29.3	#200

AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-2-A	23.2	21.3	1.9							
		SM										
		SILTY-SAND										

AGGREGATE GRADING CHART



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 260+00 &

HOLE No. \_\_\_\_\_ DEPTH: 1'-5"

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JUN 5/69

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 312

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

2/4/70  
[Signature]

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

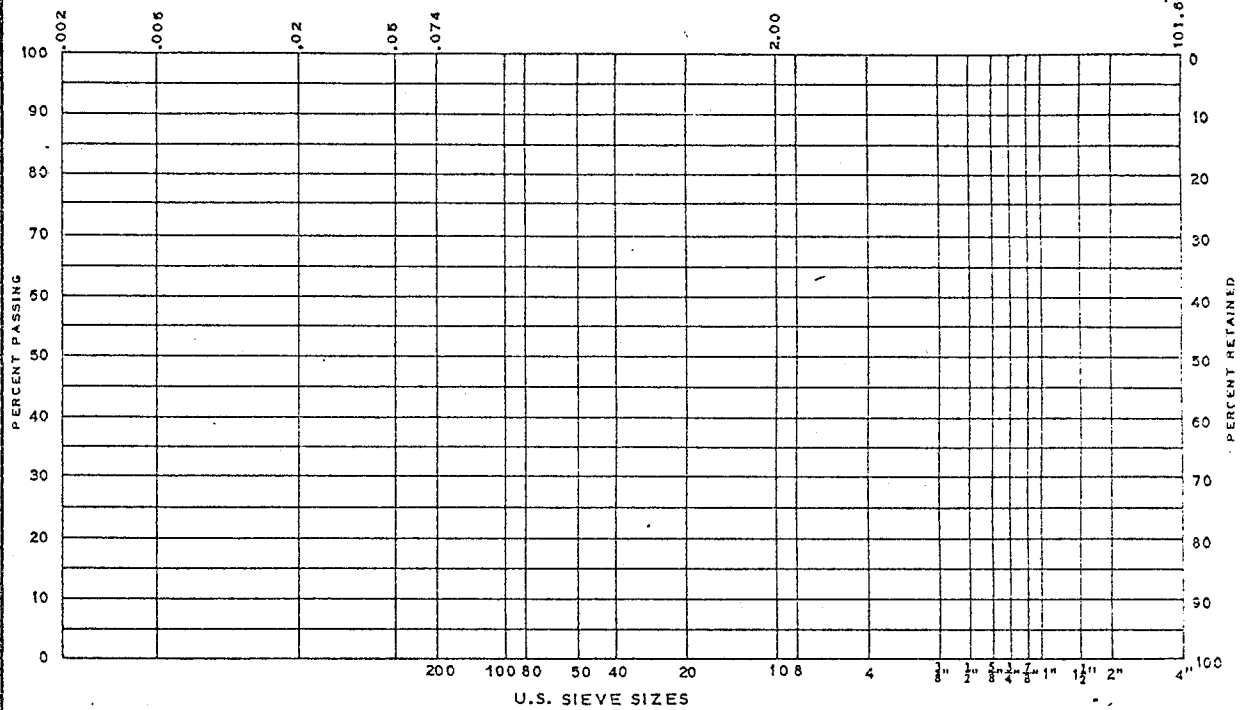
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

SIEVE ANALYSIS												
SAMPLE NUMBER												
FINER BY LIGHT												
> 75% PASSING # 200												
+ 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 504 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	33.7	25	18.6							
ML LO PLASTIC INORGANIC SILT												

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY                      SILT                      SAND                      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE \_\_\_\_\_ %

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION STN: 255+00  
 HOLE No. \_\_\_\_\_ DEPTH 1 1/2' - 8'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JULY 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 300  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

FINE AGGREGATE

ROCK TYPE \_\_\_\_\_ %

MATERIALS ENGINEER'S REMARKS

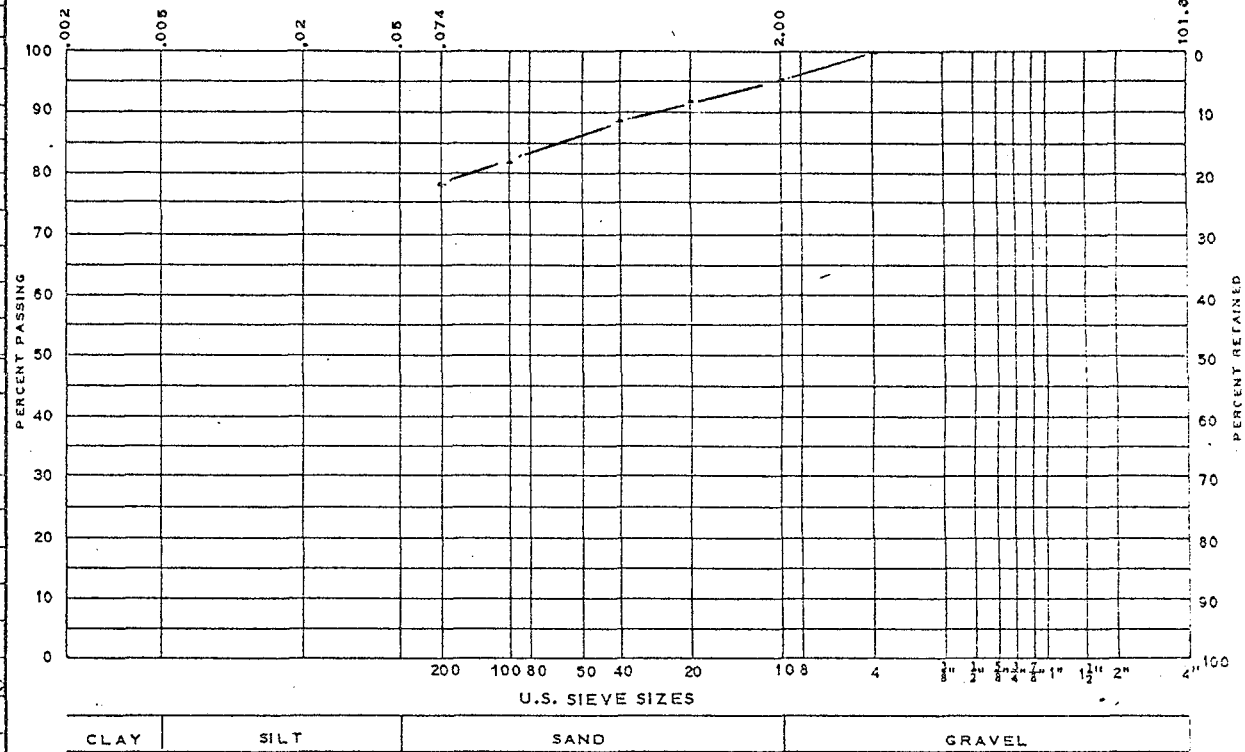
MATERIALS ENGINEER

DATE

FINER BY WEIGHT		SIEVE ANALYSIS SAMPLE NUMBER										
SIEVES												
100.0	#4											
95.3	#10											
91.4	#20											
88.3	#40											
82.2	#100											
78.2	#200											
% + 4"												
AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	29.6	29.25	4							
		ML										
INORGANIC SILT AND FINE SAND												

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT DEARBSTER HIGHWAY CONSTRUCTION  
 LOCATION STA R50+00  
 HOLE No. \_\_\_\_\_ DEPTH 2'-8"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUL 16 1969  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 313  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

2/8/20 PA

MATERIALS ENGINEER'S REMARKS

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMASTER Hwy TEST HOLE NO. 575, 576, 577, 578  
 LOGGED BY ED Malanson DATE July 16/49 STATION 240, 240,  
 ENTERED BY L LEAR DATE Aug 14/49 230, 230.  
 CHECKED BY M. Kulinski DATE Aug HOLE ADVANCED BY 1" Drive

SAMPLE NO.	No. ACC	% PASSING			LIMITS		Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
		No. 40	No. 10	No. 2	P. 1	P. 2					
									2'		0-2' ROAD FILL T.H. 575
									7'		2-7 FROZEN SILTY SANDY CLAY
									10'		
									2'		0-2' OVERBURDEN T.H. 576
									8'		2'-8 FROZEN SILTY SANDY CLAY
									10'		
									3'		0-3' ROAD FILL T.H. 577
									8'		3-8 FROZEN SILTY SANDY CLAY, SMALL STONES
									1'		
											CREEK BED T.H. 578
249									5'		0-5' ROAD FILL
									10'		5'-10 BORROW PIT SANDY GRAVEL COBBLES

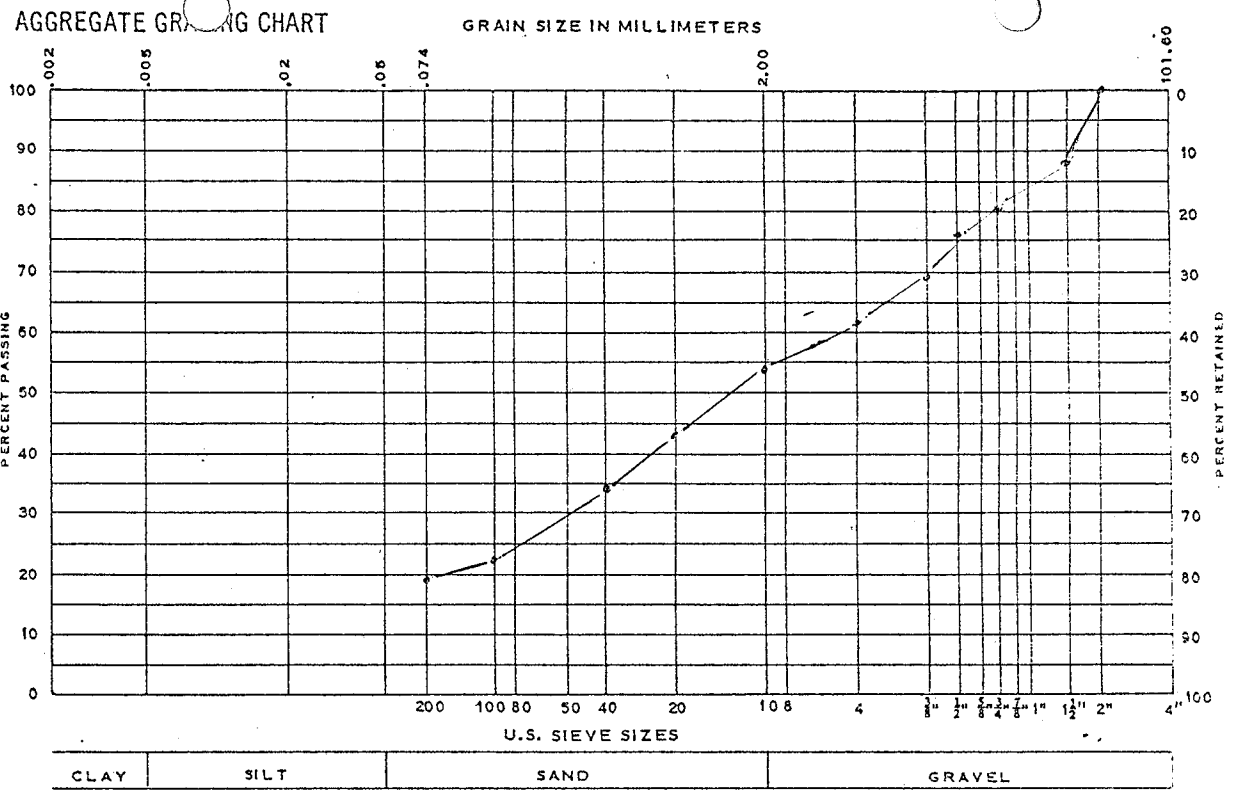
FINER BY EIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
20.0	2	52.7 #10
27.2	1/2	42.9 #20
	1	34.6 #40
30.5	3/4	23.5 #100
35.2	1/2	19.2 #200
69.5	3/2	
62.6	2	
+ 4"		

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	M.G. SOL. % LOSS	BSPG	COLOR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b S.M. SILTY SAND			0.0							

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE	
ROCK TYPE	%



LABORATORY'S REMARKS

PROJECT: DEMPETER HIGHWAY CONSTRUCTION

LOCATION: STA 230+00

HOLE No. \_\_\_\_\_ DEPTH: 5'-10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JULY 1969

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 314

D. P. W. WHITEHORSE - SOILS LAB

MATERIALS ENGINEER'S REMARKS

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
 SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMOSTER HWY TEST HOLE NO. 579 020 TEL 582  
 LOGGED BY ED MALANSON DATE July 1969 STATION 225, 230  
 ENTERED BY W. E. P. Key DATE Aug 14/69 215 210  
 CHECKED BY J. K. Kubiak DATE Aug HOLE ADVANCED BY 4" Aug 69

SAMPLE NO.	No. 200	PASSING			LIMITS		Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
		No. 40	No. 60	No. 100	P. 1	P. 2					
								2			0-2 ROAD FILL T.H. 579
								7			2-7' FROZEN SILTY SANDY CLAY SMALL STONES REFUSAL AT <u>7'</u>
								10			
								2			0-2 ROAD FILL T.H. 580
								6			2-6' FROZEN SILTY SAND, CLAY SMALL STONES REFUSAL AT <u>6'</u>
								10			
								1.5			0-1.5' ROAD FILL T.H. 581
								7			1.5-7' FROZEN SILT, SAND, CLAY, SMALL STONES
								10			
								2			0-2 ROAD FILL T.H. 582
								3			2-3' FROZEN ORGANIC 3-8' SILT, SAND, CLAY SMALL STONES
								10			

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DENPSTER Hwy TEST HOLE NO. 583 584 585 586  
 LOGGED BY ED Wilson DATE July 1959 STATION 205, 200  
 ENTERED BY L. E. Drey DATE Aug 14 1959 195, 190  
 CHECKED BY Ch. Kubiak DATE Aug HOLE ADVANCED BY 4" auger

SAMPLE NO.	No. 200	PASSING LIMITS				F. 1	P. 1	Public Roads Class.	Sample Depth	Depth Ft.	Profile	NOTES:
		No. 10	No. 4	No. 2	No. 1							
									0-2'		MP 58	T.H. 583
									2-3'		FROZEN ORGANIC	
									3-9'		SILT, SAND, CLAY, STONES	
									0-2'		ROAD FILL	T.H. 584
									2-6'		FROZEN SILT, SAND, CLAY	
									0-1.5'		ROAD FILL	T.H. 585
									1.5-5'		FROZEN SILT, SAND, CLAY	
									0-1.5'			T.H. 286
									1.5-7'		FROZEN SILT SAND CLAY	

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMISTEE Hwy TEST HOLE NO. 527 528 529 530  
 LOGGED BY Ed Johnson DATE July 29 STATION 185 180  
 ENTERED BY LEP Key DATE Aug 14/29 175 170  
 CHECKED BY H. Salts DATE Aug 14 HOLE ADVANCED BY 4 in.

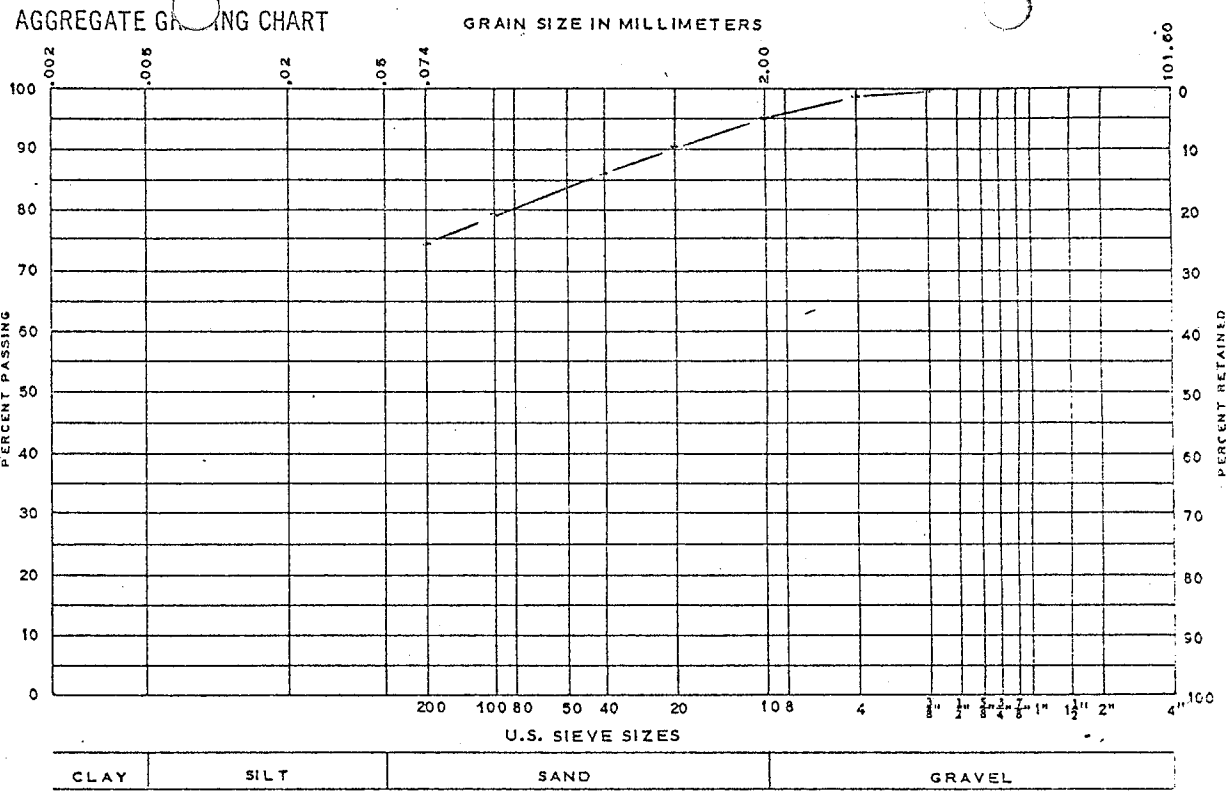
SAMPLE NO.	PASSING LIMITS							Public Roads Class.	Sample Depth	Depth in Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	No. 2	No. 1	No. 0.75				
									0-1.5	0-1.5 ROAD FILL T.H. 527 185	
									1.5-6	1.5-6' FROZEN SILT, SAND CLAY	
									0-2	0-2' ROAD FILL T.H. 528 170	
									2-7	2-7' FROZEN SILT SAND CLAY	
									0-2.5	0-2.5 ROAD FILL T.H. 529 175	
									2.5-8	2.5-8' FROZEN SILT, SAND CLAY, SMALL STONES	
									0-3	0-3' ROAD FILL T.H. 530 170	
									3-8	3-8' FROZEN SILTY CLAY SOME SAND & SMALL STONES	

FINER BY EIGHT		SIEVE ANALYSIS							
		SAMPLE NUMBER							
100.0	#38								
98.1	#4								
95.2	#10								
90.2	#20								
86.1	#40								
78.6	#100								
74.2	#200								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A.	MAG 504	85pc	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
						% LOSS	% LOSS					
		A-A	35.2	27.0	8.2							
		ML										
INORGANIC SILT AND FINE SAND												

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE	
ROCK TYPE	%



LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA. 170+00

HOLE No. \_\_\_\_\_ DEPTH 3'-8"

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUN 1/69

FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 3/5

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE 3/4/70

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT Dempster House TEST HOLE NO. 591 592 593 594  
 LOGGED BY ED Malanson DATE July 16/69 STATION 155, 160,  
 ENTERED BY L. Lepke DATE 4-14/69 155, 150,  
 CHECKED BY J. K. Kish DATE July HOLE ADVANCED BY 4 August

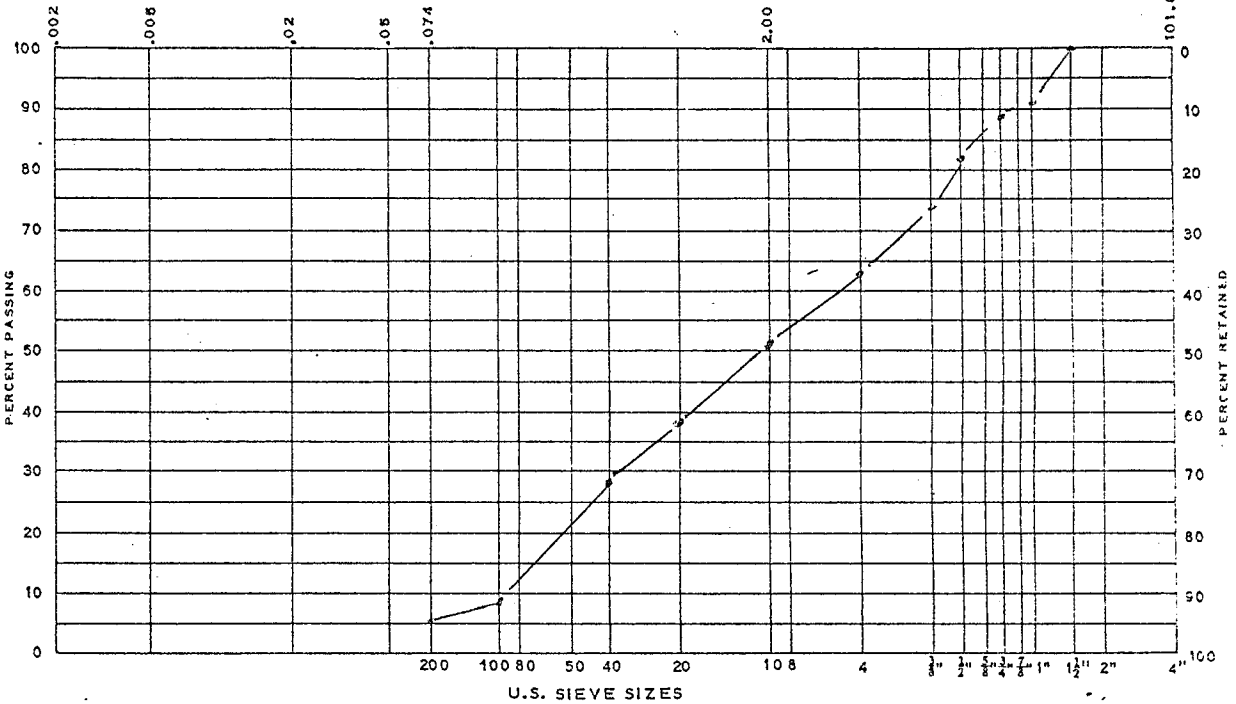
SAMPLE NO.	% PASSING LIMITS				P.L.	P.L.	P.L.	P.L.	Sample Depth	Depth in Profile	NOTES:
	No. 200	No. 10	No. 4	No. 2							
											0-1.5' OVERBURDEN T.H. 591 1.5-9' FROZEN silty clay SOME SAND + SMALL STONES
291											0-1' OVERBURDEN T.H. 592 1-9' FROZEN PERMAFROST ORGANIC
											0-1.5' OVERBURDEN T.H. 593 1.5-8' FROZEN PERMAFROST ORGANIC
292											0-1' OVERBURDEN T.H. 594 1-10' SANDY GRAVEL



FINER BY EIGHT	SIEVE ANALYSIS	
	SIEVE	% FINER
210	#10	50.2
91.0	#20	38.0
89.6	#40	26.3
81.8	#100	8.1
79.5	#200	5.1
63.5	#4	

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

MPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. & LOSS	MG SO <sub>4</sub> & LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-B			0.0							
		SW-SM										
		WELL GRADDED SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE	
ROCK TYPE	%

FINE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION  
 LOCATION STA: 150+00  
 HOLE No. \_\_\_\_\_ DEPTH 1'-10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JULY 1968  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 317  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMOLITION Hwy TEST HOLE NO. 595, 596, 597, 598  
 LOGGED BY ER Melanson DATE July 1969 STATION 145, 140  
 ENTERED BY L. Ledoux DATE Aug 14/69 135, 130  
 CHECKED BY J. Kubiak DATE Aug 69 HOLE ADVANCED BY 4' Austin

SAMPLE NO.	No. 200	PASSING LIMITS			P.L.	P.L.	Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
		No. 40	No. 10	No. 5							
								0-2'		0-2' ROAD FILL	T.H. 595
								2-3		OVERBURDEN	
								3-10		FROZEN SILTY SANDY CLAY & SMALL STONES	
								0-2'		ROAD FILL	T.H. 596
								2-3		OVERBURDEN	
								3-8		FROZEN SILT, SANDY CLAY, SMALL STONES	
294								0-2.5		ROAD FILL	T.H. 597
								2.5-3.5		OVERBURDEN	
								3.5-10		SILTY SAND SMALL STONES	
								0-5'		ROAD FILL	T.H. 598
								5-10		SILTY SAND SMALL STONES	

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

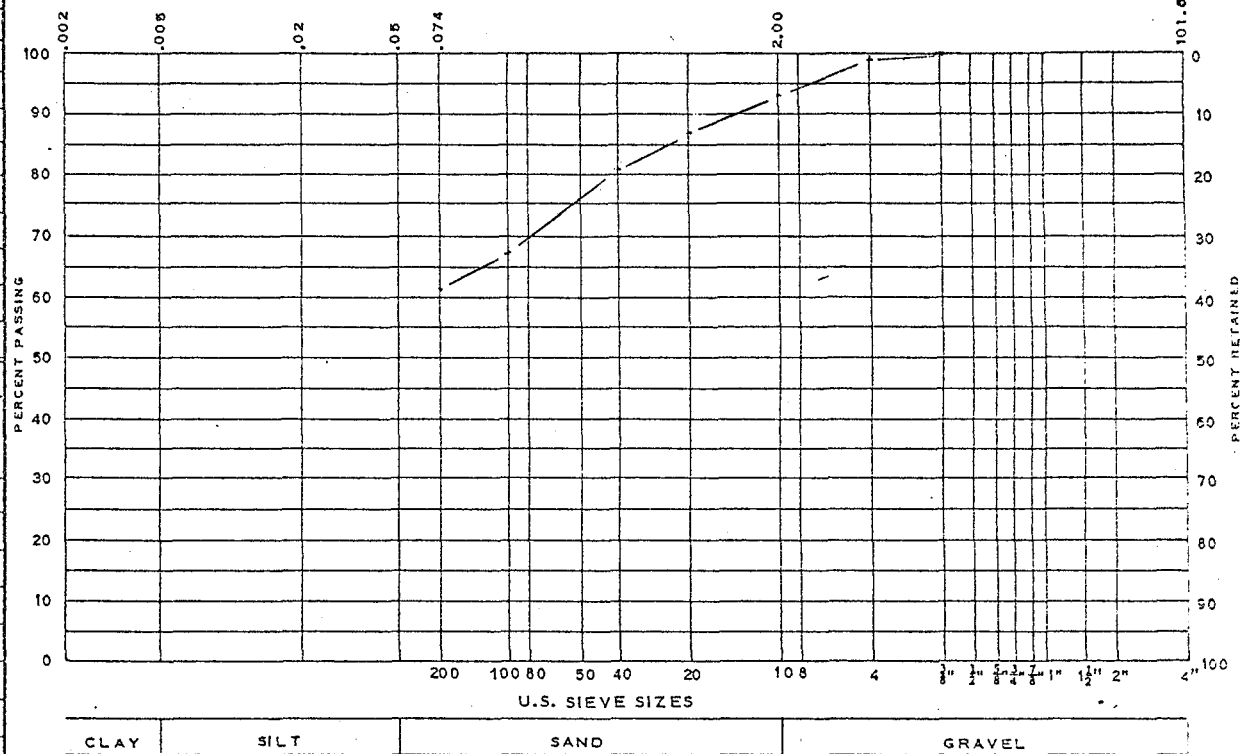
% FINER BY WEIGHT		SIEVE ANALYSIS									
		SAMPLE NUMBER									
SIEVE											
100.0	#8										
99.0	#4										
93.6	#10										
87.3	#20										
80.9	#40										
67.5	#100										
61.1	#200										
% + 4"											

AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	21.9	19.1	5.8							
		M L										
INORGANIC SILT AND FINE SAND												

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMONSTRATOR HIGHWAY CONSTRUCTION  
 LOCATION STA. 145700  
 HOLE No. \_\_\_\_\_ DEPTH 3'-10"  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JULY 69  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 318  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE

3/4/70

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DENPSTER HWY TEST HOLE NO. 599, 600, 601, 602  
 LOGGED BY ED MALANSON DATE July 10 STATION 125, 120,  
 ENTERED BY L LEPKEY DATE Aug 14/69 115, 110  
 CHECKED BY J. Kubiak DATE Aug HOLE ADVANCED BY 4" Auger

SAMPLE NO.	No. 200	PASSING				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
		No. 40	No. 10	No. 2	No. 1	U.C.S.	L.C.S.	P.L.					
										0-6'		0-6' ROAD FILL T.H. 599	
										6-10'		6-10' SILTY SAND SMALL STONES	
										0-4'		0-4 ROAD FILL T.H. 600	
										4-10'		4-10' SILTY SAND SMALL STONES	
										0-5'		0-5 ROAD FILL T.H. 601	
										5-10'		5-10 SILTY SAND SMALL STONES	
										0-6'		0-6' ROAD FILL T.H. 602	
										6-10'		6-10' SILTY SAND SMALL STONES	

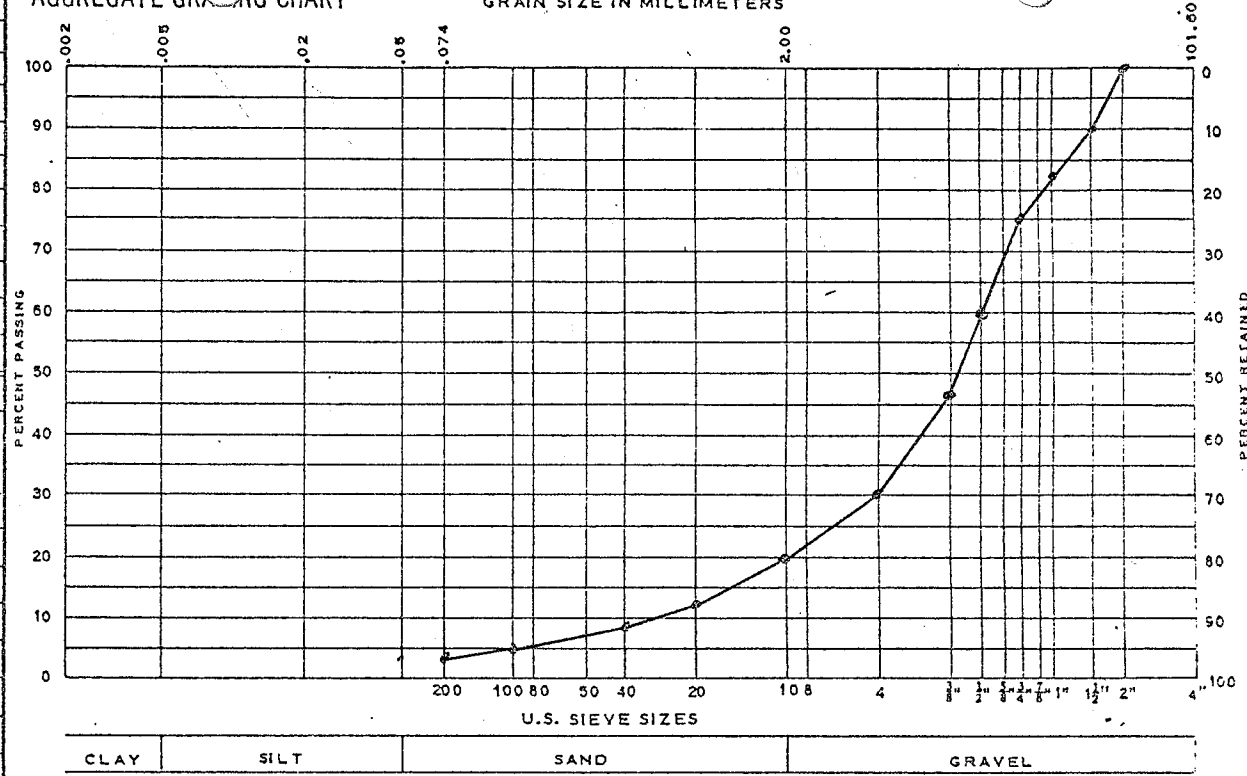
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER Hwy TEST HOLE NO. 603 604  
 LOGGED BY ED Malouss DATE July 11/19 STATION 105, 100  
 ENTERED BY LEP DATE July 14/19  
 CHECKED BY A. L. White DATE Aug HOLE ADVANCED BY 4" (100)

SAMPLE NO.	No. 200 %	PASSING			LIMITS		Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
		No. 40	No. 10	No. 2	P. U.	P. L.					
											0-7' ROAD FILL T.H. _____ 105
								7			7-12' SANDY GRAVEL WATER AT 8'
								10			
								12			
											0-4' ROAD FILL T.H. _____ 100
295								4			4-5' OVER BURDEN 5-10' SILTY SANDY CLAY, SOME STONES <u>VERY WET</u>
								5			
								10			
											T.H. _____
								10			T.H. _____

FINER BY SIEVE	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
7"	100	# 4 30.7
1/2"	89.7	# 10 20.2
"	82.7	# 20 12.7
4"	75.2	# 40 9.2
1/2"	60.6	# 100 4.7
3/4"	46.8	# 200 3.5

AGGREGATE GRADING CHART



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ASSORB.	F.M.
		A-1-a			0.0							
		G.W.										
		WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 100  
 HOLE No. \_\_\_\_\_ DEPTH 5' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 295 LAB SAMPLE No. 1005  
 D. P. W. WHITEHORSE - SOILS LAB D. W.

TESTING ENGINEER \_\_\_\_\_ DATE 29-3-71

MATERIALS ENGINEER'S REMARKS

DEMPSTER HIGHWAY

AGGREGATE DEPOSIT REPORTS

STA. 5625+00 - 5840+00

MILE . 60 - 64.5



DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 605-606-607-608  
 LOGGED BY Ed Melanson DATE July/69 STATION 5605-5610  
 ENTERED BY T. Cairns DATE Aug. 13/69 5615-5620  
 CHECKED BY C. K. [unclear] DATE Aug 19/69 HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:
	No. 200	No. 40	No. 10					
						5	Road Fill	T.H. 605
296						10	Sandy Gravel & Large Cobbles	
						4	Road Fill	T.H. 606
						10	sandy Gravel Large Cobbles	
						5	Road Fill	T.H. 607
						10	Sandy Gravel Large Cobbles	
						4	Road Fill	T.H. 608
						10	Sandy Gravel Large Cobbles	



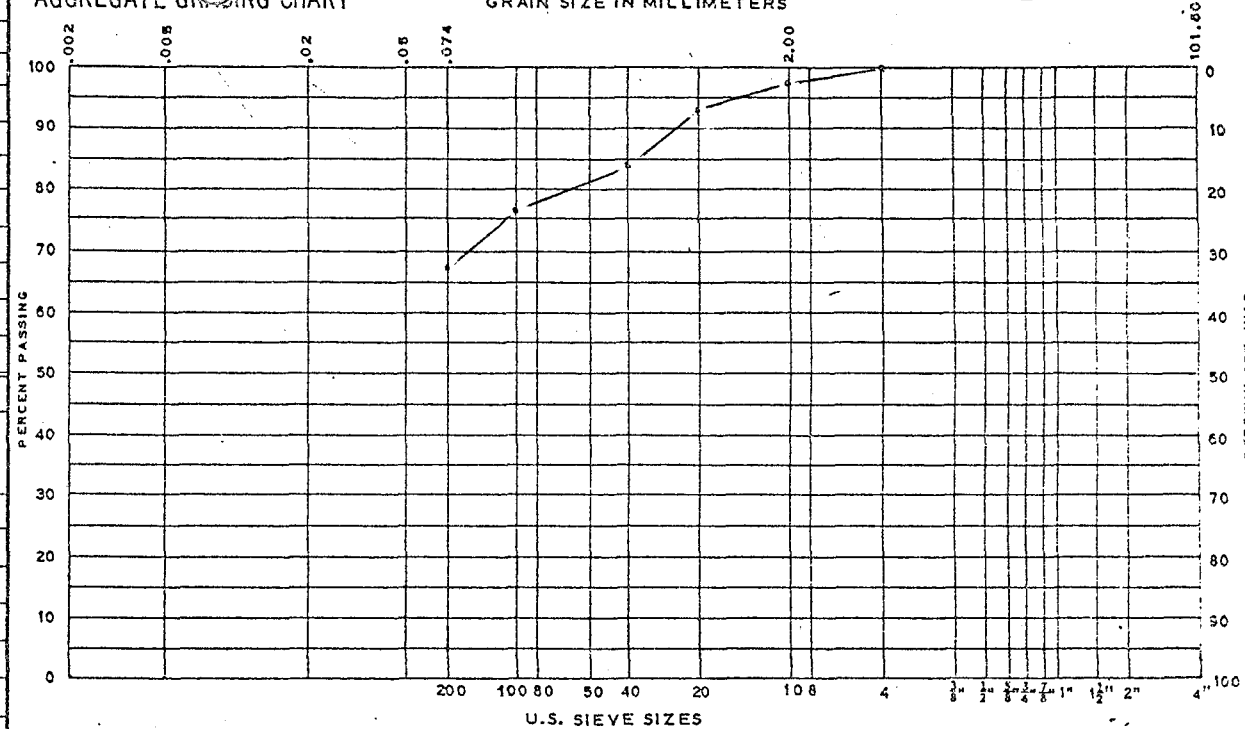
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

FINER BY EIGHT		SIEVE ANALYSIS SAMPLE NUMBER									
100	#14										
97.1	10										
92.8	20										
84.7	40										
78.9	100										
57.0	200										
<p>CLASSIFICATION: <b>A-4 M.L. SANDY SILT</b></p>											

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY	SILT	SAND	GRAVEL
------	------	------	--------

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE

%

FINE AGGREGATE

ROCK TYPE

%

LABORATORY'S REMARKS

PROJECT.....  
 LOCATION DEWSTER AL-WAY STA. 5625  
 HOLE No. .... DEPTH 4'-10'  
 SAMPLE TYPE..... DATE SAMPLED JULY '69  
 FIELD SAMPLE No. 297 LAB SAMPLE No. 1007  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

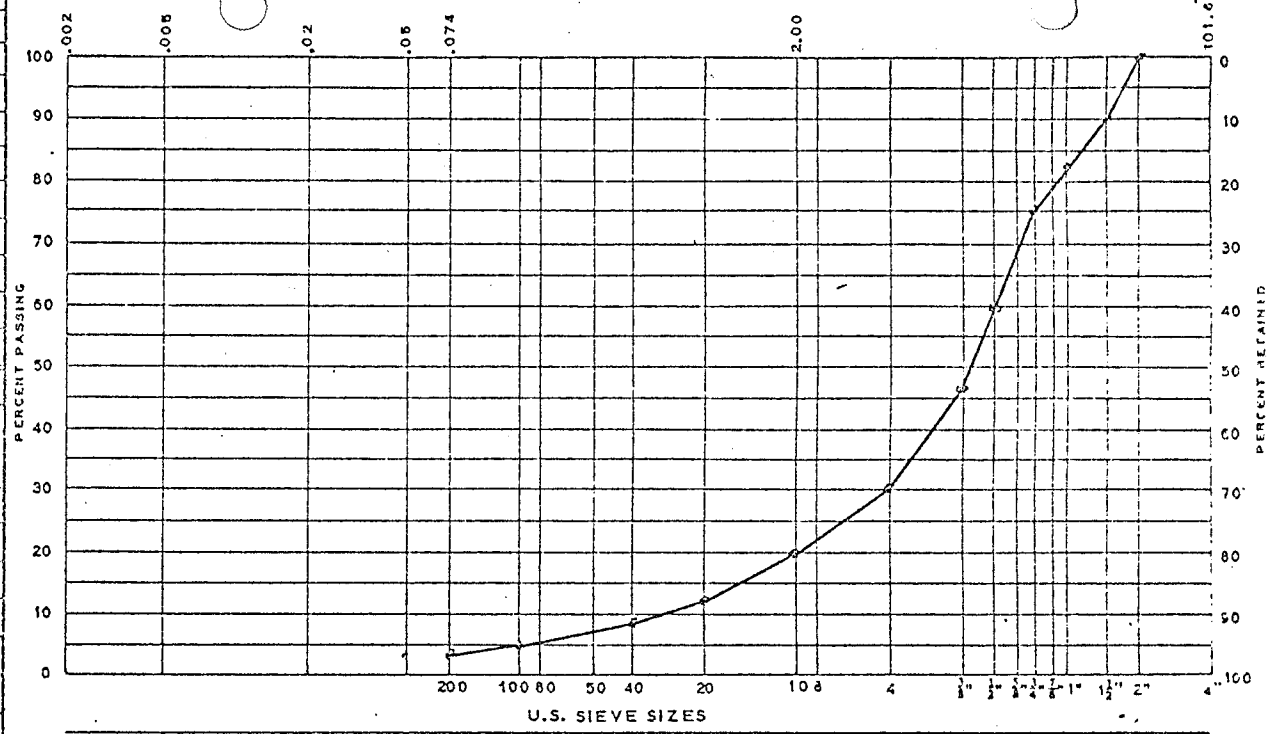
SIEVE ANALYSIS

SAMPLE NUMBER

CR	IT	PERCENT	SIEVE	PERCENT
	100	# 4	30.7	
	99.7	# 10	20.2	
	92.7	# 20	12.7	
	75.2	# 40	9.2	
	60.6	# 100	4.7	
	46.8	# 200	3.5	

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY	SILT	SAND	GRAVEL
------	------	------	--------

ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 504 % LOSS	DSAC	COLOUR	% WATER ABSORB.	% ASPHALT. ABSORB.	F.M.
	A-1-U			0.0							
	G.W.										
	WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 5640  
 HOLE No. \_\_\_\_\_ DEPTH 4' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 298 LAB SAMPLE No. 1008  
 D. P. W. WHITEHORSE - SOILS LAB J. M.

TESTING ENGINEER \_\_\_\_\_ DATE 29-3-71

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DAMPSTER HWY TEST HOLE NO. 613-614-615-616  
 LOGGED BY Ed Melanson DATE July 16/69 STATION 5645-5650  
 ENTERED BY J. Cairns DATE Aug 13/69 5655-5660  
 CHECKED BY M. Mahabadi DATE Aug HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	L.L	P.L	P.L						
										4		Road Fill	T.H. 613
										5		Overburden	
										10		Silty Sandy Gravel Some Cobbles	
										3		Road Fill	T.H. 614
299										4		Overburden	
										8		Sandy Clay, Some Pebbles Large Cobbles	
										10		↑ Refusal	
										2		Road Fill	T.H. 615
										3		Overburden	
300												Frozen Silty Clay	
										10			
										3		Road Fill	T.H. 616
										5		Overburden	
												Frozen Silty Clay	
										10			

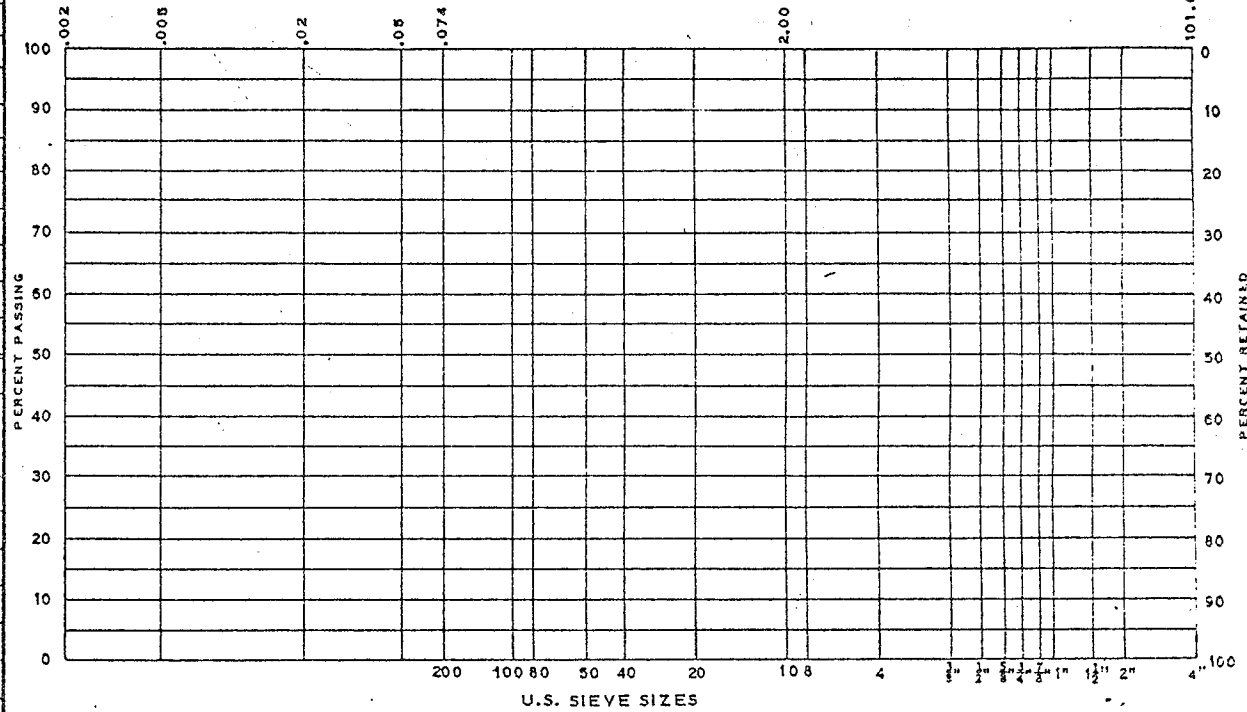


SIEVE ANALYSIS										
SAMPLE NUMBER										
FINER BY LIGHT										
98.5% PASSING #200 SIEVE										
+ 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO. % LOSS	BSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-7-5	55.4	39.5	15.9							
		CLAYEY SILT OF MED TO HIGH PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY

LOCATION: STA. 5655

HOLE No. \_\_\_\_\_ DEPTH: 3' to 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JULY 6, 71

FIELD SAMPLE No. 300 LAB SAMPLE No. 1010

D. P. W. WHITEHORSE - SOILS LAB D.W.

26-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

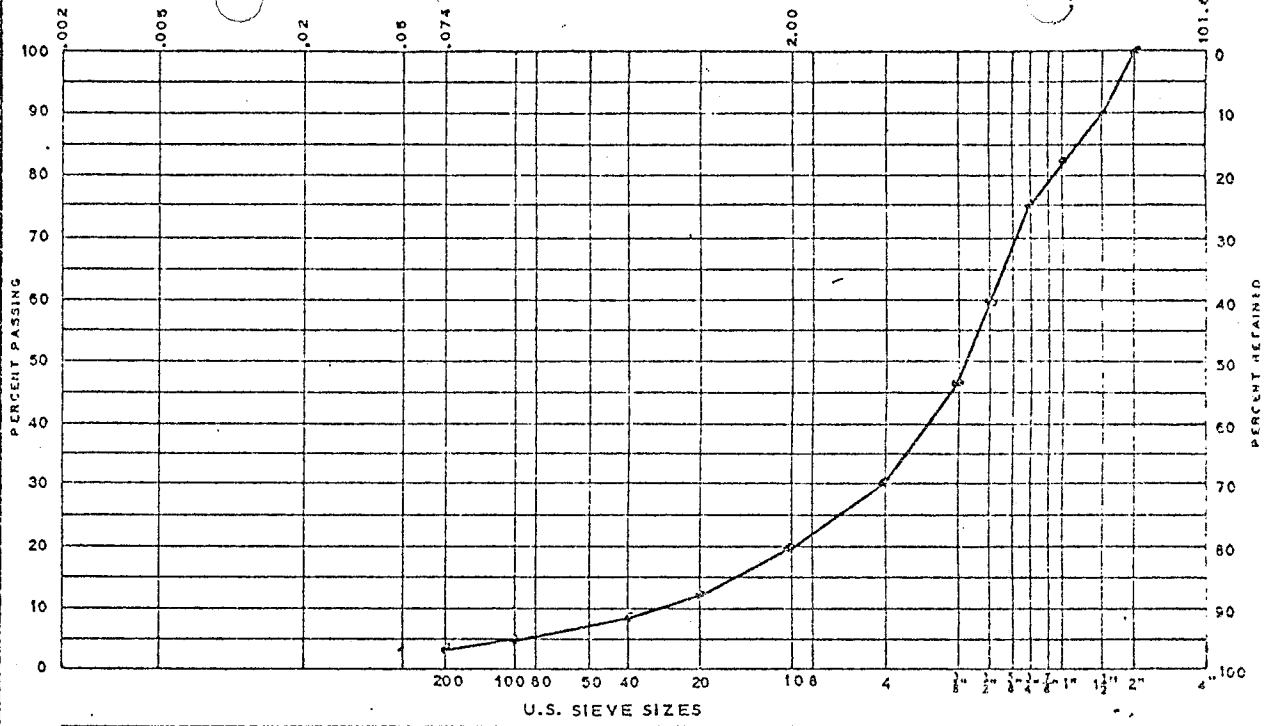
SIEVE ANALYSIS

SAMPLE NUMBER

HT	WT	#	WT
1	100	# 4	30.7
2	99.7	# 10	20.2
"	92.7	# 20	12.7
"	75.2	# 40	9.2
"	60.6	# 100	4.7
"	46.8	# 200	3.5

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSHC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
	A-1-U			0.0							
	G.W.										
	WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 5655  
 HOLE No. \_\_\_\_\_ DEPTH 3' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 300 LAB SAMPLE No. 1011  
 D. P. W. WHITEHORSE - SOILS LAB D. W.

TESTING ENGINEER \_\_\_\_\_ DATE 29-3-71

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

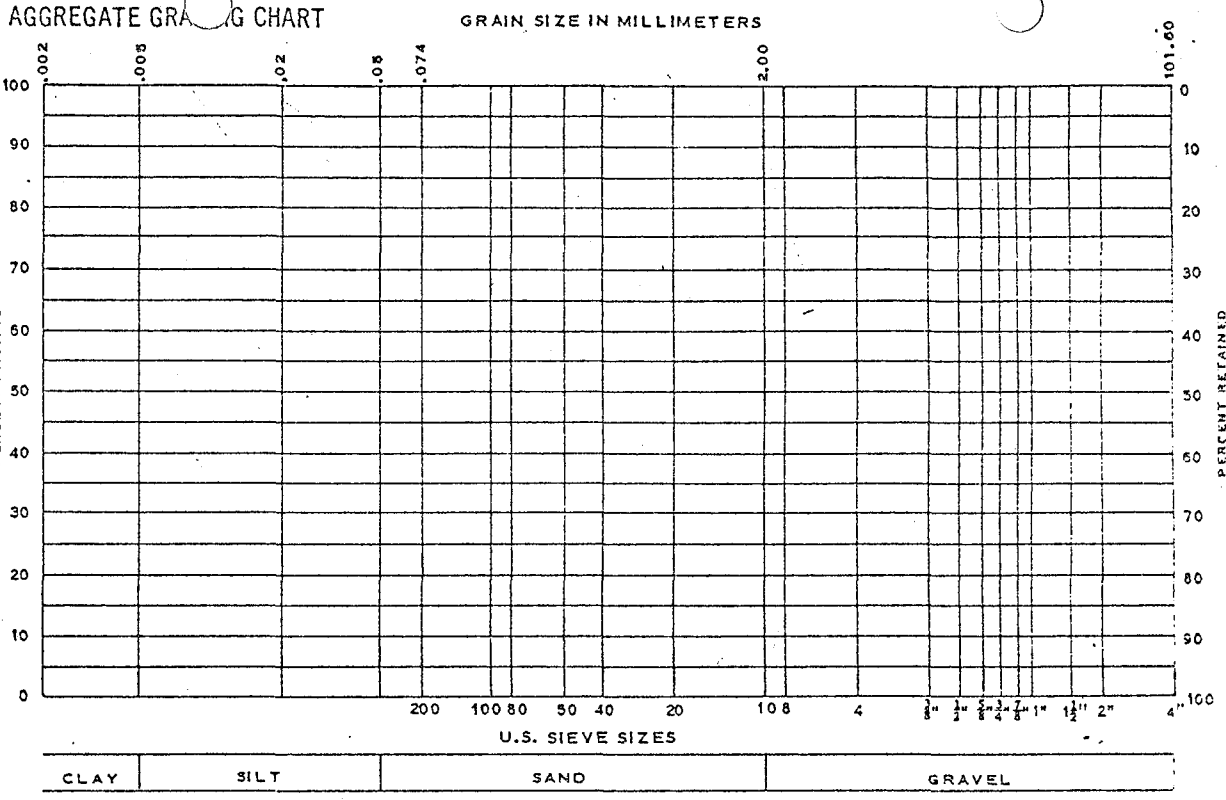


DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER Hwy TEST HOLE NO. 621-622-623-624  
 LOGGED BY Ed Melanson DATE July/69 STATION 5685 - 5690  
 ENTERED BY J. Cairns DATE Aug 13/69 5695 - 5700  
 CHECKED BY M. K. [unclear] DATE [unclear] HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING				LIMITS			Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L	P.L	P.L					
												T.H. <u>621</u>
										8		Road Fill
										10		Silty Gravel
										15		& some cobbles
												T.H. <u>622</u>
												Road Fill
										10		Silty Gravel
										20		Some cobbles
												T.H. <u>623</u>
												Road Fill
										10		Silty Gravel
										20		Some cobbles
										2		Road Fill
										3		Overburden
302												Silty Sandy Clay
										10		

SIEVE ANALYSIS	SAMPLE NUMBER											
	NO.	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT		
78.1% PASSING #200 SIEVE												
+ 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	S.P.G.	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 M.L.			0.0							
SILT - FINE SAND MIXTURE												



TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT..... DEMPSTER HIGHWAY

LOCATION..... STA. 5700

HOLE No..... DEPTH..... 3' to 10'

SAMPLE TYPE..... DATE SAMPLED..... JUNE 69

FIELD SAMPLE No..... 303..... LAB SAMPLE No..... 1012

D. P. W. WHITEHORSE - SOILS LAB J.W.

29-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

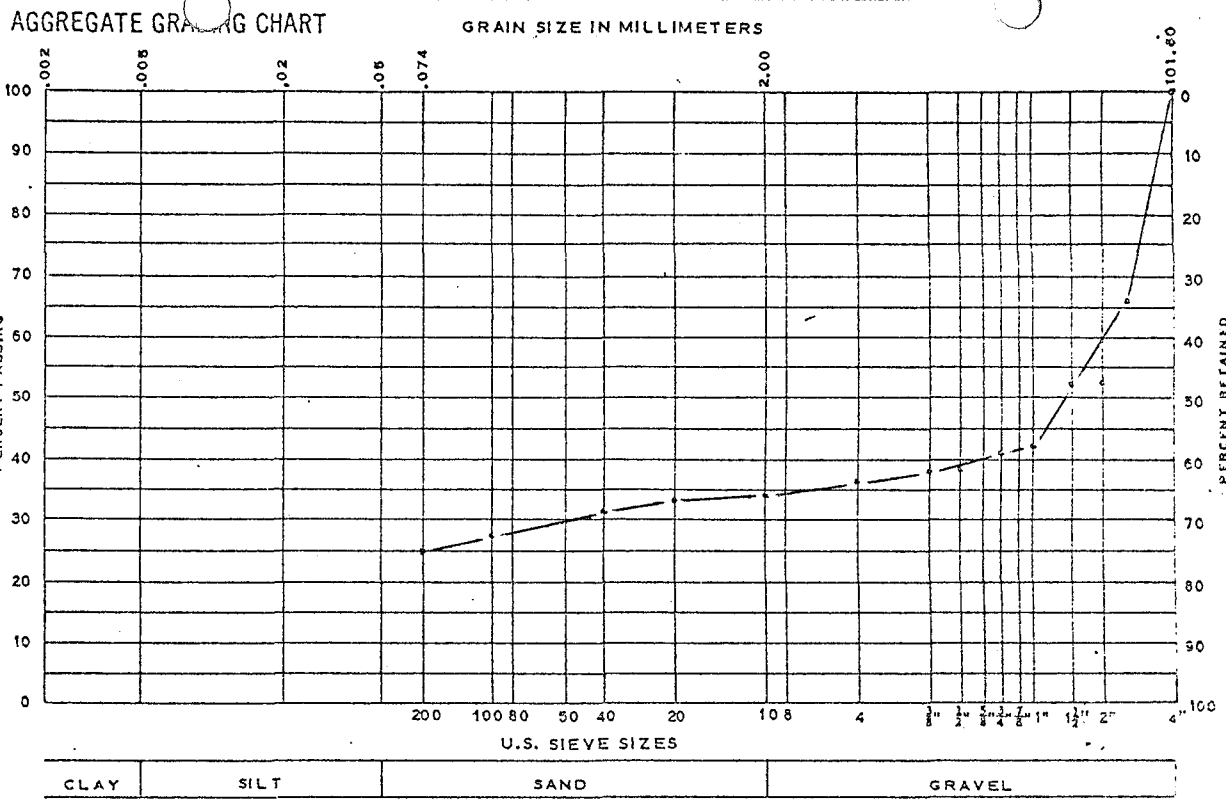
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER Hwy TEST HOLE NO. 625-626-627-628  
 LOGGED BY Ed Melanson DATE July 1969 STATION 5705 - 5710  
 ENTERED BY J. Cairns DATE Aug 13/69 5715 - 5720  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L	P.L	P.L					
										3		Road Fill <span style="float:right">T.H 625</span>
303										10		Silty Sandy Gravel Some Cobbles
										2		Road Fill <span style="float:right">T.H 626</span>
										10		Silty Sandy Gravel Some Cobbles
										3		Road Fill <span style="float:right">T.H 627</span>
										10		Silty Sandy Gravel Some Cobbles
										2		Road Fill <span style="float:right">T.H 628</span>
										4		Overburden
304										10		Frozen Silty Clay Dark Brown

FINER BY SIEVE		SIEVE ANALYSIS	
		SAMPLE NUMBER	
75.0	4"	34.6	7 1/2
55.5	3	32.9	20
2.4	2	31.1	40
52.4	1 1/2	27.1	100
2.1	1	24.8	200
0.7	3/4		
3.6	1/2		
8.0	3/8		
26.2	2 1/4		

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO <sub>4</sub> % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b			0.0							
		G.P.										
		POOR TO FAIR GRADED GRAVEL										



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMETER HI-WAY.

LOCATION STA. 5705

HOLE No. \_\_\_\_\_ DEPTH 4' to 10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JULY 69

FIELD S. M. LE No. 304 LAB SAMPLE No. 1013-419

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER [Signature] DATE 25-3-71

FINE AGGREGATE

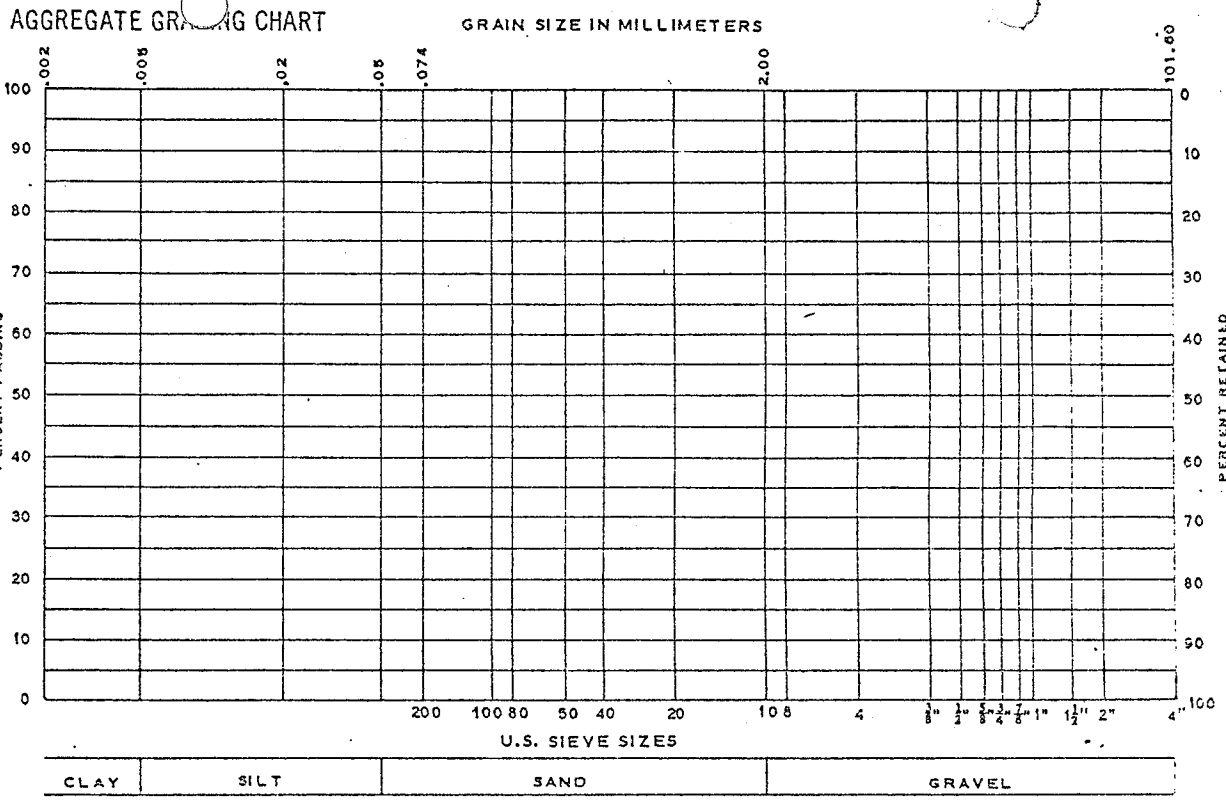
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

1013-4'10' - STA. 5705 SAMPLE # 304.

1019-1'8' - 5700 - # 309

FINER BY SIEVE ANALYSIS		SAMPLE NUMBER										
WGT	HT											
ORGANIC MATERIAL												
+ 4"												
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		ORGANIC										



TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMISTER HIGHWAY

LOCATION STA. 5720

HOLE NO. \_\_\_\_\_ DEPTH 4'-10'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JULY '67

FIELD SAMPLE No. 304A LAB SAMPLE No. 1014

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER [Signature] DATE 25-3-77

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

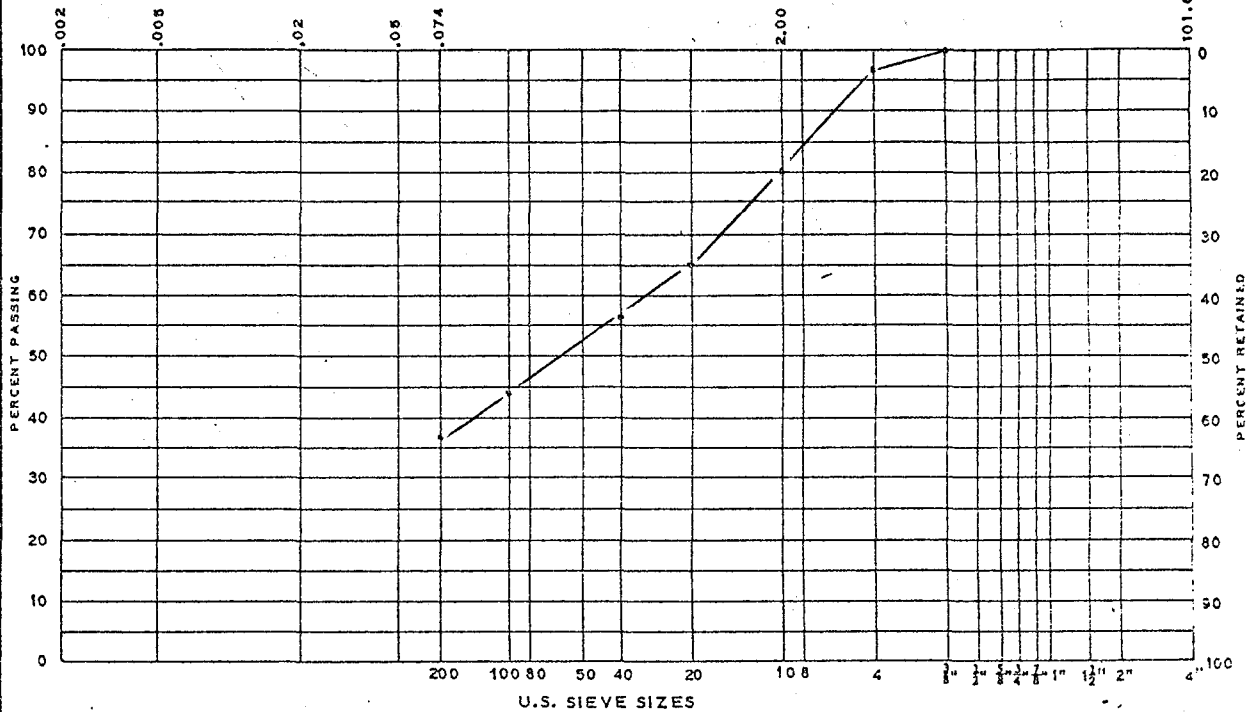
PROJECT DEMPSTER HWY TEST HOLE NO. 629-630-631-632  
 LOGGED BY Ed Melanson DATE July 16/69 STATION 5725 - 5730  
 ENTERED BY T. Cairns DATE Aug 13/69 5735 - 5740  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Ruger Mdsite

SAMPLE NO.	% PASSING				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.I.						
										4.5		Road Fill overburden Frozen Silty Clay Dark Brown	T.H. 629
										2		Road Fill	T.H. 630
305										3		overburden	
										7		silty sandy clay Cobbles	
										10		↑ Refusal	
										2		Road Fill	T.H. 631
										3		overburden	
										7		silty sandy clay Cobbles	
										10		↑ Refusal	
										2		Road Fill	T.H. 632
										3		overburden	
306												Sandy Clay Large Cobbles	
										10			

SIEVE ANALYSIS		SAMPLE NUMBER	
INER			
BY			
WGT			
2.4	#4		
2.0	10		
5.0	20		
6.0	40		
4.3	100		
2.5	200		

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 50A % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		21.7	17.0	4.7							
	A-4										
	S.M.-S.C.										
	SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTEIL HI-WAY  
 LOCATION: STA. 5730  
 HOLE No. \_\_\_\_\_ DEPTH: 3'-7'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED: JULY '69  
 FIELD SAMPLE No. 305 LAB SAMPLE No. 1015  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS



DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT FR DEMPSTER HWY TEST HOLE NO. 633-634-635-636  
 LOGGED BY Ed. Melanson DATE July 18/69 STATION 5745 - 5750  
 ENTERED BY J. Cairns DATE Aug 13/69 5755 - 5760  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Auger Mobile.

SAMPLE NO.	% PASSING				LIMITS			Public Roads Class.	Sample Depth	Depth ft.	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.L.						
										3		Road Fill	T.H. 633
										10		Sandy Clay Large Cobbles	
										4		Road Fill	T.H. 634
										10		Sandy Clay Large Cobbles	
										4		Road Fill	T.H. 635
										10		Sandy Clay Large Cobbles	
										5		Road Fill	T.H. 636
										6		Overburden	
										10		Sandy Clay Large Cobbles	

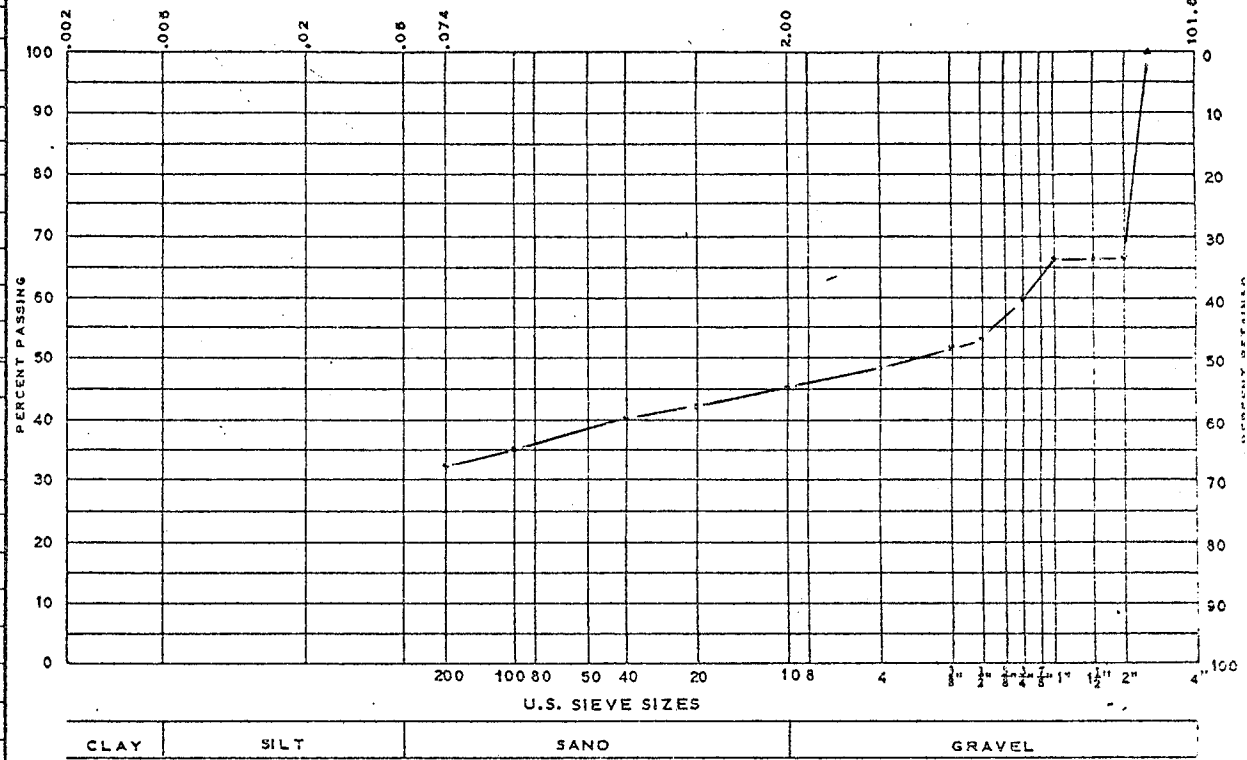
DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DAMPSTER HWY TEST HOLE NO. 637-638-639-640  
 LOGGED BY Ed Melanson DATE July 1/89 STATION 5765 - 5770  
 ENTERED BY J. Cairns DATE Aug 13/89 5775 - 5780  
 CHECKED BY H. K. ... DATE Aug HOLE ADVANCED BY L. Huger Mobile

SAMPLE NO.	% PASSING LIMITS							Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L	P.L	P.L					
307									2			Road Fill Silty Clay Small Stones & Cobbles ↑ Refusal
									6			
									10			
									3			Road Fill Silty Clay Small Stones & Cobbles ↑ Refusal
									10			
308									7			Overburden Frozen Silty Clay Few Stones
									10			
309									7			Overburden Sandy Clay Large Cobbles ↑ Refusal
									8			
									10			

FINER BY EIGHT	SIEVE ANALYSIS	
	SAMPLE NUMBER	
66.0	3"	45.4 71K
66.1	2	42.7 20
66.4	1 1/2	40.3 40
66.6	1	35.1 100
59.8	3/4	32.4 200
53.5	1/2	
51.5	3/8	
47.9	1/4	

AGGREGATE GRADING CHART



MPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.7	30.7	8.0							
		A-2-4										
		S.M.										
		SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEWATER-ALL-WAY  
 LOCATION STA. 5765  
 HOLE No. \_\_\_\_\_ DEPTH ✓  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JULY '69  
 FIELD SAMPLE No. 307 LAB SAMPLE No. 1017  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER \_\_\_\_\_ DATE 25-3-71

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

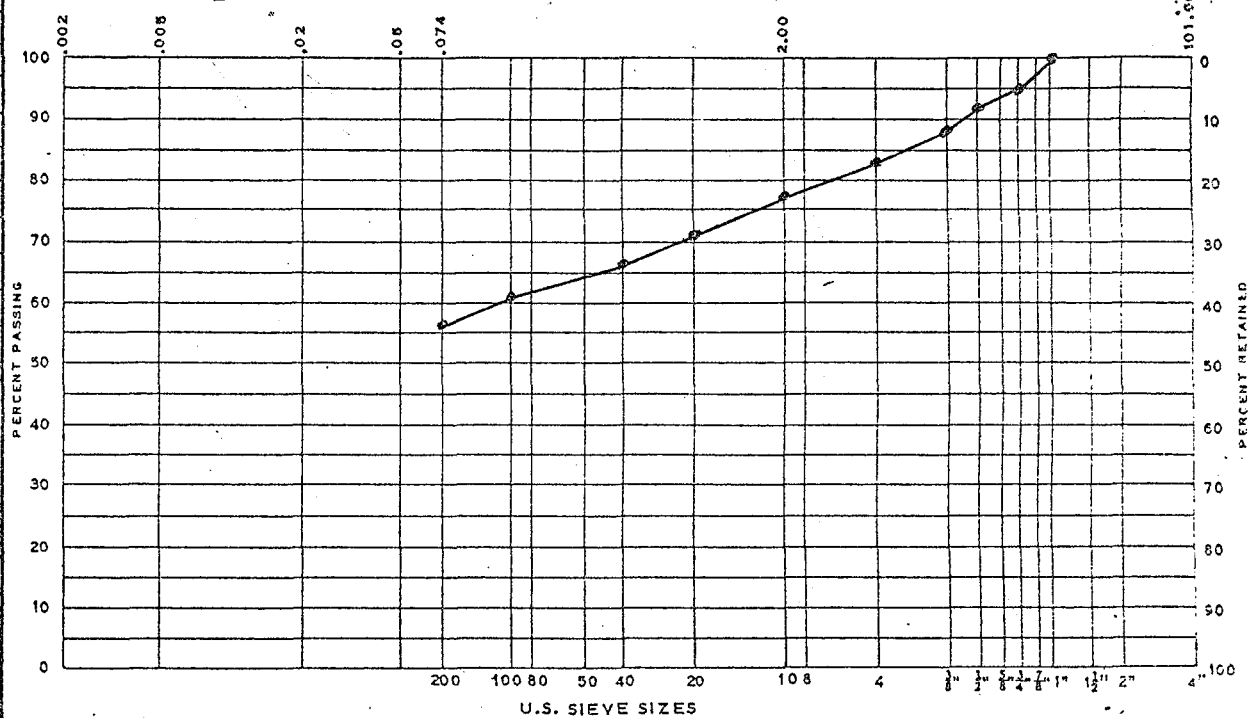
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

FINER BY SIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
1"	100	# 4 83.6
4"	95.2	# 10 76.8
2"	92.0	# 20 70.7
1/2"	87.6	# 40 66.7
		# 100 60.8
		# 200 55.8

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

PLATE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SOA % LOSS	DSPG	COLOR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	7.0							
		A-4										
		M.L.										
		SILT - SAND MIXTURE WITH SLIGHT PLASTICITY										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE \_\_\_\_\_ %

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY  
 LOCATION STA. 5770  
 HOLE No. \_\_\_\_\_ DEPTH 1' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69  
 FIELD SAMPLE No. 308 LAB SAMPLE No. 1018  
 D. P. W. WHITEHORSE - SOILS LAB J.M.  
 29-3-71

TESTING ENGINEER

DATE

FINE AGGREGATE

ROCK TYPE \_\_\_\_\_ %

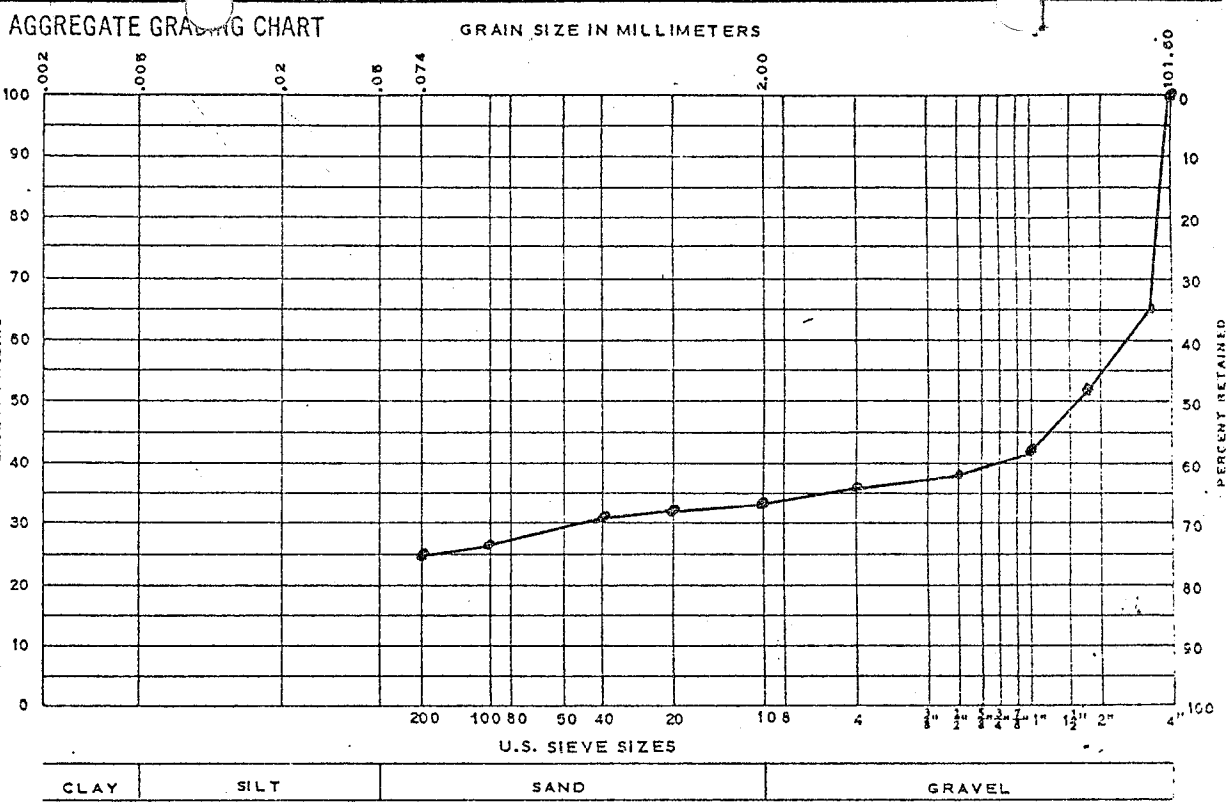
MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

FINER BY SIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
"	100	# 4 36.2
"	65.5	# 10 34.6
"	52.4	# 20 32.9
1/2"	52.4	# 40 31.1
"	42.1	# 100 27.1
3/4"	40.7	# 200 24.8
2"	38.6	
1 1/2"	38.0	
+ 4"		

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO <sub>4</sub> % LOSS	DSFC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b G.P.			0.0							
POOR TO FAIR GRADED GRAVEL												



#### TYPICAL PETROGRAPHIC ANALYSIS

##### COARSE AGGREGATE

ROCK TYPE	%

#### LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION: STA. 5780

HOLE No. \_\_\_\_\_ DEPTH 4' to 8'

SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 309 LAB SAMPLE No. 1019

D. P. W. WHITEHORSE - SOILS LAB

*J.M.*  
30-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

#### FINE AGGREGATE

ROCK TYPE	%

#### MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE, Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 641-642-643-644  
 LOGGED BY Ed Melanson DATE July 16/69 STATION 5785 - 5790  
 ENTERED BY J. Cairns DATE Aug 13/69 5795 - 5800  
 CHECKED BY [Signature] DATE [Signature] HOLE ADVANCED BY 4" Auger Probe

SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:	
	No. 200	No. 40	No. 10	No. 4	L.L	P.L	P.L						
										2		Overburden Frozen Silty Clay Few Stones	T.H. 641
										10			
										2		Road Fill	T.H. 642
										3		Overburden	
										10		Frozen Silty Clay Few Stones	
										3		Road Fill	T.H. 643
										4		Overburden	
										10		Frozen Silty Clay Few Stones	
										2		Road Fill	T.H. 644
										3		Overburden	
										10		Sandy Clay Large Cobbles	
												↑ Refusal	

DEPARTMENT OF PUBLIC WORKS  
SOILS SECTION, WHITEHORSE; Y.T.

PROJECT DEMPSTER HWY TEST HOLE NO. 645-646-647-648  
 LOGGED BY Ed Melanson DATE July/69 STATION 5805-5810  
 ENTERED BY J. Cairns DATE Aug 13/69 5815-5820  
 CHECKED BY J. K. [unclear] DATE [unclear] HOLE ADVANCED BY 4" Auger Mobile

SAMPLE NO.	% PASSING LIMITS				LIMITS			Public Roads Class.	Sample Depth	Depth ft	Profile	NOTES:
	No. 200	No. 40	No. 10	No. 4	L.L.	P.L.	P.L.					
										3		Road Fill Overburden Sandy Clay ⚡ Large Cobbles ↑ Refusal
										4		
										10		
										3		Road Fill Overburden Sandy Clay ⚡ Large Cobbles ↑ Refusal
										5		
										10		
										3		Road Fill Overburden Sandy Clay ⚡ Large Cobbles ↑ Refusal
										4		
										10		
										2		Road Fill Overburden Sandy Clay ⚡ Large Cobbles ↑ Refusal
										2		
										10		

T.H. 645

T.H. 646

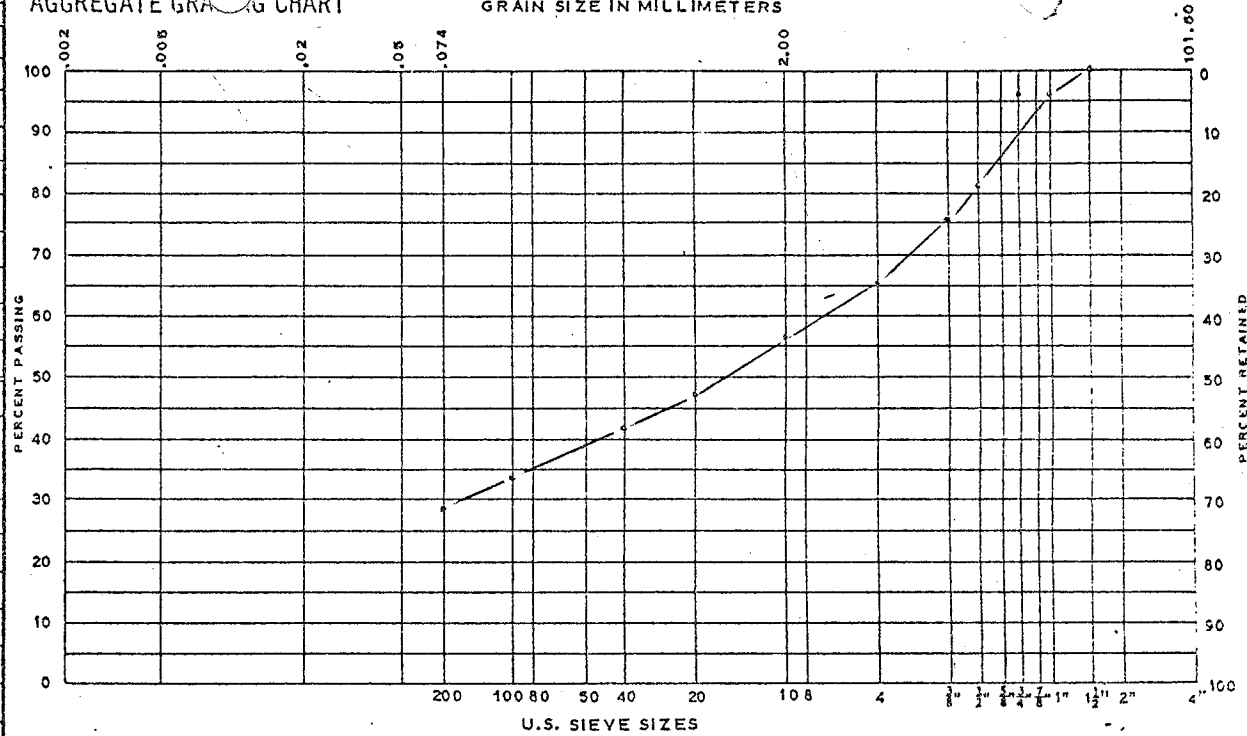
T.H. 647

T.H. 648



AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

SIEVE ANALYSIS  
SAMPLE NUMBER

FINER BY SIGHT					
100	1/2	55.7	#10		
75	1	47.2	20		
75	3/4	41.5	40		
30	1/2	34.0	100		
75	3/8	29.1	200		
75	#4				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SOL. % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	% M.
			22.7	30.7		2.0						
		A-2-4										
		S.M.										
		SILTY SAND										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEARBORN HILLWAY  
 LOCATION STA. 5840  
 HOLE No. \_\_\_\_\_ DEPTH 3' to 10'  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED \_\_\_\_\_  
 FIELD SAMPLE No. 310 LAB SAMPLE No. 02017991  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-76

DATE

MATERIALS ENGINEER'S REMARKS

1020 - 3'-10' STA. 5840 SAMPLE # 310  
~~2991 - 6'-12' STA. 2425 SAMPLE # 157~~

MATERIALS ENGINEER

DATE

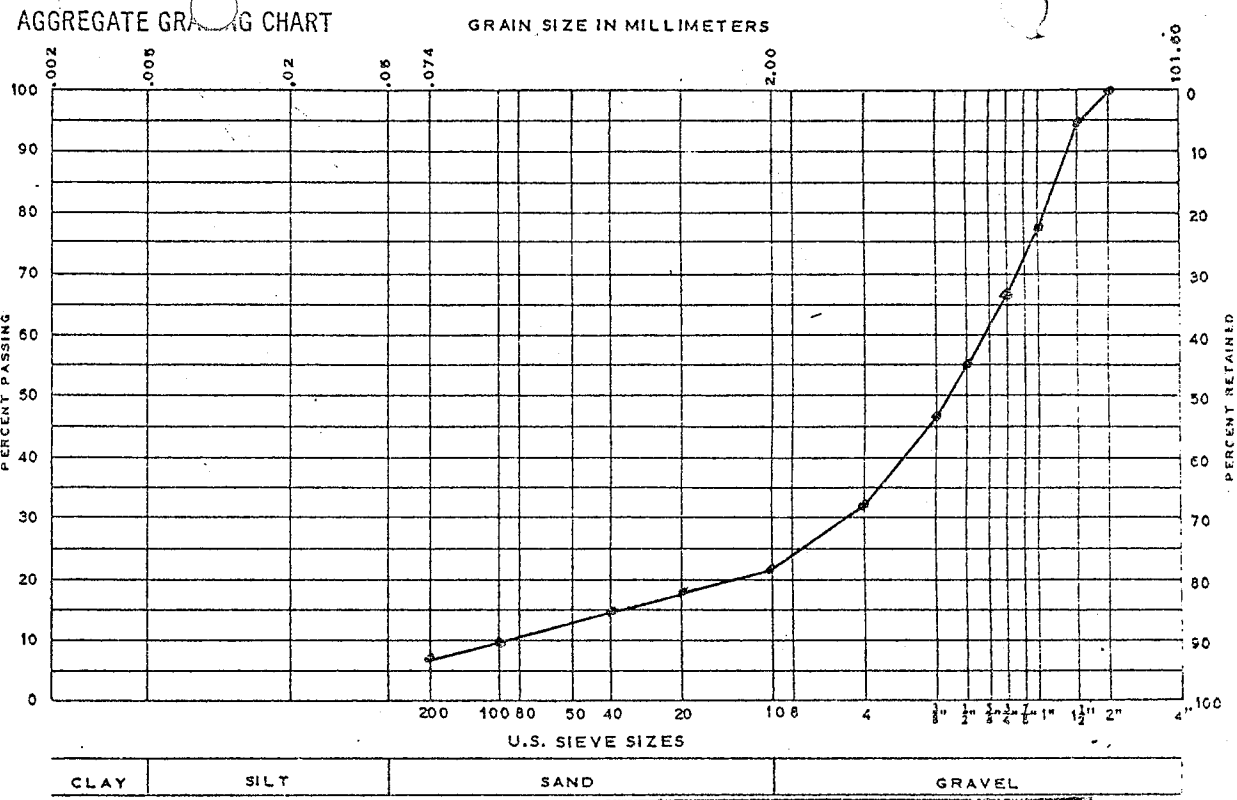


DEMPSTER HIGHWAY

AGGREGATE DEPOSIT REPORTS

BRIDGE SITE MILE 42.7

FINER BY EIGHT	SIEVE ANALYSIS	
	%	SAMPLE NUMBER
2"	100	# 4 31.9
1 1/2"	94.8	# 10 22.3
1"	77.3	# 20 18.2
3/4"	67.6	# 40 15.4
1/2"	55.3	# 100 9.5
3/8"	46.7	# 200 7.2



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	Mg SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.W.										
		WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION MILE 42.7

HOLE No. \_\_\_\_\_ DEPTH 5-5 1/2

SAMPLE TYPE SPLIT 69-2-1 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 1 LAB SAMPLE No. 2831

D. P. W. WHITEHORSE • SOILS LAB J.W.

26-3-71

TESTING ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

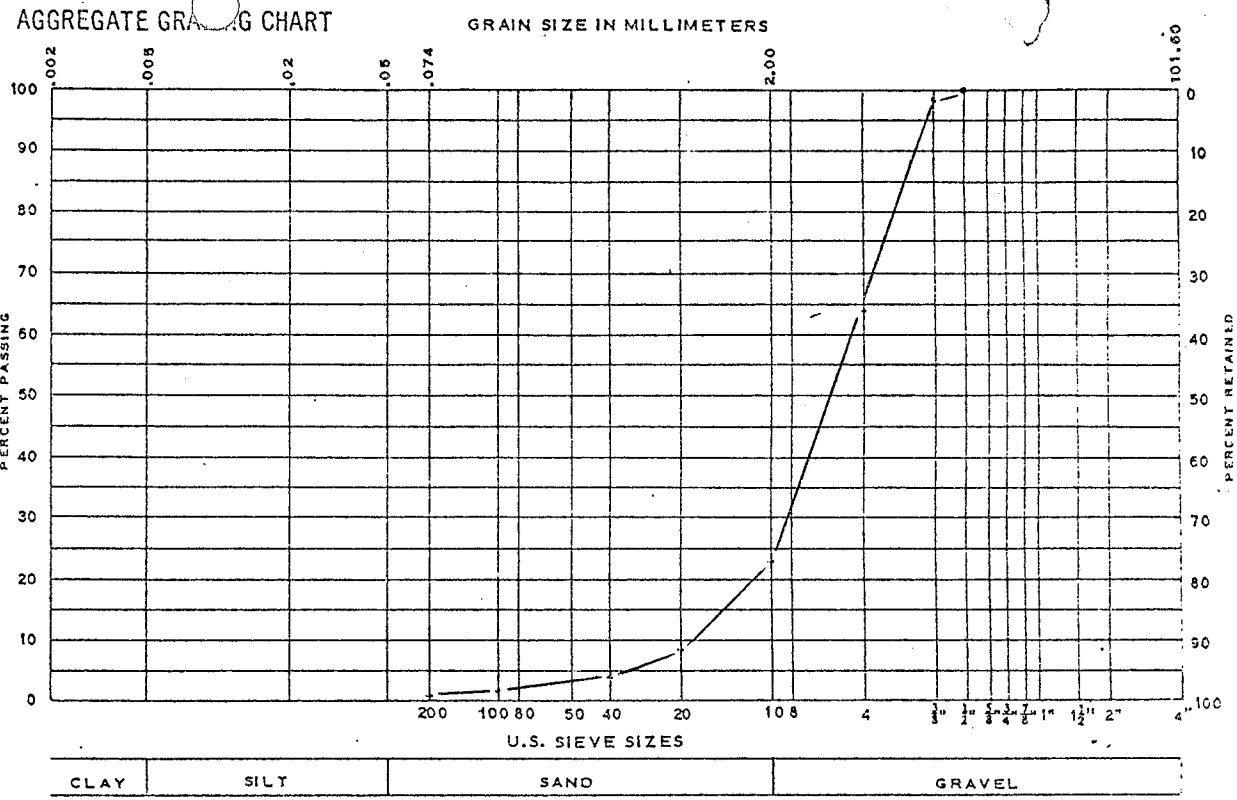
FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ DATE \_\_\_\_\_

MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

FINER BY EIGHT		SIEVE ANALYSIS							
		SAMPLE NUMBER							
50	1/2"								
25.7	3/8"								
33.9	#4								
33.0	10								
2.7	20								
4.1	40								
1.3	100								
0.8	200								



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
		A-1-a				0.7						
		S.P.										
		POORLY GRADED GRAVELLY SAND WITH LITTLE FINES.										

TYPICAL PETROGRAPHIC ANALYSIS	
COARSE AGGREGATE	
ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HWY

LOCATION: MILE 43.7

HOLE No. \_\_\_\_\_ DEPTH: 35'-39'

SAMPLE TYPE: WASH DATE SAMPLED: JUNE '69

FIELD SAMPLE No. QZ-2 #1 LAB SAMPLE No. 2832

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER: \_\_\_\_\_ DATE: 25-3-71

FINE AGGREGATE	
ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

\_\_\_\_\_ DATE \_\_\_\_\_

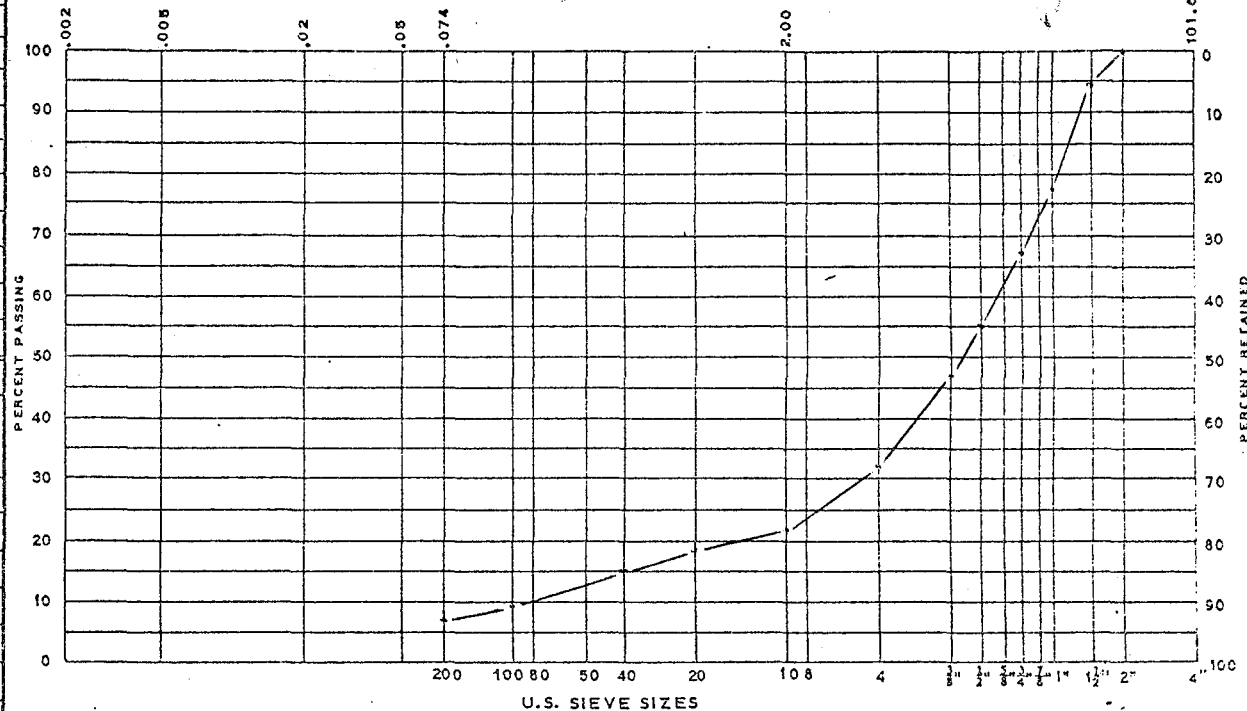
MATERIALS ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



FINER BY SIEVE	SIEVE ANALYSIS	
	SAMPLE NUMBER	
30.0	2"	#4
14.8	1 1/2"	10
7.3	1"	20
7.6	3/4"	40
5.3	1/2"	100
6.9	3/8"	200
WES	#4	

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



CLAY      SILT      SAND      GRAVEL

SMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	T.M.
		A-1-a			00							
		G.W.										
		WELL GRADED GRAVEL										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMETER HWY  
 LOCATION: MILE 42.7  
 HOLE No. \_\_\_\_\_ DEPTH \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ DATE SAMPLED 9-6-69  
 FIELD SAMPLE No. \_\_\_\_\_ LAB SAMPLE No. 2836  
 D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

FINE AGGREGATE

ROCK TYPE	%

MATERIALS ENGINEER'S REMARKS

~~2831 5' 5 1/2' SPLIT 69-2-1 SAMPLE #1~~  
 2836 - 14'-15' CORE 62-2-1 " #3

MATERIALS ENGINEER

DATE

