

HIGHWAY CONSTRUCTION  
km 1882.0 to km 1894.3  
ALASKA HIGHWAY #1  
YUKON, 1994  
VOLUME 1  
CENTRELINE TESTING

This Data Package prepared for project viewing:

April, 1995

Transportation Engineering Branch  
Geotechnical Services  
201 Range Road  
Whitehorse, Yukon

GR-01-150

GEOTECHNICAL INVESTIGATION  
HIGHWAY CONSTRUCTION  
km 1882.0 to km 1894.3, ALASKA HIGHWAY, Y.T.  
CENTRELINE TESTING

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**VOLUME 1**

INTRODUCTION

Investigation notes, classification methods and legends.

CENTRELINE TESTING

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|      |                       |                        |
|------|-----------------------|------------------------|
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|      | TEST HOLES 75 to 117  | shown with prefix 246- |
|      | TEST HOLES 118 to 164 | shown with prefix 252- |
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| 1994 | TEST HOLES 10 to 14   | shown with prefix 301- |
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|      |                     |                        |
|------|---------------------|------------------------|
| 1993 | TEST HOLES 54 to 59 | shown with prefix 259- |
| 1994 | TEST HOLES 14 to 25 | shown with prefix 317- |
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EBA ENGINEERING CONSULTANTS LTD. REPORT 0201-94-11560

Rock Slope Evaluation for Realignment of Alaska Highway, Km 1880, White River, North Approach, January, 1995

GEOTECHNICAL INVESTIGATION  
HIGHWAY CONSTRUCTION  
km 1882.0 to km 1894.3, ALASKA HIGHWAY, Y.T.  
CENTRELINE TESTING

## **INTRODUCTION**

GEOTECHNICAL INVESTIGATION  
HIGHWAY CONSTRUCTION  
km 1882.0 to km 1894.3, ALASKA HIGHWAY, Y.T.  
CENTRELINE TESTING

GEOTECHNICAL INVESTIGATION DATA

This geotechnical investigation data is provided to assist in the interpretation of soil conditions encountered within this project area. The data presented was prepared solely for Departmental designing and estimating purposes.

The description of material/soil description shown on the subsurface exploration and test reports is a textural description based on identification of retrieved material by the field drilling technician at the time of investigation. This description may be modified following laboratory testing and classification of selected samples. The system used is based on the ASTM standards for identification and classification of soils. Permafrost classifications and groundwater levels are indicated as detected at time of drilling, unless otherwise noted. Changes in moisture or frost conditions should be anticipated depending on the season, time lapse or amount of development work done since the date of investigation.

The sample identification and laboratory testing data is provided to give detailed physical properties of selected retrieved samples within the subsurface profile. *These tests may be conducted on disturbed samples and may exhibit properties different from the native materials.* The sample classification may also vary from the soil description due to variations within the sampled strata or because of changes resulting from the sampling method or excavation equipment used.

These descriptions are not intended to be conclusive as to the nature of any material encountered, or to conditions between or around the test borings/pits.

It is recommended that a site inspection, combined with consideration of the regional geology and climatic conditions be conducted. An evaluation of the investigation methods and development work done since the time of investigation should be done prior to interpreting the subsurface conditions for construction purposes.

GEOTECHNICAL INVESTIGATION  
HIGHWAY CONSTRUCTION  
km 1882.0 to km 1894.3, ALASKA HIGHWAY, Y.T.  
CENTRELINE TESTING

## **CENTRELINE TESTING**

|  |  |                             |
|--|--|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING                                   | TEST HOLE NO: 253-195       |
| SHAKWAK PROJECT  | SEGMENT 16   | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: See Plan 1882+032 $\frac{1}{2}$ 100m $\angle$ $\angle$ | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES ▲ |      |        | USC   | SOIL SYMBOL | PERCENT SAND ◆   |  |     | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|-----------------|------|--------|-------|-------------|------------------|--|-----|-----------|
|           |   |                                     |           | PLASTIC         | M.C. | LIQUID |       |             | PERCENT GRAVEL ■ |  |     |           |
| 0.0       | ORGANIC MATERIAL<br>-frozen below 0.3m<br>-visible ice below 0.6m   |                                     |           |                 |      |        |       |             |                  |  | 0.0 |           |
| 1.0       |   |                                     |           |                 |      |        |       |             |                  |  | 1.0 |           |
| 2.0       | POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM)<br>-grindy drilling | <input checked="" type="checkbox"/> | 479       | ▲               |      |        | GP-GM | ◆           | ■                |  | 2.0 |           |
| 3.0       | SILT AND ORGANICS<br>-smooth drilling                               |                                     |           |                 |      |        |       |             |                  |  | 3.0 |           |
| 4.0       | END HOLE at 2.8m<br>-refusal  |                                     |           |                 |      |        |       |             |                  |  | 4.0 |           |
| 5.0       |   |                                     |           |                 |      |        |       |             |                  |  | 5.0 |           |
| 6.0       |   |                                     |           |                 |      |        |       |             |                  |  | 6.0 |           |

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Fig. No:

COMPLETION DEPTH: 2.8 m  
COMPLETE: 93/09/25

|  |                                      |                             |
|--|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING       | TEST HOLE NO: 253-194       |
| SHAKWAK PROJECT  | SEGMENT 16                           | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: See Plan 1882+210 % 60m LL | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                      |                             |

| DEPTH (m) | SOIL DESCRIPTION                                  | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|---|-------------|-----------|-------------------|------|--------|-----|-------------|------------------|----|-----------|
|           |   |             |           | PLASTIC           | M.C. | LIQUID |     |             | 20               | 40 |           |
| 0.0       | ORGANIC MATERIAL<br>-frozen below 0.3m            |             |           |                   |      |        |     |             |                  |    | 0.0       |
| 1.0       | SANDY SILTY GRAVEL<br>-frozen<br>-grindy drilling |             |           |                   |      |        |     |             |                  |    | 1.0       |
| 2.0       |   |             |           |                   |      |        |     |             |                  |    | 2.0       |
| 3.0       |   |             |           |                   |      |        |     |             |                  |    | 3.0       |
| 4.0       |   |             |           |                   |      |        |     |             |                  |    | 4.0       |
| 5.0       | END HOLE at 5.0m<br>-refusal                      |             |           |                   |      |        |     |             |                  |    | 5.0       |
| 6.0       |   |             |           |                   |      |        |     |             |                  |    | 6.0       |

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|               |                         |
|---------------|-------------------------|
| LOGGED BY: TF | COMPLETION DEPTH: 5.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/24      |
| Fig. No:      | Page 1 of 1             |

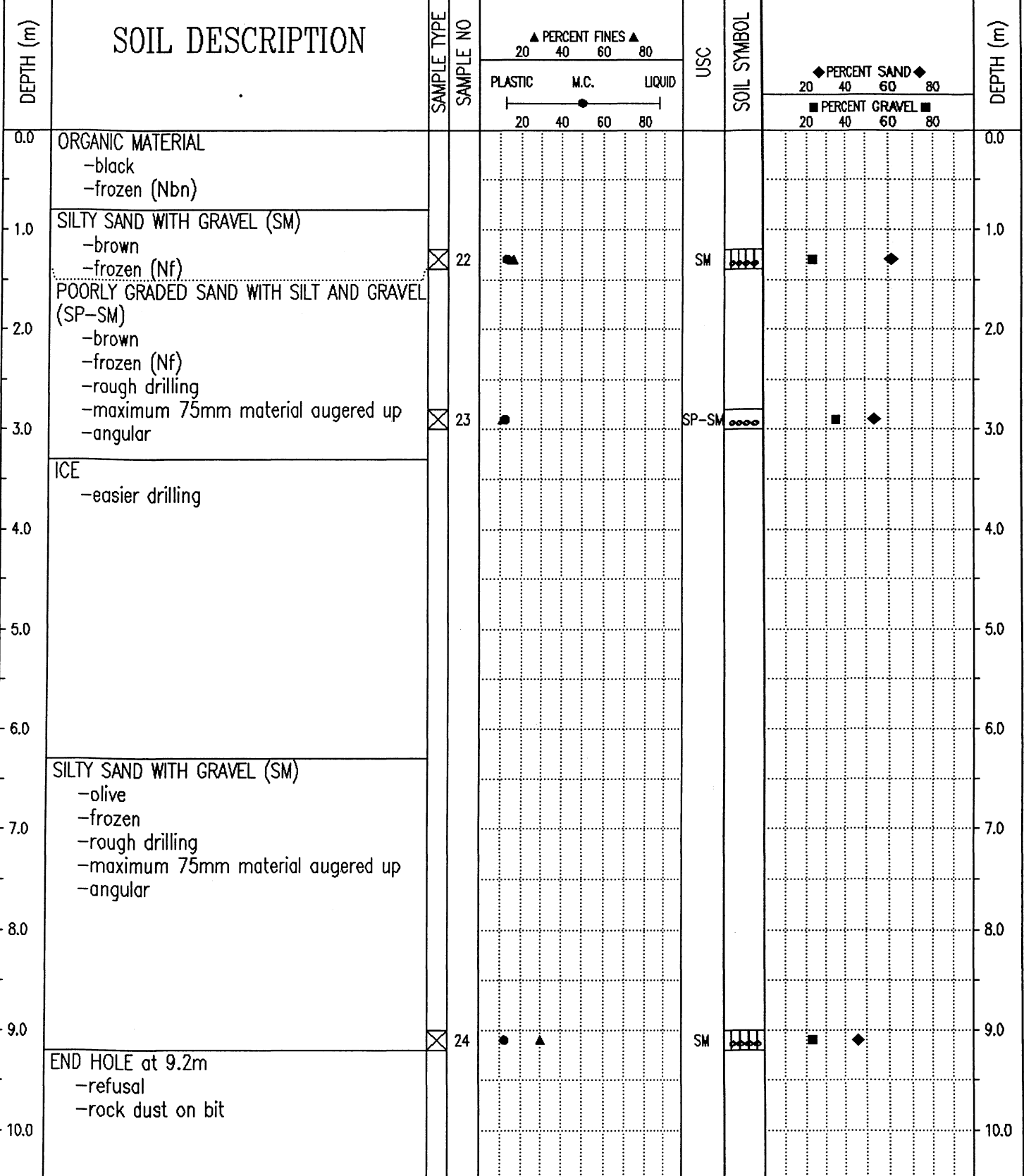
|   |  |  |   |
|---|--|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT    |  | ALASKA HIGHWAY PRE-ENGINEERING             | TEST HOLE NO: 253-193                     |
| SHAKWAK PROJECT                           |  | SEGMENT 16                                 | Project No: 202101-0312-193               |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |  | LOCATION: See Plan 1882+288 1/2 65 m Lt    | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE                               | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|   |  | <input type="checkbox"/> BULK              | <input type="checkbox"/> TUBE             |
|   |  |  | <input type="checkbox"/> CORE             |

| DEPTH (m) | SOIL DESCRIPTION                       | SAMPLE TYPE | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND   |  |     | DEPTH (m) |
|-----------|--|-------------|-----------|---------------|------|--------|-----|-------------|----------------|--|-----|-----------|
|           |  |             |           | PLASTIC       | M.C. | LIQUID |     |             | PERCENT GRAVEL |  |     |           |
| 0.0       | ORGANIC MATERIAL<br>-frozen below 0.3m |             |           |               |      |        |     |             |                |  | 0.0 |           |
| 1.0       | SANDY SILTY GRAVEL<br>-frozen          |             |           |               |      |        |     |             |                |  | 1.0 |           |
| 2.0       |  |             |           |               |      |        |     |             |                |  | 2.0 |           |
| 3.0       |  |             |           |               |      |        |     |             |                |  | 3.0 |           |
| 4.0       |  |             |           |               |      |        |     |             |                |  | 4.0 |           |
| 4.0       | ICE                                    |             |           |               |      |        |     |             |                |  | 4.0 |           |
| 5.0       | SANDY SILTY GRAVEL                     |             |           |               |      |        |     |             |                |  | 5.0 |           |
| 6.0       | END HOLE at 6.0m<br>-refusal           |             |           |               |      |        |     |             |                |  | 6.0 |           |

|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 6.0 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/24      |
|   | Fig. No:      | Page 1 of 1             |

|  |                                      |                             |
|--|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                      | TEST HOLE NO: 341-106       |
| ENGINEERING-CAPITAL                    | A/H KM 1882+500 LHS                  | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan 1892+300 % 67m LL | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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Fig. No:  
COMPLETION DEPTH: 9.2 m  
COMPLETE: 94/11/03  
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|   |  |   |                             |
|---|--|---|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  |  | ALASKA HIGHWAY PRE-ENGINEERING                    | TEST HOLE NO: 253-192       |
| SHAKWAK PROJECT   |  | SEGMENT 16  | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER   |  | LOCATION: See Plan 1882 +330 $\frac{1}{2}$ 60m Lt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |   |                             |

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|----|-----------|
|           |  |                                     |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 | 60 |           |
| 0.0       | ORGANIC MATERIAL   |                                     |           |                 |      |        |     |             |                |    |    | 0.0       |
| 1.0       | -frozen with visible ice below 0.6m<br>-some silt below 1.0m |                                     |           |                 |      |        |     |             |                |    |    | 1.0       |
| 2.0       | SILTY GRAVEL WITH SAND (GM)<br>-grindy drilling              |                                     |           |                 |      |        |     |             |                |    |    | 2.0       |
| 3.0       |  | <input checked="" type="checkbox"/> | 478       | ●               | ▲    |        | GM  | ◆           | ■              |    |    | 3.0       |
| 4.0       |  |                                     |           |                 |      |        |     |             |                |    |    | 4.0       |
| 5.0       |  |                                     |           |                 |      |        |     |             |                |    |    | 5.0       |
| 6.0       | END HOLE at 6.0m<br>-refusal                                 |                                     |           |                 |      |        |     |             |                |    |    | 6.0       |

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Fig. No:

COMPLETION DEPTH: 6.0 m  
COMPLETE: 93/09/24

| SUBSURFACE EXPLORATION AND TEST REPORT |  | SHAKWAK PROJECT                        |  | TEST HOLE NO: 341-105                     |                               |                               |                               |             |                  |   |           |
|--|--|--|--|---|-------------------------------|-------------------------------|-------------------------------|-------------|------------------|---|-----------|
| ENGINEERING-CAPITAL                    |  | A/H KM 1882+500 LHS                    |  | Project No: 092-202101-0312               |                               |                               |                               |             |                  |   |           |
| DRILL: B40L 150mm SOLID STEM AUGER     |  | LOCATION: See Plan 1882+350 2/3 60m LE |  | ELEVATION: 0.00 (m)                       |                               |                               |                               |             |                  |   |           |
| SAMPLE TYPE                            |  | <input type="checkbox"/> RETURN        | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER | <input type="checkbox"/> BULK | <input type="checkbox"/> TUBE | <input type="checkbox"/> CORE |             |                  |   |           |
| DEPTH (m)                              | SOIL DESCRIPTION   | SAMPLE TYPE                            | SAMPLE NO                                  | PERCENT FINES ▲                           |                               |                               | USC                           | SOIL SYMBOL | PERCENT SAND ◆   |   | DEPTH (m) |
|  |  |  |  | PLASTIC                                   | M.C.                          | LIQUID                        |                               |             | PERCENT GRAVEL ■ |   |           |
| 0.0                                    | ORGANIC MATERIAL<br>-frozen (Nbn)  |  |  |   |                               |                               |                               |             |                  |   | 0.0       |
| 1.0                                    |  |  |  |   |                               |                               |                               |             |                  |   | 1.0       |
| 1.8                                    | SANDY SILT (ML)<br>-brown<br>-frozen (Vx)<br>-organic  | <input checked="" type="checkbox"/>    | 18   |   | ▲                             | ●                             | ML                            |             | ■                | ◆ | 1.8       |
| 2.0                                    |  |  |  |   |                               |                               |                               |             |                  |   | 2.0       |
| 2.9                                    | SILTY GRAVEL WITH SAND (GM)<br>-brown<br>-frozen (Nbn)<br>-maximum 75mm material augered up<br>-angular                                | <input checked="" type="checkbox"/>    | 19   | ●   | ▲                             |                               | GM                            |             | ■                | ◆ | 2.9       |
| 4.0                                    | SILTY SAND WITH GRAVEL (SM)<br>-brown<br>-frozen (Nbn)<br>-maximum 75mm material augered up<br>-angular                                | <input checked="" type="checkbox"/>    | 20   | ●   | ▲                             |                               | SM                            |             | ■                | ◆ | 4.0       |
| 5.0                                    | SILTY GRAVEL WITH SAND (GHM)<br>-brown<br>-frozen (Nbn)<br>-slow, very rough drilling<br>-maximum 75mm material augered up<br>-angular |  |  |   |                               |                               |                               |             |                  |   | 5.0       |
| 6.8                                    | END HOLE at 6.8m<br>-refusal   | <input checked="" type="checkbox"/>    | 21   | ●   | ▲                             |                               | GM                            |             | ■                | ◆ | 6.8       |
| 7.0                                    |  |  |  |   |                               |                               |                               |             |                  |   | 7.0       |
| 8.0                                    |  |  |  |   |                               |                               |                               |             |                  |   | 8.0       |
| 9.0                                    |  |  |  |   |                               |                               |                               |             |                  |   | 9.0       |
| 10.0                                   |  |  |  |   |                               |                               |                               |             |                  |   | 10.0      |

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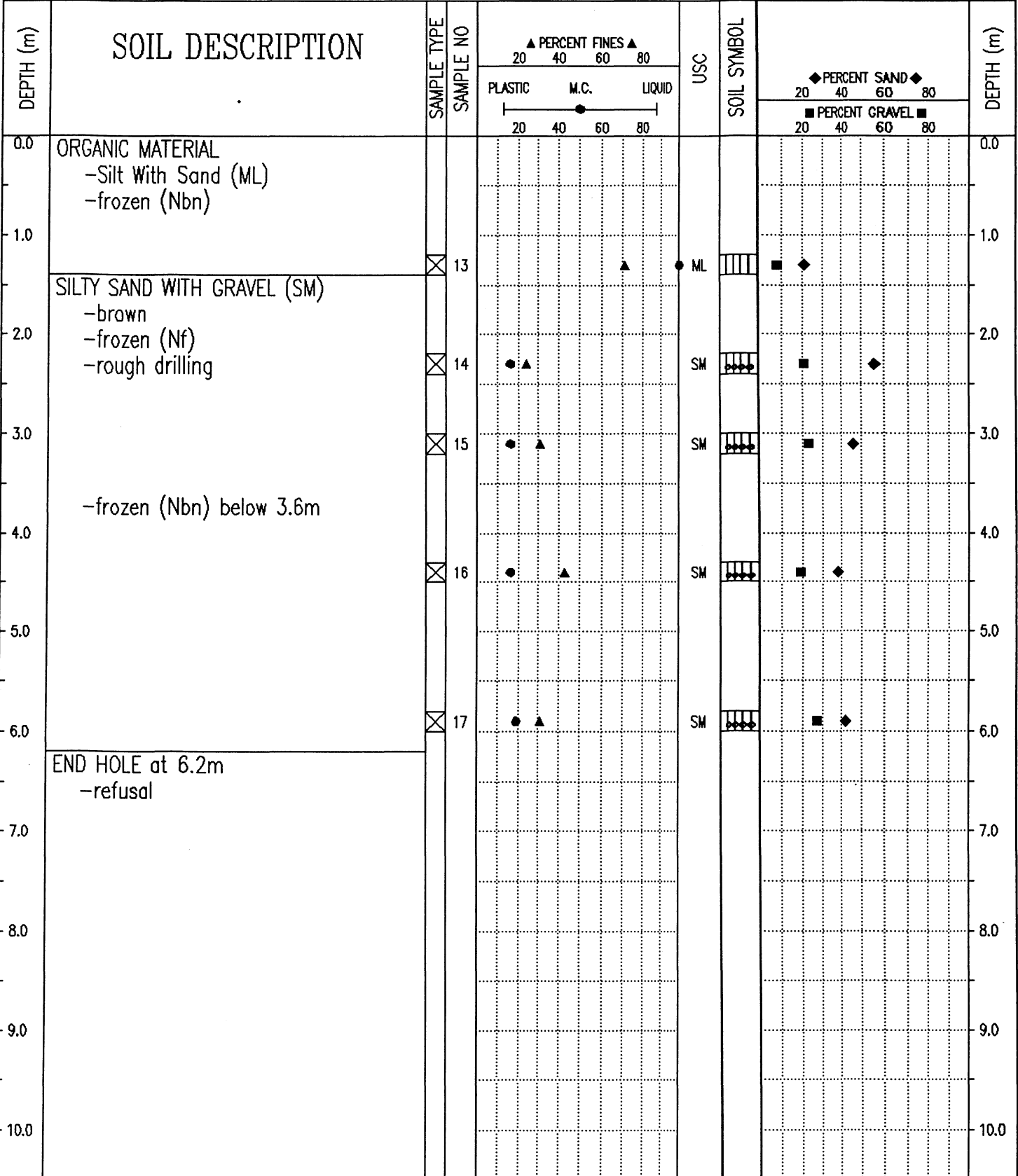
Fig. No:

COMPLETION DEPTH: 6.8 m

COMPLETE: 94/11/03

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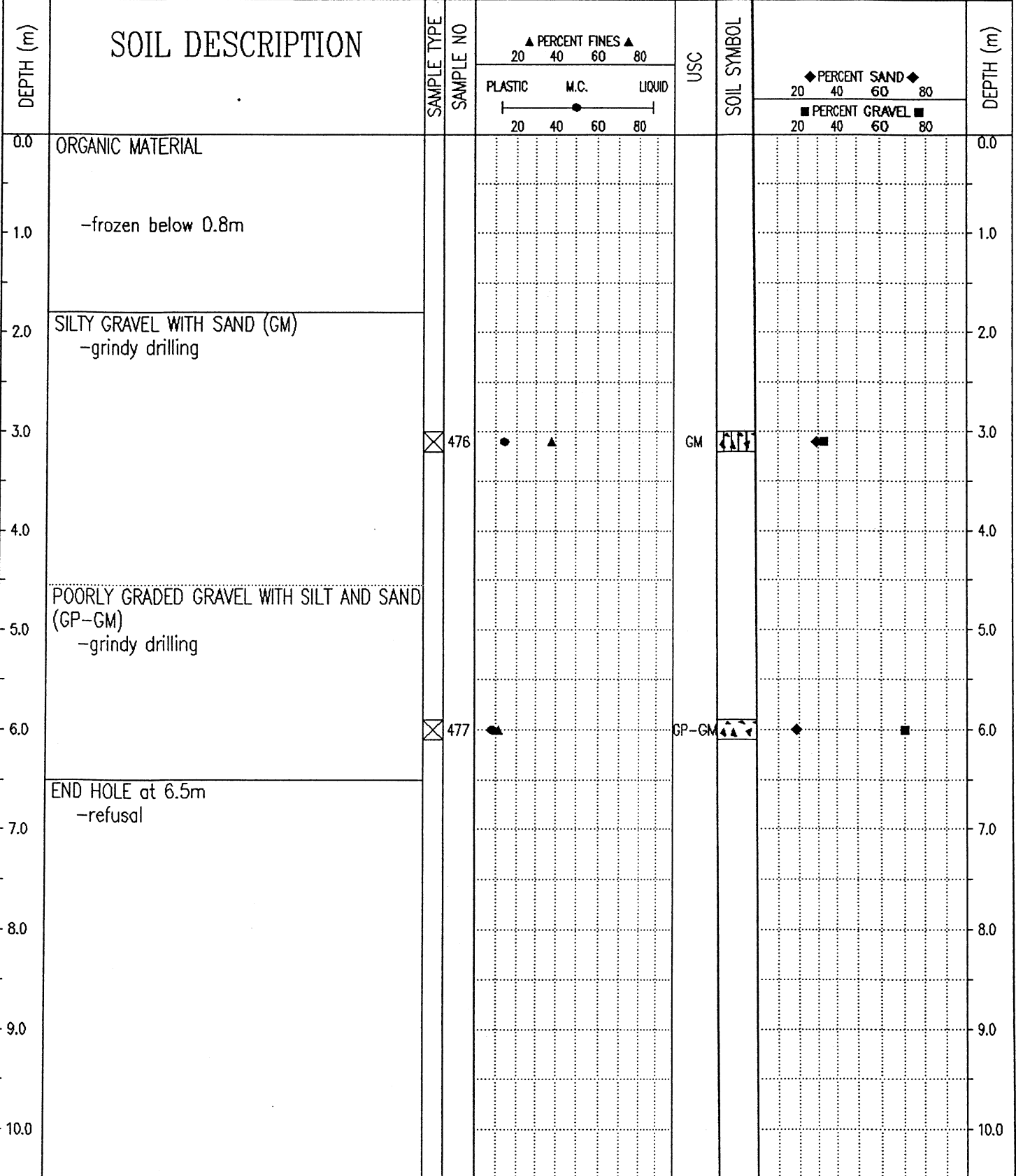
SAMPLE TYPE  RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



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|               |                         |
|---------------|-------------------------|
| LOGGED BY: KJ | COMPLETION DEPTH: 6.2 m |
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| Fig. No:      | Page 1 of 1             |

|   |  |  |   |
|---|--|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT    |  | ALASKA HIGHWAY PRE-ENGINEERING             | TEST HOLE NO: 253-191                     |
| SHAKWAK PROJECT                           |  | SEGMENT 16                                 | Project No: 202101-0312-193               |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |  | LOCATION: See Plan 1882+435 % 54m Lt       | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE                               | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|   |  | <input type="checkbox"/> BULK              | <input type="checkbox"/> TUBE             |
|   |  |  | <input type="checkbox"/> CORE             |



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Fig. No:

COMPLETION DEPTH: 6.5 m  
COMPLETE: 93/09/24

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| SUBSURFACE EXPLORATION AND TEST REPORT |   | SHAKWAK PROJECT                            |  | TEST HOLE NO: 341-103                     |                               |                               |                               |             |                  |    |           |      |
|--|---|--|--|---|-------------------------------|-------------------------------|-------------------------------|-------------|------------------|----|-----------|------|
| ENGINEERING-CAPITAL                    |   | A/H KM 1882+500 LHS                        |  | Project No: 092-202101-0312               |                               |                               |                               |             |                  |    |           |      |
| DRILL: B40L 150mm SOLID STEM AUGER     |   | LOCATION: See Plan 1882+460 1/2 47m Lt     |  | ELEVATION: 0.00 (m)                       |                               |                               |                               |             |                  |    |           |      |
| SAMPLE TYPE                            |   | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER | <input type="checkbox"/> BULK | <input type="checkbox"/> TUBE | <input type="checkbox"/> CORE |             |                  |    |           |      |
| DEPTH (m)                              | SOIL DESCRIPTION  | SAMPLE TYPE                                | SAMPLE NO                                  | PERCENT FINES ▲                           |                               |                               | USC                           | SOIL SYMBOL | PERCENT SAND ◆   |    | DEPTH (m) |      |
|  |   |  |  | PLASTIC                                   | M.C.                          | LIQUID                        |                               |             | PERCENT GRAVEL ■ |    |           |      |
|  |   |  |  | 20  | 40                            | 60                            | 80                            |             | 20               | 40 | 60        | 80   |
|  |   |  |  | 20  | 40                            | 60                            | 80                            |             | 20               | 40 | 60        | 80   |
| 0.0                                    | ORGANIC MATERIAL<br>-frozen   |  |  |   |                               |                               |                               |             |                  |    |           | 0.0  |
| 1.0                                    |   |  |  |   |                               |                               |                               |             |                  |    |           | 1.0  |
| 2.0                                    | SILTY SAND (SM)<br>-brown<br>-frozen (Vx)                                 | <input checked="" type="checkbox"/>        | 10   |   | 55                            | 55                            |                               | SM          | ◆                | ◆  |           | 2.0  |
| 3.0                                    | SILTY GRAVEL WITH SAND (GM)<br>-brown<br>-frozen (Nbn)<br>-rough drilling | <input checked="" type="checkbox"/>        | 11   | 15  | 55                            | 55                            |                               | GM          | ◆                | ◆  |           | 3.0  |
| 4.0                                    | SILTY SAND WITH GRAVEL (SM)<br>-olive<br>-frozen (Nbn)                    | <input checked="" type="checkbox"/>        | 12   | 15  | 55                            | 55                            |                               | SM          | ◆                | ◆  |           | 4.0  |
| 5.0                                    | END HOLE at 4.8m<br>-refusal  |  |  |   |                               |                               |                               |             |                  |    |           | 5.0  |
| 6.0                                    |   |  |  |   |                               |                               |                               |             |                  |    |           | 6.0  |
| 7.0                                    |   |  |  |   |                               |                               |                               |             |                  |    |           | 7.0  |
| 8.0                                    |   |  |  |   |                               |                               |                               |             |                  |    |           | 8.0  |
| 9.0                                    |   |  |  |   |                               |                               |                               |             |                  |    |           | 9.0  |
| 10.0                                   |   |  |  |   |                               |                               |                               |             |                  |    |           | 10.0 |

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Transportation Engineering

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Fig. No:

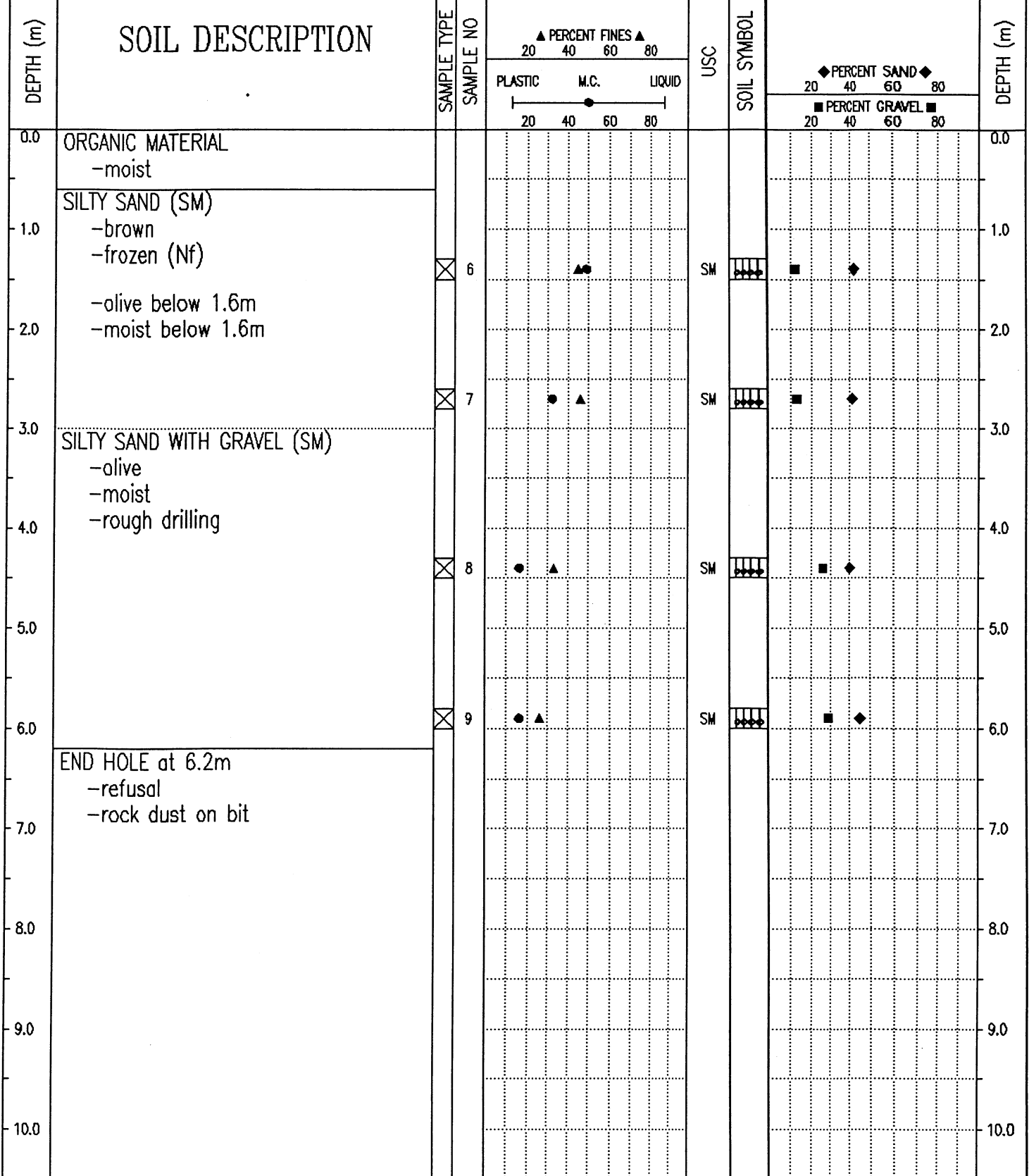
COMPLETION DEPTH: 4.8 m

COMPLETE: 94/11/02

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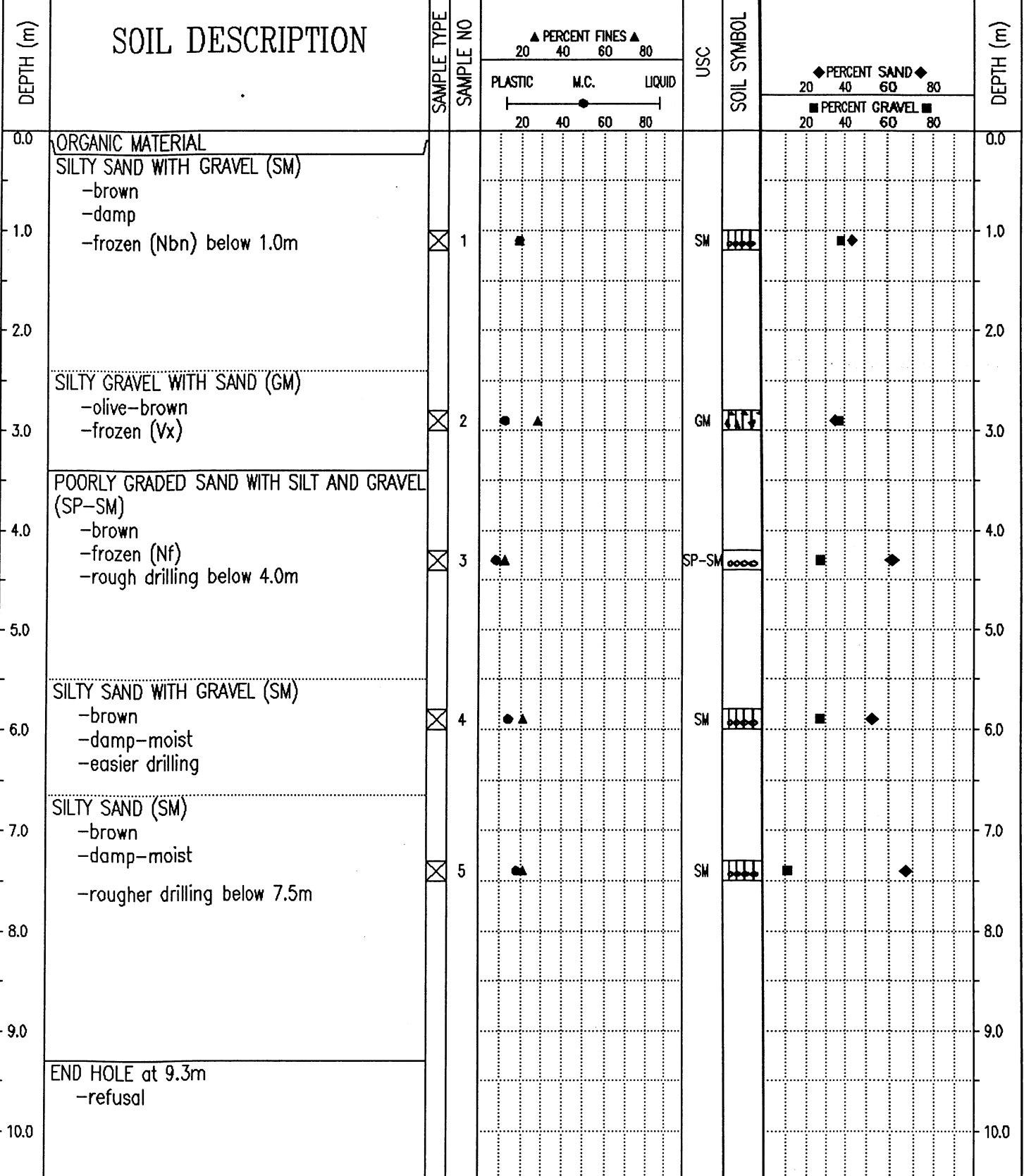
|  |                                      |                             |
|--|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                      | TEST HOLE NO: 341-102       |
| ENGINEERING-CAPITAL                    | A/H KM 1882+500 LHS                  | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan 1882+500 % 40m LL | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

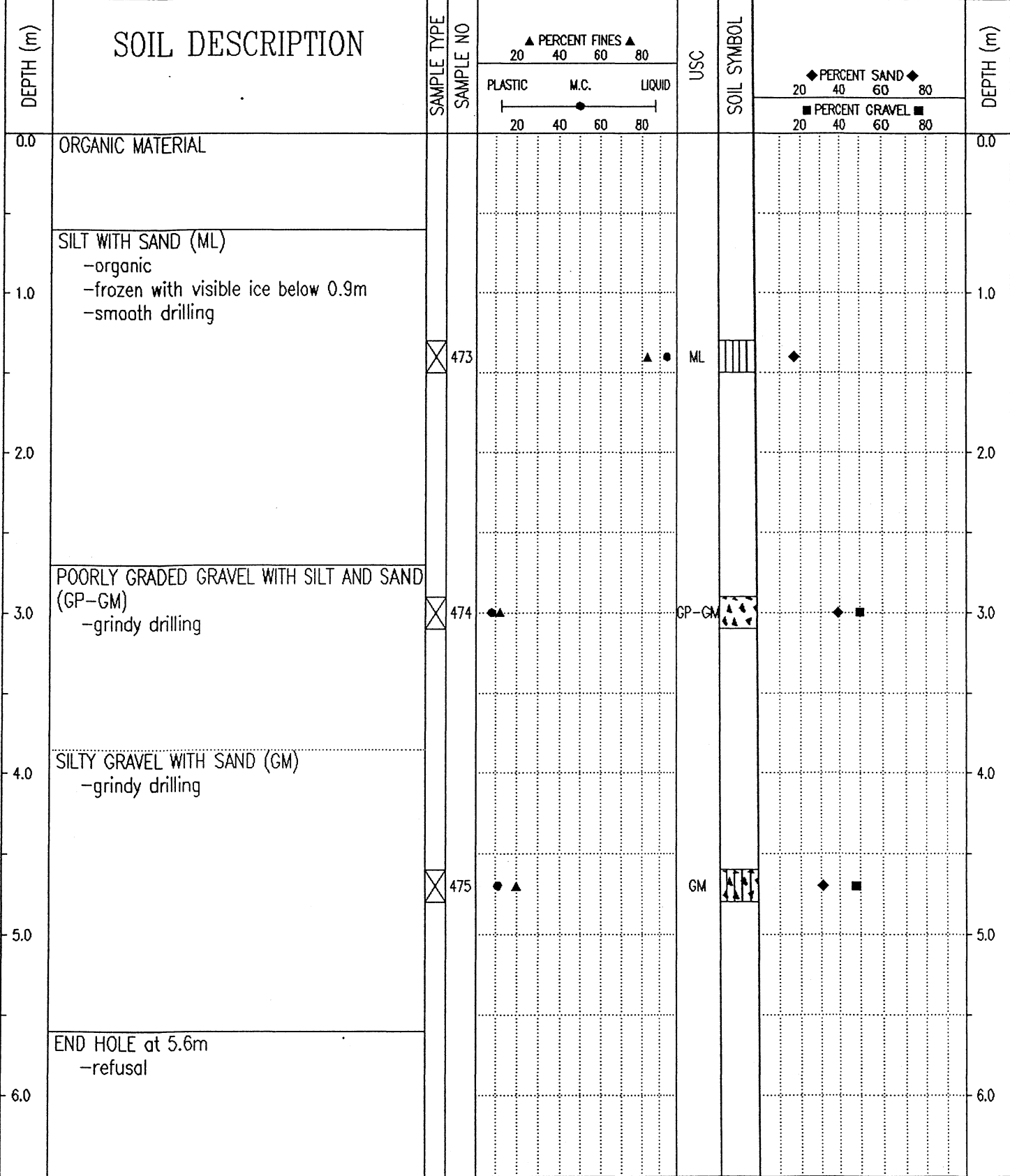


|   |               |                         |
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| Government of Yukon<br>Transportation Engineering | LOGGED BY: KJ | COMPLETION DEPTH: 6.2 m |
|   | REVIEWED BY:  | COMPLETE: 94/11/02      |
|   | Fig. No:      | Page 1 of 1             |

SAMPLE TYPE  RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



|   |                                      |                             |
|---|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  | ALASKA HIGHWAY PRE-ENGINEERING       | TEST HOLE NO: 253-190       |
| SHAKWAK PROJECT   | SEGMENT 16                           | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER   | LOCATION: See Plan 1882+520 % 40m Lt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                      |                             |

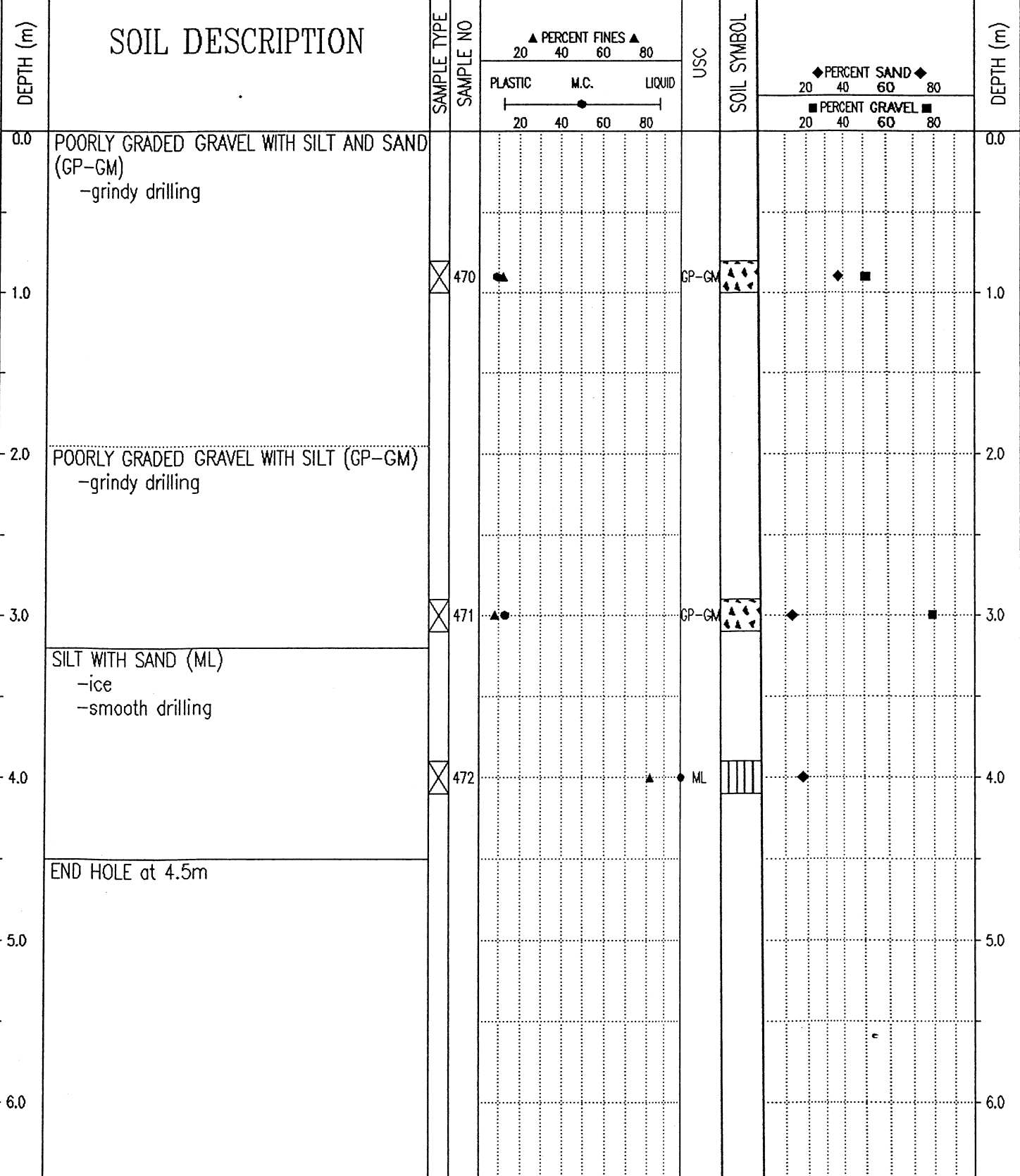


Government of Yukon  
Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.6 m  
COMPLETE: 93/09/24

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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Transportation Engineering

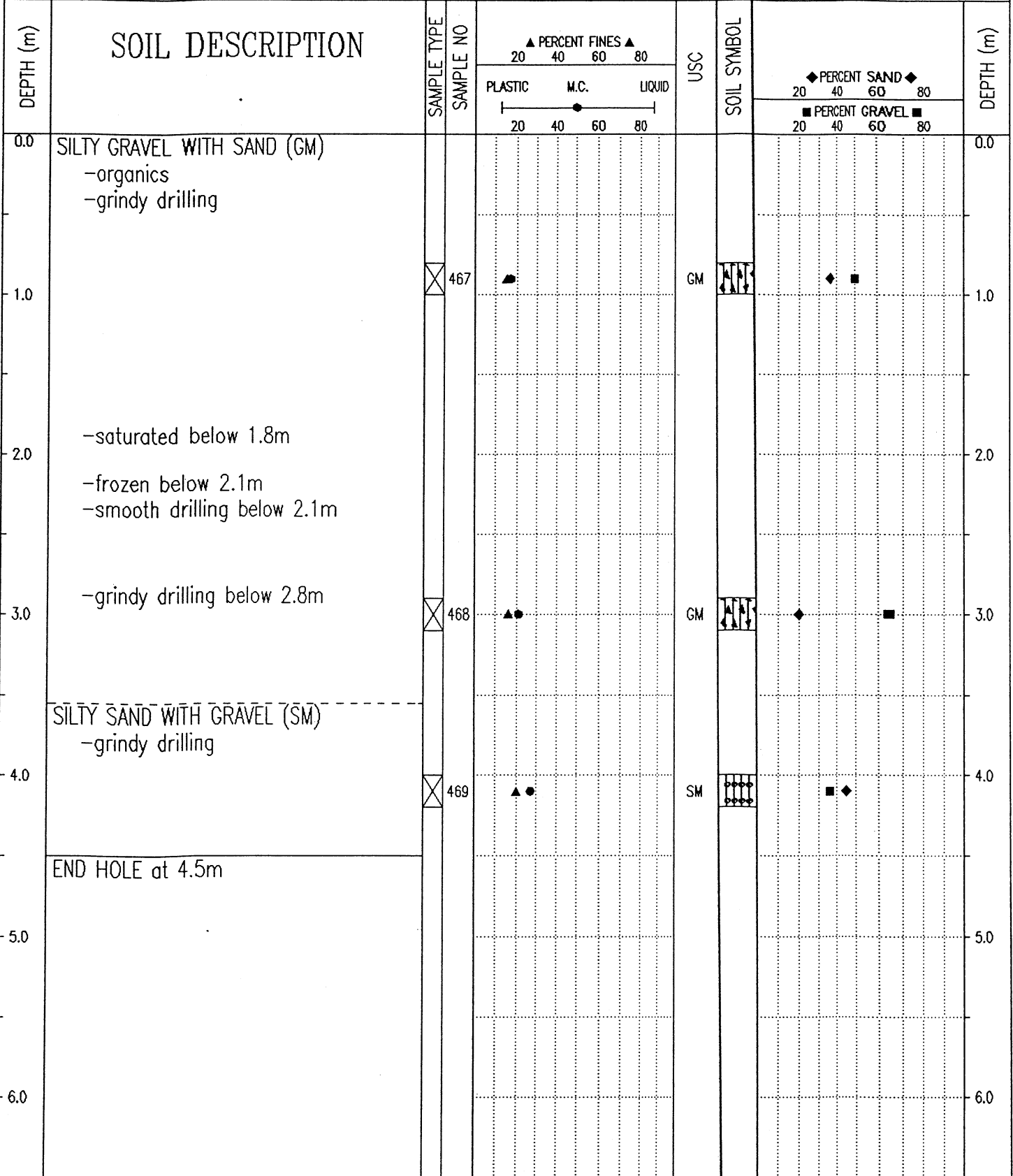
|               |                         |
|---------------|-------------------------|
| LOGGED BY: TF | COMPLETION DEPTH: 4.5 m |
| REVIEWED BY:  | COMPLETE: 93/09/24      |
| Fig. No:      | Page 1 of 1             |

SUBSURFACE EXPLORATION AND TEST REPORT ALASKA HIGHWAY PRE-ENGINEERING TEST HOLE NO: 253-188

SHAKWAK PROJECT SEGMENT 16 Project No: 202101-0312-193

DRILL: CME 750 150mm Dia SOLID STEM AUGER LOCATION: See Plan 1882+740 % 140m Lt ELEVATION: 0.00 (m)

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



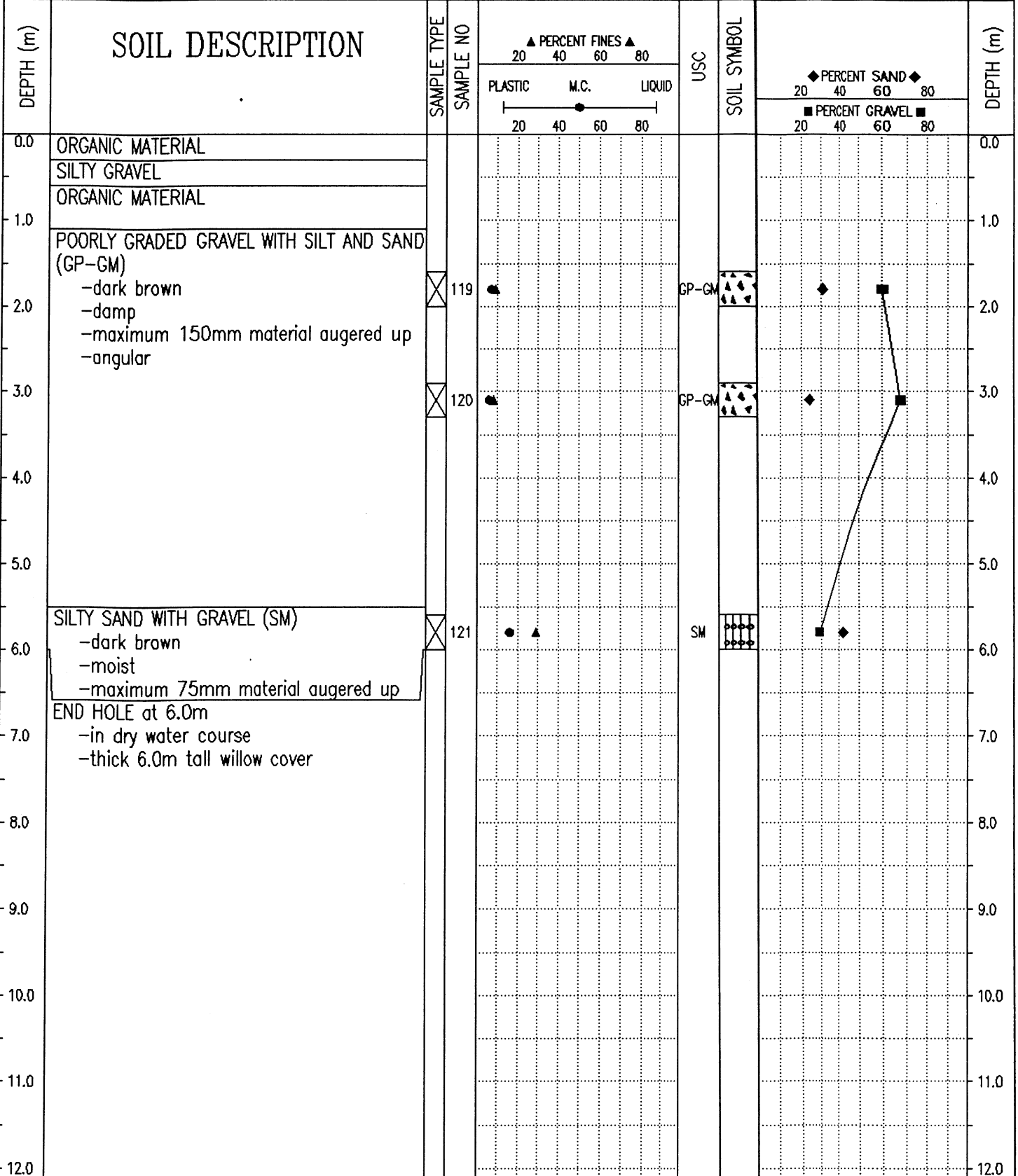
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Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 93/09/24

|  |                                       |                             |
|--|---------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY RE-CONSTRUCTION        | TEST PIT NO: 302-39         |
| SHAKWAK PROJECT                        | SEGMENT 16                            | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan 1892+806 2/4 6m Lt | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:  
COMPLETION DEPTH: 6.0 m  
COMPLETE: 94/07/19  
Page 1 of 1

|  |                                       |                             |
|--|---------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING        | TEST HOLE NO: 253-187       |
| SHAKWAK PROJECT  | SEGMENT 16                            | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: See Plan 1802+945 % 145m Lt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                       |                             |

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES ▲ |      |        | USC   | SOIL SYMBOL | PERCENT SAND ◆   |  |  | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-----------------|------|--------|-------|-------------|------------------|--|--|-----------|
|           |  |                                     |           | PLASTIC         | M.C. | LIQUID |       |             | PERCENT GRAVEL ■ |  |  |           |
| 0.0       | WELL-GRADED GRAVEL WITH SILT AND SAND (GW-GM)<br>-grindy drilling      |                                     |           |                 |      |        |       |             |                  |  |  | 0.0       |
| 1.0       |  | <input checked="" type="checkbox"/> | 466       | ▲               | ●    |        | GW-GM | ◆           | ■                |  |  | 1.0       |
| 2.0       | -no fines augering up below 1.6m<br>-maximum 50mm material augering up |                                     |           |                 |      |        |       |             |                  |  |  | 2.0       |
| 3.0       | END HOLE at 2.2m<br>-refusal   |                                     |           |                 |      |        |       |             |                  |  |  | 3.0       |
| 4.0       |  |                                     |           |                 |      |        |       |             |                  |  |  | 4.0       |
| 5.0       |  |                                     |           |                 |      |        |       |             |                  |  |  | 5.0       |
| 6.0       |  |                                     |           |                 |      |        |       |             |                  |  |  | 6.0       |

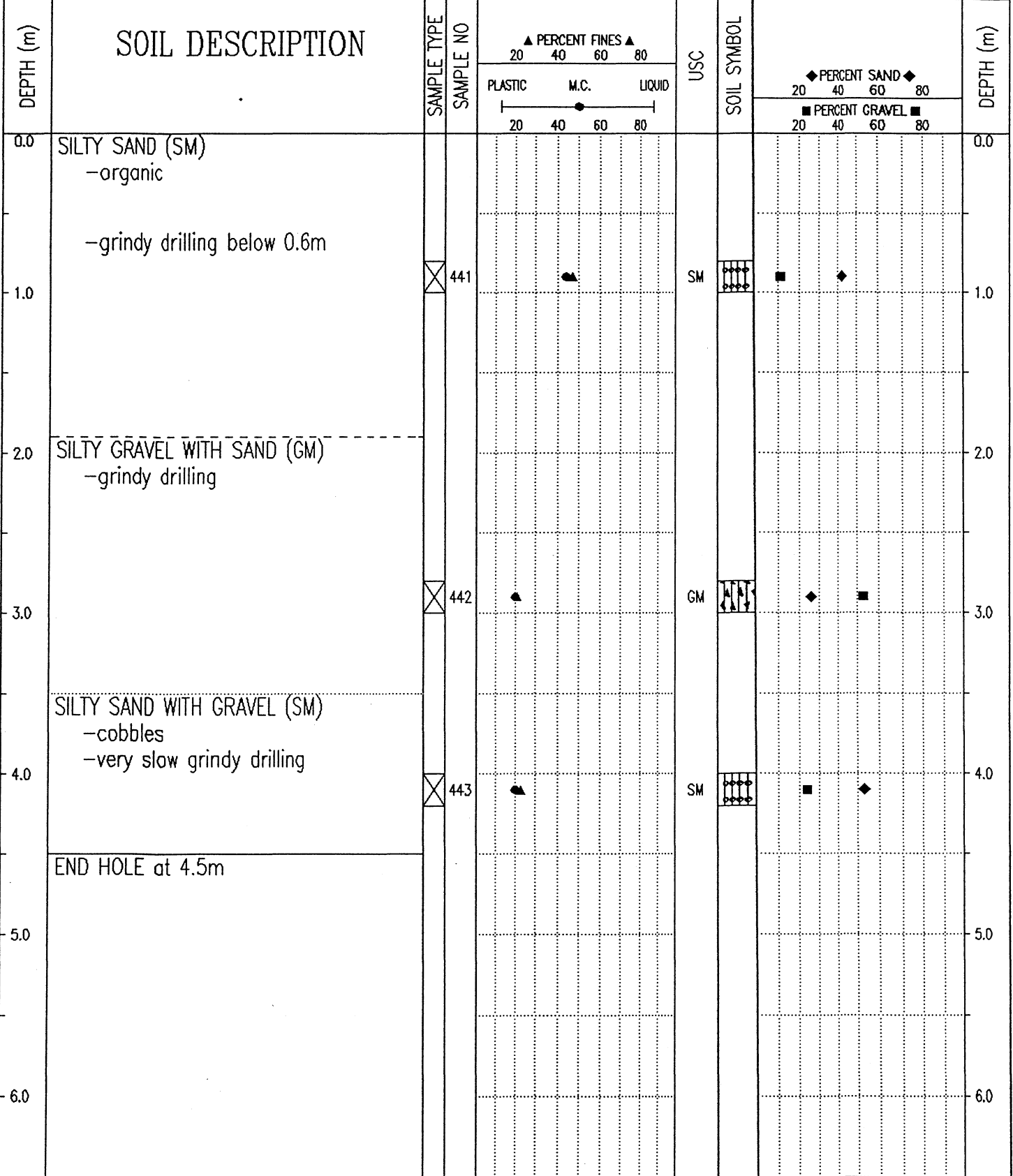
|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 2.2 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/24      |
|   | Fig. No:      | Page 1 of 1             |

|  |                                      |                             |
|--|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY RE-CONSTRUCTION       | TEST PIT NO: 302-34         |
| SHAKWAK PROJECT  | SEGMENT 16                           | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER   | LOCATION: See Plan 1883+007 & 70m Lt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                      |                             |

| DEPTH (m) | SOIL DESCRIPTION             | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|------------------------------|-------------|-----------|-------------------|------|--------|-----|-------------|------------------|----|-----------|
|           |                              |             |           | PLASTIC           | M.C. | LIQUID |     |             | 20               | 40 |           |
| 0.0       | ORGANIC MATERIAL             |             |           |                   |      |        |     |             |                  |    | 0.0       |
| 1.0       |                              |             |           |                   |      |        |     |             |                  |    | 1.0       |
| 2.0       | END HOLE at 1.5m<br>-refusal |             |           |                   |      |        |     |             |                  |    | 2.0       |
| 3.0       |                              |             |           |                   |      |        |     |             |                  |    | 3.0       |
| 4.0       |                              |             |           |                   |      |        |     |             |                  |    | 4.0       |
| 5.0       |                              |             |           |                   |      |        |     |             |                  |    | 5.0       |
| 6.0       |                              |             |           |                   |      |        |     |             |                  |    | 6.0       |

|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 1.5 m |
|   | REVIEWED BY:  | COMPLETE: 94/07/12      |
|   | Fig. No:      | Page 1 of 1             |

|  |                                 |                             |
|--|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 253-178       |
| SHAKWAK PROJECT  | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1883+100 o/s Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                 |                             |



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Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 93/09/23

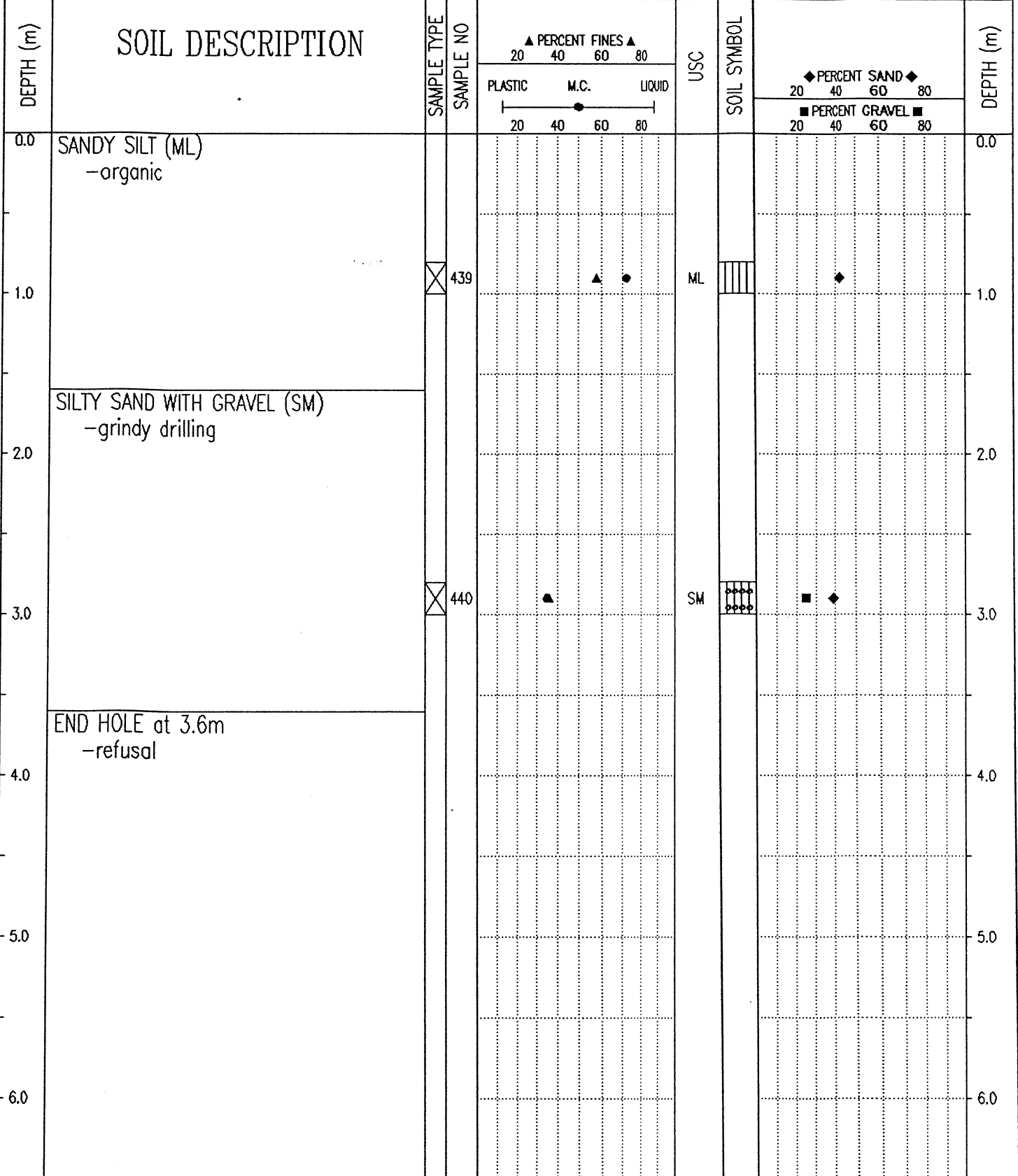
| SUBSURFACE EXPLORATION AND TEST REPORT    |   | ALASKA HIGHWAY PRE-ENGINEERING         |           | TEST HOLE NO: 253-186       |      |        |       |             |                  |    |    |           |
|---|---|--|-----------|-----------------------------|------|--------|-------|-------------|------------------|----|----|-----------|
| SHAKWAK PROJECT                           |   | SEGMENT 16                             |           | Project No: 202101-0312-193 |      |        |       |             |                  |    |    |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |   | LOCATION: See Plan 1883+145 ½ 145 m Lt |           | ELEVATION: 0.00 (m)         |      |        |       |             |                  |    |    |           |
| SAMPLE TYPE                               |   | RETURN                                 |           | S.P.T.                      |      |        |       |             |                  |    |    |           |
|   |   | AUGER                                  |           | BULK                        |      |        |       |             |                  |    |    |           |
|   |   | TUBE                                   |           | CORE                        |      |        |       |             |                  |    |    |           |
| DEPTH (m)                                 | SOIL DESCRIPTION                                | SAMPLE TYPE                            | SAMPLE NO | ▲ PERCENT FINES ▲           |      |        | USC   | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    |    | DEPTH (m) |
|   |   |  |           | PLASTIC                     | M.C. | LIQUID |       |             | 20               | 40 | 60 |           |
| 0.0                                       | POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM) |  |           |                             |      |        |       |             |                  |    |    | 0.0       |
| 1.0                                       |   | ⊗                                      | 463       | ●                           |      |        | GP-GM | ▲▲▲         | ◆                | ■  |    | 1.0       |
| 2.0                                       |   |  |           |                             |      |        |       |             |                  |    |    | 2.0       |
| 3.0                                       |   | ⊗                                      | 464       | ▲                           |      |        | GP-GM | ▲▲▲         | ◆                | ■  |    | 3.0       |
| 4.0                                       | SILTY SAND WITH GRAVEL (SM)                     | ⊗                                      | 465       | ●                           |      |        | SM    | ●●●●        | ■                | ◆  |    | 4.0       |
| 5.0                                       | END HOLE at 4.5m                                |  |           |                             |      |        |       |             |                  |    |    | 5.0       |
| 6.0                                       |   |  |           |                             |      |        |       |             |                  |    |    | 6.0       |

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 93/09/24

|   |  |                             |
|---|--|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING   | TEST HOLE NO: 253-177       |
| SHAKWAK PROJECT                           | SEGMENT 16   | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1883+200 o/s Lt.  | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE                               | <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                             |



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Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: TF | COMPLETION DEPTH: 3.6 m |
| REVIEWED BY:  | COMPLETE: 93/09/23      |
| Fig. No:      | Page 1 of 1             |

|  |  |                             |
|--|--|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY RE-CONSTRUCTION   | TEST PIT NO: 302-33         |
| SHAKWAK PROJECT                        | SEGMENT 16   | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan /893+275 % 38m 44   | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE                            | <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                             |

| DEPTH (m) | SOIL DESCRIPTION             | SAMPLE TYPE | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND |    | PERCENT GRAVEL |     | DEPTH (m) |
|-----------|------------------------------|-------------|-----------|---------------|------|--------|-----|-------------|--------------|----|----------------|-----|-----------|
|           |                              |             |           | PLASTIC       | M.C. | LIQUID |     |             | 20           | 40 | 60             | 80  |           |
| 0.0       | ORGANIC MATERIAL             |             |           |               |      |        |     |             |              |    |                | 0.0 |           |
| 1.0       | END HOLE at 0.8m<br>-refusal |             |           |               |      |        |     |             |              |    |                | 1.0 |           |
| 2.0       |                              |             |           |               |      |        |     |             |              |    |                | 2.0 |           |
| 3.0       |                              |             |           |               |      |        |     |             |              |    |                | 3.0 |           |
| 4.0       |                              |             |           |               |      |        |     |             |              |    |                | 4.0 |           |
| 5.0       |                              |             |           |               |      |        |     |             |              |    |                | 5.0 |           |
| 6.0       |                              |             |           |               |      |        |     |             |              |    |                | 6.0 |           |

|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 0.8 m |
|   | REVIEWED BY:  | COMPLETE: 94/07/12      |
|   | Fig. No:      | Page 1 of 1             |

|  |  |                             |
|--|--|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY RE-CONSTRUCTION         | TEST PIT NO: 302-36         |
| SHAKWAK PROJECT                        | SEGMENT 16                             | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan 1883 + 275 % 48m Lt | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|--|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|-----------|
|           |  |             |           | 20              | 40 | 60 |     |             | 80             | 20 |                  |           |
| 0.0       | ORGANIC MATERIAL   |             |           |                 |    |    |     |             |                |    |                  | 0.0       |
| 0.0 - 1.0 | GRAVELLY SILT<br>-dark brown<br>-frozen with visible ice |             |           |                 |    |    |     |             |                |    |                  | 1.0       |
| 2.0       | END HOLE at 2.0m<br>-refusal                             |             |           |                 |    |    |     |             |                |    |                  | 2.0       |
| 3.0       |  |             |           |                 |    |    |     |             |                |    |                  | 3.0       |
| 4.0       |  |             |           |                 |    |    |     |             |                |    |                  | 4.0       |
| 5.0       |  |             |           |                 |    |    |     |             |                |    |                  | 5.0       |
| 6.0       |  |             |           |                 |    |    |     |             |                |    |                  | 6.0       |

|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 2.0 m |
|   | REVIEWED BY:  | COMPLETE: 94/07/12      |
|   | Fig. No:      | Page 1 of 1             |

|   |  |                             |
|---|--|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING   | TEST HOLE NO: 253-176       |
| SHAKWAK PROJECT                           | SEGMENT 16   | Project No: 202101-0312-193 |
| DRILL: GME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1883+300 o/s Lt.  | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE                               | <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                             |

| DEPTH (m) | SOIL DESCRIPTION                         | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND / GRAVEL |                |     | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|---------------|------|--------|-----|-------------|-----------------------|----------------|-----|-----------|
|           |  |                                     |           | PLASTIC       | M.C. | LIQUID |     |             | PERCENT SAND          | PERCENT GRAVEL |     |           |
| 0.0       | ORGANIC MATERIAL<br>-silt with sand (ML) |                                     |           |               |      |        |     |             |                       |                | 0.0 |           |
| 1.0       | -frozen below 0.8m                       | <input checked="" type="checkbox"/> | 438       |               |      |        | ML  |             |                       |                | 1.0 |           |
| 3.0       | SILTY SANDY GRAVEL<br>-grindy drilling   |                                     |           |               |      |        |     |             |                       |                | 3.0 |           |
| 4.0       | END HOLE at 3.8m<br>-refusal             |                                     |           |               |      |        |     |             |                       |                | 4.0 |           |
| 5.0       |  |                                     |           |               |      |        |     |             |                       |                | 5.0 |           |
| 6.0       |  |                                     |           |               |      |        |     |             |                       |                | 6.0 |           |

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Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.8 m  
COMPLETE: 93/09/23

|  |                                      |                             |
|--|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY RE-CONSTRUCTION       | TEST PIT NO: 302-32         |
| SHAKWAK PROJECT                        | SEGMENT 16                           | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan 1833+310 % 30m Lt | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION                | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|---------------------------------|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|-----------|
|           |                                 |             |           | 20              | 40 | 60 |     |             | 80             | 20 |                  |           |
| 0.0       | ORGANIC MATERIAL                |             |           |                 |    |    |     |             |                |    |                  | 0.0       |
| 0.0 - 1.0 | GRAVELLY CLAY<br>-gray<br>-damp |             |           |                 |    |    |     |             |                |    |                  | 1.0       |
| 1.0 - 1.2 | END HOLE at 1.2m<br>-refusal    |             |           |                 |    |    |     |             |                |    |                  | 1.2       |
| 1.2 - 2.0 |                                 |             |           |                 |    |    |     |             |                |    |                  | 2.0       |
| 2.0 - 3.0 |                                 |             |           |                 |    |    |     |             |                |    |                  | 3.0       |
| 3.0 - 4.0 |                                 |             |           |                 |    |    |     |             |                |    |                  | 4.0       |
| 4.0 - 5.0 |                                 |             |           |                 |    |    |     |             |                |    |                  | 5.0       |
| 5.0 - 6.0 |                                 |             |           |                 |    |    |     |             |                |    |                  | 6.0       |

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|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 1.2 m |
|   | REVIEWED BY:  | COMPLETE: 94/07/12      |
|   | Fig. No:      | Page 1 of 1             |

|  |  |                             |
|--|--|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY RE-CONSTRUCTION   | TEST PIT NO: 302-35         |
| SHAKWAK PROJECT                        | SEGMENT 16   | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan 1883 + 310 % 42m Lt   | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE                            | <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                             |

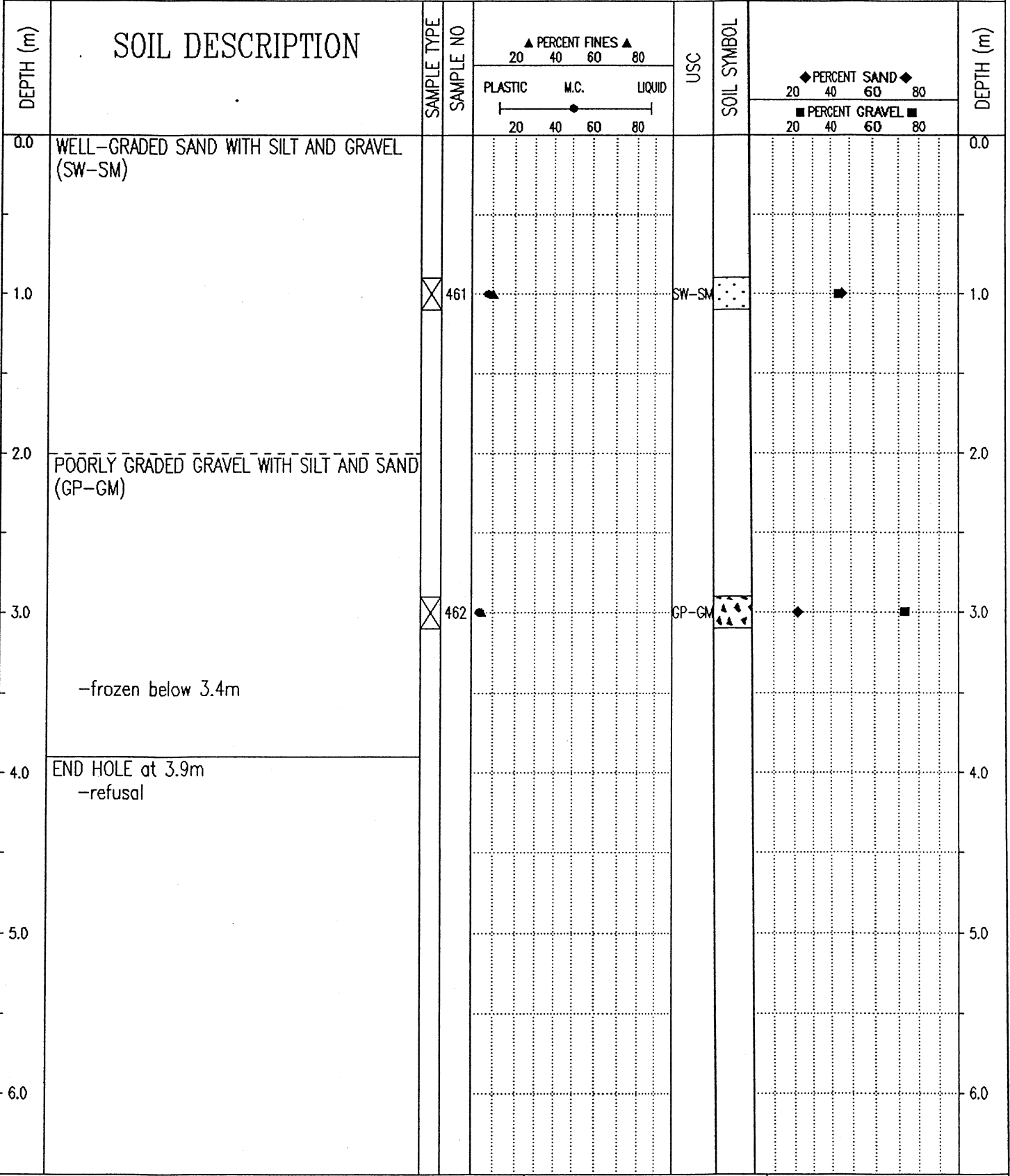
| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |  | DEPTH (m) |
|-----------|---|-------------|-----------|-------------------|------|--------|-----|-------------|------------------|--|-----------|
|           |   |             |           | PLASTIC           | M.C. | LIQUID |     |             | PERCENT GRAVEL ■ |  |           |
| 0.0       | ORGANIC SILT  |             |           |                   |      |        |     |             |                  |  | 0.0       |
| 1.0       |   |             |           |                   |      |        |     |             |                  |  | 1.0       |
| 2.0       |   |             |           |                   |      |        |     |             |                  |  | 2.0       |
| 3.0       | SILTY GRAVEL WITH SAND (GM)<br>-gray<br>-moist<br>-maximum 25mm material augered up<br>-angular |             |           |                   |      |        |     |             |                  |  | 3.0       |
| 4.0       |   |             |           |                   |      |        |     |             |                  |  | 4.0       |
| 5.0       |   |             | 109       | ●                 | ▲    |        | GM  | ◆           | ■                |  | 5.0       |
| 6.0       | END HOLE at 6.0m<br>-refusal  |             |           |                   |      |        |     |             |                  |  | 6.0       |

Government of Yukon  
Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 6.0 m  
COMPLETE: 94/07/12

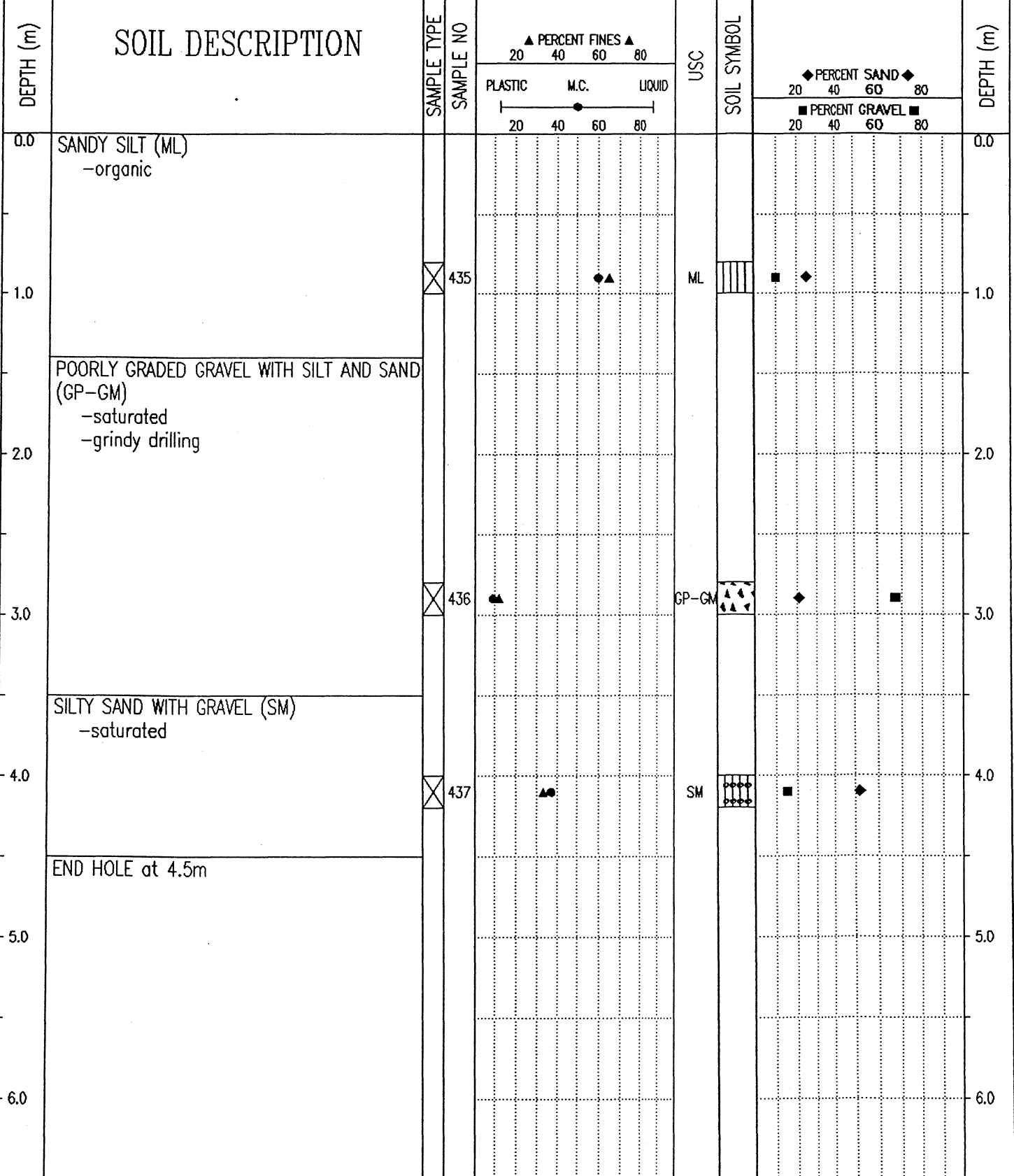
|  |   |                             |
|--|---|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING                    | TEST HOLE NO: 253-185       |
| SHAKWAK PROJECT  | SEGMENT 16  | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: See Plan 1883+390 $\frac{1}{4}$ 150m Lt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |   |                             |



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Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: TF | COMPLETION DEPTH: 3.9 m |
| REVIEWED BY:  | COMPLETE: 93/09/24      |
| Fig. No:      | Page 1 of 1             |

|   |  |  |   |
|---|--|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT    |  | ALASKA HIGHWAY PRE-ENGINEERING             | TEST HOLE NO: 253-175                     |
| SHAKWAK PROJECT                           |  | SEGMENT 16                                 | Project No: 202101-0312-193               |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |  | LOCATION: Sta. 1883+400 o/s Lt.            | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE                               | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|   |  | <input type="checkbox"/> BULK              | <input type="checkbox"/> TUBE             |
|   |  |  | <input type="checkbox"/> CORE             |

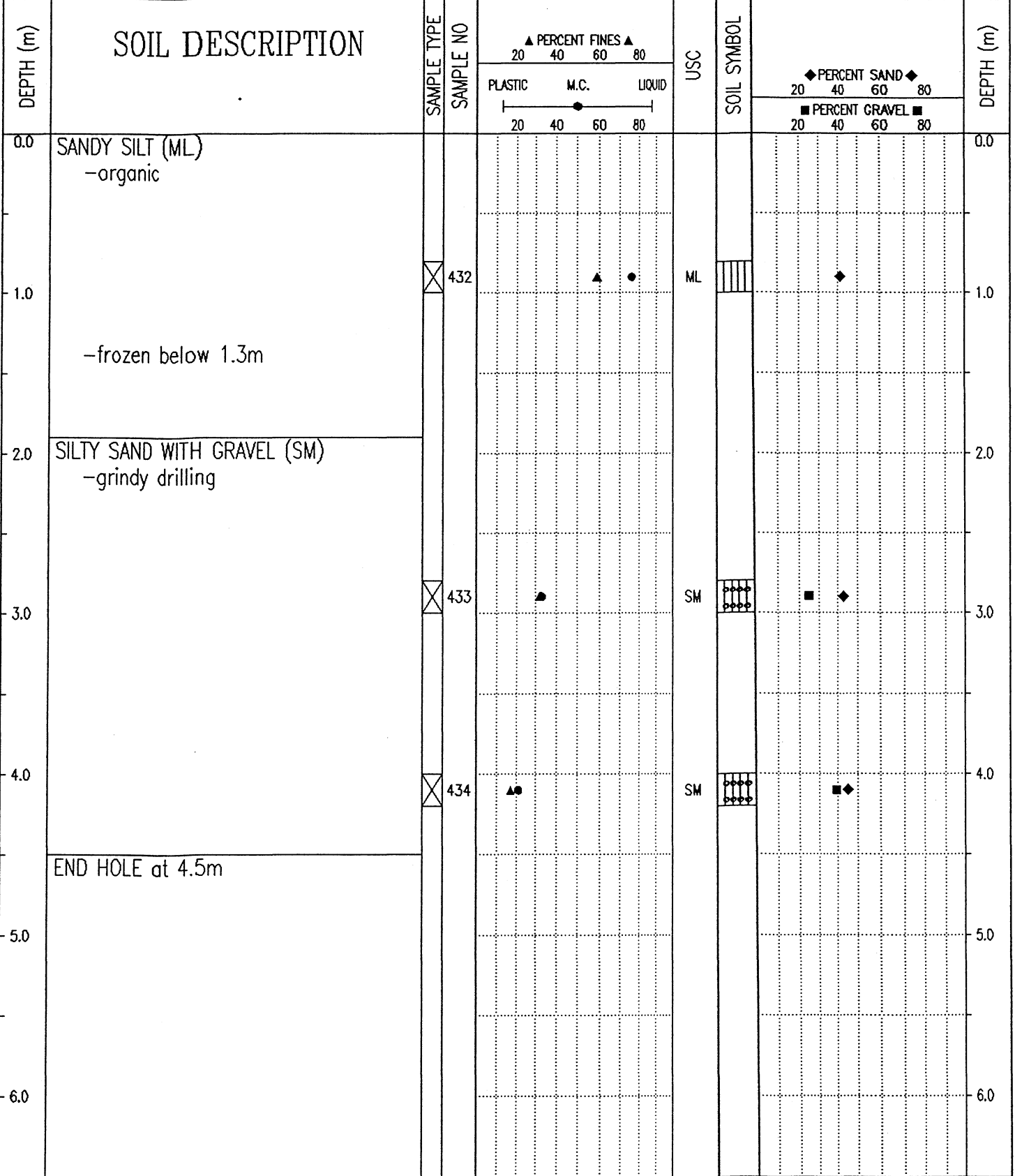


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Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 93/09/23

|   |                                 |                             |
|---|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 253-174       |
| SHAKWAK PROJECT   | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER   | LOCATION: Sta. 1883+500 o/s Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                 |                             |



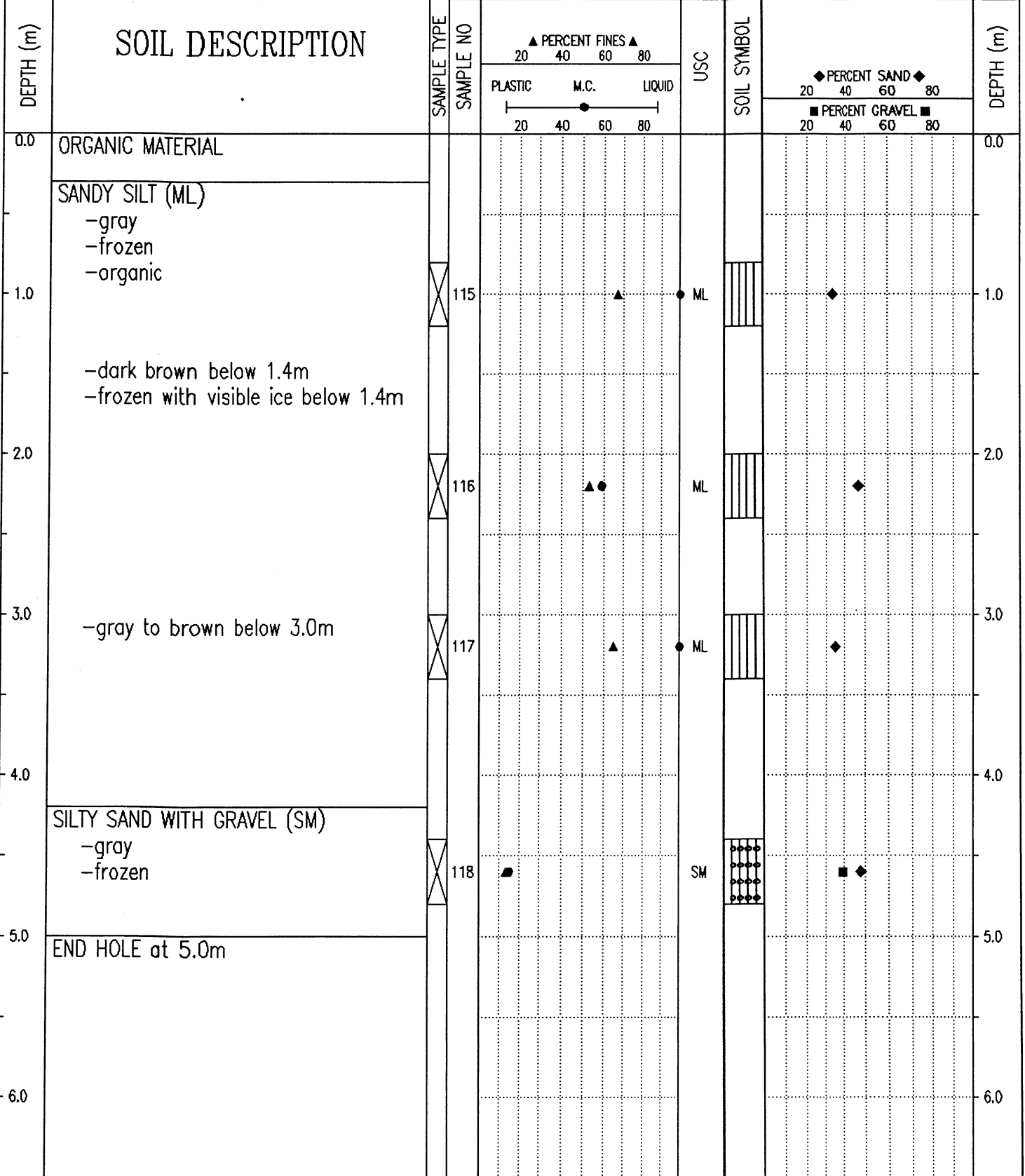
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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 93/09/23

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| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY RE-CONSTRUCTION | TEST PIT NO: 302-38         |
| SHAKWAK PROJECT                        | SEGMENT 16                     | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan 1883 + 554  | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

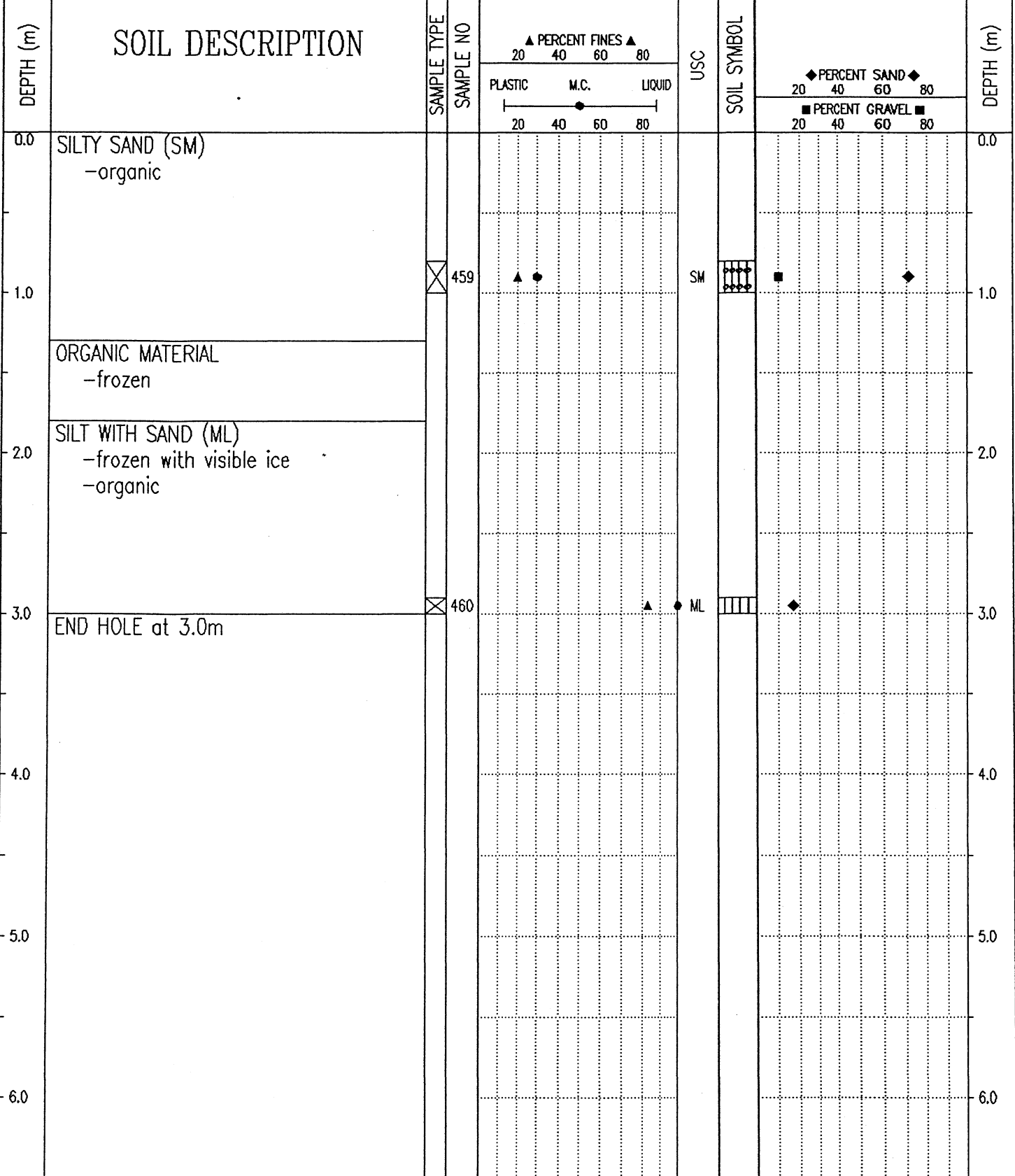


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REVIEWED BY:  
Fig. No:

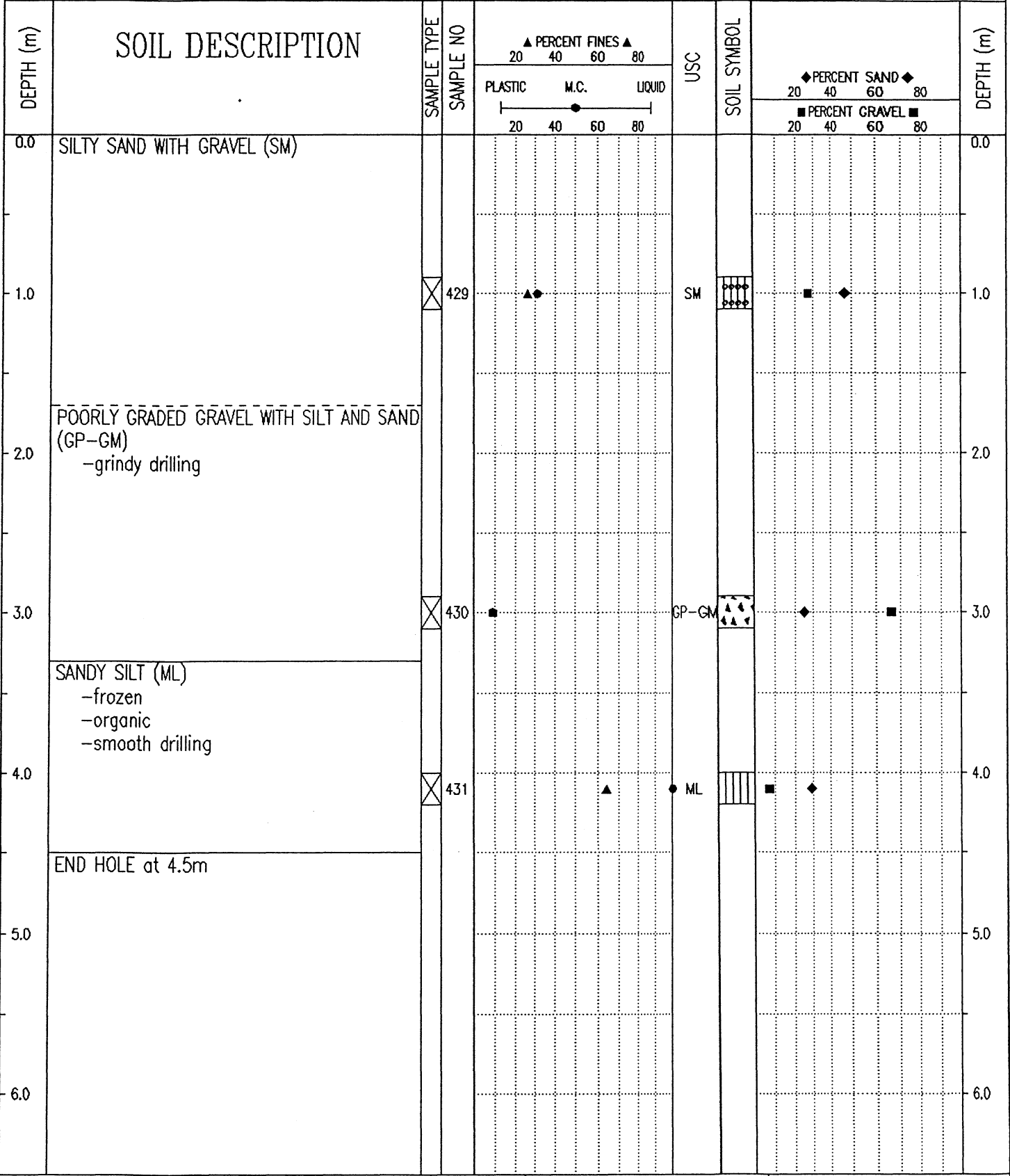
COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/07/13

|   |  |   |   |
|---|--|---|---|
| SUBSURFACE EXPLORATION AND TEST REPORT    |  | ALASKA HIGHWAY PRE-ENGINEERING                  | TEST HOLE NO: 253-184                     |
| SHAKWAK PROJECT                           |  | SEGMENT 16                                      | Project No: 202101-0312-193               |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |  | LOCATION: See Plan 1883+590 $\frac{1}{100m}$ Lt | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE                               | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T.      | <input checked="" type="checkbox"/> AUGER |
|   |  |   | <input type="checkbox"/> BULK             |
|   |  |   | <input type="checkbox"/> TUBE             |
|   |  |   | <input type="checkbox"/> CORE             |



|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 3.0 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/24      |
|   | Fig. No:      | Page 1 of 1             |

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|---|--|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING   | TEST HOLE NO: 253-173       |
| SHAKWAK PROJECT                           | SEGMENT 16   | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1883+600 o/s Lt.  | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE                               | <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                             |



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| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 4.5 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/23      |
|   | Fig. No:      | Page 1 of 1             |

|   |                                      |                             |
|---|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  | ALASKA HIGHWAY PRE-ENGINEERING       | TEST HOLE NO: 253-183       |
| SHAKWAK PROJECT   | SEGMENT 16                           | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER   | LOCATION: See Plan 1883+680 % 85m Lt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                      |                             |

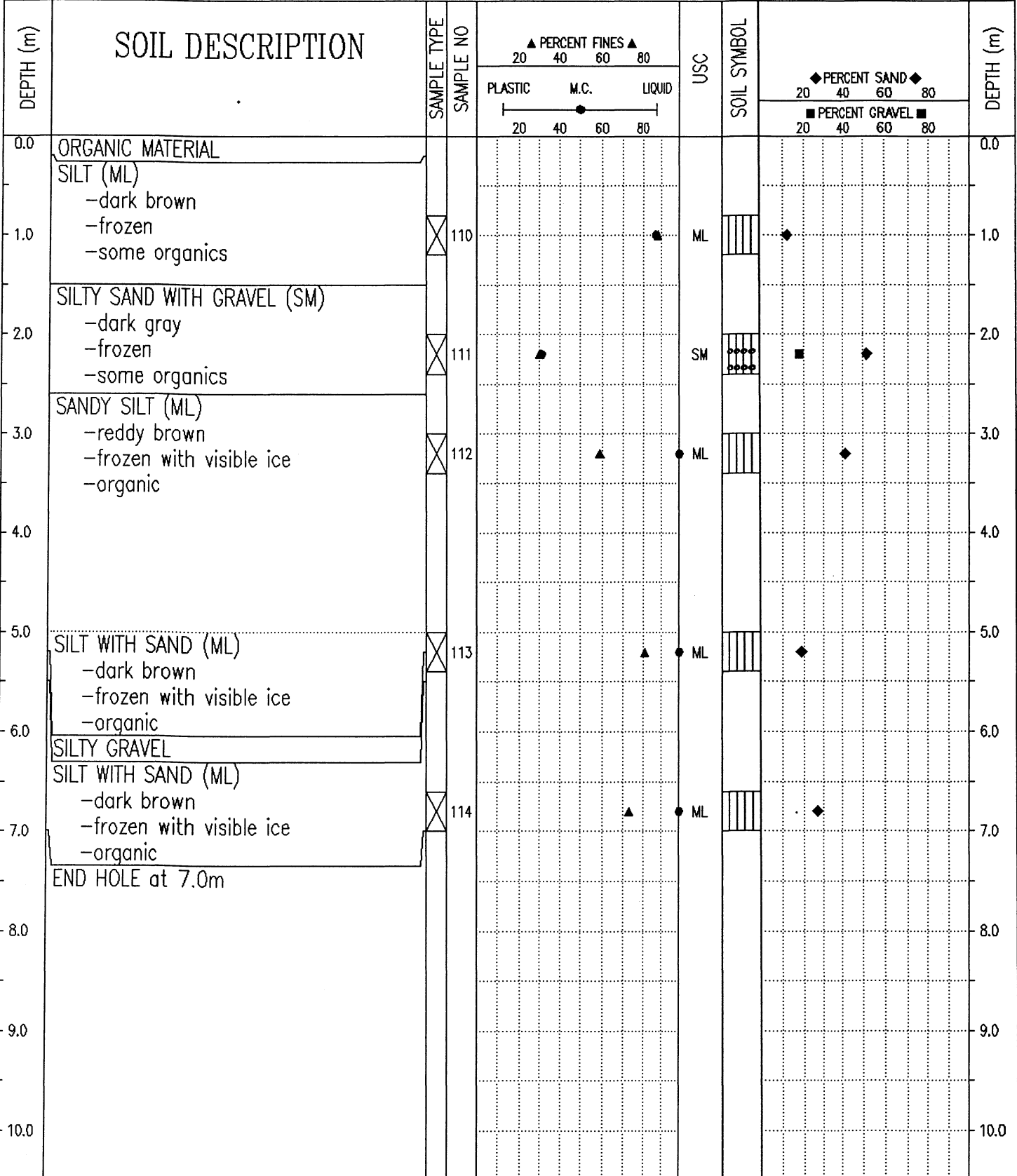


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Transportation Engineering

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| LOGGED BY: TF | COMPLETION DEPTH: 4.5 m |
| REVIEWED BY:  | COMPLETE: 93/09/24      |
| Fig. No:      | Page 1 of 1             |

|  |                                |                             |
|--|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY RE-CONSTRUCTION | TEST HOLE NO: 302-37        |
| SHAKWAK PROJECT                        | SEGMENT 16                     | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan 1883 + 700  | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 7.0 m

COMPLETE: 94/07/13

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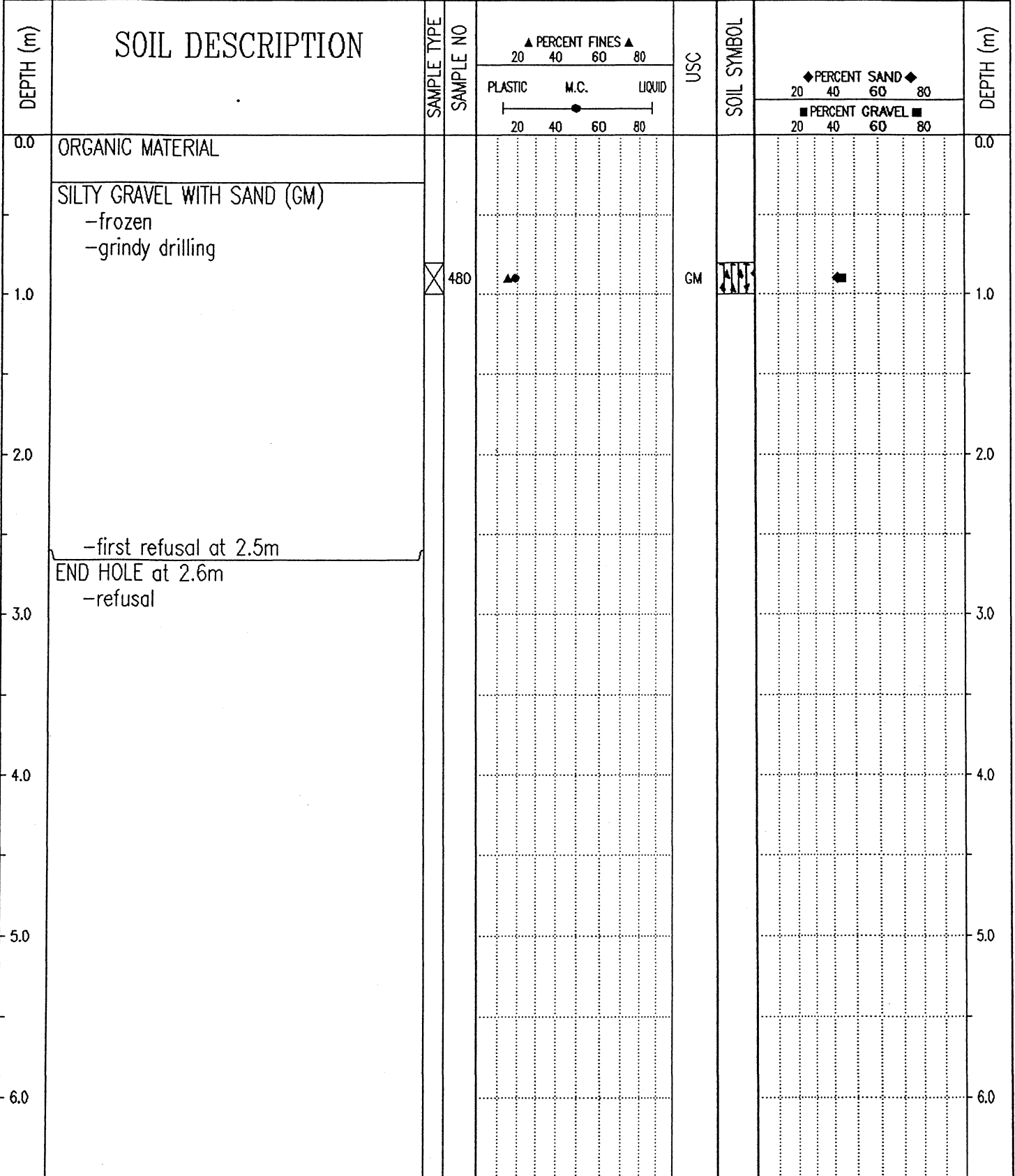
| SUBSURFACE EXPLORATION AND TEST REPORT   |   | ALASKA HIGHWAY PRE-ENGINEERING      |           | TEST HOLE NO: 253-172       |      |        |     |             |              |    |    |                |           |
|--|---|-------------------------------------|-----------|-----------------------------|------|--------|-----|-------------|--------------|----|----|----------------|-----------|
| SHAKWAK PROJECT  |   | SEGMENT 16                          |           | Project No: 202101-0312-193 |      |        |     |             |              |    |    |                |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  |   | LOCATION: Sta. 1883+700 o/s Lt.     |           | ELEVATION: 0.00 (m)         |      |        |     |             |              |    |    |                |           |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |   |                                     |           |                             |      |        |     |             |              |    |    |                |           |
| DEPTH (m)  | SOIL DESCRIPTION                                  | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES               |      |        | USC | SOIL SYMBOL | PERCENT SAND |    |    | PERCENT GRAVEL | DEPTH (m) |
|  |   |                                     |           | PLASTIC                     | M.C. | LIQUID |     |             | 20           | 40 | 60 |                |           |
| 0.0  | SILTY GRAVEL WITH SAND (GM)                       |                                     |           |                             |      |        |     |             |              |    |    |                | 0.0       |
| 1.0  | SILT<br>-saturated                                | <input checked="" type="checkbox"/> | 428       | ●                           | ▲    |        | GM  |             | ◆            | ■  |    |                | 1.0       |
| 2.0  | SANDY SILT<br>-grindy drilling                    |                                     |           |                             |      |        |     |             |              |    |    |                | 2.0       |
| 3.0  | -frozen below 3.2m<br>-smooth drilling below 3.2m |                                     |           |                             |      |        |     |             |              |    |    |                | 3.0       |
| 4.0  | END HOLE at 3.9m<br>-refusal                      |                                     |           |                             |      |        |     |             |              |    |    |                | 4.0       |
| 5.0  |   |                                     |           |                             |      |        |     |             |              |    |    |                | 5.0       |
| 6.0  |   |                                     |           |                             |      |        |     |             |              |    |    |                | 6.0       |

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.9 m  
COMPLETE: 93/09/23

|   |   |                             |
|---|---|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  | ALASKA HIGHWAY PRE-ENGINEERING          | TEST HOLE NO: 253-196       |
| SHAKWAK PROJECT   | SEGMENT 16                              | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER   | LOCATION: See Plan 1883+735 1/4 135m Lt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |   |                             |



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Transportation Engineering

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 2.6 m  
COMPLETE: 93/09/25

|   |  |                             |
|---|--|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING   | TEST HOLE NO: 253-197       |
| SHAKWAK PROJECT                           | SEGMENT 16   | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: See Plan 1883+735 %/185m Lt  | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE                               | <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                             |

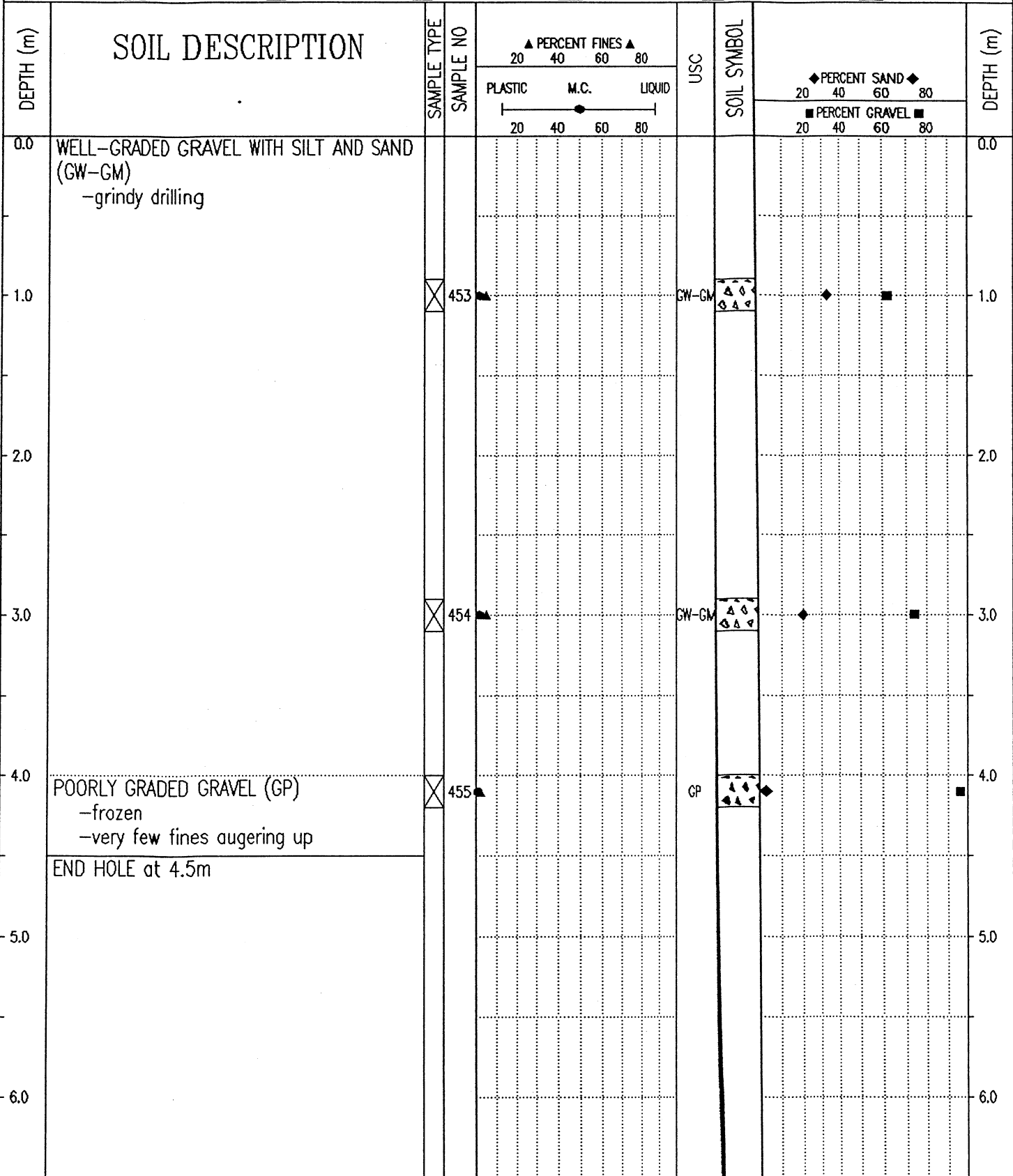
| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|------------------|-----------|
|           |  |                                     |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 |                  |           |
| 0.0       | ORGANIC MATERIAL   |                                     |           |                 |      |        |     |             |                |    |                  | 0.0       |
|           | POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM)<br>-frozen<br>-grindy drilling |                                     |           |                 |      |        |     |             |                |    |                  |           |
| 1.0       |  | <input checked="" type="checkbox"/> | 481       |                 |      |        |     | GP-GM       |                |    |                  | 1.0       |
| 2.0       | END HOLE at 1.8m<br>-refusal   |                                     |           |                 |      |        |     |             |                |    |                  | 2.0       |
| 3.0       |  |                                     |           |                 |      |        |     |             |                |    |                  | 3.0       |
| 4.0       |  |                                     |           |                 |      |        |     |             |                |    |                  | 4.0       |
| 5.0       |  |                                     |           |                 |      |        |     |             |                |    |                  | 5.0       |
| 6.0       |  |                                     |           |                 |      |        |     |             |                |    |                  | 6.0       |

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Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.8 m  
COMPLETE: 93/09/25

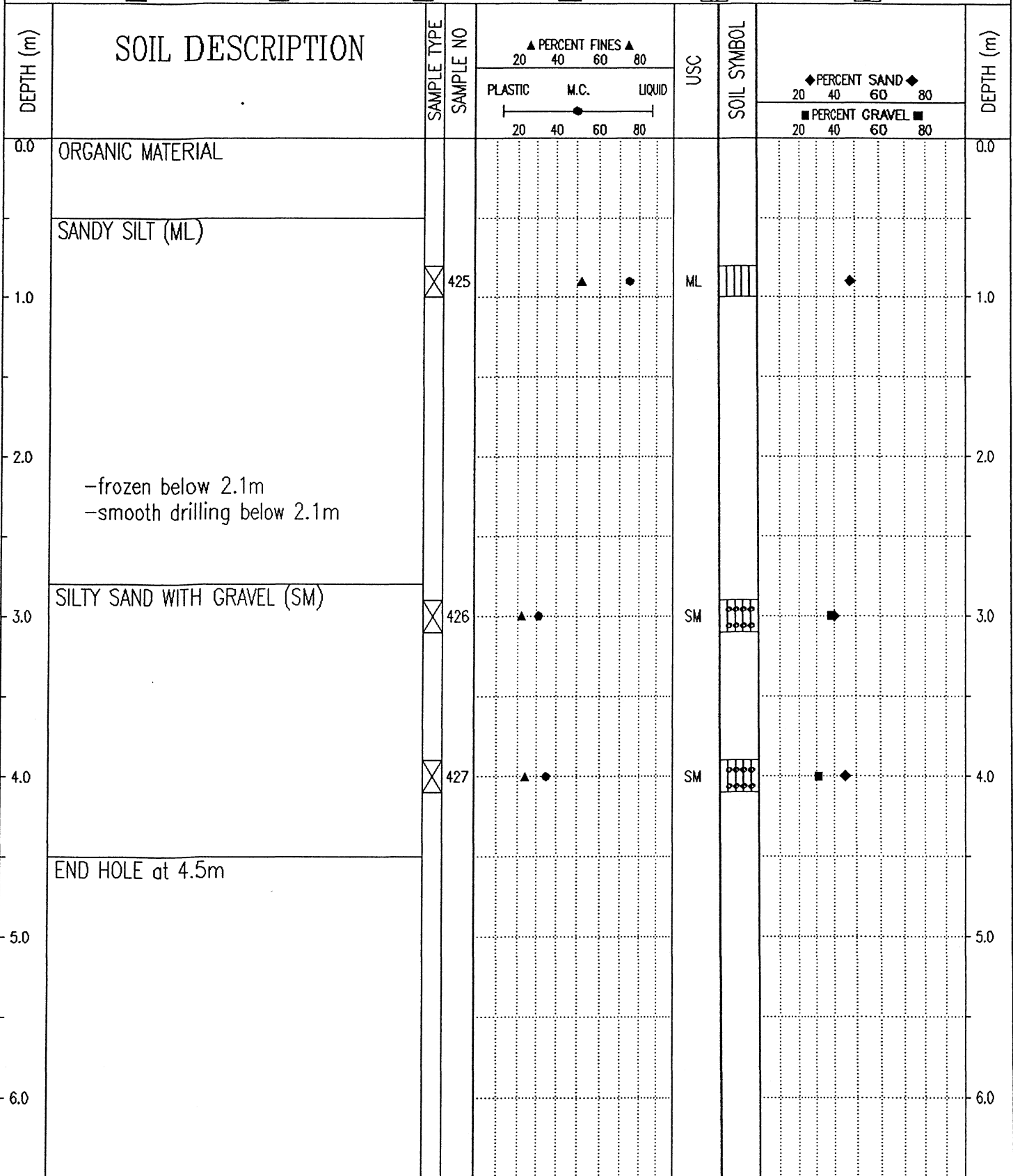
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|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING      | TEST HOLE NO: 253-182       |
| SHAKWAK PROJECT  | SEGMENT 16                          | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: See Plan 1883+775 % 62 LL | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |



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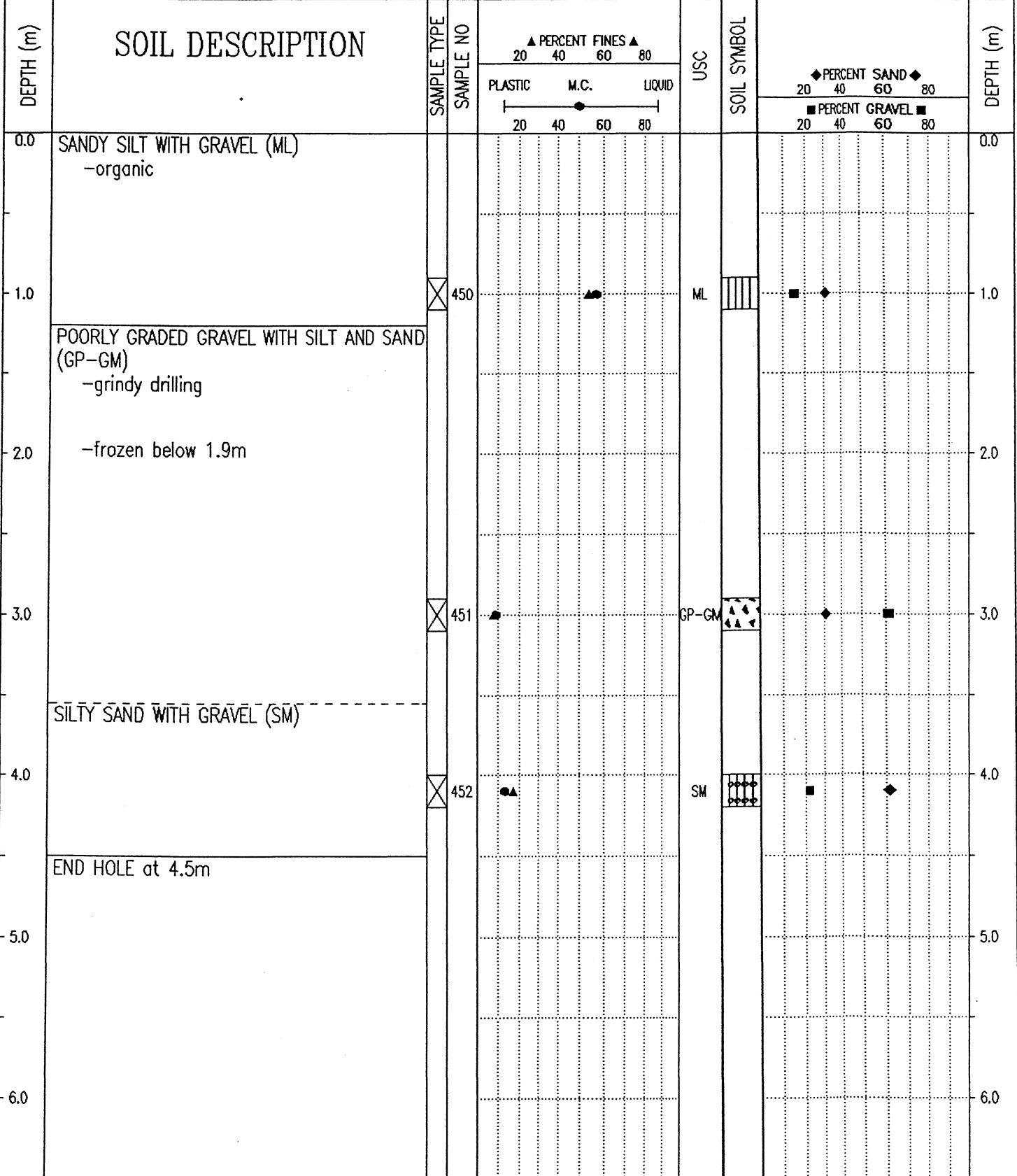
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| LOGGED BY: TF | COMPLETION DEPTH: 4.5 m |
| REVIEWED BY:  | COMPLETE: 93/09/24      |
| Fig. No:      | Page 1 of 1             |

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|--|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 253-171       |
| SHAKWAK PROJECT  | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1883+800 o/s Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                 |                             |



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| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 4.5 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/23      |
|   | Fig. No:      | Page 1 of 1             |

|   |                                      |                             |
|---|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  | ALASKA HIGHWAY PRE-ENGINEERING       | TEST HOLE NO: 253-181       |
| SHAKWAK PROJECT   | SEGMENT 16                           | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER   | LOCATION: See Plan 1883+865 % 43m Lt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                      |                             |

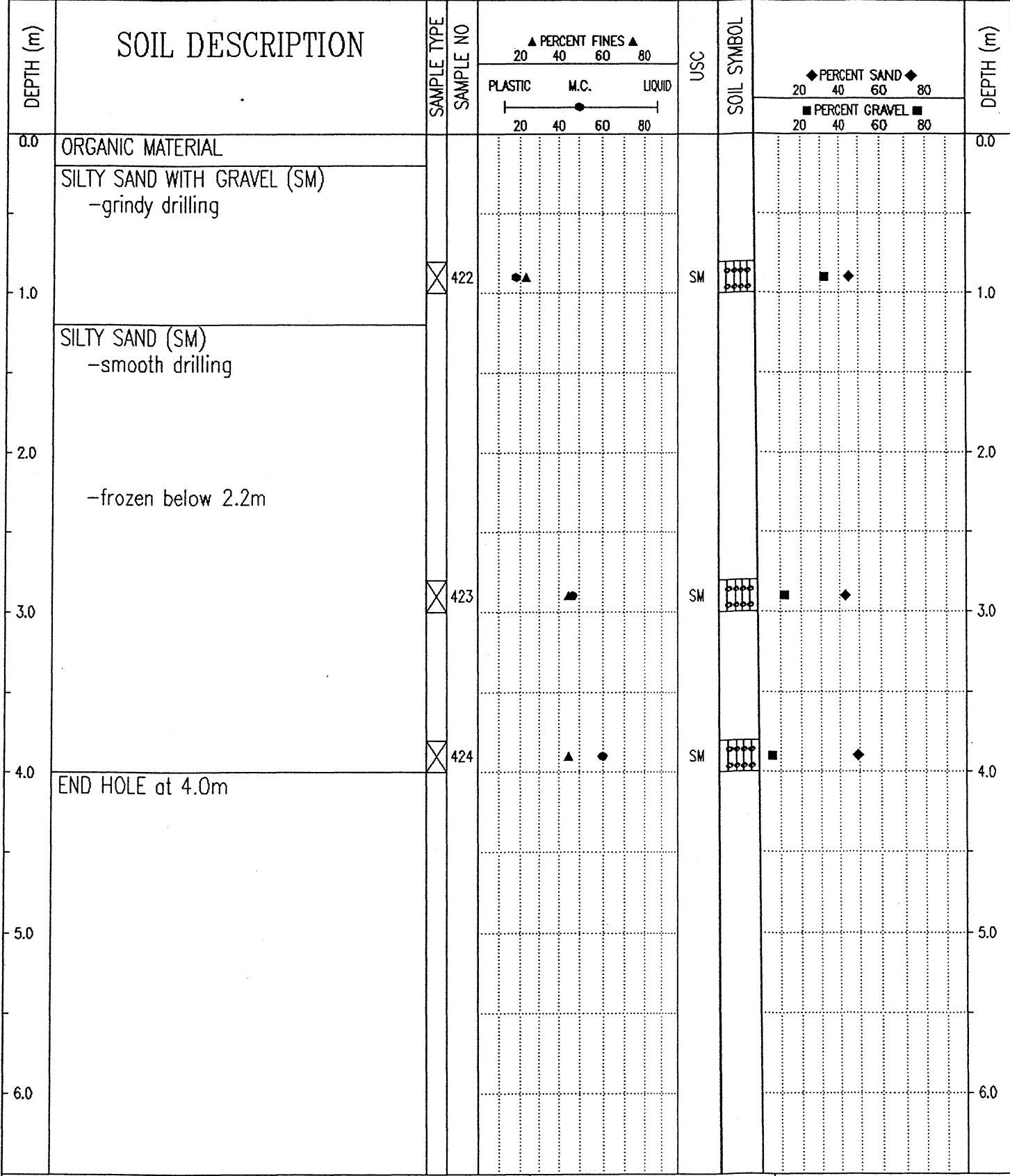


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Transportation Engineering

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 93/09/24

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| SUBSURFACE EXPLORATION AND TEST REPORT  | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 253-170       |
| SHAKWAK PROJECT   | SEGMENT 16                      | Project No: 202101-Q312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER   | LOCATION: Sta. 1883+900 o/s Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                 |                             |

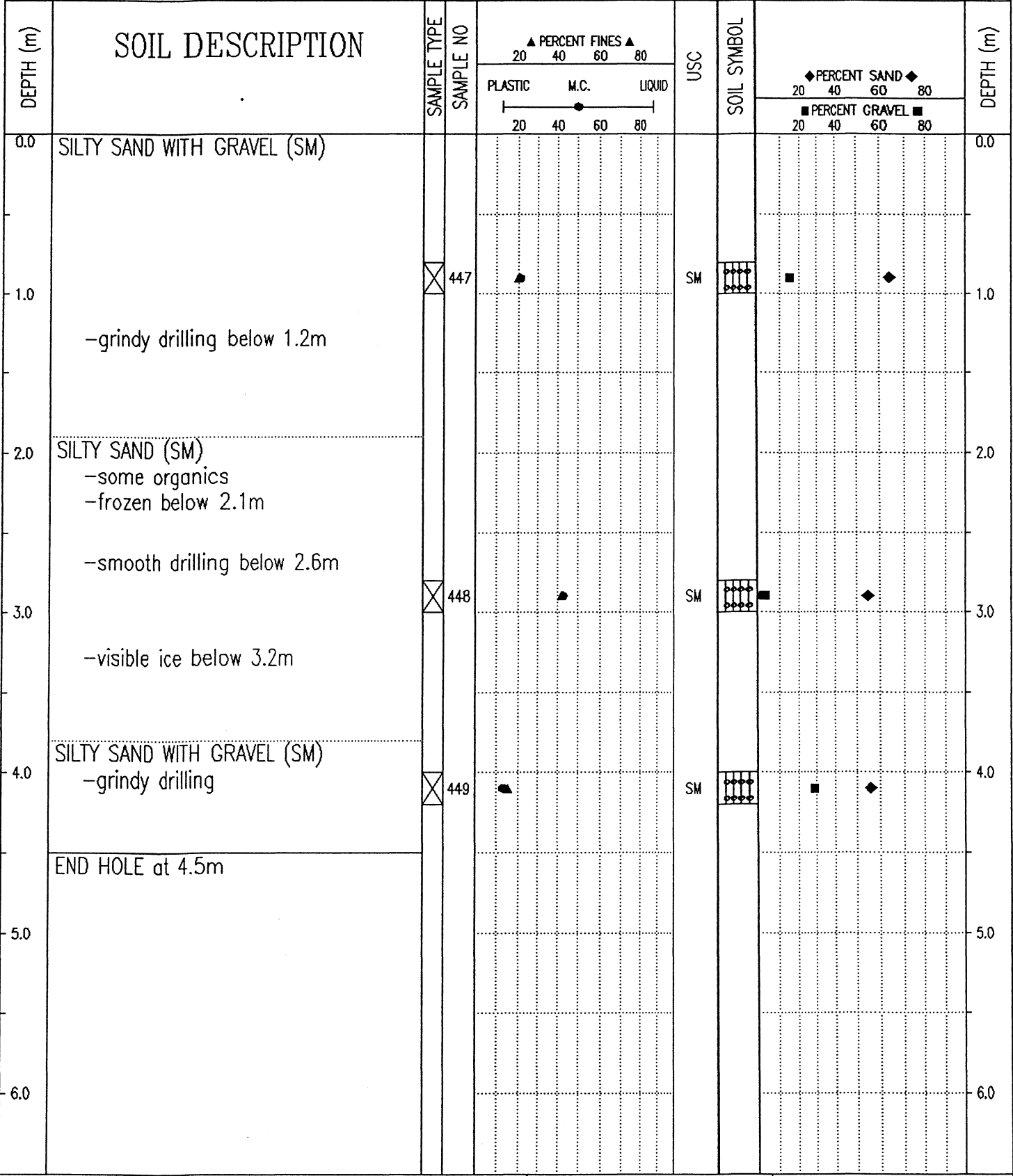


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Transportation Engineering

LOGGED BY: TF  
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Fig. No:

COMPLETION DEPTH: 4.0 m  
COMPLETE: 93/09/23

|  |                                       |                             |
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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING        | TEST HOLE NO: 253-180       |
| SHAKWAK PROJECT  | SEGMENT 16                            | Project No: 202101-Q312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: See Plan 1883+ 970 % 36m Lt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                       |                             |



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Transportation Engineering

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| LOGGED BY: TF | COMPLETION DEPTH: 4.5 m |
| REVIEWED BY:  | COMPLETE: 93/09/24      |
| Fig. No:      | Page 1 of 1             |

| SUBSURFACE EXPLORATION AND TEST REPORT                 |  | ALASKA HIGHWAY PRE-ENGINEERING             |           | TEST HOLE NO: 253-169                     |      |                         |     |             |                |   |     |           |
|--|--|--|-----------|---|------|-------------------------|-----|-------------|----------------|---|-----|-----------|
| SHAKWAK PROJECT  |  | SEGMENT 16                                 |           | Project No: 202101-0312-193               |      |                         |     |             |                |   |     |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER              |  | LOCATION: Sta. 1884+000 o/s Lt.            |           | ELEVATION: 0.00 (m)                       |      |                         |     |             |                |   |     |           |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN |  | <input checked="" type="checkbox"/> S.P.T. |           | <input checked="" type="checkbox"/> AUGER |      |                         |     |             |                |   |     |           |
|  |  | <input type="checkbox"/> BULK              |           | <input type="checkbox"/> TUBE             |      |                         |     |             |                |   |     |           |
|  |  |  |           | <input type="checkbox"/> CORE             |      |                         |     |             |                |   |     |           |
| DEPTH (m)  | SOIL DESCRIPTION   | SAMPLE TYPE                                | SAMPLE NO | PERCENT FINES                             |      |                         | USC | SOIL SYMBOL | PERCENT SAND   |   |     | DEPTH (m) |
|  |  |  |           | PLASTIC                                   | M.C. | LIQUID                  |     |             | PERCENT GRAVEL |   |     |           |
| 0.0  | ORGANIC MATERIAL   |  |           |   |      |                         |     |             |                |   | 0.0 |           |
| 1.0  | POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM)<br>-saturated<br>-grindy drilling<br><br>-frozen below 1.3m<br>-smooth drilling below 1.6m | <input checked="" type="checkbox"/>        | 421       | ▲   | ●    |                         |     | ▲▲▲         | ◆              | ■ | 1.0 |           |
| 2.0  | END HOLE at 2.0m   |  |           |   |      |                         |     |             |                |   | 2.0 |           |
| 3.0  |  |  |           |   |      |                         |     |             |                |   | 3.0 |           |
| 4.0  |  |  |           |   |      |                         |     |             |                |   | 4.0 |           |
| 5.0  |  |  |           |   |      |                         |     |             |                |   | 5.0 |           |
| 6.0  |  |  |           |   |      |                         |     |             |                |   | 6.0 |           |
| Government of Yukon<br>Transportation Engineering      |  |  |           | LOGGED BY: TF                             |      | COMPLETION DEPTH: 2.0 m |     |             |                |   |     |           |
|  |  |  |           | REVIEWED BY:                              |      | COMPLETE: 93/09/23      |     |             |                |   |     |           |
|  |  |  |           | Fig. No:                                  |      |                         |     | Page 1 of 1 |                |   |     |           |

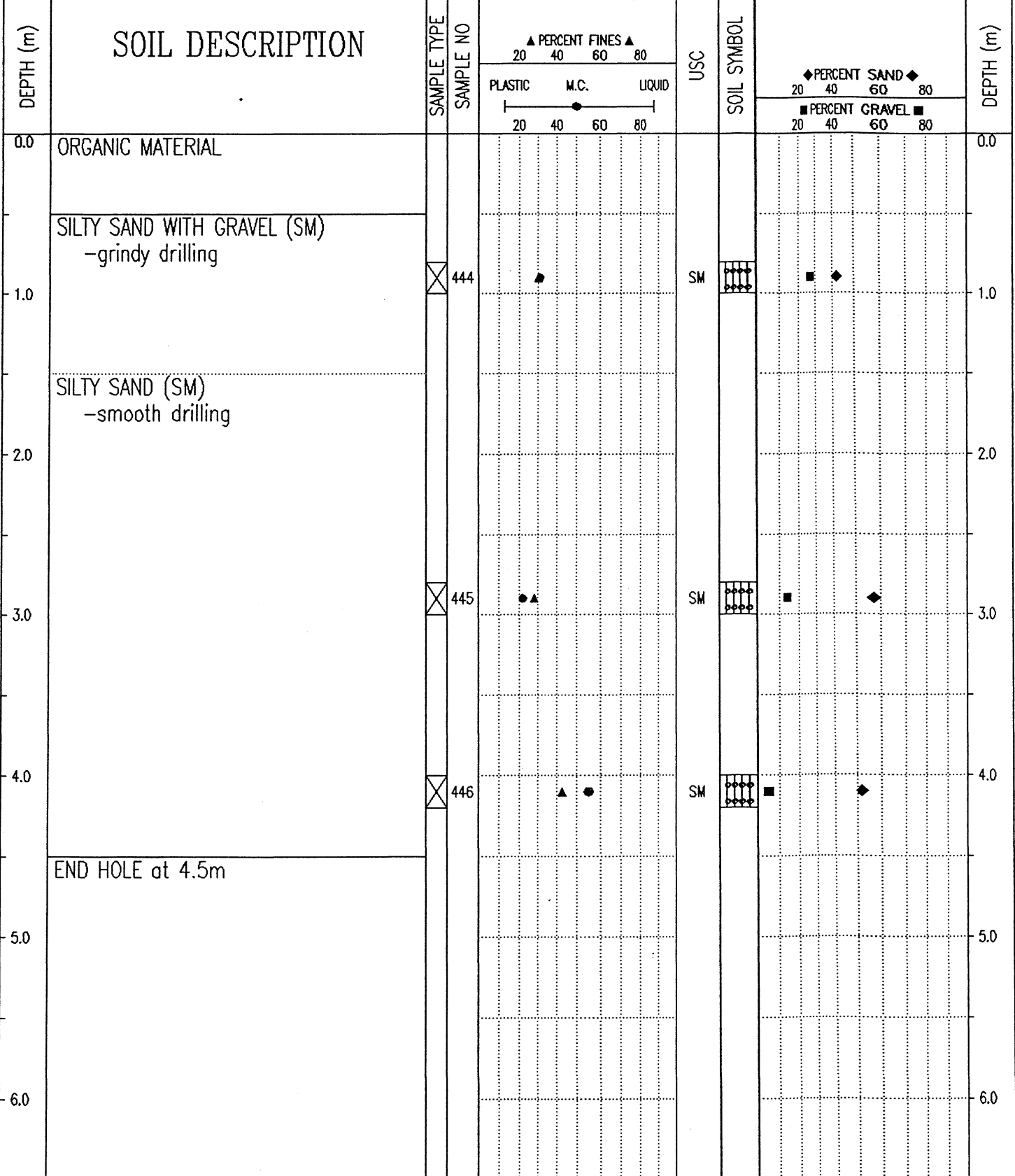
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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING           | TEST HOLE NO: 253-199       |
| SHAKWAK PROJECT  | SEGMENT 16                               | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: See Plan 1884+053 1/2 135 m Lt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | ▲ PERCENT FINES ▲ |      |        | USC   | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | ■ PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|-------------------|------|--------|-------|-------------|------------------|----|--------------------|-----------|
|           |   |                                     |           | PLASTIC           | M.C. | LIQUID |       |             | 20               | 40 |                    |           |
| 0.0       | POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM)<br>-grindy drilling<br><br>-no fines augering up below 0.6m |                                     |           |                   |      |        |       |             |                  |    |                    | 0.0       |
| 1.0       |   |                                     |           |                   |      |        |       |             |                  |    |                    | 1.0       |
| 2.0       |   |                                     |           |                   |      |        |       |             |                  |    |                    | 2.0       |
| 3.0       |   |                                     |           |                   |      |        |       |             |                  |    |                    | 3.0       |
| 4.0       | END HOLE at 4.0m<br>-refusal  | <input checked="" type="checkbox"/> | 484       | ▲                 |      |        | GP-GM | ◆           |                  | ■  |                    | 4.0       |
| 5.0       |   |                                     |           |                   |      |        |       |             |                  |    |                    | 5.0       |
| 6.0       |   |                                     |           |                   |      |        |       |             |                  |    |                    | 6.0       |

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Transportation Engineering

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| LOGGED BY: TF | COMPLETION DEPTH: 4.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/25      |
| Fig. No:      | Page 1 of 1             |

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING      | TEST HOLE NO: 253-179       |
| SHAKWAK PROJECT  | SEGMENT 16                          | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: See Plan 1894+065 % 35 Lt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |

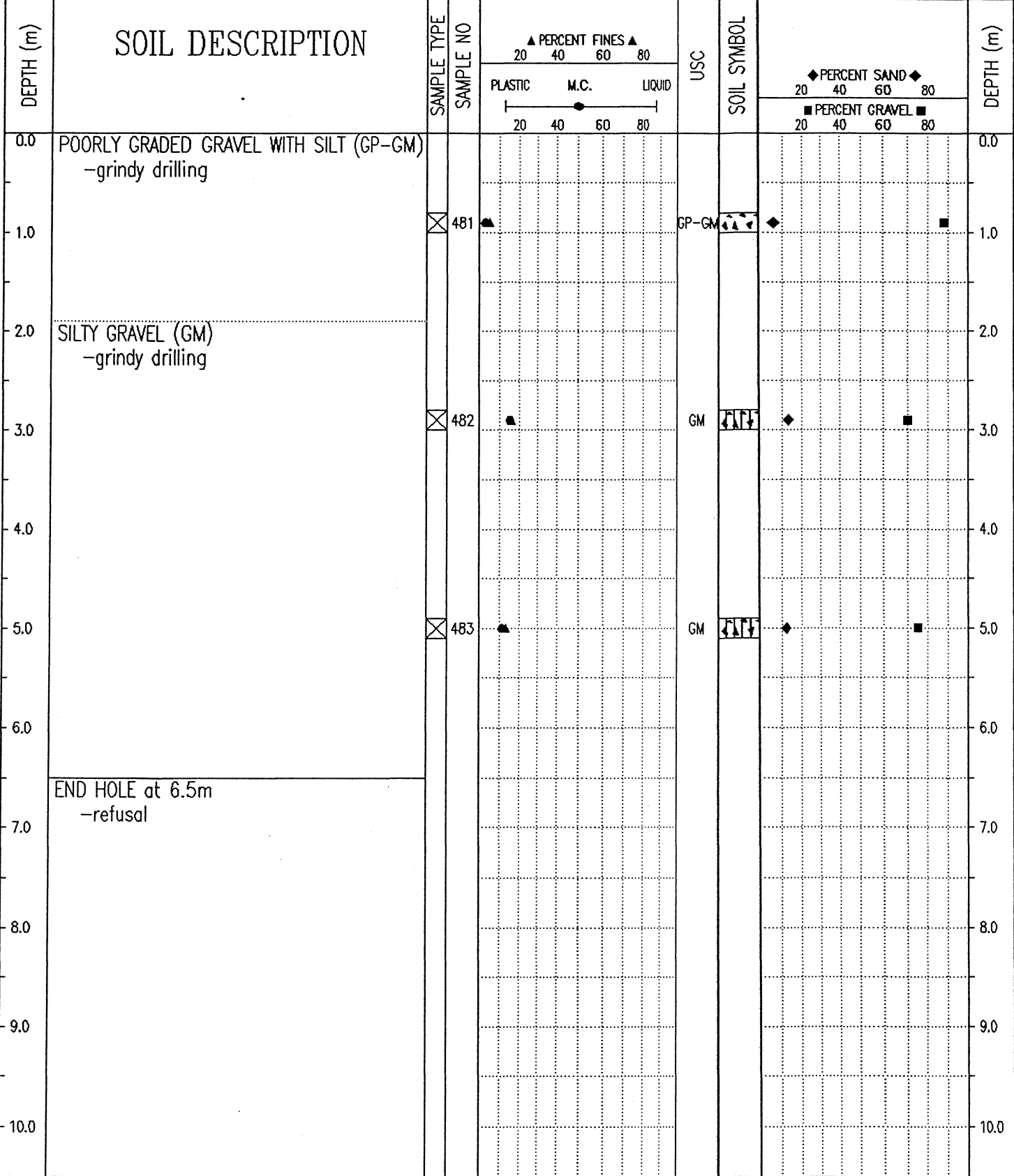


Government of Yukon  
Transportation Engineering

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 93/09/24

|   |                                     |                             |
|---|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  | ALASKA HIGHWAY PRE-ENGINEERING      | TEST HOLE NO: 253-198       |
| SHAKWAK PROJECT   | SEGMENT 16                          | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER   | LOCATION: See Plan 1884+065 % 85m L | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |



|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 6.5 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/25      |
|   | Fig. No:      | Page 1 of 1             |

| SUBSURFACE EXPLORATION AND TEST REPORT    |   | ALASKA HIGHWAY PRE-ENGINEERING  |           | TEST HOLE NO: 253-168       |      |        |     |             |                |  |     |           |
|---|---|---------------------------------|-----------|-----------------------------|------|--------|-----|-------------|----------------|--|-----|-----------|
| SHAKWAK PROJECT                           |   | SEGMENT 16                      |           | Project No: 202101-0312-193 |      |        |     |             |                |  |     |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |   | LOCATION: Sta. 1884+100 o/s Lt. |           | ELEVATION: 0.00 (m)         |      |        |     |             |                |  |     |           |
| SAMPLE TYPE                               |   | RETURN                          |           | S.P.T.                      |      |        |     |             |                |  |     |           |
|   |   | AUGER                           |           | BULK                        |      |        |     |             |                |  |     |           |
|   |   | TUBE                            |           | CORE                        |      |        |     |             |                |  |     |           |
| DEPTH (m)                                 | SOIL DESCRIPTION                                | SAMPLE TYPE                     | SAMPLE NO | PERCENT FINES               |      |        | USC | SOIL SYMBOL | PERCENT SAND   |  |     | DEPTH (m) |
|   |   |                                 |           | PLASTIC                     | M.C. | LIQUID |     |             | PERCENT GRAVEL |  |     |           |
| 0.0                                       | SILTY GRAVEL WITH SAND (GM)<br>-grindy drilling |                                 |           |                             |      |        |     |             |                |  | 0.0 |           |
| 1.0                                       |   |                                 | 418       |                             |      |        | GM  |             |                |  | 1.0 |           |
| 2.0                                       | SANDY SILT (ML)<br>-smooth drilling             |                                 |           |                             |      |        |     |             |                |  | 2.0 |           |
| 3.0                                       | -wet below 2.6m                                 |                                 | 419       |                             |      |        | ML  |             |                |  | 3.0 |           |
| 4.0                                       | SILTY SAND (SM)<br>-saturated                   |                                 |           |                             |      |        |     |             |                |  | 4.0 |           |
| 4.0                                       | -grindy drilling below 4.0m                     |                                 | 420       |                             |      |        | SM  |             |                |  | 4.0 |           |
| 5.0                                       | END HOLE at 4.5m                                |                                 |           |                             |      |        |     |             |                |  | 5.0 |           |
| 6.0                                       |   |                                 |           |                             |      |        |     |             |                |  | 6.0 |           |

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Fig. No:

COMPLETION DEPTH: 4.5 m

COMPLETE: 93/09/23

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|  |  |                                      |                             |
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| SUBSURFACE EXPLORATION AND TEST REPORT   |  | ALASKA HIGHWAY PRE-ENGINEERING       | TEST HOLE NO: 253-200       |
| SHAKWAK PROJECT  |  | SEGMENT 16                           | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  |  | LOCATION: See Plan 1884+105% 175m Lt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                                      |                             |

| DEPTH (m) | SOIL DESCRIPTION            | SAMPLE TYPE                         | SAMPLE NO | ▲ PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | ■ PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|-----------------------------|-------------------------------------|-----------|-------------------|----|----|-----|-------------|------------------|----|--------------------|-----------|
|           |                             |                                     |           | 20                | 40 | 60 |     |             | 80               | 20 |                    |           |
| 0.0       | ORGANIC MATERIAL            |                                     |           |                   |    |    |     |             |                  |    |                    | 0.0       |
|           | SANDY SILT (ML)             |                                     |           |                   |    |    |     |             |                  |    |                    |           |
|           | -grindy drilling            |                                     |           |                   |    |    |     |             |                  |    |                    |           |
|           | -frozen below 0.6m          |                                     |           |                   |    |    |     |             |                  |    |                    |           |
|           | -smooth drilling below 0.6m |                                     |           |                   |    |    |     |             |                  |    |                    |           |
| 1.0       |                             | <input checked="" type="checkbox"/> | 485       |                   |    |    | ML  |             |                  |    |                    | 1.0       |
|           | -grindy drilling below 1.3m |                                     |           |                   |    |    |     |             |                  |    |                    |           |
| 2.0       |                             |                                     |           |                   |    |    |     |             |                  |    |                    | 2.0       |
|           | END HOLE at 2.1m            |                                     |           |                   |    |    |     |             |                  |    |                    |           |
|           | -refusal                    |                                     |           |                   |    |    |     |             |                  |    |                    |           |
| 3.0       |                             |                                     |           |                   |    |    |     |             |                  |    |                    | 3.0       |
| 4.0       |                             |                                     |           |                   |    |    |     |             |                  |    |                    | 4.0       |
| 5.0       |                             |                                     |           |                   |    |    |     |             |                  |    |                    | 5.0       |
| 6.0       |                             |                                     |           |                   |    |    |     |             |                  |    |                    | 6.0       |

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Fig. No:

COMPLETION DEPTH: 2.1 m  
COMPLETE: 93/09/25

| SUBSURFACE EXPLORATION AND TEST REPORT                 |                                     | ALASKA HIGHWAY PRE-ENGINEERING             |           | TEST HOLE NO: 253-167                     |      |   |     |             |                |  |     |           |
|--|-------------------------------------|--|-----------|---|------|---|-----|-------------|----------------|--|-----|-----------|
| SHAKWAK PROJECT  |                                     | SEGMENT 16                                 |           | Project No: 202101-0312-193               |      |   |     |             |                |  |     |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER              |                                     | LOCATION: Sta. 1884+200 o/s Lt.            |           | ELEVATION: 0.00 (m)                       |      |   |     |             |                |  |     |           |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN |                                     | <input checked="" type="checkbox"/> S.P.T. |           | <input checked="" type="checkbox"/> AUGER |      |   |     |             |                |  |     |           |
|  |                                     | <input type="checkbox"/> BULK              |           | <input type="checkbox"/> TUBE             |      |   |     |             |                |  |     |           |
|  |                                     |  |           | <input type="checkbox"/> CORE             |      |   |     |             |                |  |     |           |
| DEPTH (m)  | SOIL DESCRIPTION                    | SAMPLE TYPE                                | SAMPLE NO | PERCENT FINES                             |      |   | USC | SOIL SYMBOL | PERCENT SAND   |  |     | DEPTH (m) |
|  |                                     |  |           | PLASTIC                                   | M.C. | LIQUID  |     |             | PERCENT GRAVEL |  |     |           |
| 0.0  | ORGANIC MATERIAL<br>SILTY SAND (SM) |  |           |   |      |   |     |             |                |  | 0.0 |           |
| 1.0  | -frozen with visible ice below 0.9m | <input checked="" type="checkbox"/>        | 417       |   |      |   | SM  |             |                |  | 1.0 |           |
| 2.0  | END HOLE at 2.1m                    |  |           |   |      |   |     |             |                |  | 2.0 |           |
| 3.0  |                                     |  |           |   |      |   |     |             |                |  | 3.0 |           |
| 4.0  |                                     |  |           |   |      |   |     |             |                |  | 4.0 |           |
| 5.0  |                                     |  |           |   |      |   |     |             |                |  | 5.0 |           |
| 6.0  |                                     |  |           |   |      |   |     |             |                |  | 6.0 |           |
| Government of Yukon<br>Transportation Engineering      |                                     |  |           | LOGGED BY: TF<br>REVIEWED BY:<br>Fig. No: |      | COMPLETION DEPTH: 2.1 m<br>COMPLETE: 93/09/23 |     | Page 1 of 1 |                |  |     |           |


| SUBSURFACE EXPLORATION AND TEST REPORT                 |   | ALASKA HIGHWAY PRE-ENGINEERING             |           | TEST HOLE NO: 253-166                     |      |        |     |             |              |    |    |                |           |
|--|---|--|-----------|---|------|--------|-----|-------------|--------------|----|----|----------------|-----------|
| SHAKWAK PROJECT  |   | SEGMENT 16                                 |           | Project No: 202101-0312-193               |      |        |     |             |              |    |    |                |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER              |   | LOCATION: Sta. 1884+300 o/s Lt.            |           | ELEVATION: 0.00 (m)                       |      |        |     |             |              |    |    |                |           |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN |   | <input checked="" type="checkbox"/> S.P.T. |           | <input checked="" type="checkbox"/> AUGER |      |        |     |             |              |    |    |                |           |
|  |   | <input type="checkbox"/> BULK              |           | <input type="checkbox"/> TUBE             |      |        |     |             |              |    |    |                |           |
|  |   |  |           | <input type="checkbox"/> CORE             |      |        |     |             |              |    |    |                |           |
| DEPTH (m)  | SOIL DESCRIPTION  | SAMPLE TYPE                                | SAMPLE NO | PERCENT FINES                             |      |        | USC | SOIL SYMBOL | PERCENT SAND |    |    | PERCENT GRAVEL | DEPTH (m) |
|  |   |  |           | PLASTIC                                   | M.C. | LIQUID |     |             | 20           | 40 | 60 |                |           |
| 0.0  | ORGANIC MATERIAL<br>SILT WITH SAND (ML)<br>-frozen with visible ice<br>-organic |  |           |   |      |        |     |             |              |    |    |                | 0.0       |
| 1.0  |   | <input checked="" type="checkbox"/>        | 414       |   |      |        | ML  |             |              |    |    |                | 1.0       |
| 2.0  | SANDY SILT (ML)   |  |           |   |      |        |     |             |              |    |    |                | 2.0       |
| 3.0  | SILT (ML)<br>-organic   |  |           |   |      |        |     |             |              |    |    |                | 3.0       |
| 4.0  | -grindy drilling below 4.0m   |  |           |   |      |        |     |             |              |    |    |                | 4.0       |
| 4.2  | END HOLE at 4.2m<br>-refusal  |  |           |   |      |        |     |             |              |    |    |                | 4.2       |
| 5.0  |   |  |           |   |      |        |     |             |              |    |    |                | 5.0       |
| 6.0  |   |  |           |   |      |        |     |             |              |    |    |                | 6.0       |

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Fig. No:

COMPLETION DEPTH: 4.2 m  
COMPLETE: 93/09/23

|  |  |                                 |                             |
|--|--|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   |  | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 253-165       |
| SHAKWAK PROJECT  |  | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  |  | LOCATION: Sta. 1884+400 o/s Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                                 |                             |

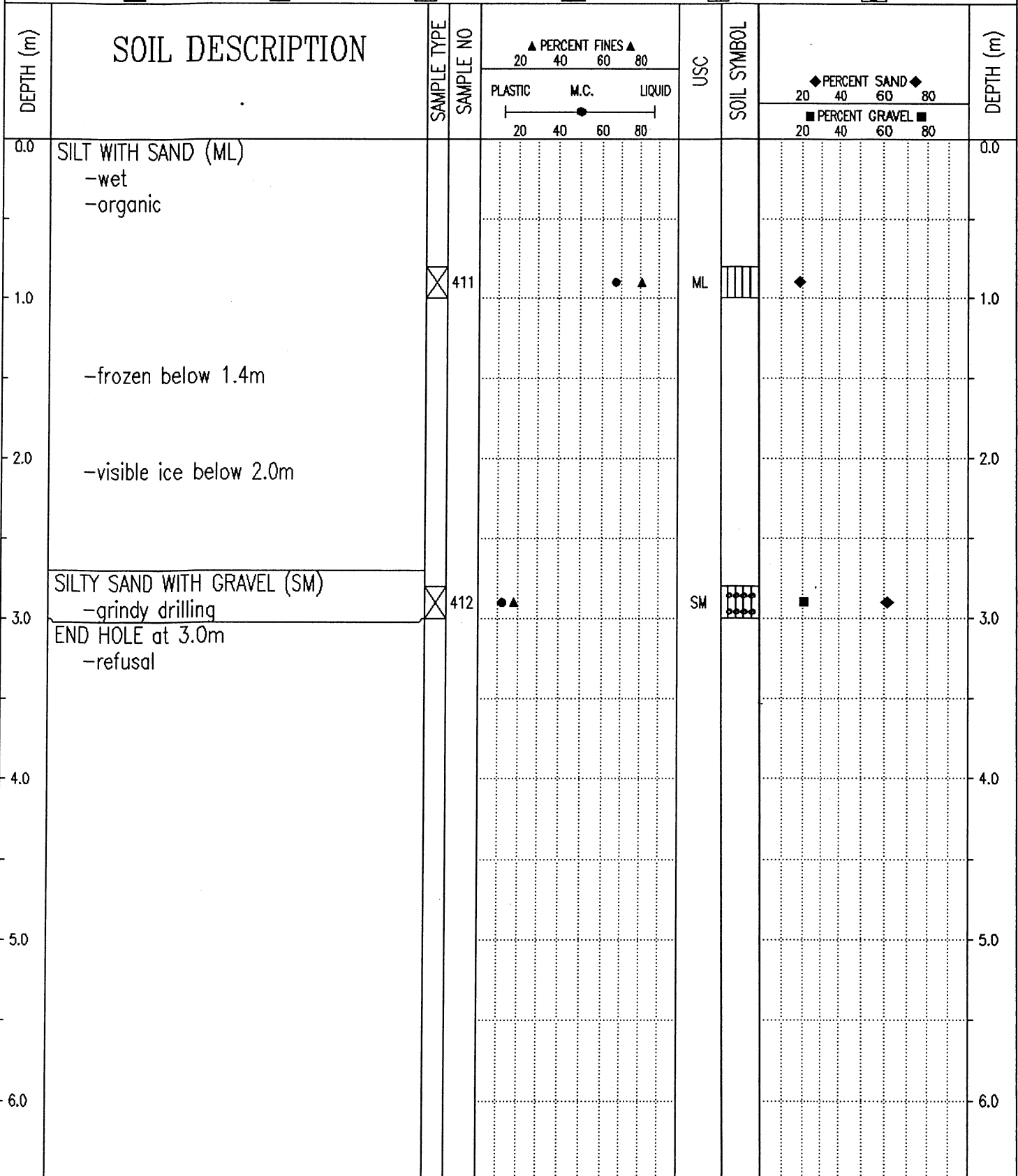
| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL   | PERCENT SAND |    | PERCENT GRAVEL |     | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|---------------|------|--------|-----|---|--------------|----|----------------|-----|-----------|
|           |  |                                     |           | PLASTIC       | M.C. | LIQUID |     |   | 20           | 40 | 60             | 80  |           |
| 0.0       | ORGANIC MATERIAL<br>-silt (ML)                                     |                                     |           |               |      |        |     |   |              |    |                | 0.0 |           |
| 1.0       | -frozen with visible ice below 0.6m                                | <input checked="" type="checkbox"/> | 413       |               |      |        | ML  |  |              |    |                | 1.0 |           |
| 2.0       | -grindy drilling below 2.2m<br>-no material augering up below 2.2m |                                     |           |               |      |        |     |   |              |    |                | 2.0 |           |
| 3.0       | END HOLE at 2.5m   |                                     |           |               |      |        |     |   |              |    |                | 3.0 |           |
| 4.0       |  |                                     |           |               |      |        |     |   |              |    |                | 4.0 |           |
| 5.0       |  |                                     |           |               |      |        |     |   |              |    |                | 5.0 |           |
| 6.0       |  |                                     |           |               |      |        |     |   |              |    |                | 6.0 |           |

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Transportation Engineering

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Fig. No:

COMPLETION DEPTH: 2.5 m  
COMPLETE: 93/09/23

|   |   |                             |
|---|---|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 252-164       |
| SHAKWAK PROJECT                           | SEGMENT 16  | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1884+500 o/s Lt.   | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE                               | <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                             |



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Fig. No:

COMPLETION DEPTH: 3.0 m  
COMPLETE: 93/09/23

|   |                                 |                             |
|---|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 252-163       |
| SHAKWAK PROJECT                           | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1884+600 o/s Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

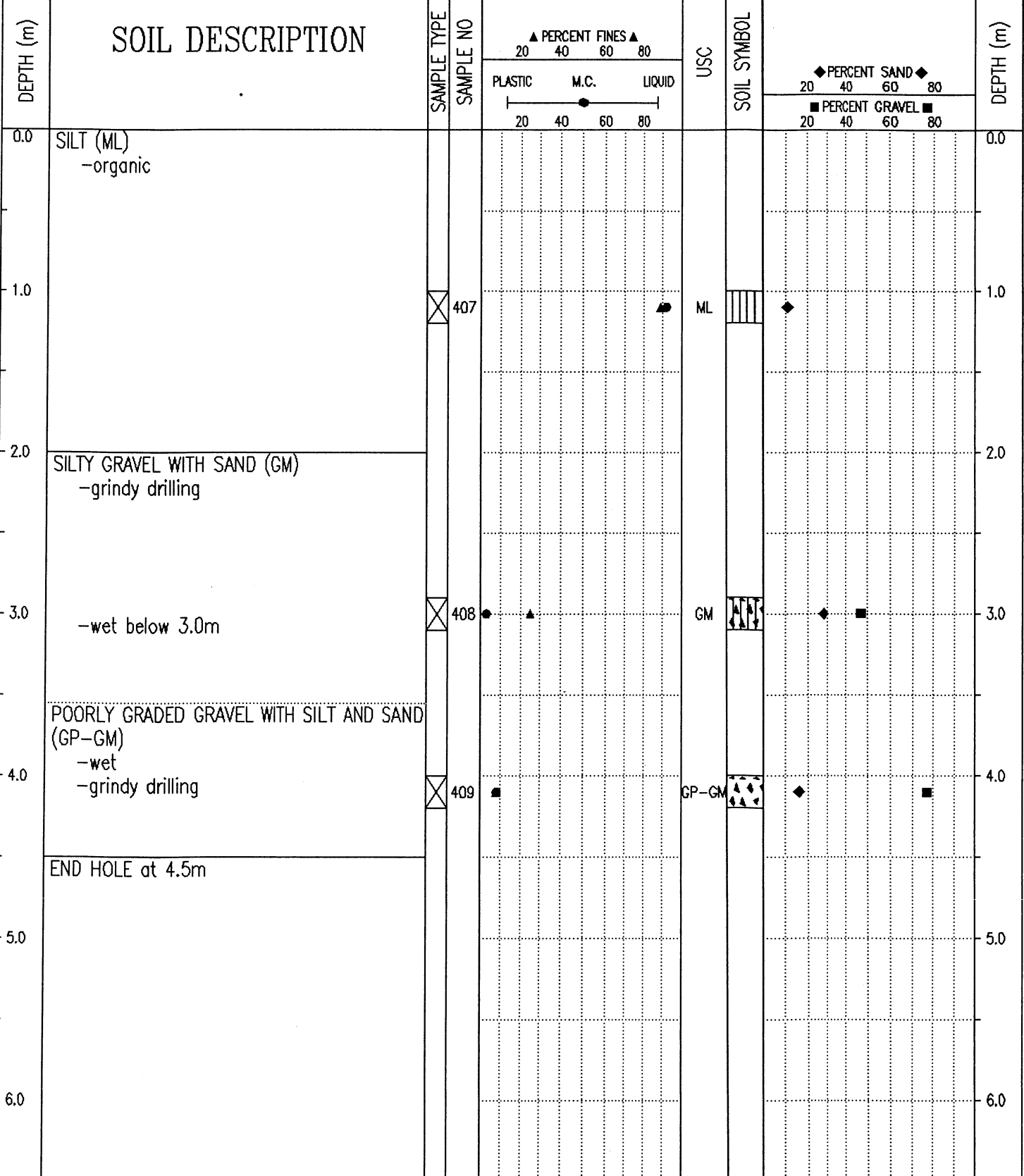
| DEPTH (m) | SOIL DESCRIPTION                 | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|----------------------------------|-------------------------------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|-----------|
|           |                                  |                                     |           | 20              | 40 | 60 |     |             | 80             | 20 |                  |           |
| 0.0       | SILT WITH SAND (ML)<br>-organic  |                                     |           |                 |    |    |     |             |                |    | 0.0              |           |
| 1.0       |                                  | <input checked="" type="checkbox"/> | 410       |                 |    |    | ML  |             |                |    | 1.0              |           |
| 2.0       | SILTY GRAVEL<br>-grindy drilling |                                     |           |                 |    |    |     |             |                |    | 2.0              |           |
| 3.0       | END HOLE at 3.0m<br>-refusal     |                                     |           |                 |    |    |     |             |                |    | 3.0              |           |
| 4.0       |                                  |                                     |           |                 |    |    |     |             |                |    | 4.0              |           |
| 5.0       |                                  |                                     |           |                 |    |    |     |             |                |    | 5.0              |           |
| 6.0       |                                  |                                     |           |                 |    |    |     |             |                |    | 6.0              |           |

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Transportation Engineering

|               |                         |
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| LOGGED BY: TF | COMPLETION DEPTH: 3.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/23      |
| Fig. No:      | Page 1 of 1             |

|   |                                 |                             |
|---|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 252-162       |
| SHAKWAK PROJECT                           | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1884+700 o/s Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

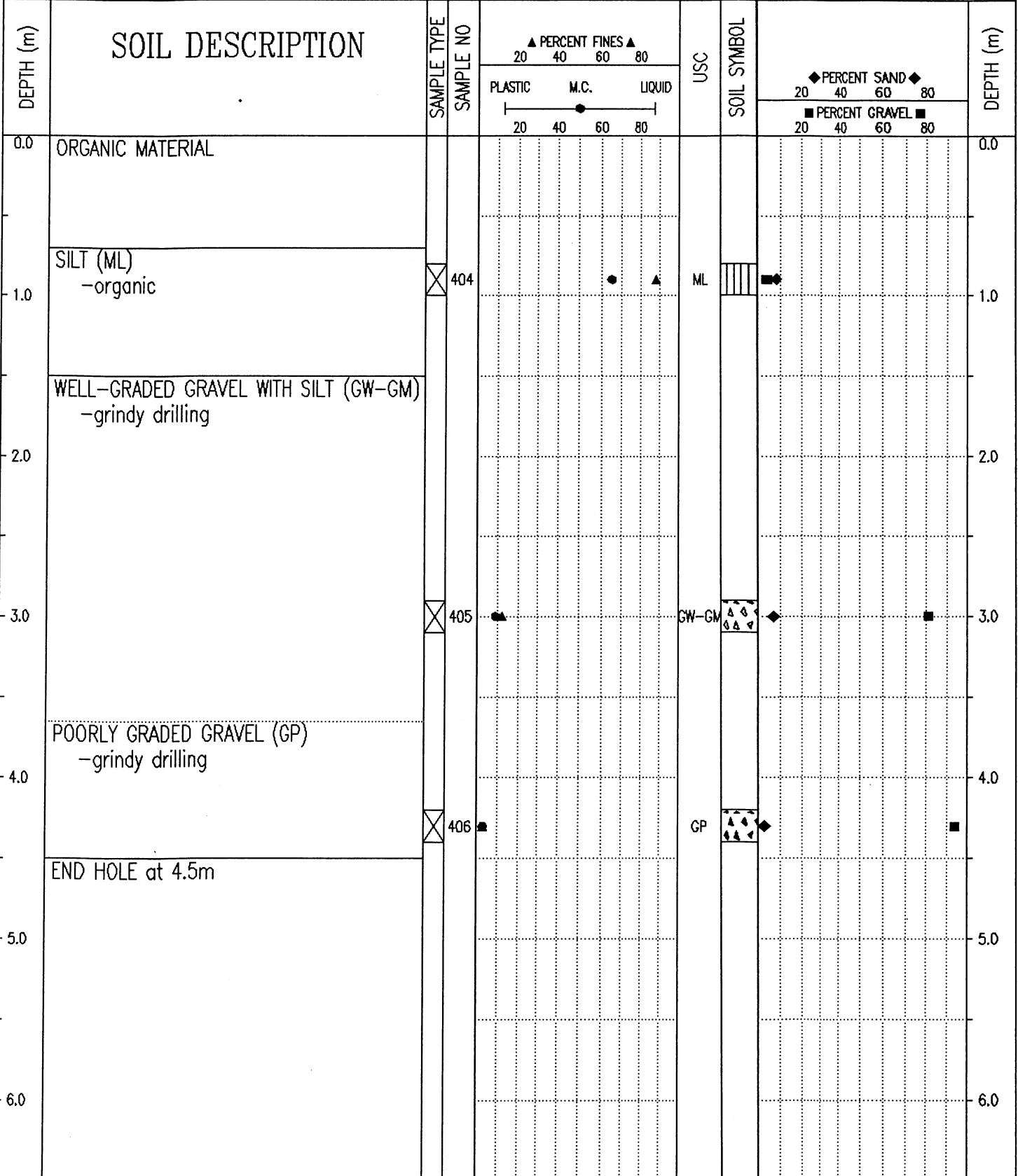


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Transportation Engineering

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Fig. No:  
COMPLETION DEPTH: 4.5 m  
COMPLETE: 93/09/23  
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|   |                                 |                             |
|---|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 252-161       |
| SHAKWAK PROJECT                           | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1884+800 o/s Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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Fig. No:  
COMPLETION DEPTH: 4.5 m  
COMPLETE: 93/09/23  
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|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST PIT NO: 319-90         |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1884+925 o/s 60m Rt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION                                   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|--|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|-----------|
|           |  |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 |           |
| 0.0       | ORGANIC MATERIAL<br>SILTY GRAVEL<br>-gray<br>-damp |             |           |                 |      |        |     |             |                |    | 0.0       |
| 1.0       | -sample #77 not tested                             |             | 77        |                 |      |        |     |             |                |    | 1.0       |
| 2.0       | -sample #78 not tested                             |             | 78        |                 |      |        |     |             |                |    | 2.0       |
| 3.0       | END HOLE at 2.8m                                   |             |           |                 |      |        |     |             |                |    | 3.0       |
| 4.0       |  |             |           |                 |      |        |     |             |                |    | 4.0       |
| 5.0       |  |             |           |                 |      |        |     |             |                |    | 5.0       |
| 6.0       |  |             |           |                 |      |        |     |             |                |    | 6.0       |

|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 2.8 m |
|   | REVIEWED BY:  | COMPLETE: 94/08/27      |
|   | Fig. No:      | Page 1 of 1             |

|  |                                      |                             |
|--|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                      | TEST PIT NO: 319-91         |
| ENGINEERING-CAPITAL                    | SEGMENT 16                           | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1884+925 o/s 160m Rt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND   |  |     | DEPTH (m) |
|-----------|---|-------------|-----------|---------------|------|--------|-----|-------------|----------------|--|-----|-----------|
|           |   |             |           | PLASTIC       | M.C. | LIQUID |     |             | PERCENT GRAVEL |  |     |           |
| 0.0       | ORGANIC MATERIAL<br>SILT<br>-brown<br>-damp<br>SILTY SANDY GRAVEL |             |           |               |      |        |     |             |                |  | 0.0 |           |
| 1.0       | SANDY GRAVEL<br>-sample #79 not tested                            |             | 79        |               |      |        |     |             |                |  | 1.0 |           |
| 2.0       |   |             |           |               |      |        |     |             |                |  | 2.0 |           |
| 3.0       | SILTY SANDY GRAVEL<br>-gray<br>-damp<br>-sample #80 not tested    |             | 80        |               |      |        |     |             |                |  | 3.0 |           |
| 4.0       | -sample #81 not tested  |             | 81        |               |      |        |     |             |                |  | 4.0 |           |
| 4.0       | END HOLE at 4.0m  |             |           |               |      |        |     |             |                |  | 4.0 |           |
| 5.0       |   |             |           |               |      |        |     |             |                |  | 5.0 |           |
| 6.0       |   |             |           |               |      |        |     |             |                |  | 6.0 |           |

Government of Yukon  
Transportation Engineering

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.0 m  
COMPLETE: 94/08/27

|  |                                      |                             |
|--|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | SHAKWAK PROJECT                      | TEST PIT NO: 319-92         |
| ENGINEERING-CAPITAL  | SEGMENT 16                           | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   | LOCATION: Sta. 1884+925 o/s 260m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                      |                             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|---|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|-----------|
|           |   |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 |           |
| 0.0       | ORGANIC MATERIAL<br>SILTY SANDY GRAVEL<br>-brown<br>-damp |             |           |                 |      |        |     |             |                |    | 0.0       |
| 1.0       | -sample #82 not tested                                    |             | 82        |                 |      |        |     |             |                |    | 1.0       |
| 2.0       |   |             |           |                 |      |        |     |             |                |    | 2.0       |
| 3.0       | -gray below 3.1m<br>-sample #83 not tested                |             | 83        |                 |      |        |     |             |                |    | 3.0       |
| 4.0       | END HOLE at 3.6m  |             |           |                 |      |        |     |             |                |    | 4.0       |
| 5.0       |   |             |           |                 |      |        |     |             |                |    | 5.0       |
| 6.0       |   |             |           |                 |      |        |     |             |                |    | 6.0       |

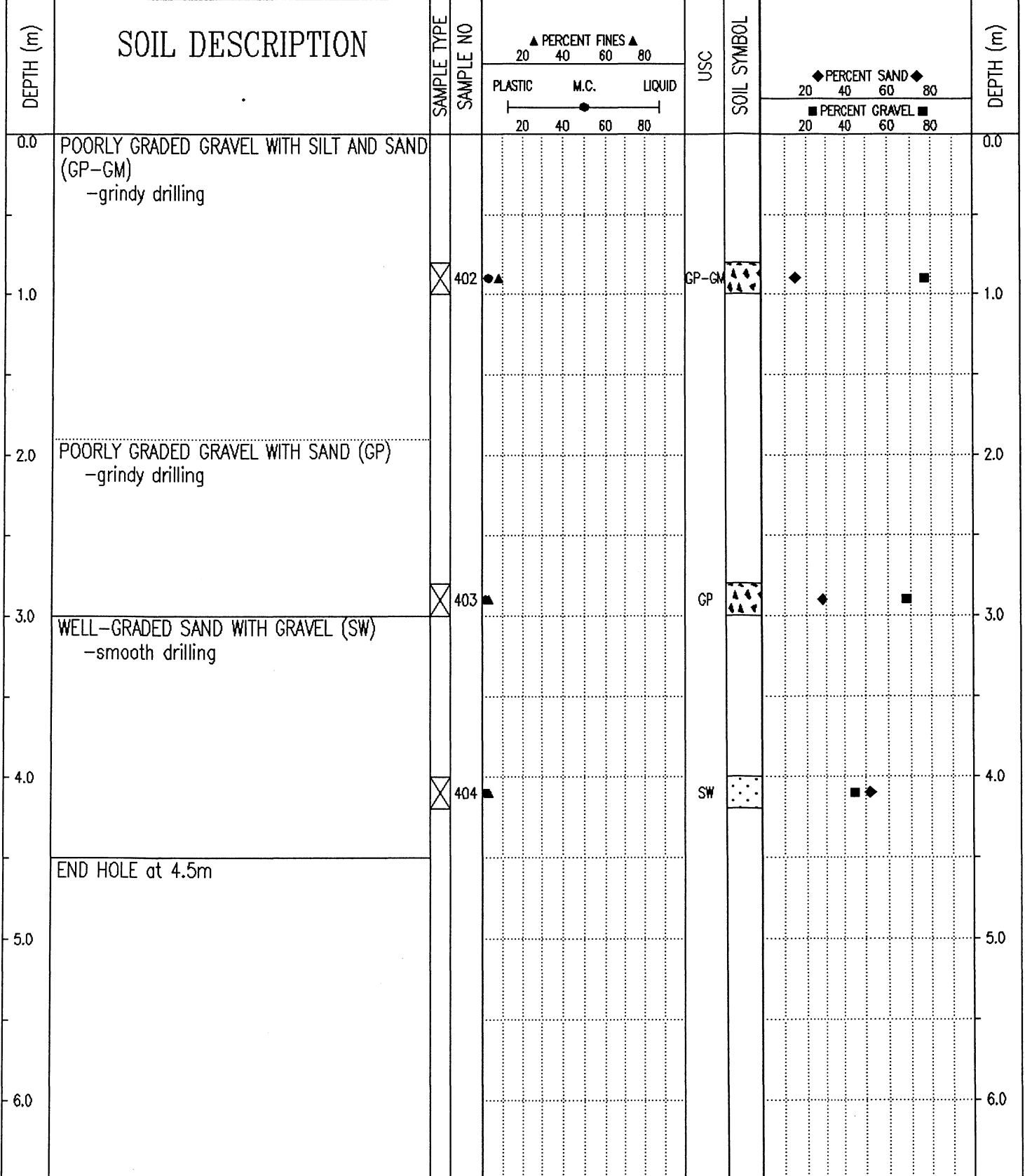
Government of Yukon  
Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.6 m  
COMPLETE: 94/08/27

|   |                                 |                             |
|---|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 252-160       |
| SHAKWAK PROJECT                           | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1885+600 o/s Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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|               |                         |
|---------------|-------------------------|
| LOGGED BY: TF | COMPLETION DEPTH: 4.5 m |
| REVIEWED BY:  | COMPLETE: 93/09/22      |
| Fig. No:      | Page 1 of 1             |

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST PIT NO: 319-88         |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1885+700 o/s 60m Rt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|--|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|-----------|
|           |  |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 |           |
| 0.0       | ORGANIC MATERIAL<br>-dark brown<br>-damp<br>-possibly old stripping                |             |           |                 |      |        |     |             |                |    | 0.0       |
| 1.0       |  |             |           |                 |      |        |     |             |                |    | 1.0       |
| 2.0       | SANDY GRAVEL<br>-gray<br>-damp<br>-maximum 75mm material<br>-sample #75 not tested |             | 75        |                 |      |        |     |             |                |    | 2.0       |
| 3.0       |  |             |           |                 |      |        |     |             |                |    | 3.0       |
| 4.0       | -sample #76 not tested   |             | 76        |                 |      |        |     |             |                |    | 4.0       |
| 5.0       |  |             |           |                 |      |        |     |             |                |    | 5.0       |
| 6.0       |  |             |           |                 |      |        |     |             |                |    | 6.0       |

|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 3.8 m |
|   | REVIEWED BY:  | COMPLETE: 94/08/26      |
|   | Fig. No:      | Page 1 of 1             |

|  |  |   |   |
|--|--|---|---|
| SUBSURFACE EXPLORATION AND TEST REPORT   |  | SHAKWAK PROJECT   | TEST PIT NO: 319-89   |
| ENGINEERING-CAPITAL  |  | SEGMENT 16  | Project No: 092-202101-0312                                 |
| BACKHOE: CAT 225   |  | LOCATION: Sta. 1885+700 o/s 160m Rt.                                    | ELEVATION: 0.00 (m)   |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. |  | <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK | <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES |    |    | USC | SOIL SYMBOL | PERCENT SAND |    | PERCENT GRAVEL |     | DEPTH (m) |
|-----------|---|-------------|-----------|---------------|----|----|-----|-------------|--------------|----|----------------|-----|-----------|
|           |   |             |           | 20            | 40 | 60 |     |             | 80           | 20 | 40             | 60  |           |
| 0.0       | ORGANIC MATERIAL  |             |           |               |    |    |     |             |              |    |                | 0.0 |           |
|           | ORGANIC SILTY SAND<br>-dark brown to gray<br>-frozen with visible ice |             |           |               |    |    |     |             |              |    |                |     |           |
| 1.0       |   |             |           |               |    |    |     |             |              |    |                | 1.0 |           |
| 2.0       |   |             |           |               |    |    |     |             |              |    |                | 2.0 |           |
|           | END HOLE at 2.3m  |             |           |               |    |    |     |             |              |    |                |     |           |
| 3.0       |   |             |           |               |    |    |     |             |              |    |                | 3.0 |           |
| 4.0       |   |             |           |               |    |    |     |             |              |    |                | 4.0 |           |
| 5.0       |   |             |           |               |    |    |     |             |              |    |                | 5.0 |           |
| 6.0       |   |             |           |               |    |    |     |             |              |    |                | 6.0 |           |

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Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 2.3 m  
COMPLETE: 94/08/27

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | SHAKWAK PROJECT                     | TEST PIT NO: 319-84         |
| ENGINEERING-CAPITAL  | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   | LOCATION: Sta. 1885+725 o/s 30m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|---|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|-----------|
|           |   |             |           | 20              | 40 | 60 |     |             | 80             | 20 |                  |           |
| 0.0       | ORGANIC MATERIAL<br>-black  |             |           |                 |    |    |     |             |                |    |                  | 0.0       |
| 1.0       | SILTY GRAVEL<br>-light brown<br>-maximum 200mm material<br>-frozen below 1.2m<br>-sample #73 not tested |             | 73        |                 |    |    |     |             |                |    |                  | 1.0       |
| 2.0       | SANDY GRAVEL<br>-gray<br>-damp<br>-maximum 75mm material<br>-sample #74 not tested                      |             | 74        |                 |    |    |     |             |                |    |                  | 2.0       |
| 3.0       |   |             |           |                 |    |    |     |             |                |    |                  | 3.0       |
| 4.0       | END HOLE at 4.0m  |             |           |                 |    |    |     |             |                |    |                  | 4.0       |
| 5.0       |   |             |           |                 |    |    |     |             |                |    |                  | 5.0       |
| 6.0       |   |             |           |                 |    |    |     |             |                |    |                  | 6.0       |

|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 4.0 m |
|   | REVIEWED BY:  | COMPLETE: 94/08/26      |
|   | Fig. No:      | Page 1 of 1             |

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST PIT NO: 319-87         |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1885+750 o/s 70m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION               | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|--------------------------------|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|-----------|
|           |                                |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 |           |
| 0.0       | ORGANIC MATERIAL               |             |           |                 |      |        |     |             |                |    | 0.0       |
|           | SILT<br>-dark brown<br>-frozen |             |           |                 |      |        |     |             |                |    |           |
| 1.0       |                                |             |           |                 |      |        |     |             |                |    | 1.0       |
| 2.0       | END HOLE at 2.0m               |             |           |                 |      |        |     |             |                |    | 2.0       |
| 3.0       |                                |             |           |                 |      |        |     |             |                |    | 3.0       |
| 4.0       |                                |             |           |                 |      |        |     |             |                |    | 4.0       |
| 5.0       |                                |             |           |                 |      |        |     |             |                |    | 5.0       |
| 6.0       |                                |             |           |                 |      |        |     |             |                |    | 6.0       |

|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 2.0 m |
|   | REVIEWED BY:  | COMPLETE: 94/08/26      |
|   | Fig. No:      | Page 1 of 1             |

|   |  |  |  |   |                               |                               |                               |                                 |                                   |           |
|---|--|--|--|---|-------------------------------|-------------------------------|-------------------------------|---------------------------------|-----------------------------------|-----------|
| SUBSURFACE EXPLORATION AND TEST REPORT    |  | ALASKA HIGHWAY PRE-ENGINEERING             |  | TEST HOLE NO: 252-159                     |                               |                               |                               |                                 |                                   |           |
| SHAKWAK PROJECT                           |  | SEGMENT 16                                 |  | Project No: 202101-0312-193               |                               |                               |                               |                                 |                                   |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |  | LOCATION: Sta. 1885+775 o/s Lt.            |  | ELEVATION: 0.00 (m)                       |                               |                               |                               |                                 |                                   |           |
| SAMPLE TYPE                               |  | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER | <input type="checkbox"/> BULK | <input type="checkbox"/> TUBE | <input type="checkbox"/> CORE |                                 |                                   |           |
| DEPTH (m)                                 | SOIL DESCRIPTION                           | SAMPLE TYPE                                | SAMPLE NO                                  | ▲ PERCENT FINES ▲<br>20 40 60 80          |                               | USC                           | SOIL SYMBOL                   | ◆ PERCENT SAND ◆<br>20 40 60 80 |                                   | DEPTH (m) |
|   |  |  |  | PLASTIC                                   | M.C.                          |                               |                               | LIQUID                          | ■ PERCENT GRAVEL ■<br>20 40 60 80 |           |
| 0.0                                       | ORGANIC MATERIAL<br>-silt (ML)             |  |  |   |                               |                               |                               |                                 |                                   | 0.0       |
| 1.0                                       |  | <input checked="" type="checkbox"/>        | 399  |   |                               |                               | ML                            |                                 |                                   | 1.0       |
| 2.0                                       | SILTY SAND WITH GRAVEL (SM)                |  |  |   |                               |                               |                               |                                 |                                   | 2.0       |
| 3.0                                       |  | <input checked="" type="checkbox"/>        | 400  |   |                               |                               | SM                            |                                 |                                   | 3.0       |
| 4.0                                       | WELL-GRADED SAND WITH SILT (SW-SM)<br>-wet |  |  |   |                               |                               |                               |                                 |                                   | 4.0       |
| 4.0                                       |  | <input checked="" type="checkbox"/>        | 401  |   |                               |                               | SW-SM                         |                                 |                                   | 4.0       |
| 5.0                                       | END HOLE at 4.5m                           |  |  |   |                               |                               |                               |                                 |                                   | 5.0       |
| 6.0                                       |  |  |  |   |                               |                               |                               |                                 |                                   | 6.0       |

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Transportation Engineering

LOGGED BY: TF

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.5 m

COMPLETE: 93/09/22

Page 1 of 1

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST PIT NO: 319-85         |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1885+775 o/s 30m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION                            | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |     | DEPTH (m) |
|-----------|---|-------------|-----------|-------------------|------|--------|-----|-------------|------------------|-----|-----------|
|           |   |             |           | PLASTIC           | M.C. | LIQUID |     |             | 20               | 40  |           |
| 0.0       | ORGANIC MATERIAL                            |             |           |                   |      |        |     |             |                  | 0.0 |           |
| 1.0       | SILT<br>-black<br>-frozen<br>-some organics |             |           |                   |      |        |     |             |                  | 1.0 |           |
| 2.0       | END HOLE at 1.8m                            |             |           |                   |      |        |     |             |                  | 2.0 |           |
| 3.0       |   |             |           |                   |      |        |     |             |                  | 3.0 |           |
| 4.0       |   |             |           |                   |      |        |     |             |                  | 4.0 |           |
| 5.0       |   |             |           |                   |      |        |     |             |                  | 5.0 |           |
| 6.0       |   |             |           |                   |      |        |     |             |                  | 6.0 |           |

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Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.8 m  
COMPLETE: 94/08/26

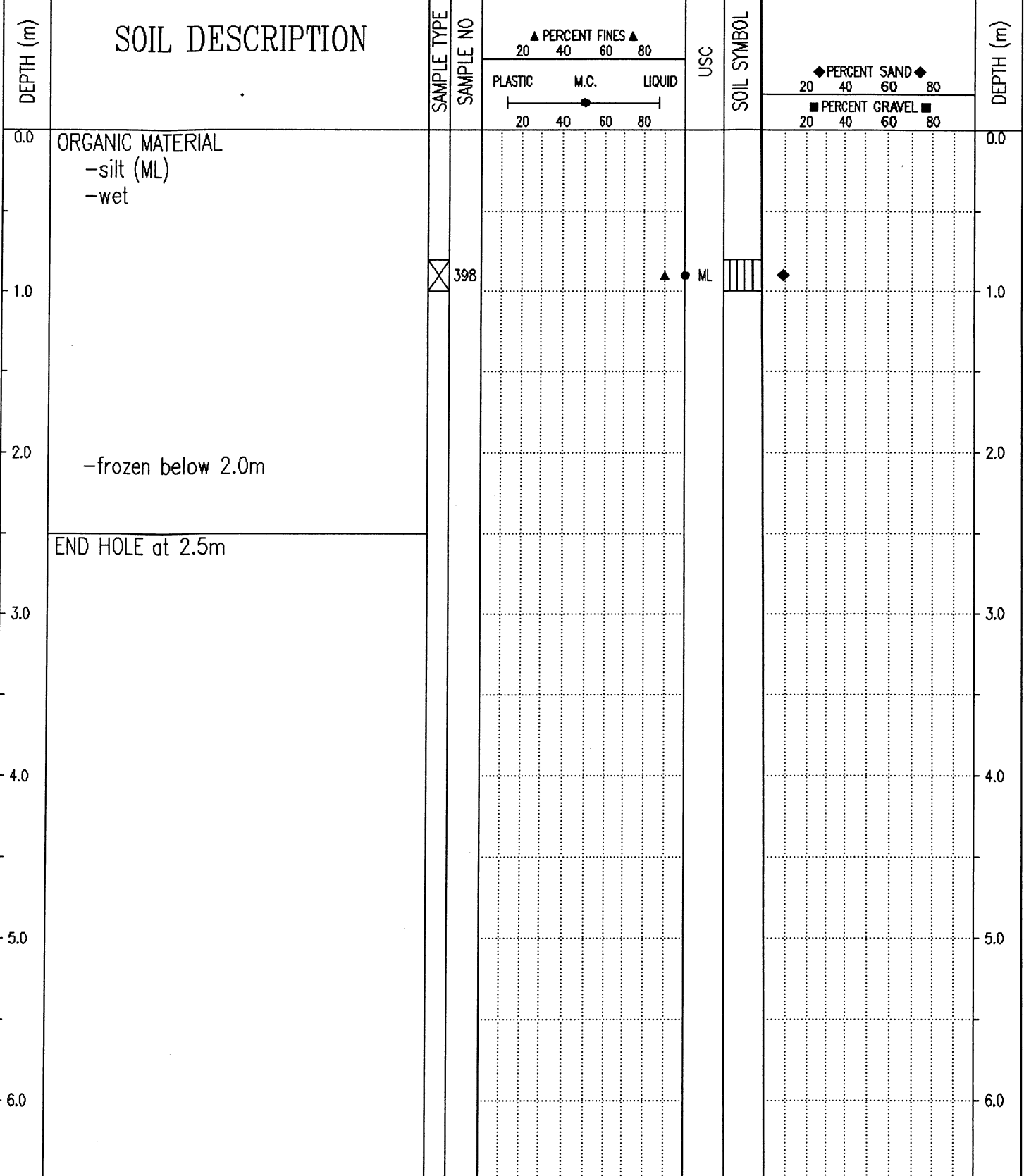
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|--|--|---|---|
| SUBSURFACE EXPLORATION AND TEST REPORT   |  | SHAKWAK PROJECT   | TEST PIT NO: 319-86   |
| ENGINEERING-CAPITAL  |  | SEGMENT 16  | Project No: 092-202101-0312                                 |
| BACKHOE: CAT 225   |  | LOCATION: Sta. 1885+800   | ELEVATION: 0.00 (m)   |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. |  | <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK | <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|---|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|-----------|
|           |   |             |           | 20              | 40 | 60 |     |             | 80             | 20 |                  |           |
| 0.0       | ORGANIC MATERIAL  |             |           |                 |    |    |     |             |                |    |                  | 0.0       |
| 1.0       | SILT<br>-dark brown<br>-frozen with visible ice<br>-some organics |             |           |                 |    |    |     |             |                |    |                  | 1.0       |
| 2.0       |   |             |           |                 |    |    |     |             |                |    |                  | 2.0       |
| 3.0       | END HOLE at 2.2m  |             |           |                 |    |    |     |             |                |    |                  | 3.0       |
| 4.0       |   |             |           |                 |    |    |     |             |                |    |                  | 4.0       |
| 5.0       |   |             |           |                 |    |    |     |             |                |    |                  | 5.0       |
| 6.0       |   |             |           |                 |    |    |     |             |                |    |                  | 6.0       |

|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 2.2 m |
|   | REVIEWED BY:  | COMPLETE: 94/08/26      |
|   | Fig. No:      | Page 1 of 1             |

|   |                                 |                             |
|---|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 252-158       |
| SHAKWAK PROJECT                           | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1886+200 o/s Rl. | ELEVATION: 0.00 (m)         |

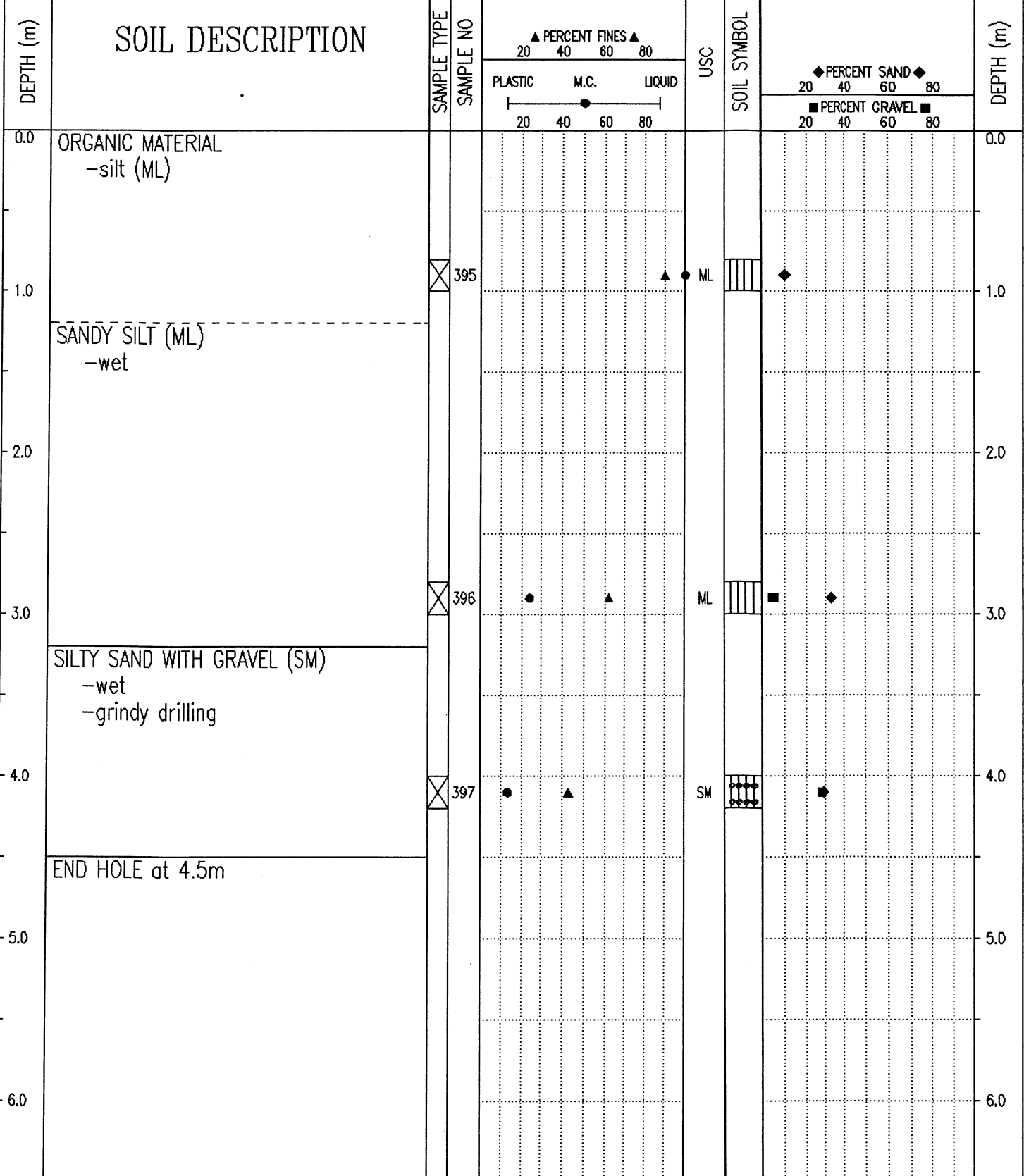
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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Transportation Engineering

|               |                         |
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| LOGGED BY: TF | COMPLETION DEPTH: 2.5 m |
| REVIEWED BY:  | COMPLETE: 93/09/22      |
| Fig. No:      | Page 1 of 1             |

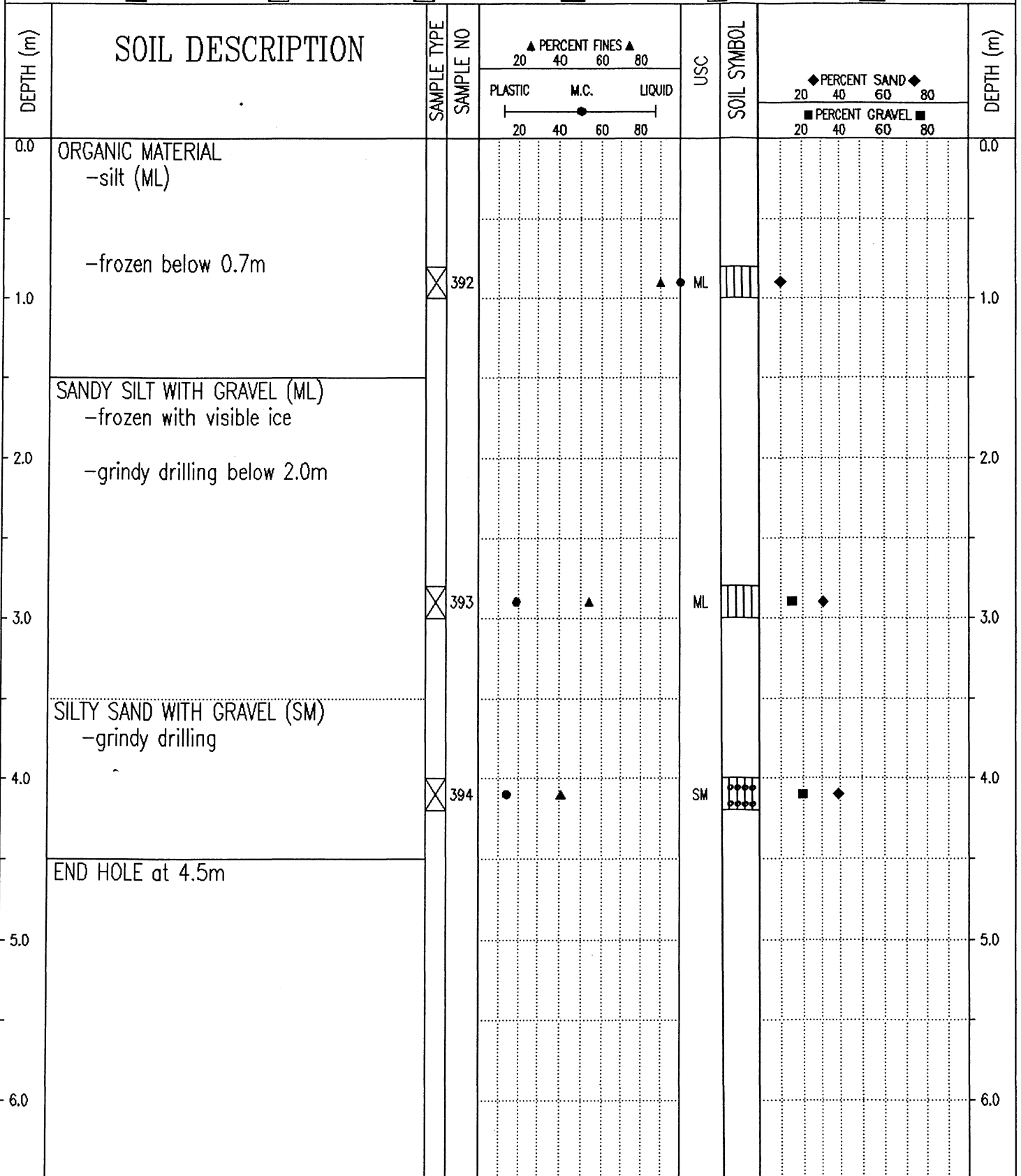
SAMPLE TYPE  RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



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Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: TF | COMPLETION DEPTH: 4.5 m |
| REVIEWED BY:  | COMPLETE: 93/09/22      |
| Fig. No:      | Page 1 of 1             |

|   |  |  |
|---|--|--|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING             | TEST HOLE NO: 252-156                      |
| SHAKWAK PROJECT                           | SEGMENT 16                                 | Project No: 202101-0312-193                |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1886+350 o/s Rt.            | ELEVATION: 0.00 (m)                        |
| SAMPLE TYPE                               | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. |
|   | <input checked="" type="checkbox"/> AUGER  | <input type="checkbox"/> BULK              |
|   | <input type="checkbox"/> TUBE              | <input type="checkbox"/> CORE              |



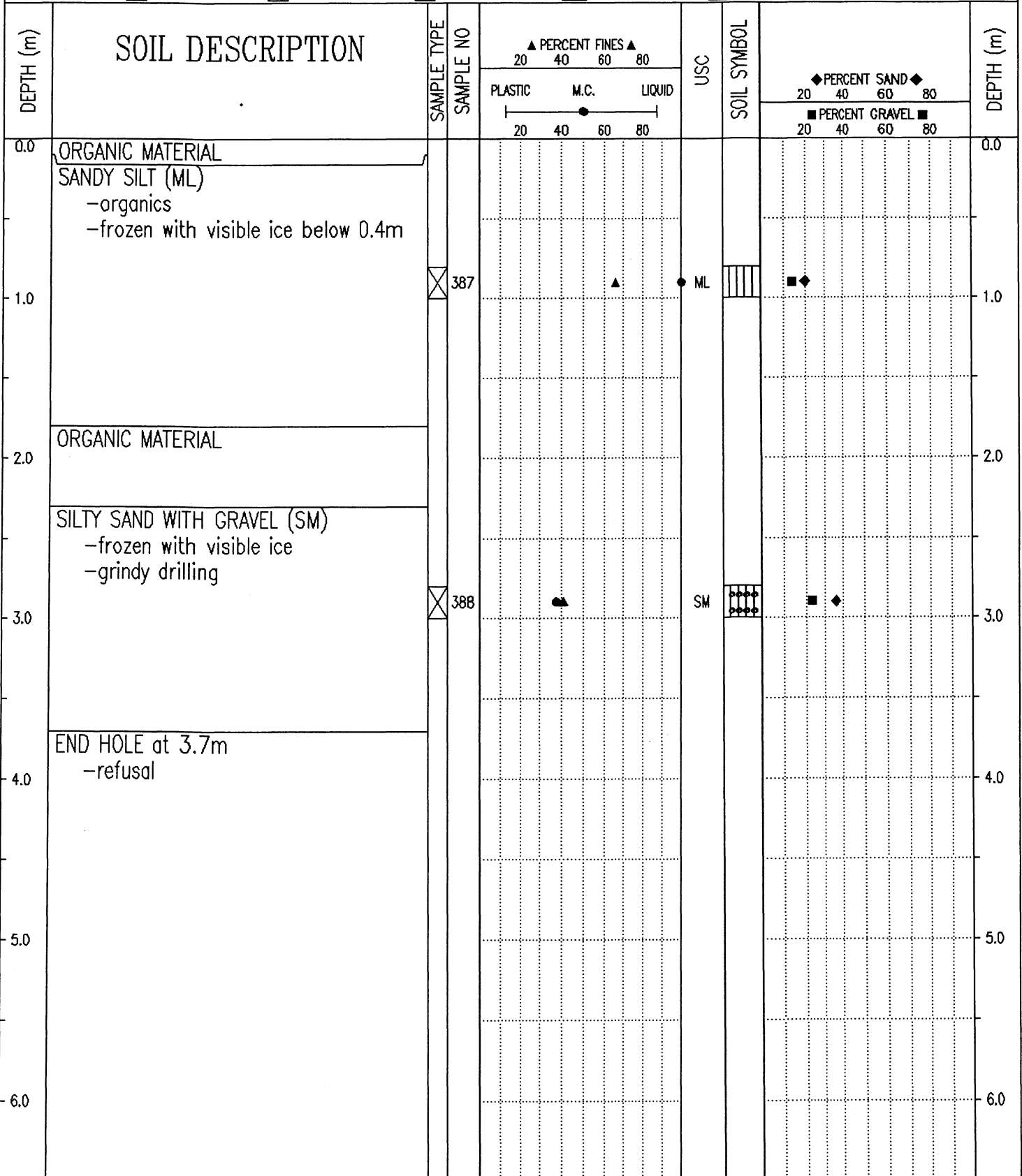
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Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 93/09/22

| SUBSURFACE EXPLORATION AND TEST REPORT   |  | ALASKA HIGHWAY PRE-ENGINEERING  |           | TEST HOLE NO: 252-155         |      |   |     |             |                |    |           |
|--|--|---------------------------------|-----------|-------------------------------|------|---|-----|-------------|----------------|----|-----------|
| SHAKWAK PROJECT  |  | SEGMENT 16                      |           | Project No: 202101-0312-193   |      |   |     |             |                |    |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  |  | LOCATION: Sta. 1886+450 o/s Rt. |           | ELEVATION: 0.00 (m)           |      |   |     |             |                |    |           |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                                 |           |                               |      |   |     |             |                |    |           |
| DEPTH (m)  | SOIL DESCRIPTION   | SAMPLE TYPE                     | SAMPLE NO | PERCENT FINES ▲               |      |   | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | DEPTH (m) |
|  |  |                                 |           | PLASTIC                       | M.C. | LIQUID  |     |             | 20             | 40 |           |
| 0.0  | ORGANIC MATERIAL<br>-silt (ML)                             |                                 |           |                               |      |   |     |             |                |    | 0.0       |
| 1.0  | -frozen below 1.3m   |                                 | 390       |                               |      |   | ML  |             |                |    | 1.0       |
| 2.0  | SILTY GRAVEL WITH SAND (GM)<br>-frozen<br>-grindy drilling |                                 |           |                               |      |   |     |             |                |    | 2.0       |
| 3.0  |  |                                 | 391       |                               |      |   | GM  |             |                |    | 3.0       |
| 4.0  | END HOLE at 4.0m<br>-refusal                               |                                 |           |                               |      |   |     |             |                |    | 4.0       |
| 5.0  |  |                                 |           |                               |      |   |     |             |                |    | 5.0       |
| 6.0  |  |                                 |           |                               |      |   |     |             |                |    | 6.0       |
| Government of Yukon<br>Transportation Engineering  |  |                                 |           | LOGGED BY: TF<br>REVIEWED BY: |      | COMPLETION DEPTH: 4.0 m<br>COMPLETE: 93/09/22 |     |             |                |    |           |
|  |  |                                 |           | Fig. No:                      |      |   |     | Page 1 of 1 |                |    |           |

|  |                                 |                             |
|--|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 252-154       |
| SHAKWAK PROJECT  | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1886+550 o/s Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                 |                             |



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Transportation Engineering

|               |                         |
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| LOGGED BY: TF | COMPLETION DEPTH: 3.7 m |
| REVIEWED BY:  | COMPLETE: 93/09/22      |
| Fig. No:      | Page 1 of 1             |

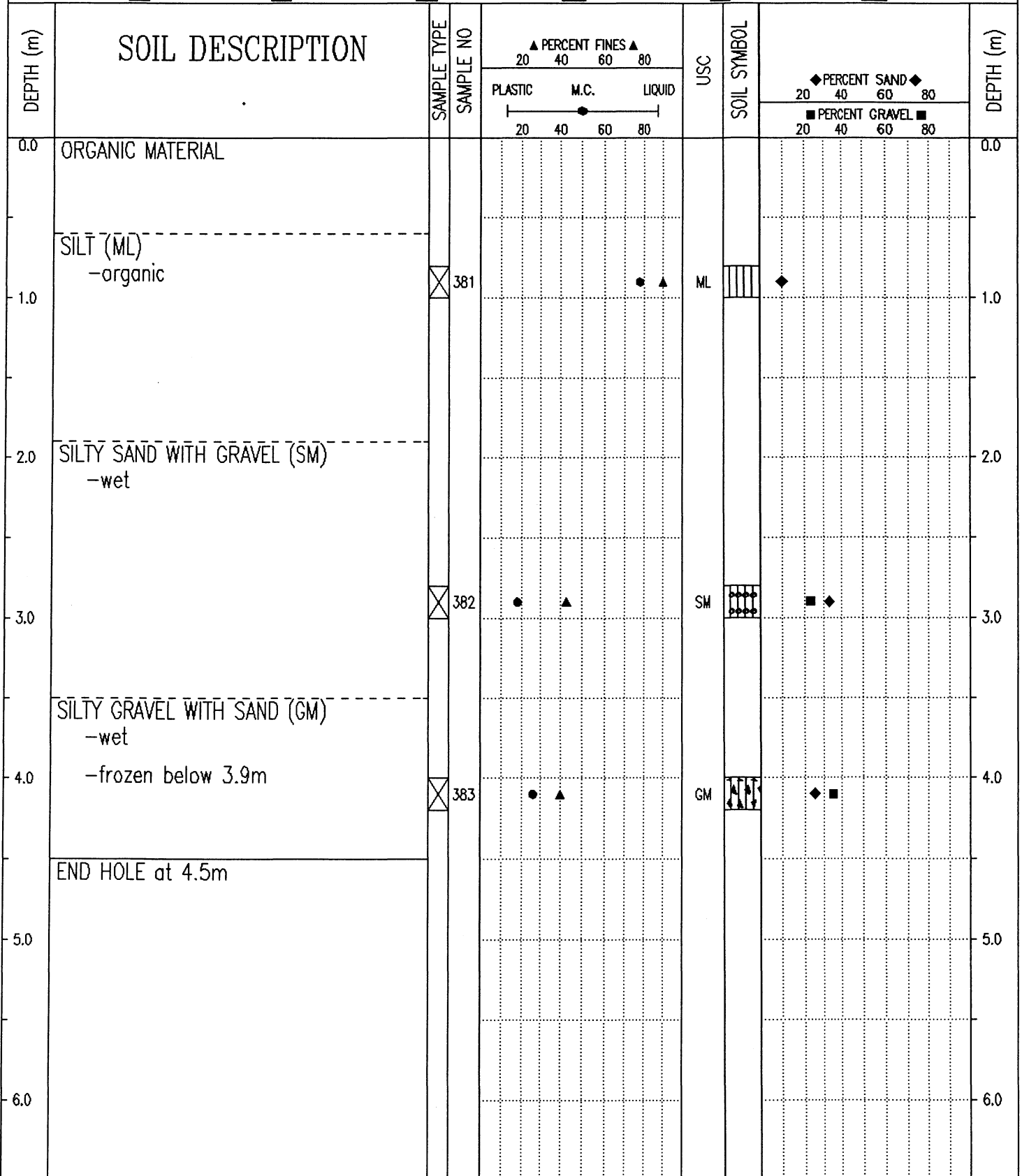
| SUBSURFACE EXPLORATION AND TEST REPORT    |   | ALASKA HIGHWAY PRE-ENGINEERING  |           | TEST HOLE NO: 252-153       |      |        |     |             |                  |    |    |           |
|---|---|---------------------------------|-----------|-----------------------------|------|--------|-----|-------------|------------------|----|----|-----------|
| SHAKWAK PROJECT                           |   | SEGMENT 16                      |           | Project No: 202101-0312-193 |      |        |     |             |                  |    |    |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |   | LOCATION: Sta. 1886+650 o/s Rt. |           | ELEVATION: 0.00 (m)         |      |        |     |             |                  |    |    |           |
| SAMPLE TYPE                               |   | RETURN                          |           | S.P.T.                      |      |        |     |             |                  |    |    |           |
| AUGER                                     |   | BULK                            |           | TUBE                        |      |        |     |             |                  |    |    |           |
| CORE                                      |   |                                 |           |                             |      |        |     |             |                  |    |    |           |
| DEPTH (m)                                 | SOIL DESCRIPTION  | SAMPLE TYPE                     | SAMPLE NO | ▲ PERCENT FINES ▲           |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    |    | DEPTH (m) |
|   |   |                                 |           | PLASTIC                     | M.C. | LIQUID |     |             | 20               | 40 | 60 |           |
| 0.0                                       | ORGANIC MATERIAL  |                                 |           |                             |      |        |     |             |                  |    |    | 0.0       |
| 1.0                                       | SILT (ML)<br>-frozen<br>-organic  | ☒                               | 384       |                             |      |        | ML  | ▨           | ◆                |    |    | 1.0       |
| 2.0                                       | SILTY GRAVEL WITH SAND (GM)<br>-frozen with visible ice<br>-grindy drilling |                                 |           |                             |      |        |     |             |                  |    |    | 2.0       |
| 3.0                                       |   | ☒                               | 385       | ●                           | ▲    |        | GM  | ▨           | ◆                |    |    | 3.0       |
| 4.0                                       | SILTY SAND WITH GRAVEL (SM)<br>-frozen with visible ice<br>-grindy drilling | ☒                               | 386       | ●                           | ▲    |        | SM  | ▨           | ◆                | ■  |    | 4.0       |
| 5.0                                       | END HOLE at 4.5m  |                                 |           |                             |      |        |     |             |                  |    |    | 5.0       |
| 6.0                                       |   |                                 |           |                             |      |        |     |             |                  |    |    | 6.0       |

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 93/09/22

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|---|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT      | ALASKA HIGHWAY PRE-ENGINEERING             | TEST HOLE NO: 252-152                     |
| SHAKWAK PROJECT                             | SEGMENT 16                                 | Project No: 202101-0312-193               |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER   | LOCATION: Sta. 1886+750 o/s Lt.            | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE <input type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|   | <input type="checkbox"/> BULK              | <input type="checkbox"/> TUBE             |
|   |  | <input type="checkbox"/> CORE             |

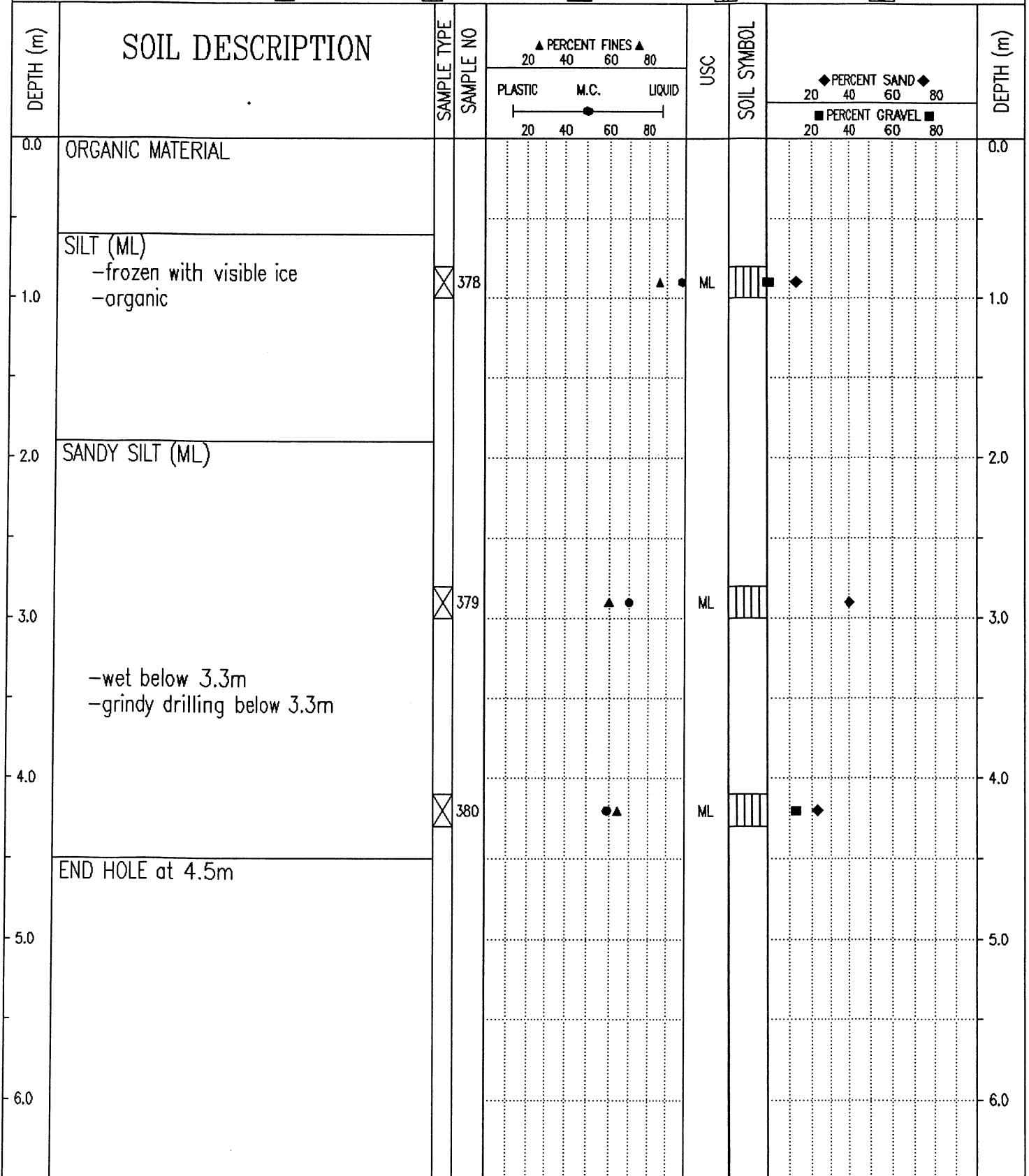


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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 93/09/22

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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 252-151       |
| SHAKWAK PROJECT  | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1886+850 o/s Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                 |                             |



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| REVIEWED BY:  | COMPLETE: 93/09/22      |
| Fig. No:      | Page 1 of 1             |

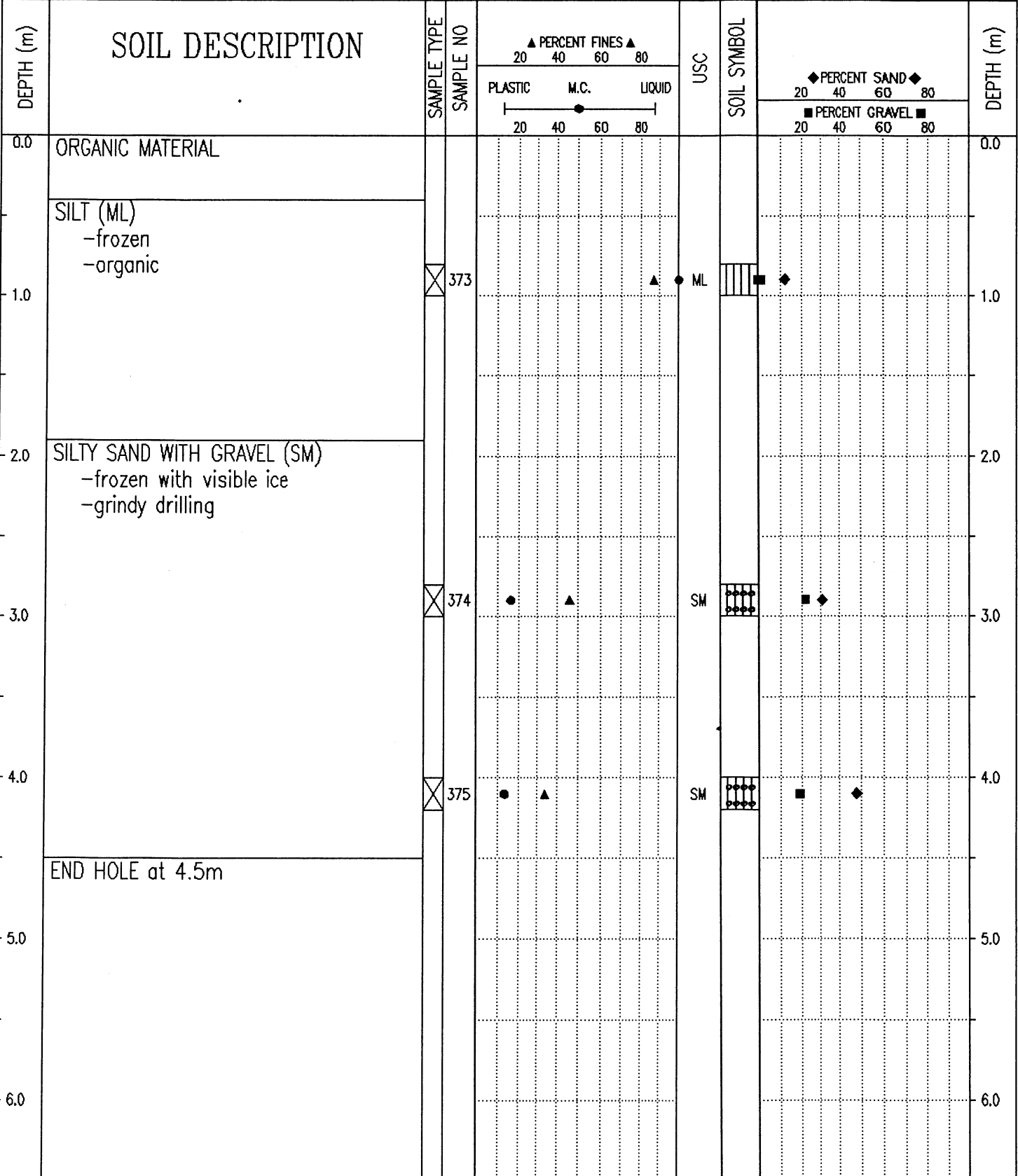
| SUBSURFACE EXPLORATION AND TEST REPORT    |  | ALASKA HIGHWAY PRE-ENGINEERING  |           | TEST HOLE NO: 252-150       |      |        |     |             |                  |    |           |
|---|--|---------------------------------|-----------|-----------------------------|------|--------|-----|-------------|------------------|----|-----------|
| SHAKWAK PROJECT                           |  | SEGMENT 16                      |           | Project No: 202101-0312-193 |      |        |     |             |                  |    |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |  | LOCATION: Sta. 1886+950 o/s Lt. |           | ELEVATION: 0.00 (m)         |      |        |     |             |                  |    |           |
| SAMPLE TYPE                               |  | RETURN                          |           | S.P.T.                      |      |        |     |             |                  |    |           |
| AUGER                                     |  | BULK                            |           | TUBE                        |      |        |     |             |                  |    |           |
| CORE                                      |  |                                 |           |                             |      |        |     |             |                  |    |           |
| DEPTH (m)                                 | SOIL DESCRIPTION   | SAMPLE TYPE                     | SAMPLE NO | ▲ PERCENT FINES ▲           |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | DEPTH (m) |
|   |  |                                 |           | PLASTIC                     | M.C. | LIQUID |     |             | 20               | 40 |           |
| 0.0                                       | ORGANIC MATERIAL   |                                 |           |                             |      |        |     |             |                  |    | 0.0       |
| 1.0                                       | SILT (ML)<br>-organic<br>-frozen below 0.6m                    | ⊗                               | 375       |                             |      |        | ML  |             |                  |    | 1.0       |
| 2.0                                       | SILTY SAND WITH GRAVEL (SM)<br><br>-grindy drilling below 2.2m |                                 |           |                             |      |        |     |             |                  |    | 2.0       |
| 3.0                                       |  | ⊗                               | 376       |                             |      |        | SM  |             |                  |    | 3.0       |
| 4.0                                       | SILTY GRAVEL WITH SAND (GM)<br>-grindy drilling                | ⊗                               | 377       |                             |      |        | GM  |             |                  |    | 4.0       |
| 5.0                                       | END HOLE at 4.5m   |                                 |           |                             |      |        |     |             |                  |    | 5.0       |
| 6.0                                       |  |                                 |           |                             |      |        |     |             |                  |    | 6.0       |

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Fig. No:

COMPLETION DEPTH: 4.5 m  
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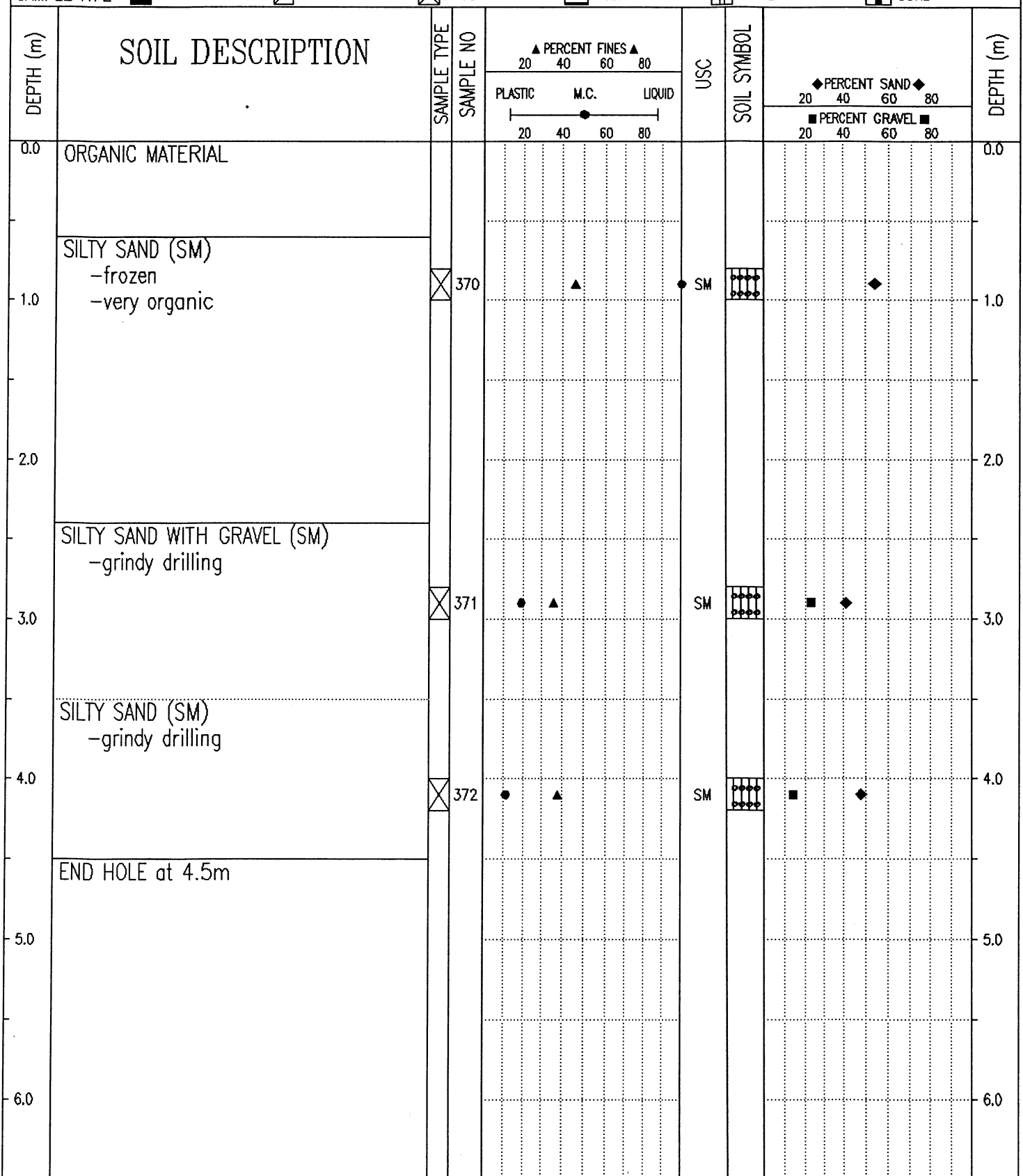
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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| LOGGED BY: TF | COMPLETION DEPTH: 4.5 m |
| REVIEWED BY:  | COMPLETE: 93/09/22      |
| Fig. No:      | Page 1 of 1             |

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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 252-148       |
| SHAKWAK PROJECT  | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1887+150 o/s Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                 |                             |



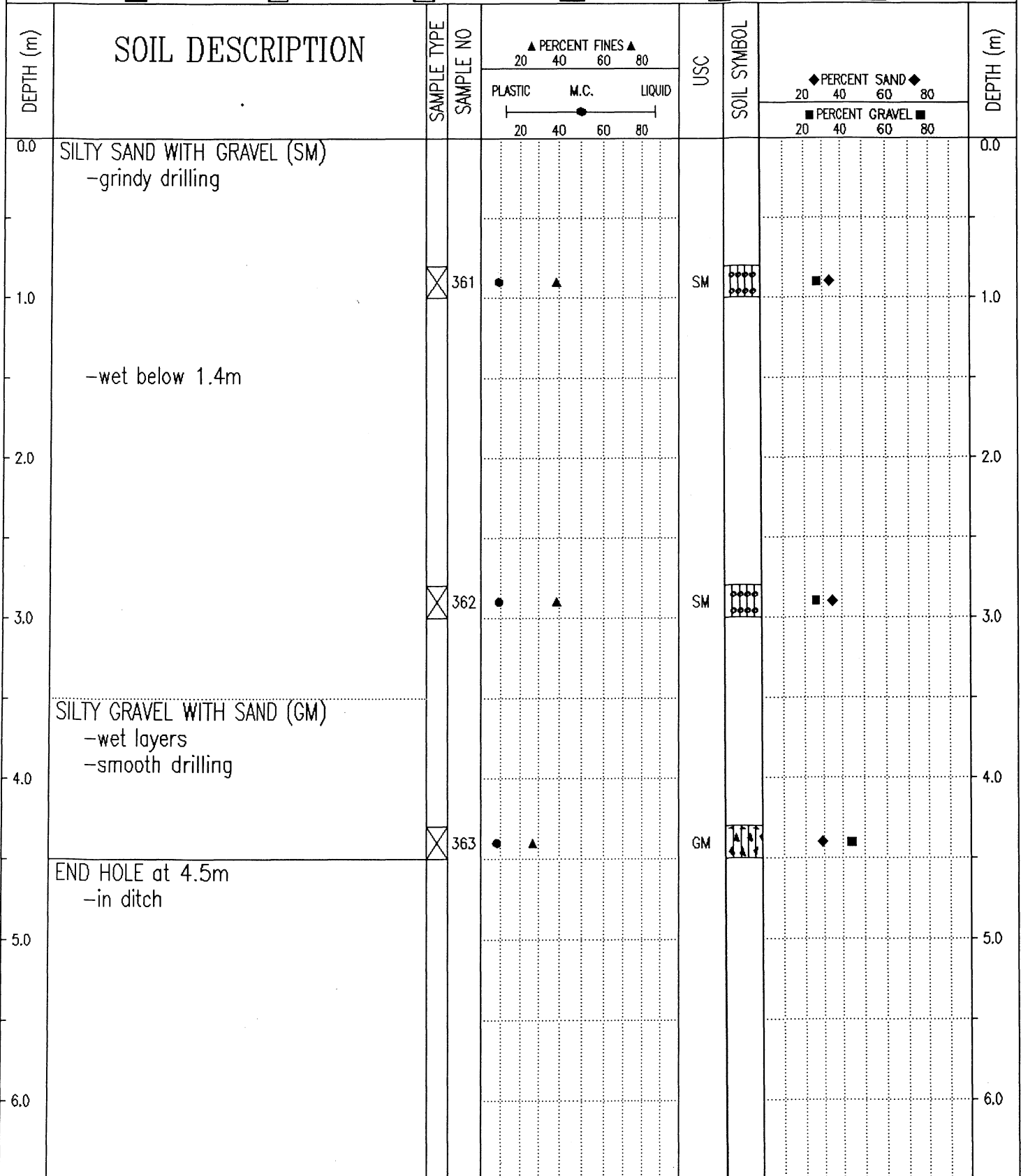
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| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 4.5 m |
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|   | Fig. No:      | Page 1 of 1             |

| SUBSURFACE EXPLORATION AND TEST REPORT      |  | ALASKA HIGHWAY PRE-ENGINEERING             |           | TEST HOLE NO: 252-147                     |      |        |     |             |                |    |           |
|---|--|--|-----------|---|------|--------|-----|-------------|----------------|----|-----------|
| SHAKWAK PROJECT                             |  | SEGMENT 16                                 |           | Project No: 202101-0312-193               |      |        |     |             |                |    |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER   |  | LOCATION: Sta. 1887+250 o/s Lt.            |           | ELEVATION: 0.00 (m)                       |      |        |     |             |                |    |           |
| SAMPLE TYPE <input type="checkbox"/> RETURN |  | <input checked="" type="checkbox"/> S.P.T. |           | <input checked="" type="checkbox"/> AUGER |      |        |     |             |                |    |           |
|   |  | <input type="checkbox"/> BULK              |           | <input type="checkbox"/> TUBE             |      |        |     |             |                |    |           |
|   |  |  |           | <input type="checkbox"/> CORE             |      |        |     |             |                |    |           |
| DEPTH (m)                                   | SOIL DESCRIPTION   | SAMPLE TYPE                                | SAMPLE NO | PERCENT FINES ▲                           |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | DEPTH (m) |
|   |  |  |           | PLASTIC                                   | M.C. | LIQUID |     |             | 20             | 40 |           |
| 0.0   | ORGANIC MATERIAL   |  |           |   |      |        |     |             |                |    | 0.0       |
| 1.0   | SANDY SILT (ML)<br>-frozen<br>-organic                     | <input checked="" type="checkbox"/>        | 367       |   |      |        | ML  |             |                |    | 1.0       |
| 3.0   | SILTY SAND WITH GRAVEL (SM)<br>-frozen<br>-grindy drilling | <input checked="" type="checkbox"/>        | 368       |   |      |        | SM  |             |                |    | 3.0       |
| 4.0   | END HOLE at 4.1m<br>-refusal                               | <input checked="" type="checkbox"/>        | 369       |   |      |        | SM  |             |                |    | 4.0       |
| 5.0   |  |  |           |   |      |        |     |             |                |    | 5.0       |
| 6.0   |  |  |           |   |      |        |     |             |                |    | 6.0       |

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| LOGGED BY: TF | COMPLETION DEPTH: 4.1 m |
| REVIEWED BY:  | COMPLETE: 93/09/22      |
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| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING             | TEST HOLE NO: 252-145                      |
| SHAKWAK PROJECT                           | SEGMENT 16                                 | Project No: 202101-0312-193                |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1887+450 o/s 5m Lt.         | ELEVATION: 0.00 (m)                        |
| SAMPLE TYPE                               | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. |
|   | <input checked="" type="checkbox"/> AUGER  | <input type="checkbox"/> BULK              |
|   | <input type="checkbox"/> TUBE              | <input type="checkbox"/> CORE              |

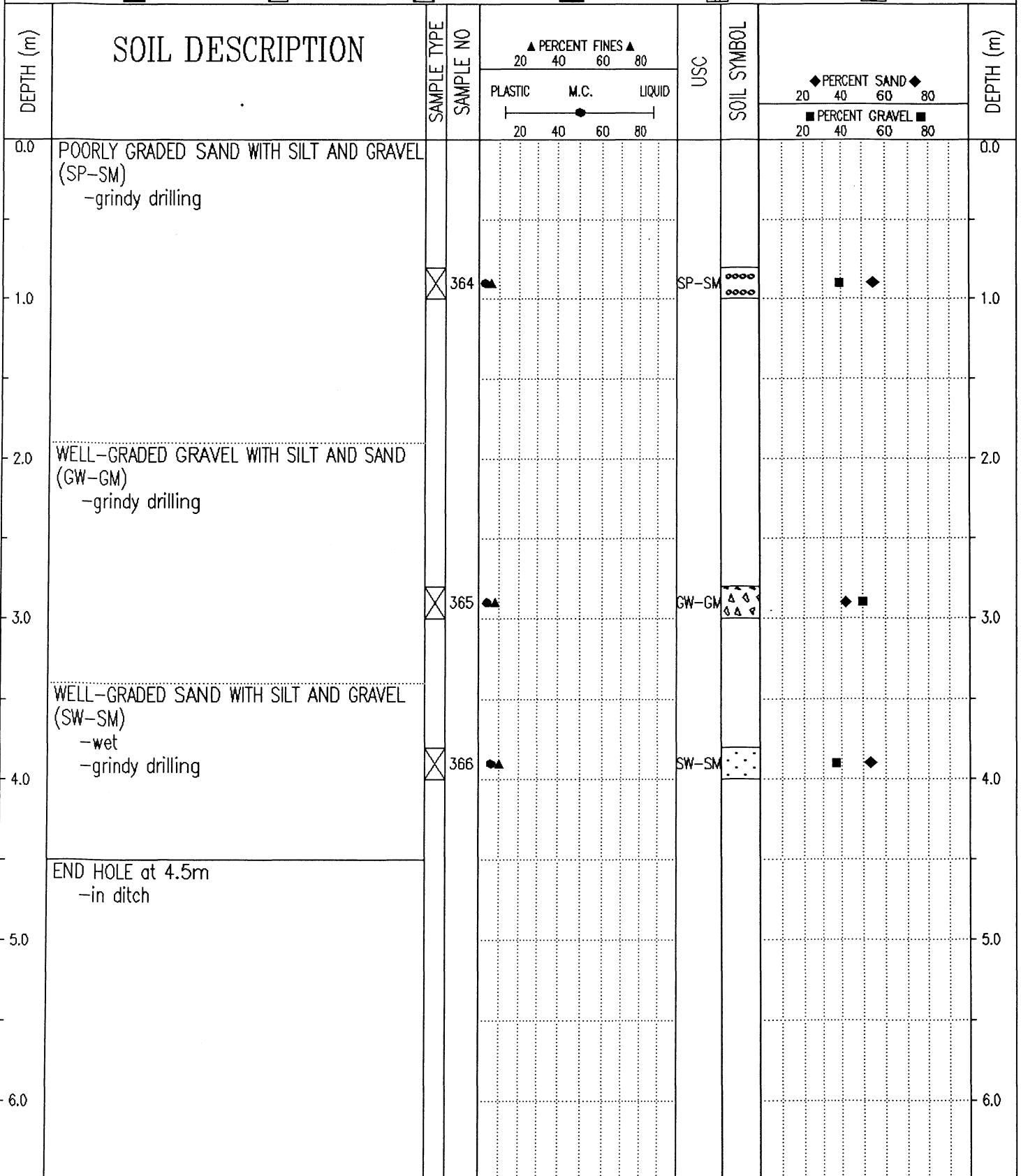


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COMPLETION DEPTH: 4.5 m  
COMPLETE: 93/09/21

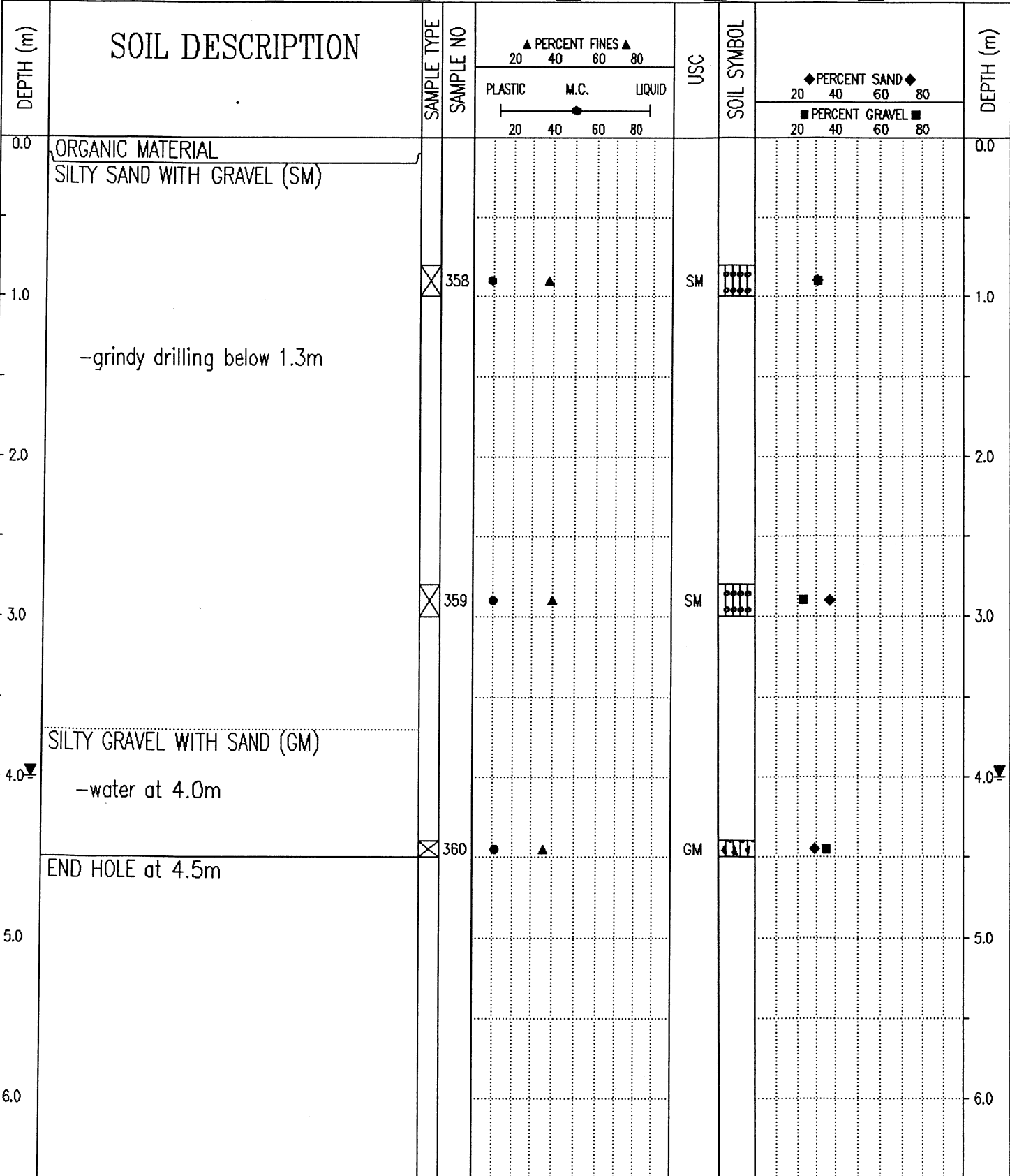
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| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING             | TEST HOLE NO: 252-146                      |
| SHAKWAK PROJECT                           | SEGMENT 16                                 | Project No: 202101-0312-193                |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1887+475 o/s 7m Lt.         | ELEVATION: 0.00 (m)                        |
| SAMPLE TYPE                               | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. |
|   | <input checked="" type="checkbox"/> AUGER  | <input type="checkbox"/> BULK              |
|   | <input type="checkbox"/> TUBE              | <input type="checkbox"/> CORE              |



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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 252-144       |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1887+600        | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |



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| LOGGED BY: TF | COMPLETION DEPTH: 4.5 m |
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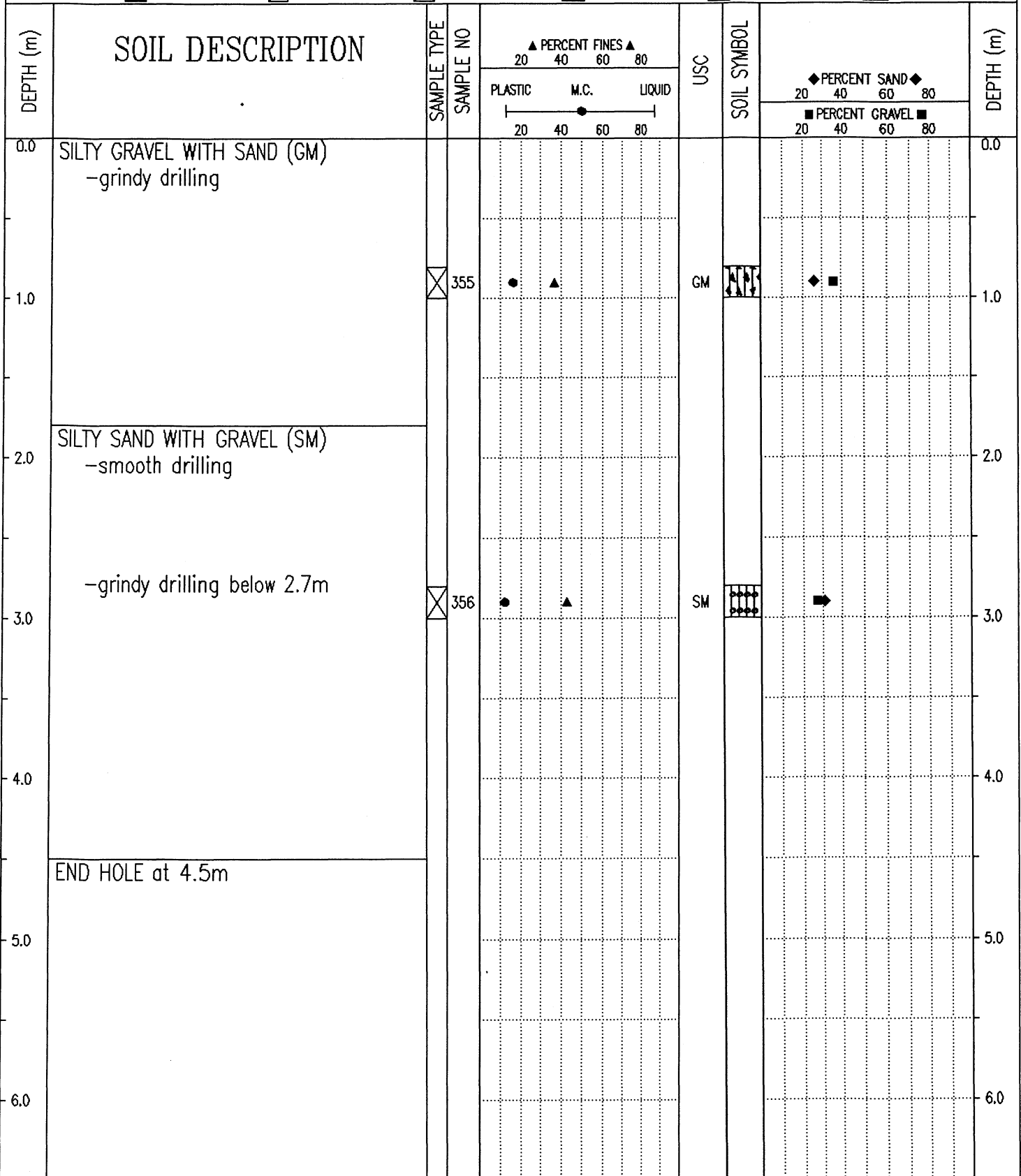
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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 252-143       |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1887+700        | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | ▲ PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|-------------------|------|--------|-----|-------------|------------------|----|-----------|
|           |   |                                     |           | PLASTIC           | M.C. | LIQUID |     |             | 20               | 40 |           |
| 0.0       | ORGANIC MATERIAL<br>SILTY GRAVEL WITH SAND (GM)<br>-grindy drilling |                                     |           |                   |      |        |     |             |                  |    | 0.0       |
| 1.0       |   | <input checked="" type="checkbox"/> | 357       | ●                 | ▲    |        | GM  | ▲▲▲         | ■                |    | 1.0       |
| 2.0       | SANDY CLAY WITH GRAVEL<br>-grindy drilling                          |                                     |           |                   |      |        |     |             |                  |    | 2.0       |
| 3.0       | -smooth drilling below 2.2m<br>-grindy drilling below 2.6m          |                                     |           |                   |      |        |     |             |                  |    | 3.0       |
| 4.0       | -smooth drilling below 3.4m<br>-grindy drilling below 3.7m          |                                     |           |                   |      |        |     |             |                  |    | 4.0       |
| 5.0       | END HOLE at 4.5m  |                                     |           |                   |      |        |     |             |                  |    | 5.0       |
| 6.0       |   |                                     |           |                   |      |        |     |             |                  |    | 6.0       |

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| LOGGED BY: TF | COMPLETION DEPTH: 4.5 m |
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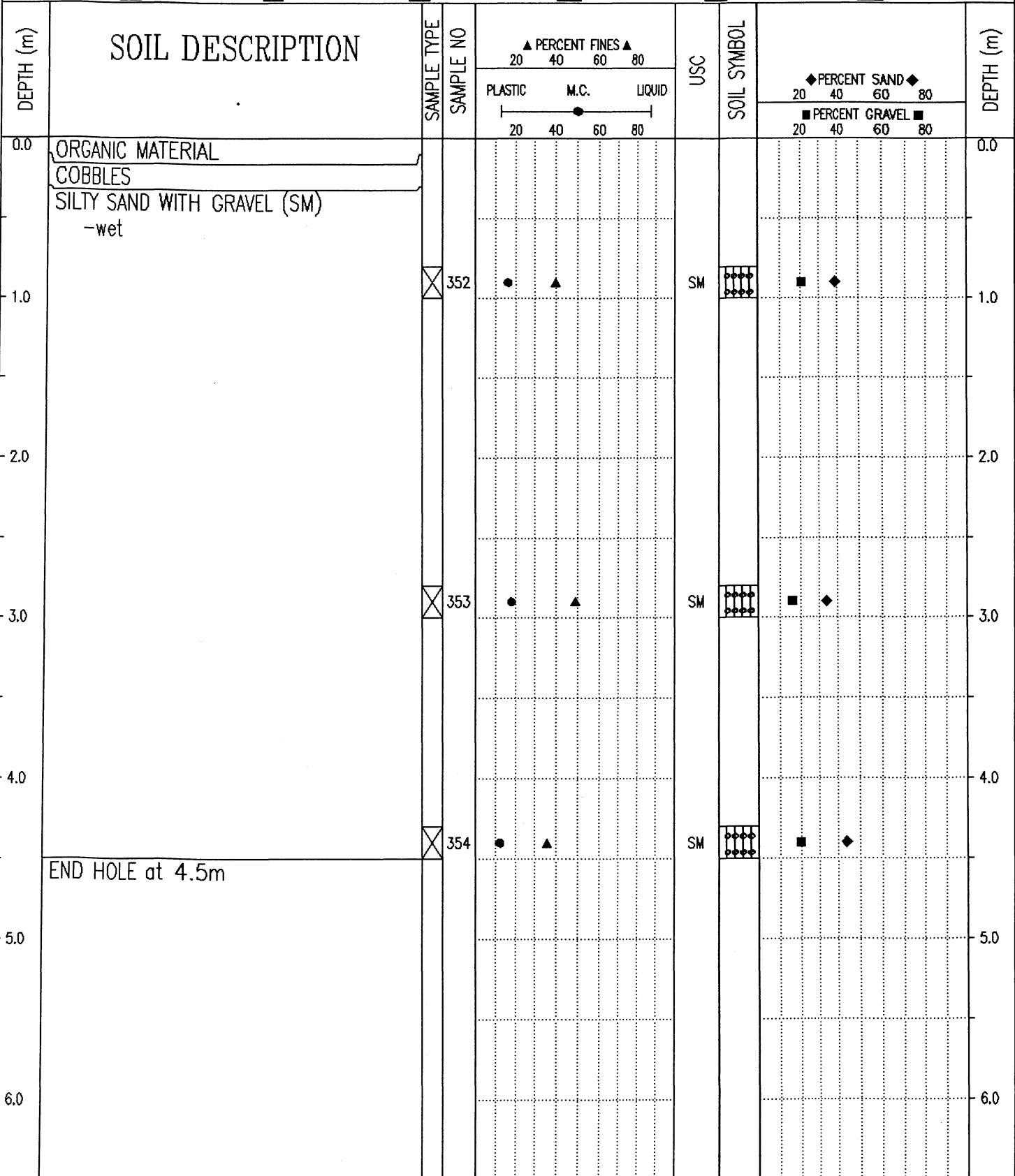
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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 252-142       |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1887+800        | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |



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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 252-141       |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1887+900        | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |



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| Fig. No:      | Page 1 of 1             |

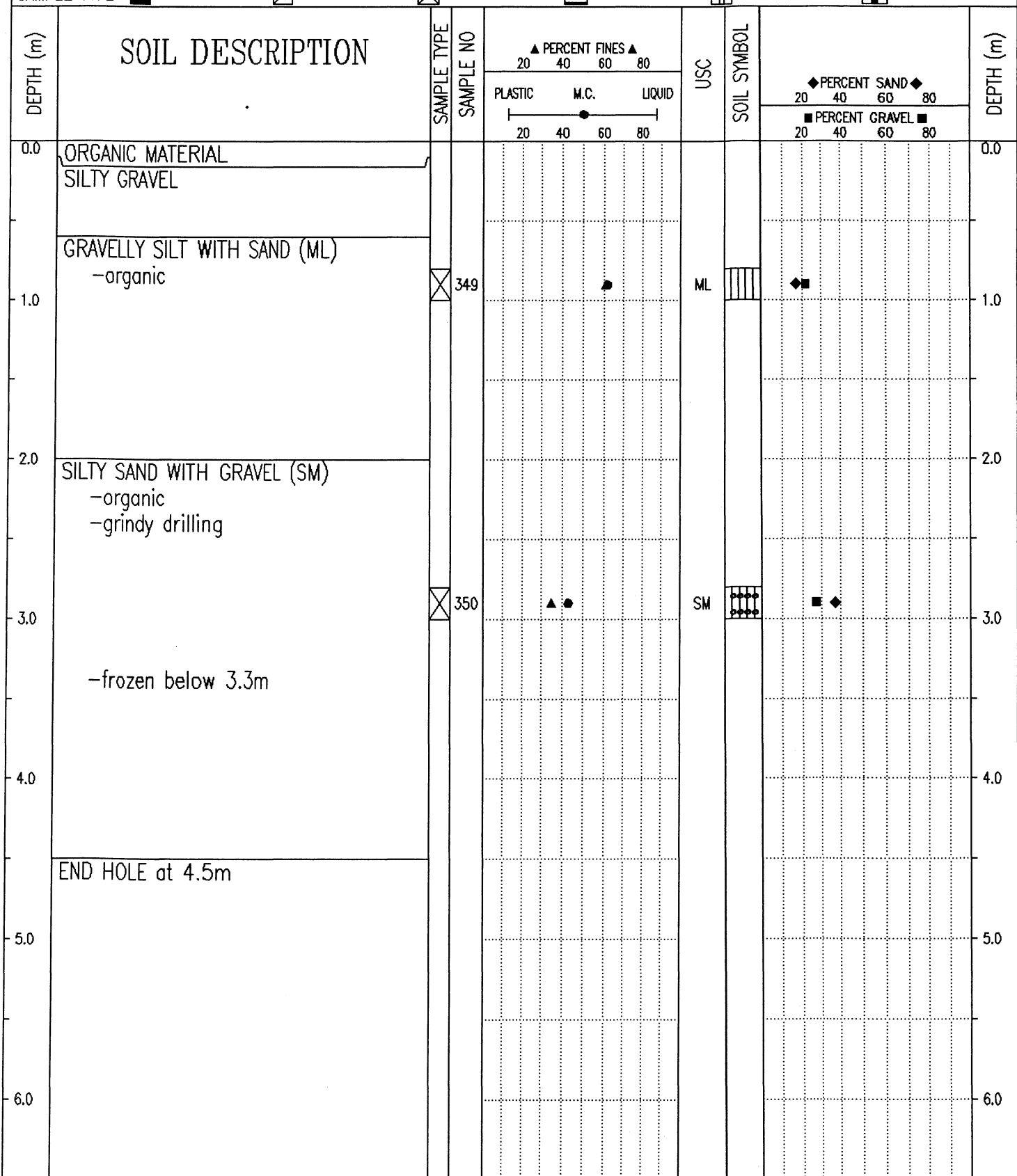
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| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 252-140       |
| SHAKWAK PROJECT                           | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1888+000        | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|---|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|------------------|-----------|
|           |   |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 |                  |           |
| 0.0       | ORGANIC MATERIAL<br>SILTY GRAVEL<br>SILTY SAND (SM)<br>-organic                         |             |           |                 |      |        |     |             |                |    | 0.0              |           |
| 1.0       | -frozen below 1.1m  |             | 351       |                 |      |        | SM  |             |                |    | 1.0              |           |
| 2.0       | GRAVELLY SILT<br>-grindy drilling<br><br>-smooth drilling below 1.9m<br>-wet below 2.0m |             |           |                 |      |        |     |             |                |    | 2.0              |           |
| 3.0       | -grindy drilling below 2.5m<br>-no material augering up                                 |             |           |                 |      |        |     |             |                |    | 3.0              |           |
| 4.0       | -saturated below 3.4m, possibly ice melting while drilling                              |             |           |                 |      |        |     |             |                |    | 4.0              |           |
| 5.0       | END HOLE at 4.5m  |             |           |                 |      |        |     |             |                |    | 5.0              |           |
| 6.0       |   |             |           |                 |      |        |     |             |                |    | 6.0              |           |

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| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 4.5 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/21      |
|   | Fig. No:      | Page 1 of 1             |

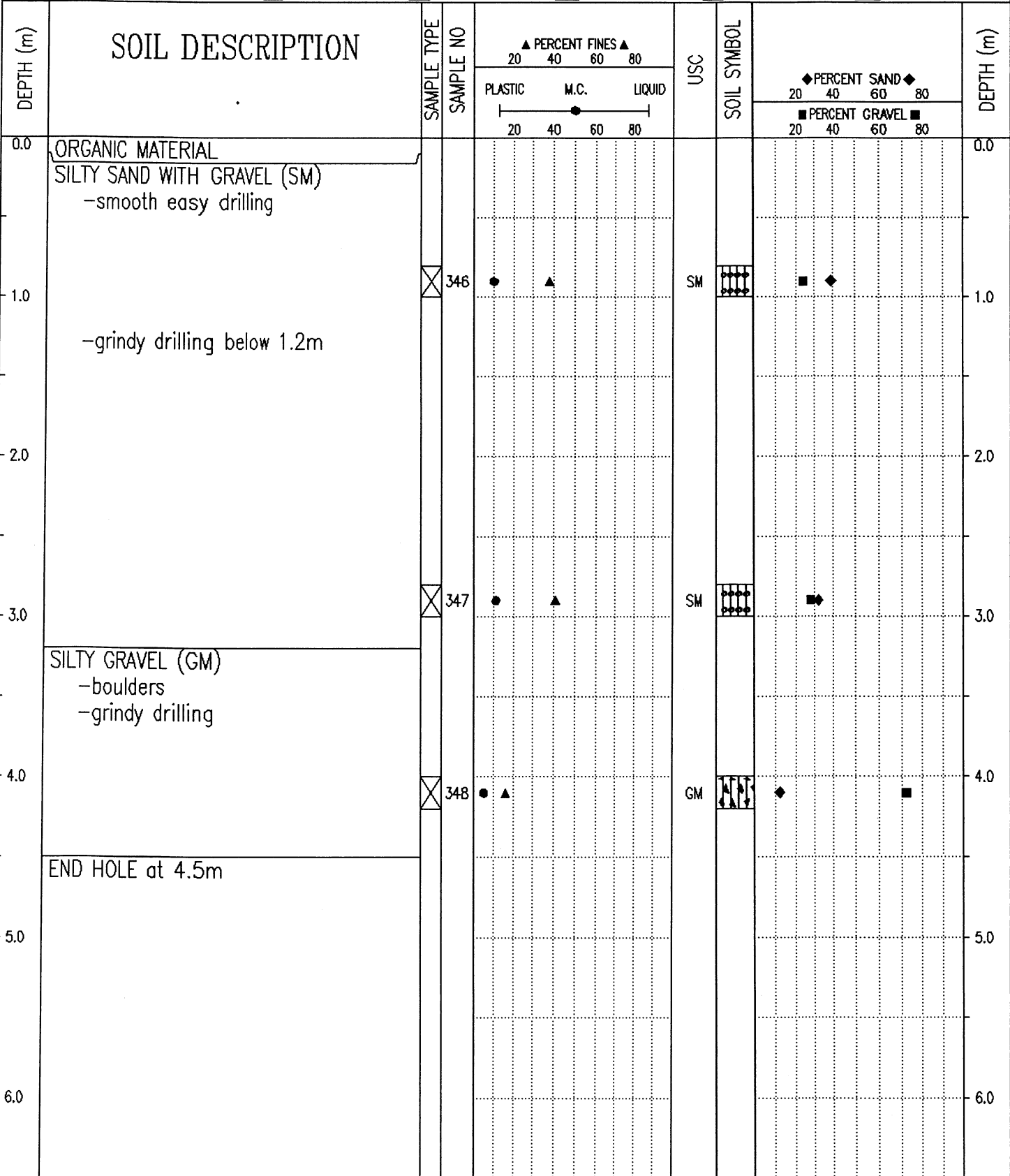
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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 252-139       |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1888+100        | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |



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| Fig. No:      | Page 1 of 1             |

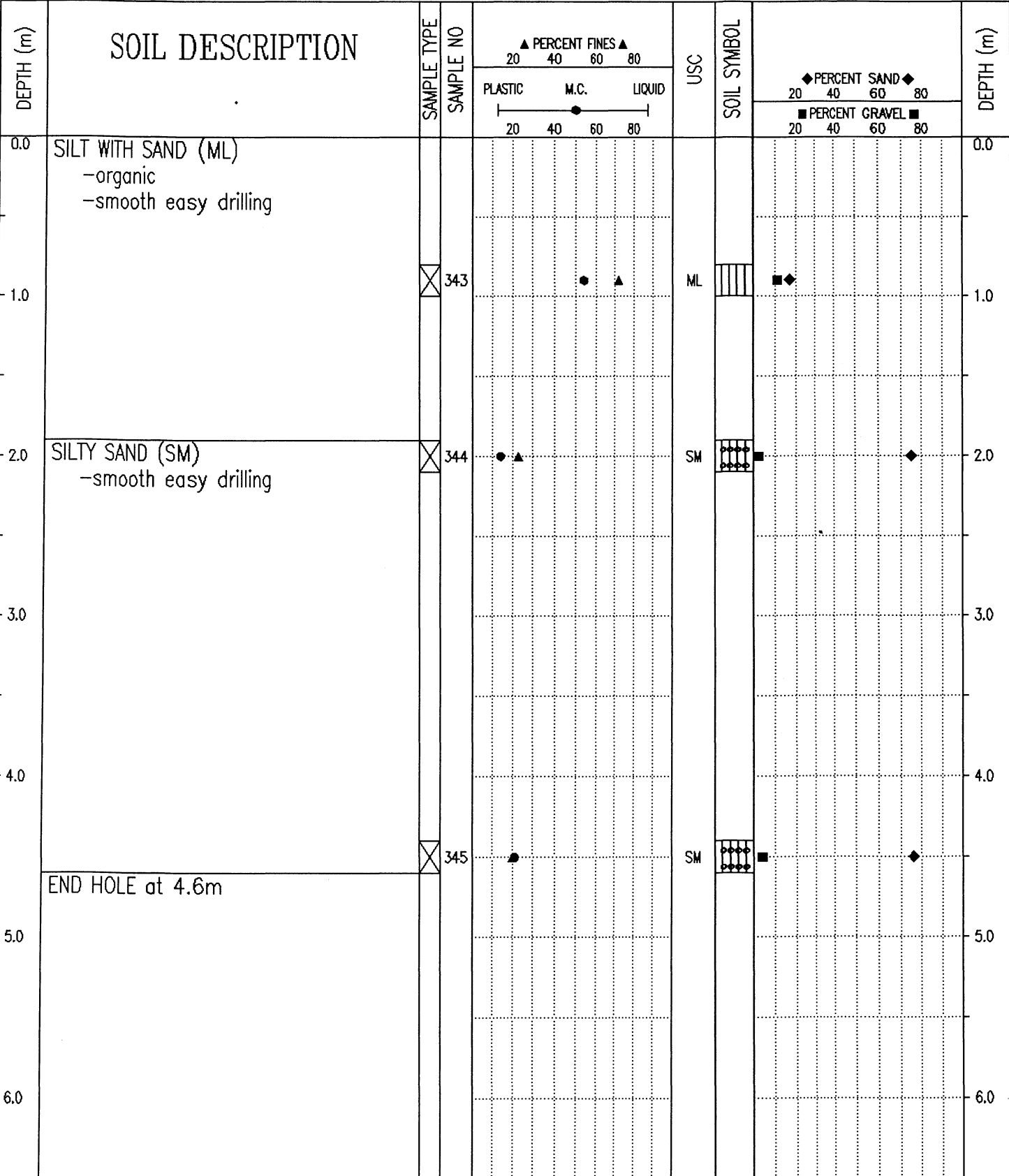
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|--|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 252-138       |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1888+200        | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |



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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 252-137       |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1888+300        | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |

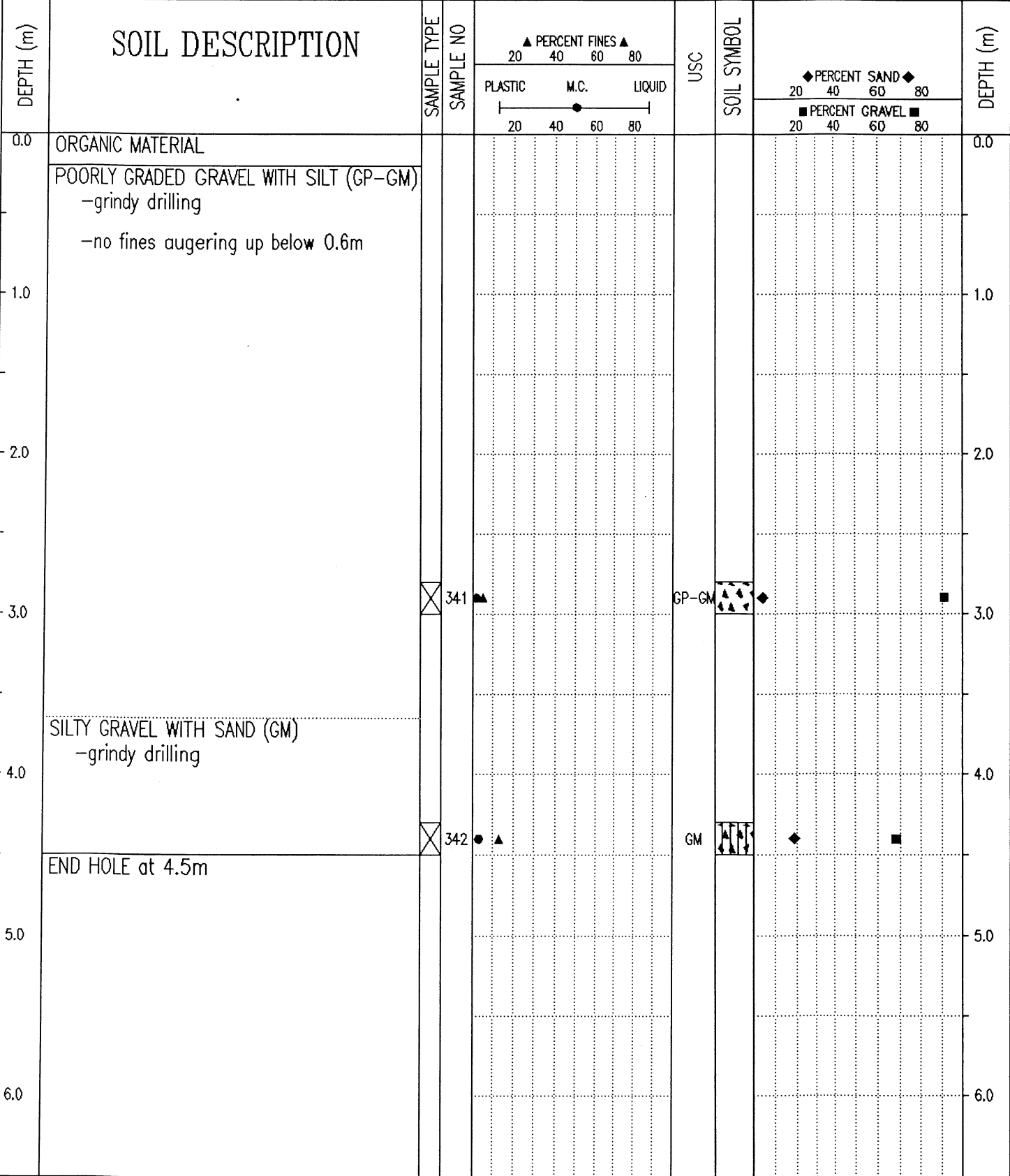


Government of Yukon  
Transportation Engineering

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| LOGGED BY: TF | COMPLETION DEPTH: 4.6 m |
| REVIEWED BY:  | COMPLETE: 93/09/21      |
| Fig. No:      | Page 1 of 1             |

|   |                                     |                             |
|---|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING      | TEST HOLE NO: 252-136       |
| SHAKWAK PROJECT                           | SEGMENT 16                          | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1888+400 o/s 10m Rt. | ELEVATION: 0.00 (m)         |

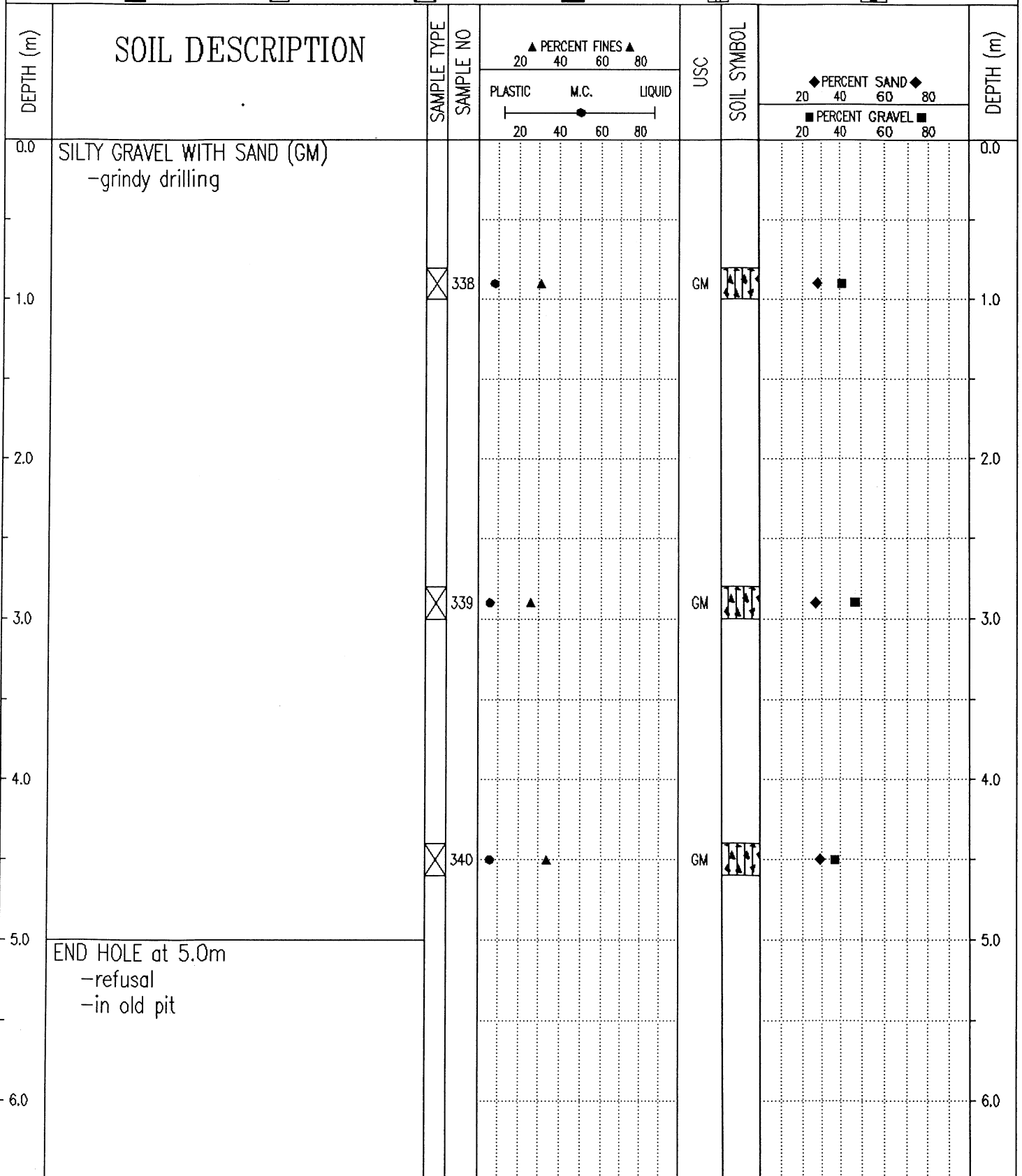
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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Transportation Engineering

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| LOGGED BY: TF | COMPLETION DEPTH: 4.5 m |
| REVIEWED BY:  | COMPLETE: 93/09/21      |
| Fig. No:      | Page 1 of 1             |

|  |  |                                      |                             |
|--|--|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   |  | ALASKA HIGHWAY PRE-ENGINEERING       | TEST HOLE NO: 252-135       |
| SHAKWAK PROJECT  |  | SEGMENT 16                           | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  |  | LOCATION: Sta. 1888+470 o/s 100m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                                      |                             |



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LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 93/09/21

|   |  |                             |
|---|--|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING   | TEST HOLE NO: 252-134       |
| SHAKWAK PROJECT                           | SEGMENT 16   | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1888+500 o/s 15m Rt.  | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE                               | <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                             |

| DEPTH (m) | SOIL DESCRIPTION                      | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |     | DEPTH (m) |
|-----------|---------------------------------------|-------------|-----------|-------------------|------|--------|-----|-------------|------------------|-----|-----------|
|           |                                       |             |           | PLASTIC           | M.C. | LIQUID |     |             | 20               | 40  |           |
| 0.0       | ORGANIC SILT<br>-smooth easy drilling |             |           |                   |      |        |     |             |                  | 0.0 |           |
| 1.0       | SILTY SAND WITH GRAVEL                |             |           |                   |      |        |     |             |                  | 1.0 |           |
| 2.0       | SILT<br><br>-frozen below 2.2m        |             |           |                   |      |        |     |             |                  | 2.0 |           |
| 3.0       | SILTY GRAVEL<br>-grindy drilling      |             |           |                   |      |        |     |             |                  | 3.0 |           |
| 4.0       | END HOLE at 4.0m                      |             |           |                   |      |        |     |             |                  | 4.0 |           |
| 5.0       |                                       |             |           |                   |      |        |     |             |                  | 5.0 |           |
| 6.0       |                                       |             |           |                   |      |        |     |             |                  | 6.0 |           |

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Transportation Engineering

LOGGED BY: TF

COMPLETION DEPTH: 4.0 m

REVIEWED BY:

COMPLETE: 93/09/21

Fig. No:

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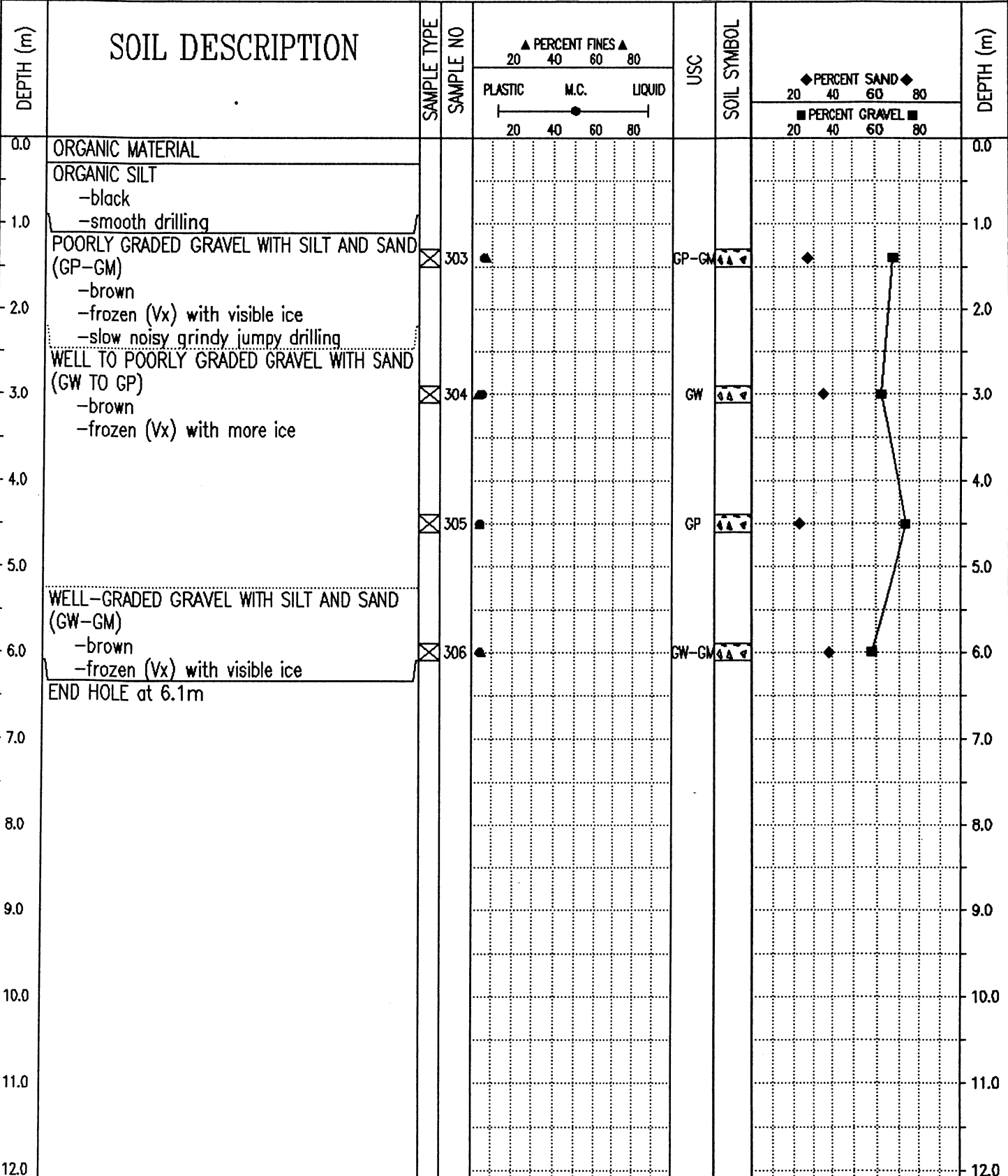
|   |                                     |                             |
|---|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  | ALASKA HIGHWAY PRE-ENGINEERING      | TEST HOLE NO: 252-133       |
| SHAKWAK PROJECT   | SEGMENT 16                          | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER   | LOCATION: Sta. 1888+600 o/s 15m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION                                | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND & GRAVEL |                | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|---------------|------|--------|-----|-------------|-----------------------|----------------|-----------|
|           |   |                                     |           | PLASTIC       | M.C. | LIQUID |     |             | PERCENT SAND          | PERCENT GRAVEL |           |
| 0.0       | SANDY SILT (ML)<br>-organic<br>-smooth drilling |                                     |           |               |      |        |     |             |                       | 0.0            |           |
| 1.0       | -frozen below 1.4m                              | <input checked="" type="checkbox"/> | 337       |               |      |        | ML  |             |                       | 1.0            |           |
| 2.0       |   |                                     |           |               |      |        |     |             |                       | 2.0            |           |
| 3.0       | -visible ice below 3.1m                         |                                     |           |               |      |        |     |             |                       | 3.0            |           |
| 4.0       | SILTY GRAVEL<br>-grindy drilling                |                                     |           |               |      |        |     |             |                       | 4.0            |           |
| 5.0       | END HOLE at 4.6m                                |                                     |           |               |      |        |     |             |                       | 5.0            |           |
| 6.0       |   |                                     |           |               |      |        |     |             |                       | 6.0            |           |

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Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: TF | COMPLETION DEPTH: 4.6 m |
| REVIEWED BY:  | COMPLETE: 93/09/21      |
| Fig. No:      | Page 1 of 1             |

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | SHAKWAK PROJECT                     | TEST PIT NO: 330-224        |
| ENGINEERING-CAPITAL  | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER   | LOCATION: Sta. 1888+675 o/s 25m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |

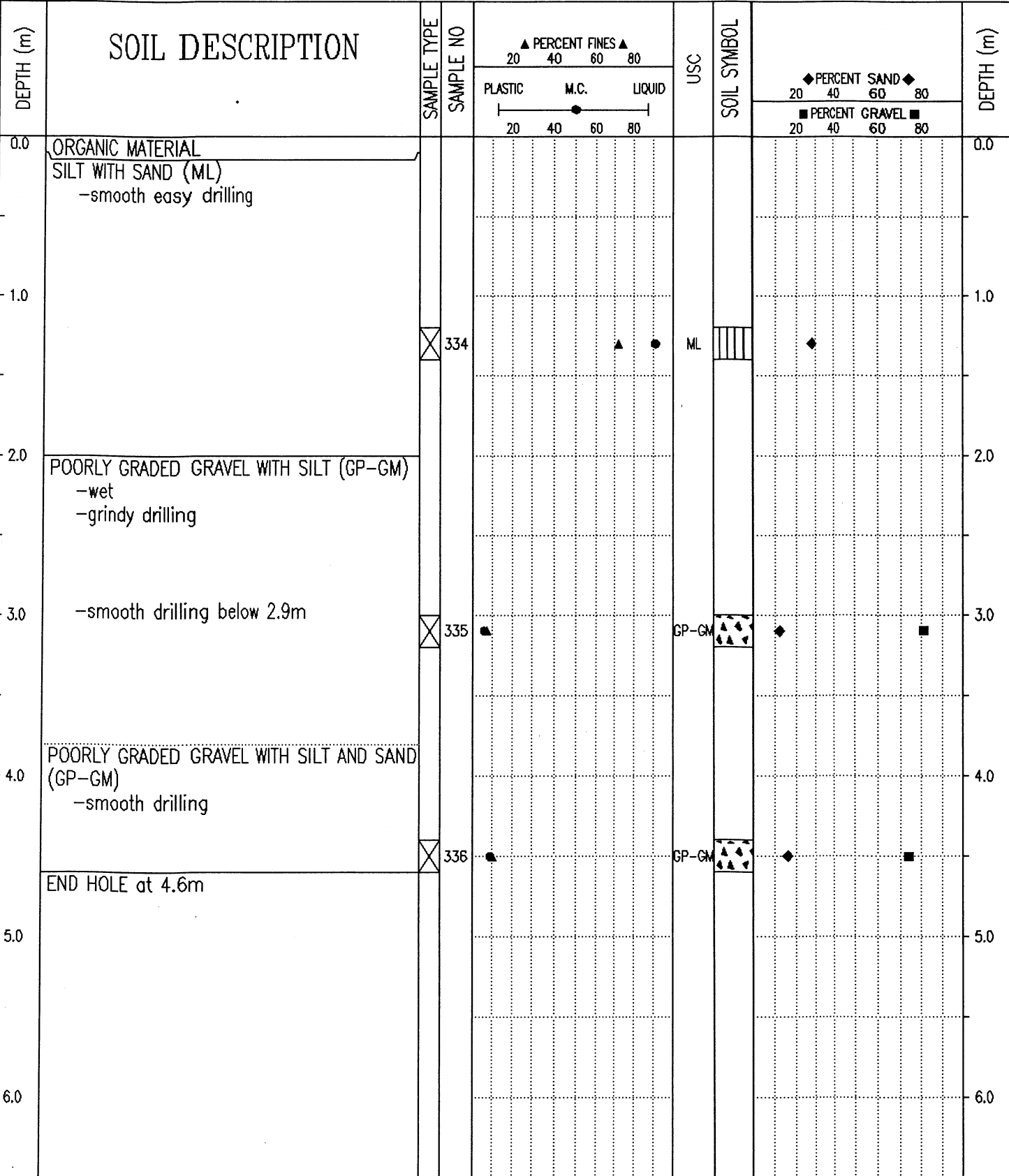


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Transportation Engineering

LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 6.1 m  
COMPLETE: 94/09/08

|  |                                |                             |
|--|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 252-132       |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1888+700        | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |

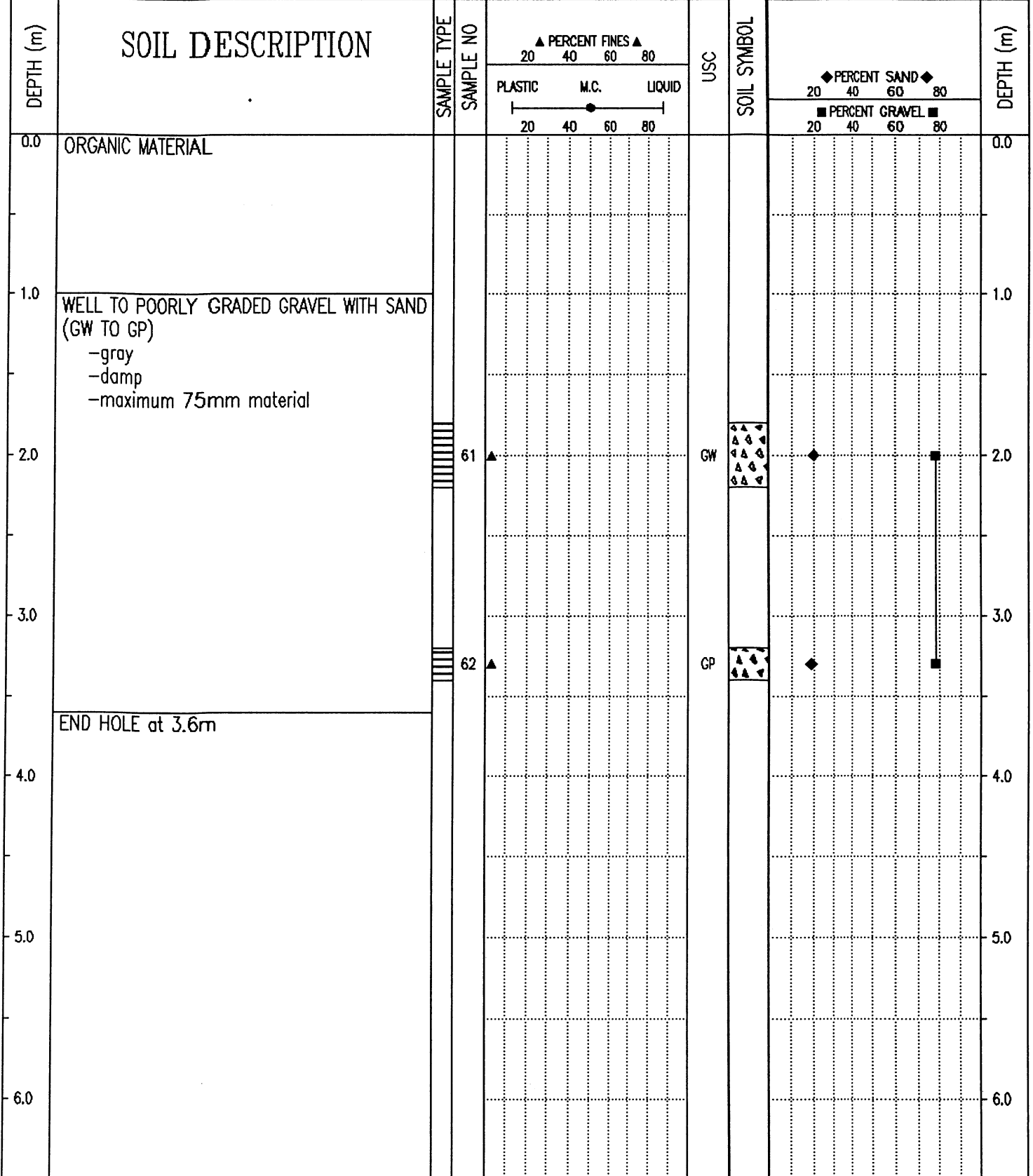


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Transportation Engineering

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| LOGGED BY: TF | COMPLETION DEPTH: 4.6 m |
| REVIEWED BY:  | COMPLETE: 93/09/21      |
| Fig. No:      | Page 1 of 1             |

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST PIT NO: 318-74         |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1888+700 o/s 10m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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|               |                         |
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| LOGGED BY: DA | COMPLETION DEPTH: 3.6 m |
| REVIEWED BY:  | COMPLETE: 94/08/25      |
| Fig. No:      | Page 1 of 1             |

|  |  |   |                             |
|--|--|---|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   |  | SHAKWAK PROJECT   | TEST PIT NO: 318-73         |
| ENGINEERING-CAPITAL  |  | SEGMENT 16  | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   |  | LOCATION: Sta. 1888+700 o/s 16m Lt.   | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. |  | <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                             |

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|--------------------|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|----|-----------|
|           |                    |             |           | 20              | 40 | 60 |     |             | 80             | 20 | 40 |           |
| 0.0       | ORGANIC MATERIAL   |             |           |                 |    |    |     |             |                |    |    | 0.0       |
|           | -frozen below 0.6m |             |           |                 |    |    |     |             |                |    |    |           |
| 1.0       | GRAVEL             |             |           |                 |    |    |     |             |                |    |    | 1.0       |
|           | -frozen            |             |           |                 |    |    |     |             |                |    |    |           |
|           | END HOLE at 1.2m   |             |           |                 |    |    |     |             |                |    |    |           |
| 2.0       |                    |             |           |                 |    |    |     |             |                |    |    | 2.0       |
| 3.0       |                    |             |           |                 |    |    |     |             |                |    |    | 3.0       |
| 4.0       |                    |             |           |                 |    |    |     |             |                |    |    | 4.0       |
| 5.0       |                    |             |           |                 |    |    |     |             |                |    |    | 5.0       |
| 6.0       |                    |             |           |                 |    |    |     |             |                |    |    | 6.0       |

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|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 1.2 m |
|   | REVIEWED BY:  | COMPLETE: 94/08/25      |
|   | Fig. No:      | Page 1 of 1             |

|   |  |  |  |   |  |
|---|--|--|--|---|--|
| SUBSURFACE EXPLORATION AND TEST REPORT      |  | SHAKWAK PROJECT                            |  | TEST PIT NO: 318-72                       |  |
| ENGINEERING-CAPITAL                         |  | SEGMENT 16                                 |  | Project No: 092-202101-0312               |  |
| BACKHOE: CAT 225                            |  | LOCATION: Sta. 1888+700 o/s 20m Rt.        |  | ELEVATION: 0.00 (m)                       |  |
| SAMPLE TYPE <input type="checkbox"/> RETURN |  | <input checked="" type="checkbox"/> S.P.T. |  | <input checked="" type="checkbox"/> AUGER |  |
|   |  | <input type="checkbox"/> BULK              |  | <input type="checkbox"/> TUBE             |  |
|   |  |  |  | <input type="checkbox"/> CORE             |  |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆   |             |  | DEPTH (m) |
|-----------|---|-------------|-----------|-------------------|------|--------|-----|-------------|--------------------|-------------|--|-----------|
|           |   |             |           | 20 40 60 80       |      |        |     |             | 20 40 60 80        |             |  |           |
|           |   |             |           | PLASTIC           | M.C. | LIQUID |     |             | ■ PERCENT GRAVEL ■ | 20 40 60 80 |  |           |
| 0.0       | ORGANIC MATERIAL  |             |           |                   |      |        |     |             |                    |             |  | 0.0       |
| 1.0       | SANDY GRAVEL<br>-gray<br>-maximum 50mm material<br>-sample #60 not tested |             | 60        |                   |      |        |     |             |                    |             |  | 1.0       |
| 2.0       | -frozen with visible ice below 1.6m<br>END HOLE at 1.8m                   |             |           |                   |      |        |     |             |                    |             |  | 2.0       |
| 3.0       |   |             |           |                   |      |        |     |             |                    |             |  | 3.0       |
| 4.0       |   |             |           |                   |      |        |     |             |                    |             |  | 4.0       |
| 5.0       |   |             |           |                   |      |        |     |             |                    |             |  | 5.0       |
| 6.0       |   |             |           |                   |      |        |     |             |                    |             |  | 6.0       |

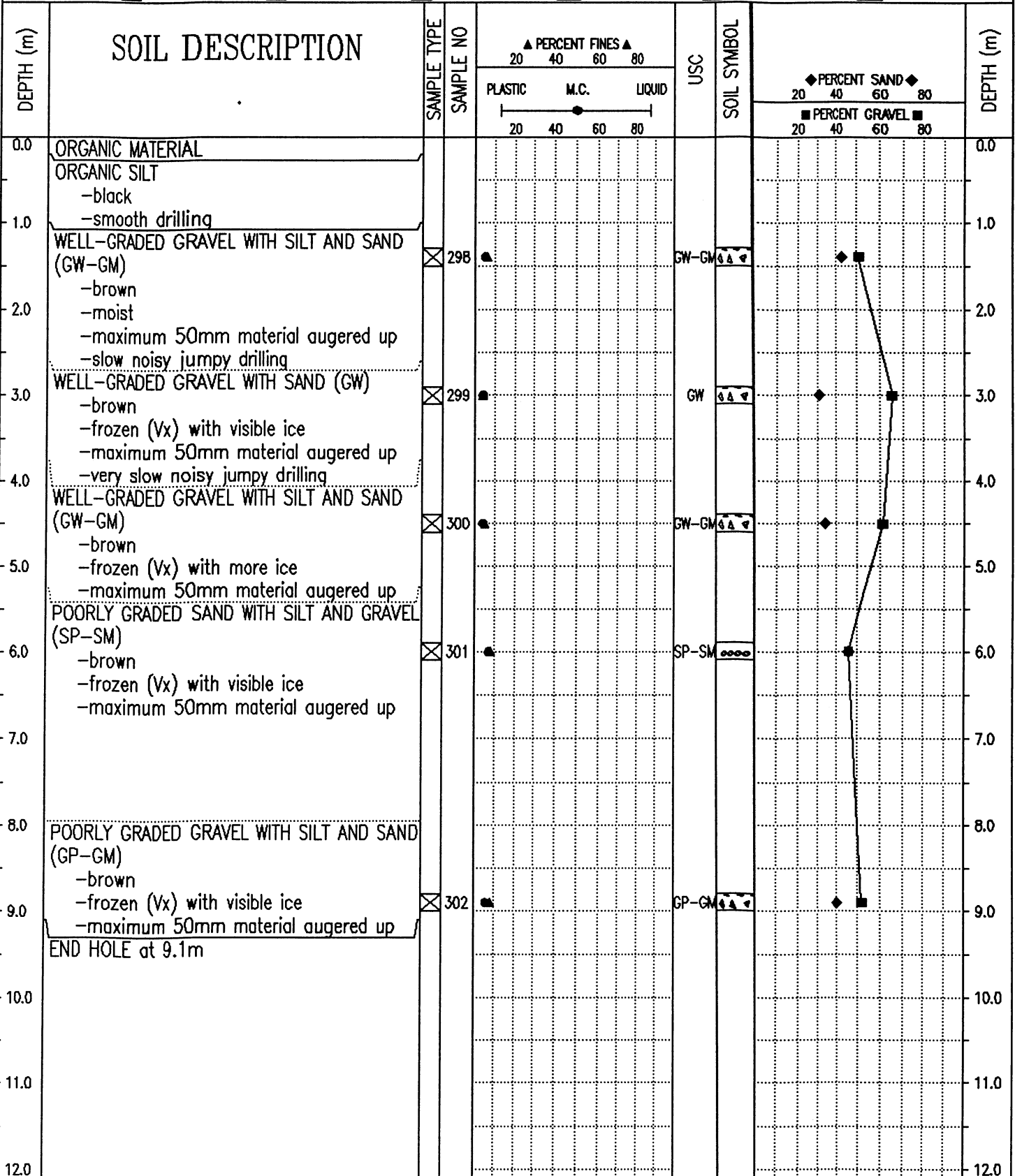
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| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 1.8 m |
|   | REVIEWED BY:  | COMPLETE: 94/08/25      |
|   | Fig. No:      | Page 1 of 1             |

SAMPLE TYPE  RETURN     S.P.T.     AUGER     BULK     TUBE     CORE

| DEPTH (m) | SOIL DESCRIPTION                  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|-----------------------------------|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|-----------|
|           |                                   |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 |           |
| 0.0       | ORGANIC MATERIAL                  |             |           |                 |      |        |     |             |                |    | 0.0       |
|           | ORGANIC SILT                      |             |           |                 |      |        |     |             |                |    |           |
|           | -black                            |             |           |                 |      |        |     |             |                |    |           |
|           | -smooth drilling                  |             |           |                 |      |        |     |             |                |    |           |
| 1.0       | SANDY GRAVEL                      |             |           |                 |      |        |     |             |                |    | 1.0       |
|           | -brown                            |             |           |                 |      |        |     |             |                |    |           |
|           | -frozen (Vx) with visible ice     |             |           |                 |      |        |     |             |                |    |           |
|           | -some silt                        |             |           |                 |      |        |     |             |                |    |           |
|           | -maximum 50mm material augered up |             |           |                 |      |        |     |             |                |    |           |
|           | -slow noisy jumpy drilling        |             |           |                 |      |        |     |             |                |    |           |
|           | -sample #307 not tested           |             |           |                 |      |        |     |             |                |    |           |
|           | -more ice below 2.8m              |             |           |                 |      |        |     |             |                |    |           |
|           | -sample #308 not tested           |             |           |                 |      |        |     |             |                |    |           |
| 2.0       |                                   |             | 307       |                 |      |        |     |             |                |    | 2.0       |
| 3.0       |                                   |             | 308       |                 |      |        |     |             |                |    | 3.0       |
| 4.0       |                                   |             |           |                 |      |        |     |             |                |    | 4.0       |
|           | -sample #309 not tested           |             |           |                 |      |        |     |             |                |    |           |
| 5.0       |                                   |             | 309       |                 |      |        |     |             |                |    | 5.0       |
| 6.0       |                                   |             | 310       |                 |      |        |     |             |                |    | 6.0       |
| 7.0       |                                   |             |           |                 |      |        |     |             |                |    | 7.0       |
| 8.0       |                                   |             |           |                 |      |        |     |             |                |    | 8.0       |
|           | -more silt below 8.4m             |             |           |                 |      |        |     |             |                |    |           |
|           | -sample #311 not tested           |             |           |                 |      |        |     |             |                |    |           |
| 9.0       |                                   |             | 311       |                 |      |        |     |             |                |    | 9.0       |
|           | END HOLE at 9.1m                  |             |           |                 |      |        |     |             |                |    |           |
| 10.0      |                                   |             |           |                 |      |        |     |             |                |    | 10.0      |

95/01/12 09:48AM

|   |                                     |                             |
|---|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  | SHAKWAK PROJECT                     | TEST PIT NO: 330-223        |
| ENGINEERING-CAPITAL   | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER  | LOCATION: Sta. 1888+750 o/s 25m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |



Government of Yukon  
Transportation Engineering

LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 9.1 m  
COMPLETE: 94/09/08  
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|  |                                     |                             |
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| SUBSURFACE EXPLORATION AND TEST REPORT   | SHAKWAK PROJECT                     | TEST PIT NO: 319-75         |
| ENGINEERING-CAPITAL  | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   | LOCATION: Sta. 1888+775 o/s 18m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION                      | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆   |  |     | DEPTH (m) |
|-----------|---------------------------------------|-------------|-----------|-----------------|------|--------|-----|-------------|------------------|--|-----|-----------|
|           |                                       |             |           | PLASTIC         | M.C. | LIQUID |     |             | PERCENT GRAVEL ■ |  |     |           |
| 0.0       | ORGANIC MATERIAL                      |             |           |                 |      |        |     |             |                  |  | 0.0 |           |
| 1.0       | GRAVEL<br>-frozen<br>END HOLE at 1.2m |             |           |                 |      |        |     |             |                  |  | 1.0 |           |
| 2.0       |                                       |             |           |                 |      |        |     |             |                  |  | 2.0 |           |
| 3.0       |                                       |             |           |                 |      |        |     |             |                  |  | 3.0 |           |
| 4.0       |                                       |             |           |                 |      |        |     |             |                  |  | 4.0 |           |
| 5.0       |                                       |             |           |                 |      |        |     |             |                  |  | 5.0 |           |
| 6.0       |                                       |             |           |                 |      |        |     |             |                  |  | 6.0 |           |

Government of Yukon  
Transportation Engineering

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| LOGGED BY: DA | COMPLETION DEPTH: 1.2 m |
| REVIEWED BY:  | COMPLETE: 94/08/26      |
| Fig. No:      | Page 1 of 1             |

|  |  |   |                             |
|--|--|---|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   |  | SHAKWAK PROJECT   | TEST PIT NO: 318-71         |
| ENGINEERING-CAPITAL  |  | SEGMENT 16  | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   |  | LOCATION: Sta. 1888+775 o/s 25m Rt.   | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. |  | <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|---|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|-----------|
|           |   |             |           | 20              | 40 | 60 |     |             | 80             | 20 |                  |           |
| 0.0       | ORGANIC MATERIAL  |             |           |                 |    |    |     |             |                |    |                  | 0.0       |
| 1.0       | SILTY GRAVEL<br>-brown<br>-maximum 50mm material<br>-water below 0.8m<br>-frozen below 1.2m |             |           |                 |    |    |     |             |                |    |                  | 1.0       |
| 1.4       | END HOLE at 1.4m  |             |           |                 |    |    |     |             |                |    |                  | 1.4       |
| 2.0       |   |             |           |                 |    |    |     |             |                |    |                  | 2.0       |
| 3.0       |   |             |           |                 |    |    |     |             |                |    |                  | 3.0       |
| 4.0       |   |             |           |                 |    |    |     |             |                |    |                  | 4.0       |
| 5.0       |   |             |           |                 |    |    |     |             |                |    |                  | 5.0       |
| 6.0       |   |             |           |                 |    |    |     |             |                |    |                  | 6.0       |

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Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.4 m  
COMPLETE: 94/08/25

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST PIT NO: 319-76         |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1888+775 o/s 50m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|--|-------------|-----------|-------------------|------|--------|-----|-------------|------------------|----|-----------|
|           |  |             |           | PLASTIC           | M.C. | LIQUID |     |             | 20               | 40 |           |
| 0.0       | ORGANIC MATERIAL   |             |           |                   |      |        |     |             |                  |    | 0.0       |
| 1.0       | SILT<br>-dark brown<br>-frozen with visible ice                                      |             |           |                   |      |        |     |             |                  |    | 1.0       |
| 2.0       | SILTY GRAVEL WITH SAND (GM)<br>-gray<br>-frozen with visible ice<br>END HOLE at 1.7m |             | 63        | ▲                 |      |        | GM  | ◆           | ■                |    | 2.0       |
| 3.0       |  |             |           |                   |      |        |     |             |                  |    | 3.0       |
| 4.0       |  |             |           |                   |      |        |     |             |                  |    | 4.0       |
| 5.0       |  |             |           |                   |      |        |     |             |                  |    | 5.0       |
| 6.0       |  |             |           |                   |      |        |     |             |                  |    | 6.0       |

Government of Yukon  
Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: DA | COMPLETION DEPTH: 1.7 m |
| REVIEWED BY:  | COMPLETE: 94/08/26      |
| Fig. No:      | Page 1 of 1             |

|  |                                      |                             |
|--|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                      | TEST PIT NO: 319-77         |
| ENGINEERING-CAPITAL                    | SEGMENT 16                           | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1888+775 o/s 100m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

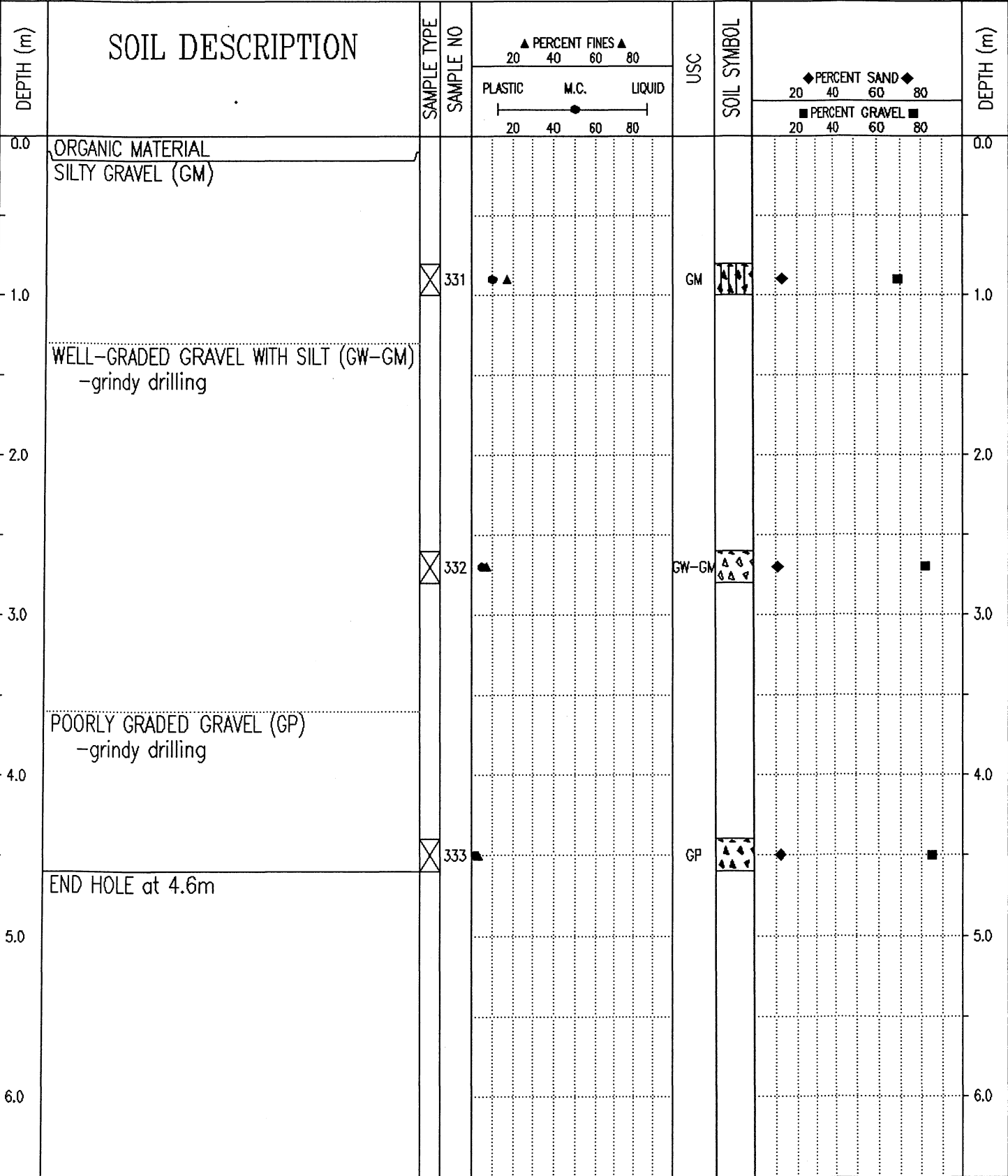
| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | ■ PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|---|-------------|-----------|-------------------|----|----|-----|-------------|------------------|----|--------------------|-----------|
|           |   |             |           | 20                | 40 | 60 |     |             | 80               | 20 |                    |           |
| 0.0       | ORGANIC MATERIAL  |             |           |                   |    |    |     |             |                  |    | 0.0                |           |
|           | SILT<br>-dark brown<br>-frozen with visible ice   |             |           |                   |    |    |     |             |                  |    |                    |           |
| 1.0       | POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM)<br>-gray<br>-frozen<br>END HOLE at 1.3m |             | 64        | ▲                 |    |    |     | GP-GM       | ◆                | ■  | 1.0                |           |
| 2.0       |   |             |           |                   |    |    |     |             |                  |    | 2.0                |           |
| 3.0       |   |             |           |                   |    |    |     |             |                  |    | 3.0                |           |
| 4.0       |   |             |           |                   |    |    |     |             |                  |    | 4.0                |           |
| 5.0       |   |             |           |                   |    |    |     |             |                  |    | 5.0                |           |
| 6.0       |   |             |           |                   |    |    |     |             |                  |    | 6.0                |           |

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LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.3 m  
COMPLETE: 94/08/26

|  |                                |                             |
|--|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 252-131       |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1888+800        | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |

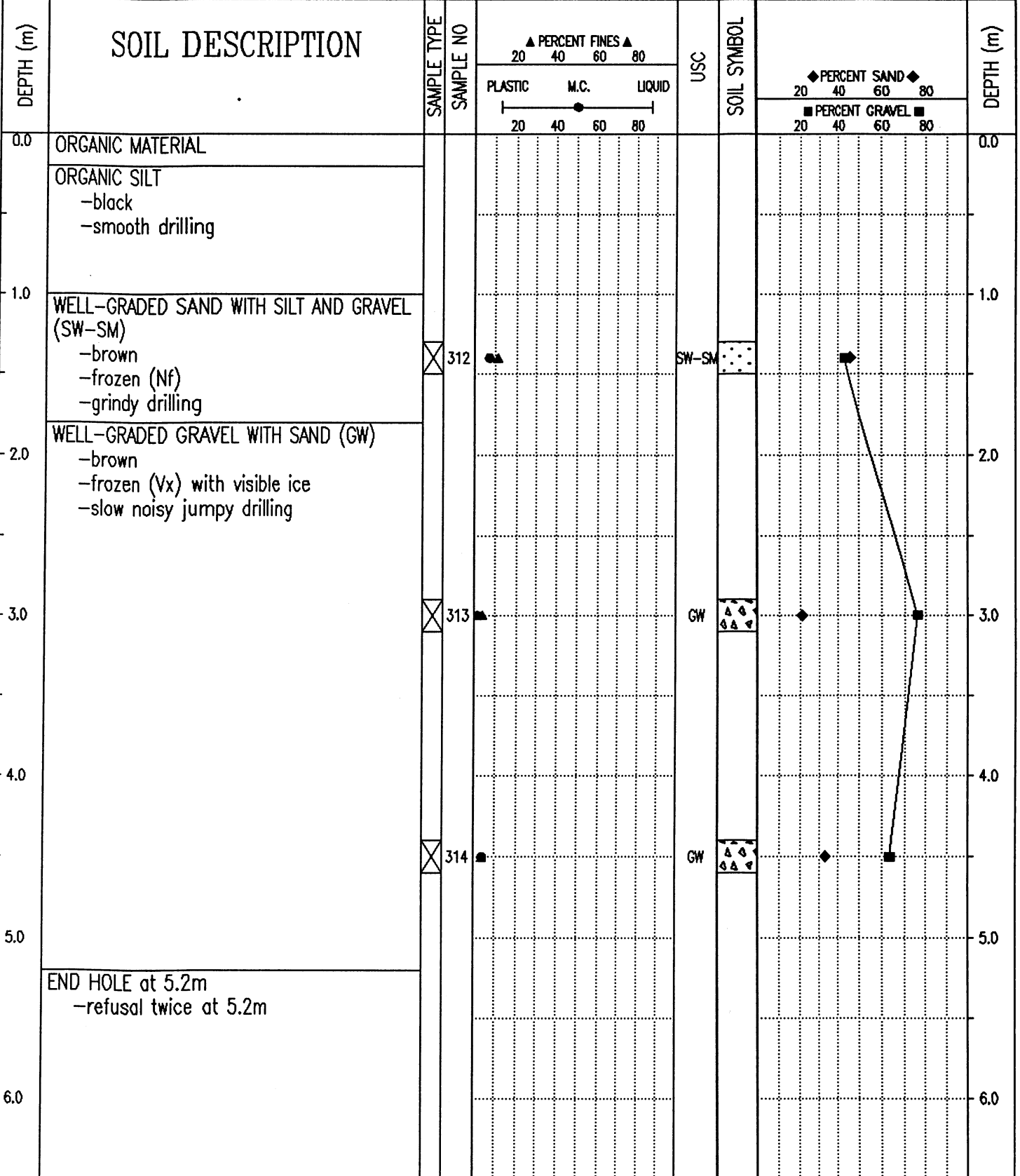


Government of Yukon  
Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: TF | COMPLETION DEPTH: 4.6 m |
| REVIEWED BY:  | COMPLETE: 93/09/21      |
| Fig. No:      | Page 1 of 1             |

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST PIT NO: 330-226        |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: Sta. 1888+800 o/s 20m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

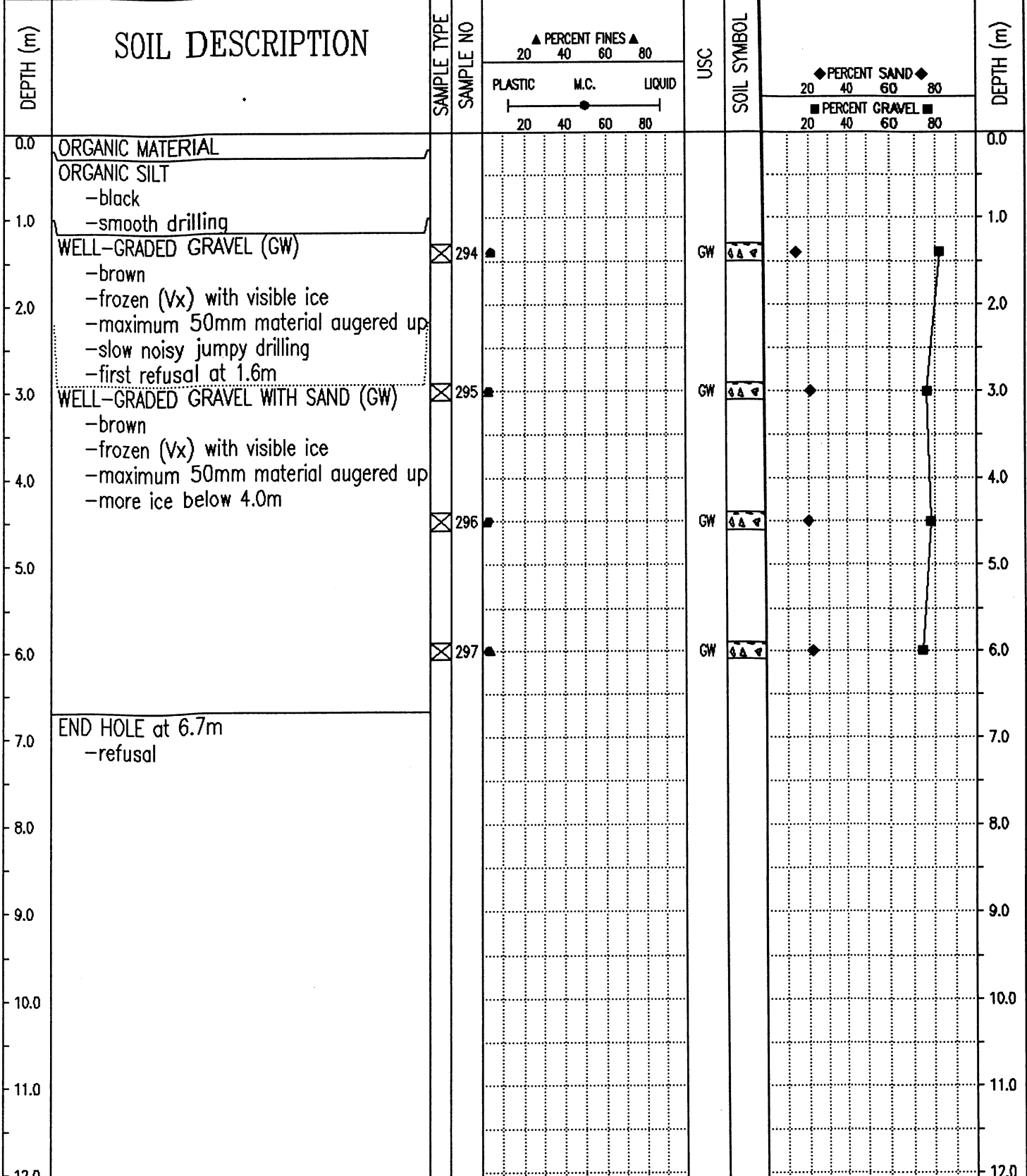


Government of Yukon  
Transportation Engineering

LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.2 m  
COMPLETE: 94/09/09

|  |  |  |   |
|--|--|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT |  | SHAKWAK PROJECT                            | TEST PIT NO: 330-222                      |
| ENGINEERING-CAPITAL                    |  | SEGMENT 16                                 | Project No: 092-202101-0312               |
| DRILL: B40L 150mm SOLID STEM AUGER     |  | LOCATION: Sta. 1888+825 o/s 25m Rt.        | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|  |  |  | <input type="checkbox"/> BULK             |
|  |  |  | <input type="checkbox"/> TUBE             |
|  |  |  | <input type="checkbox"/> CORE             |



|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DT | COMPLETION DEPTH: 6.7 m |
|   | REVIEWED BY:  | COMPLETE: 94/09/08      |
|   | Fig. No:      | Page 1 of 1             |

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST PIT NO: 318-70         |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1888+850 o/s 15m Rt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

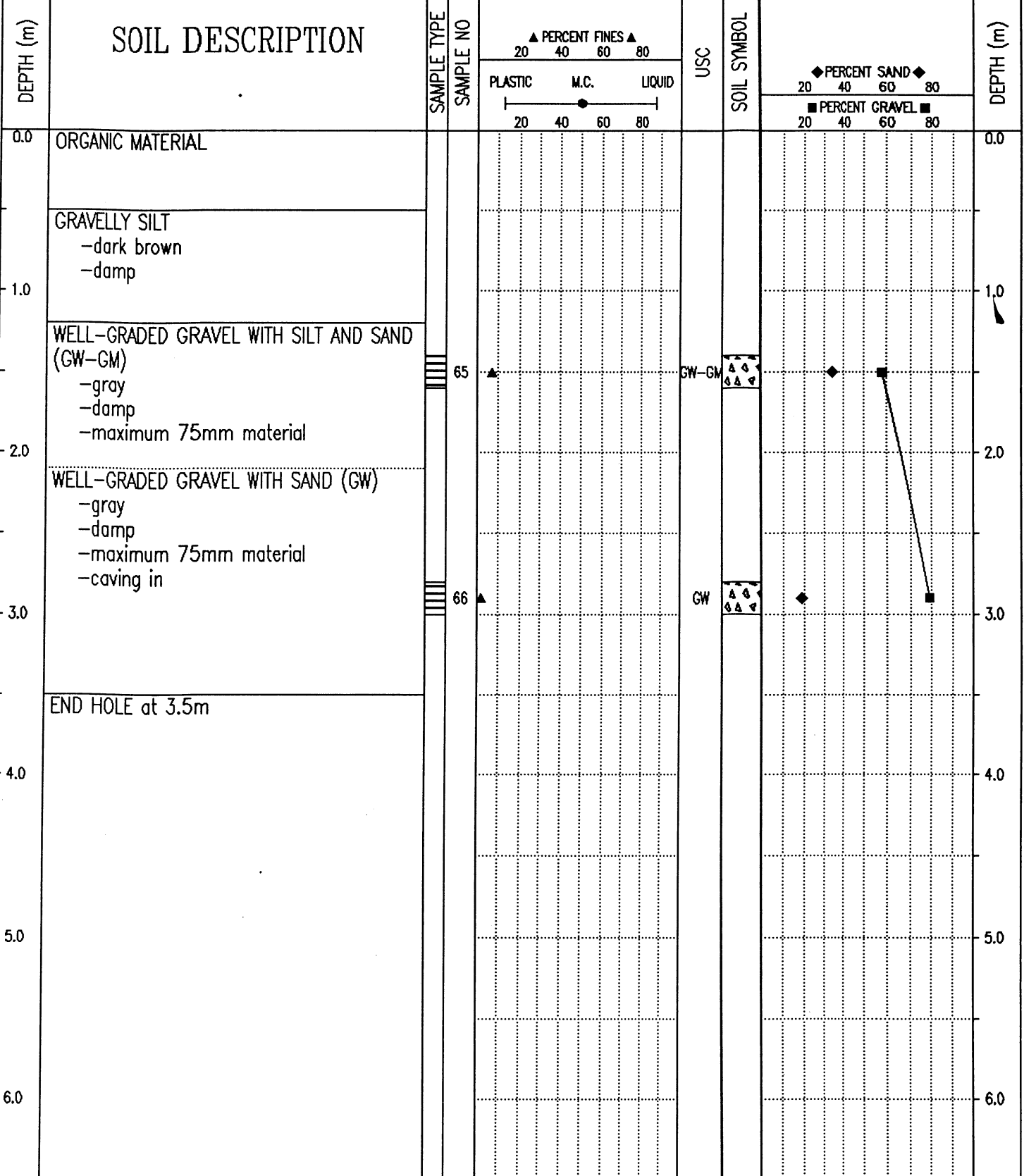
| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|--|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|-----------|
|           |  |             |           | 20              | 40 | 60 |     |             | 80             | 20 |                  |           |
| 0.0       | ORGANIC MATERIAL   |             |           |                 |    |    |     |             |                |    |                  | 0.0       |
| 1.0       | SANDY GRAVEL<br>-gray<br>-sample #59 not tested<br>-frozen with visible ice below 1.3m |             | 59        |                 |    |    |     |             |                |    |                  | 1.0       |
| 2.0       | END HOLE at 1.6m   |             |           |                 |    |    |     |             |                |    |                  | 2.0       |
| 3.0       |  |             |           |                 |    |    |     |             |                |    |                  | 3.0       |
| 4.0       |  |             |           |                 |    |    |     |             |                |    |                  | 4.0       |
| 5.0       |  |             |           |                 |    |    |     |             |                |    |                  | 5.0       |
| 6.0       |  |             |           |                 |    |    |     |             |                |    |                  | 6.0       |

Government of Yukon  
Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.6 m  
COMPLETE: 94/08/25

SAMPLE TYPE  RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



94/12/02 12:28PM

| SUBSURFACE EXPLORATION AND TEST REPORT |  | SHAKWAK PROJECT                     |           | TEST HOLE NO: 330-227       |      |        |     |             |                |    |    |           |      |
|--|--|-------------------------------------|-----------|-----------------------------|------|--------|-----|-------------|----------------|----|----|-----------|------|
| ENGINEERING-CAPITAL                    |  | SEGMENT 16                          |           | Project No: 092-202101-0312 |      |        |     |             |                |    |    |           |      |
| DRILL: B40L 150mm SOLID STEM AUGER     |  | LOCATION: Sta. 1888+875 o/s 25m Lt. |           | ELEVATION: 0.00 (m)         |      |        |     |             |                |    |    |           |      |
| SAMPLE TYPE                            |  | RETURN                              |           | S.P.T.                      |      |        |     |             |                |    |    |           |      |
| AUGER                                  |  | BULK                                |           | TUBE                        |      |        |     |             |                |    |    |           |      |
| CORE                                   |  |                                     |           |                             |      |        |     |             |                |    |    |           |      |
| DEPTH (m)                              | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES               |      |        | USC | SOIL SYMBOL | PERCENT SAND   |    |    | DEPTH (m) |      |
|  |  |                                     |           | PLASTIC                     | M.C. | LIQUID |     |             | PERCENT GRAVEL |    |    |           |      |
|  |  |                                     |           | 20                          | 40   | 60     | 80  |             | 20             | 40 | 60 | 80        |      |
| 0.0                                    | SANDY GRAVEL<br>- brown<br>- moist<br>- some silt<br>- maximum 50mm material augered up<br>- grindy drilling<br>- sample #315 not tested | ☒                                   | 315       |                             |      |        |     |             |                |    |    |           | 0.0  |
| 1.0                                    |  |                                     |           |                             |      |        |     |             |                |    |    |           | 1.0  |
| 2.0                                    |  |                                     |           |                             |      |        |     |             |                |    |    |           | 2.0  |
| 3.0                                    | - sample #316 not tested   | ☒                                   | 316       |                             |      |        |     |             |                |    |    |           | 3.0  |
| 4.0                                    |  |                                     |           |                             |      |        |     |             |                |    |    |           | 4.0  |
| 5.0                                    | - sample #317 not tested   | ☒                                   | 317       |                             |      |        |     |             |                |    |    |           | 5.0  |
| 6.0                                    | - sample #318 not tested   | ☒                                   | 318       |                             |      |        |     |             |                |    |    |           | 6.0  |
| 7.0                                    |  |                                     |           |                             |      |        |     |             |                |    |    |           | 7.0  |
| 8.0                                    |  |                                     |           |                             |      |        |     |             |                |    |    |           | 8.0  |
| 9.0                                    | - wet below 8.4m<br>- sample #319 not tested   | ☒                                   | 319       |                             |      |        |     |             |                |    |    |           | 9.0  |
| 10.0                                   | END HOLE at 9.1m<br>- in old pit   |                                     |           |                             |      |        |     |             |                |    |    |           | 10.0 |

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Transportation Engineering

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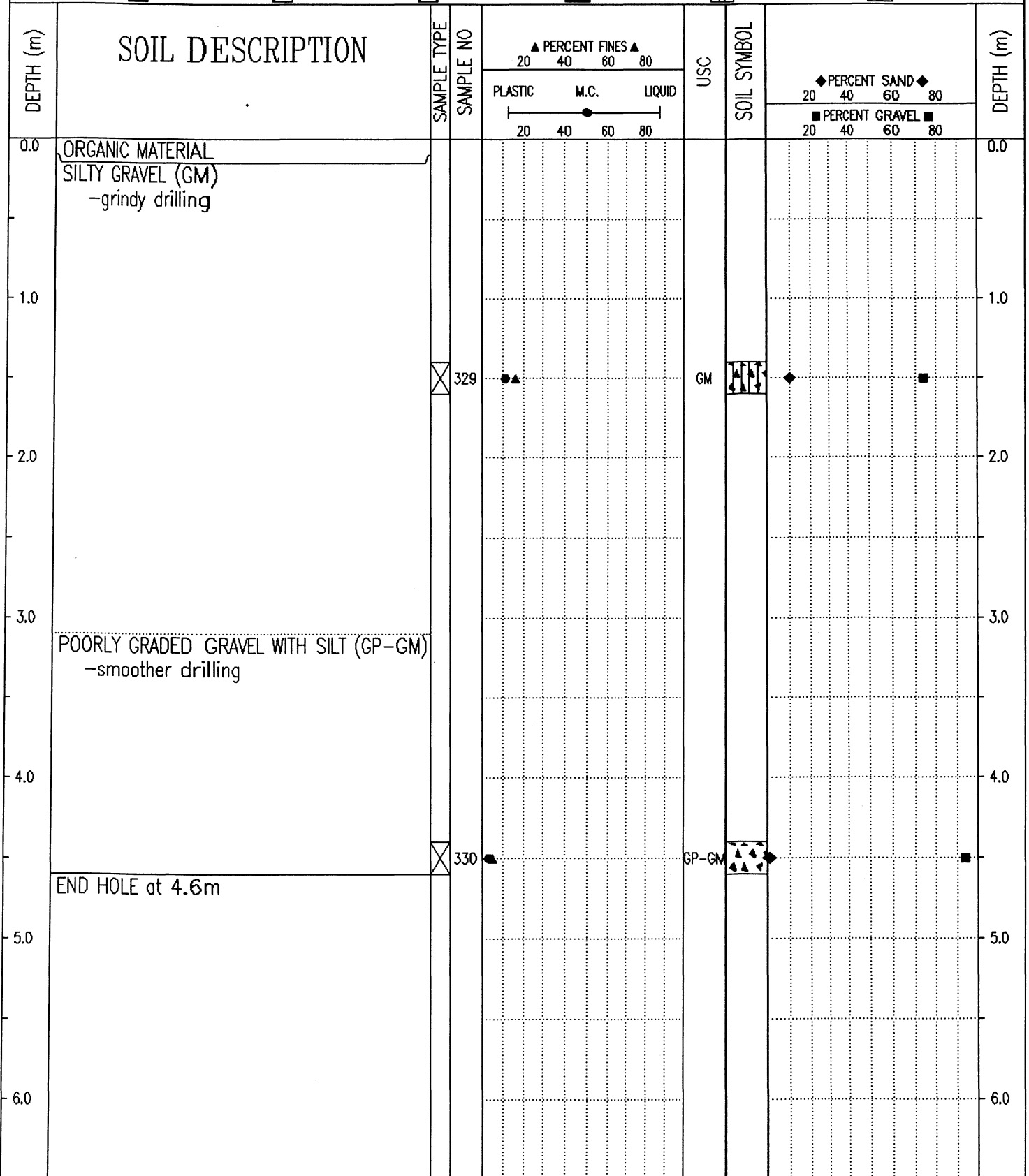
Fig. No:

COMPLETION DEPTH: 9.1 m

COMPLETE: 94/09/09

Page 1 of 1

|  |                                |                             |
|--|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 252-130       |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1888+900        | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |



Government of Yukon  
Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.6 m  
COMPLETE: 93/09/21

|  |  |  |   |
|--|--|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT |  | SHAKWAK PROJECT                            | TEST HOLE NO: 323-221                     |
| ENGINEERING-CAPITAL                    |  | SEGMENT 16                                 | Project No: 092-202101-0312               |
| DRILL: B40L 150mm SOLID STEM AUGER     |  | LOCATION: Sta. 1888+900 o/s 20m Rt.        | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|  |  |  | <input type="checkbox"/> BULK             |
|  |  |  | <input type="checkbox"/> TUBE             |
|  |  |  | <input type="checkbox"/> CORE             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND |    | PERCENT GRAVEL |      | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|---------------|------|--------|-----|-------------|--------------|----|----------------|------|-----------|
|           |   |                                     |           | PLASTIC       | M.C. | LIQUID |     |             | 20           | 40 | 60             | 80   |           |
| 0.0       | ORGANIC MATERIAL<br>-smooth drilling  |                                     |           |               |      |        |     |             |              |    |                | 0.0  |           |
| 1.0       | ORGANIC SILT<br>-smooth drilling  |                                     |           |               |      |        |     |             |              |    |                | 1.0  |           |
| 2.0       | SANDY GRAVEL<br>-brown<br>-frozen (Vx) with visible ice<br>-some silt<br>-maximum 50mm material augered up<br>-slow noisy jumpy drilling<br>-sample #289 not tested | <input checked="" type="checkbox"/> | 289       |               |      |        |     |             |              |    |                | 2.0  |           |
| 3.0       | -more ice (Vx) below 2.6m<br>-sample #290 not tested  | <input checked="" type="checkbox"/> | 290       |               |      |        |     |             |              |    |                | 3.0  |           |
| 4.0       |   |                                     |           |               |      |        |     |             |              |    |                | 4.0  |           |
| 5.0       | -sample #291 not tested   | <input checked="" type="checkbox"/> | 291       |               |      |        |     |             |              |    |                | 5.0  |           |
| 6.0       | -more silt below 5.4m<br>-sample #292 not tested  | <input checked="" type="checkbox"/> | 292       |               |      |        |     |             |              |    |                | 6.0  |           |
| 7.0       |   |                                     |           |               |      |        |     |             |              |    |                | 7.0  |           |
| 8.0       | -sample #293 not tested   | <input checked="" type="checkbox"/> | 293       |               |      |        |     |             |              |    |                | 8.0  |           |
| 9.0       | END HOLE at 8.2m<br>-refusal  |                                     |           |               |      |        |     |             |              |    |                | 9.0  |           |
| 10.0      |   |                                     |           |               |      |        |     |             |              |    |                | 10.0 |           |

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Transportation Engineering

LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 8.2 m  
COMPLETE: 94/09/08

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | SHAKWAK PROJECT                     | TEST PIT NO: 318-69         |
| ENGINEERING-CAPITAL  | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   | LOCATION: Sta. 1888+925 o/s 18m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION                           | SAMPLE TYPE | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND |    | PERCENT GRAVEL |     | DEPTH (m) |
|-----------|--|-------------|-----------|---------------|------|--------|-----|-------------|--------------|----|----------------|-----|-----------|
|           |  |             |           | PLASTIC       | M.C. | LIQUID |     |             | 20           | 40 | 60             | 80  |           |
| 0.0       | ORGANIC MATERIAL                           |             |           |               |      |        |     |             |              |    |                | 0.0 |           |
| 1.0       | WELL-GRADED GRAVEL WITH SAND (GW)<br>-gray |             | 58        |               |      |        | GW  | ▲ ▲         | ◆            | ■  |                | 1.0 |           |
|           | -frozen with visible ice below 1.5m        |             |           |               |      |        |     |             |              |    |                |     |           |
| 2.0       | END HOLE at 1.7m                           |             |           |               |      |        |     |             |              |    |                | 2.0 |           |
| 3.0       |  |             |           |               |      |        |     |             |              |    |                | 3.0 |           |
| 4.0       |  |             |           |               |      |        |     |             |              |    |                | 4.0 |           |
| 5.0       |  |             |           |               |      |        |     |             |              |    |                | 5.0 |           |
| 6.0       |  |             |           |               |      |        |     |             |              |    |                | 6.0 |           |

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|               |                         |
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| LOGGED BY: DA | COMPLETION DEPTH: 1.7 m |
| REVIEWED BY:  | COMPLETE: 94/08/25      |
| Fig. No:      | Page 1 of 1             |

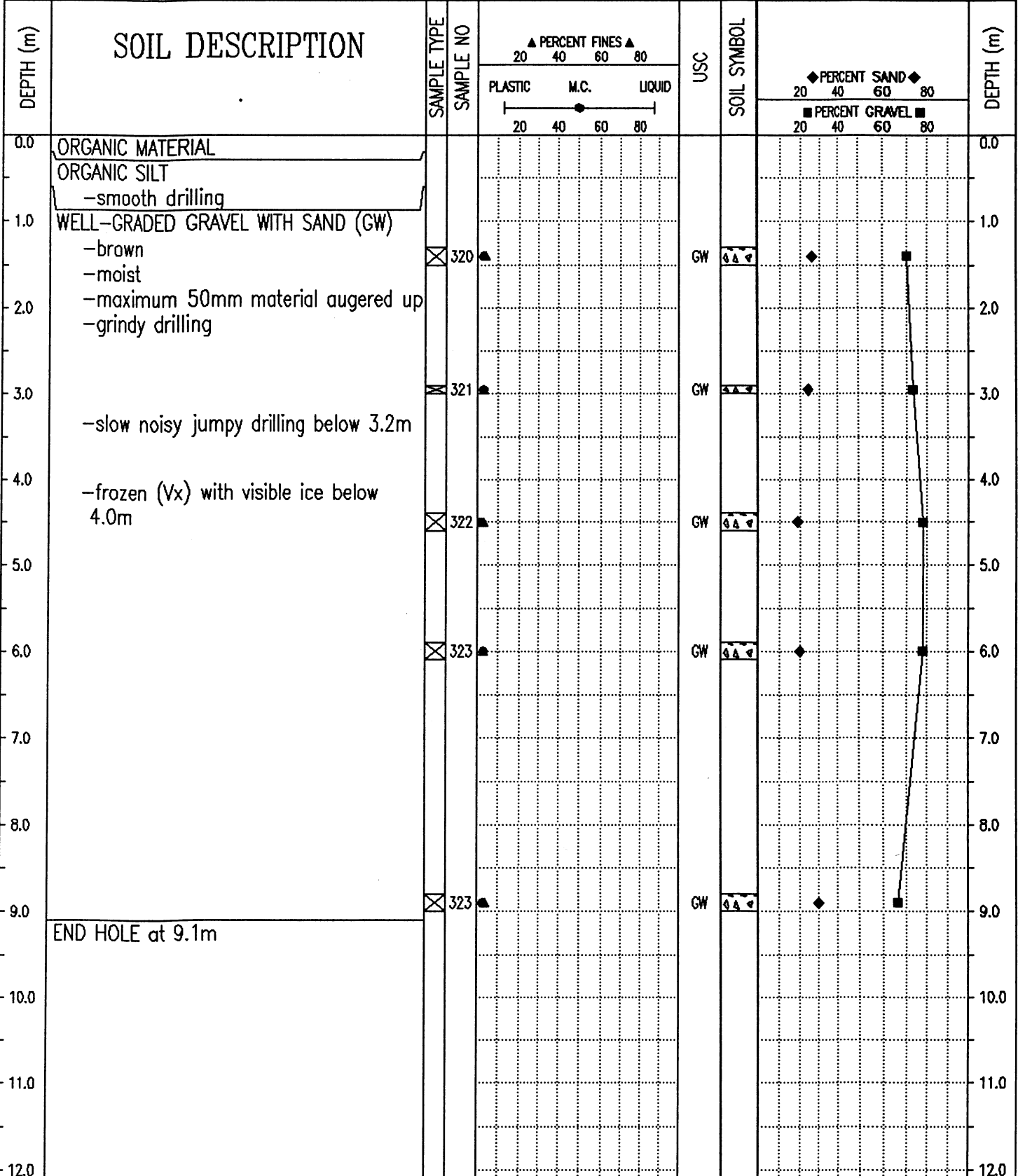
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|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | SHAKWAK PROJECT                     | TEST PIT NO: 319-79         |
| ENGINEERING-CAPITAL  | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   | LOCATION: Sta. 1888+925 o/s 20m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|---|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|----|-----------|
|           |   |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 | 60 |           |
| 0.0       | ORGANIC MATERIAL  |             |           |                 |      |        |     |             |                |    |    | 0.0       |
| 1.0       | SILTY GRAVEL<br>-dark brown<br>-maximum 75mm material<br>-sample #67 not tested |             | 67        |                 |      |        |     |             |                |    |    | 1.0       |
| 2.0       | -frozen below 1.7m<br>END HOLE at 1.8m  |             |           |                 |      |        |     |             |                |    |    | 2.0       |
| 3.0       |   |             |           |                 |      |        |     |             |                |    |    | 3.0       |
| 4.0       |   |             |           |                 |      |        |     |             |                |    |    | 4.0       |
| 5.0       |   |             |           |                 |      |        |     |             |                |    |    | 5.0       |
| 6.0       |   |             |           |                 |      |        |     |             |                |    |    | 6.0       |

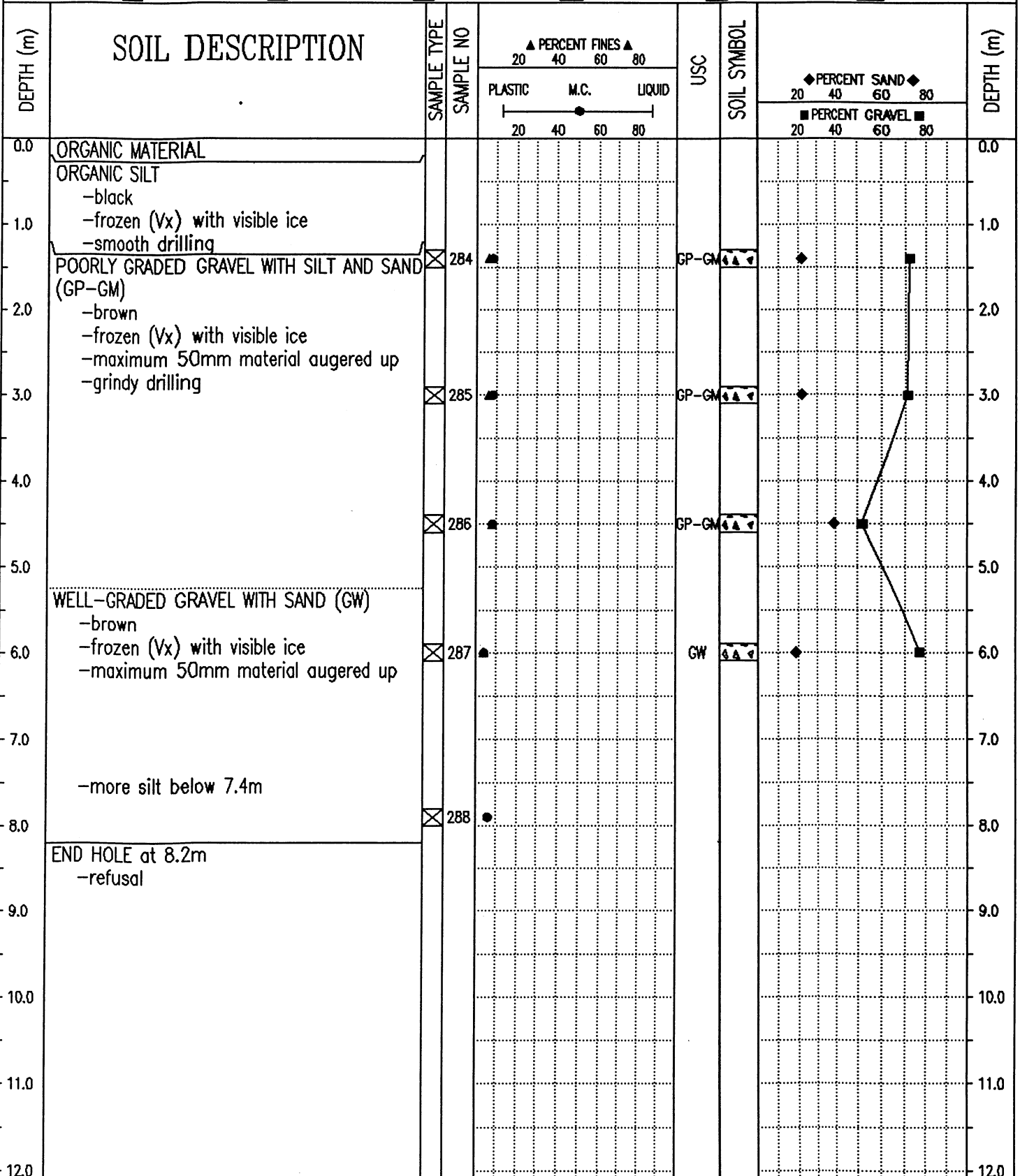
Government of Yukon  
Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: DA | COMPLETION DEPTH: 1.8 m |
| REVIEWED BY:  | COMPLETE: 94/08/26      |
| Fig. No:      | Page 1 of 1             |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | SHAKWAK PROJECT                     | TEST PIT NO: 323-220        |
| ENGINEERING-CAPITAL  | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER   | LOCATION: Sta. 1888+975 o/s 20m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |



Government of Yukon  
Transportation Engineering

LOGGED BY: DT

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 8.2 m

COMPLETE: 94/09/08

Page 1 of 1

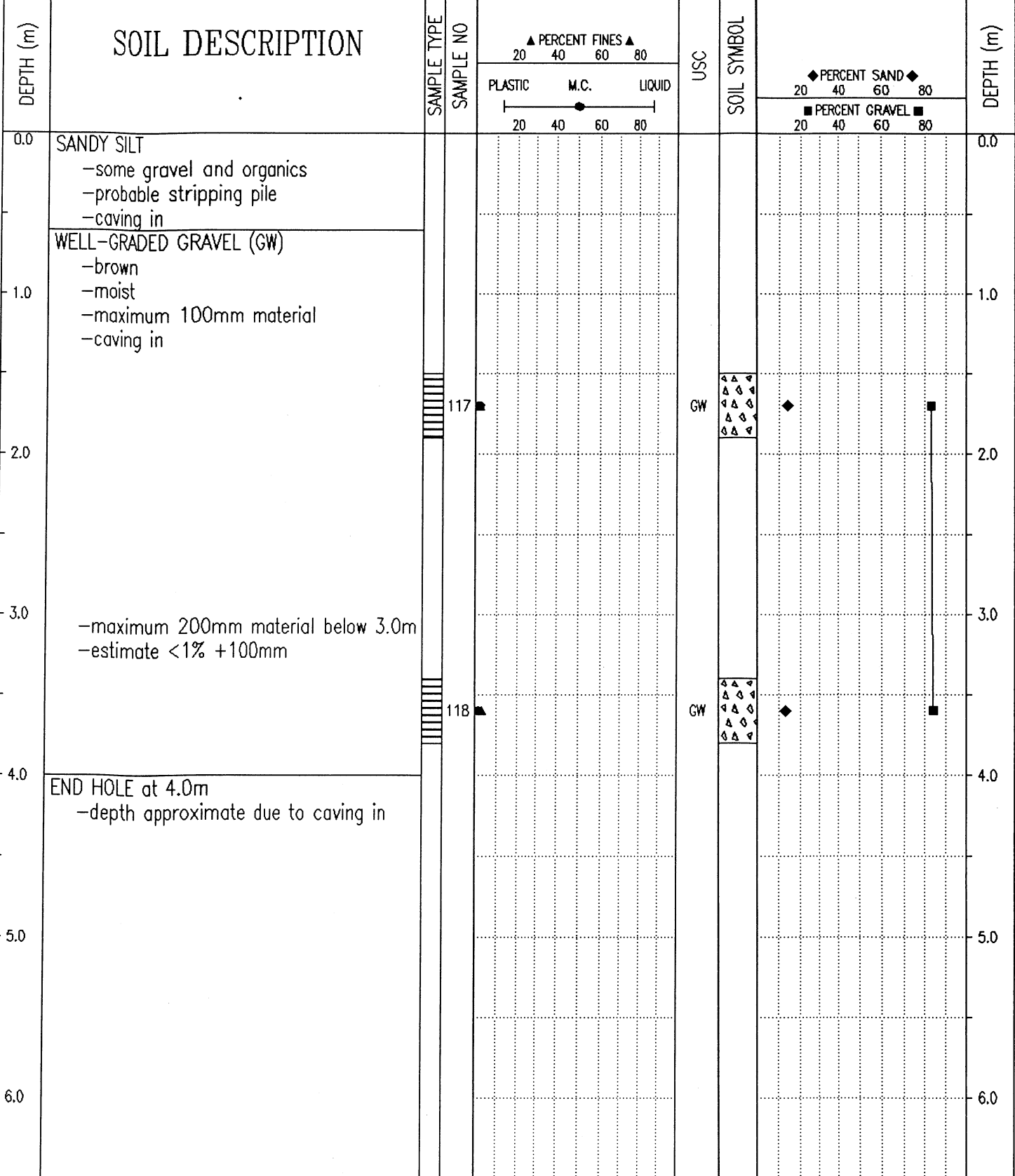
|  |   |                             |
|--|---|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY PRE-ENGINEERING                  | TEST PIT NO: 259-59         |
| SHAKWAK PROJECT                        | SEGMENT 16                                      | Project No: 202101-0312-193 |
| BACKHOE: CAT 235                       | LOCATION: See Plan 1888+995 % 89 R <sub>L</sub> | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆   |  |     | DEPTH (m) |
|-----------|---|-------------|-----------|-----------------|------|--------|-----|-------------|------------------|--|-----|-----------|
|           |   |             |           | PLASTIC         | M.C. | LIQUID |     |             | PERCENT GRAVEL ■ |  |     |           |
| 0.0       | STRIPPING PILE  |             |           |                 |      |        |     |             |                  |  | 0.0 |           |
|           | ORGANIC MATERIAL  |             |           |                 |      |        |     |             |                  |  |     |           |
| 1.0       | SILT<br>-dark brown<br>-moist   |             |           |                 |      |        |     |             |                  |  | 1.0 |           |
| 2.0       | SANDY GRAVEL<br>-brown<br>-wet to saturated<br>-some silt<br>-water at 1.7m |             |           |                 |      |        |     |             |                  |  | 2.0 |           |
|           | -frozen below 2.2m  |             |           |                 |      |        |     |             |                  |  |     |           |
|           | END HOLE at 2.4m  |             |           |                 |      |        |     |             |                  |  |     |           |
| 3.0       |   |             |           |                 |      |        |     |             |                  |  | 3.0 |           |
| 4.0       |   |             |           |                 |      |        |     |             |                  |  | 4.0 |           |
| 5.0       |   |             |           |                 |      |        |     |             |                  |  | 5.0 |           |
| 6.0       |   |             |           |                 |      |        |     |             |                  |  | 6.0 |           |

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|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DT | COMPLETION DEPTH: 2.4 m |
|   | REVIEWED BY:  | COMPLETE: 93/10/06      |
|   | Fig. No:      | Page 1 of 1             |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

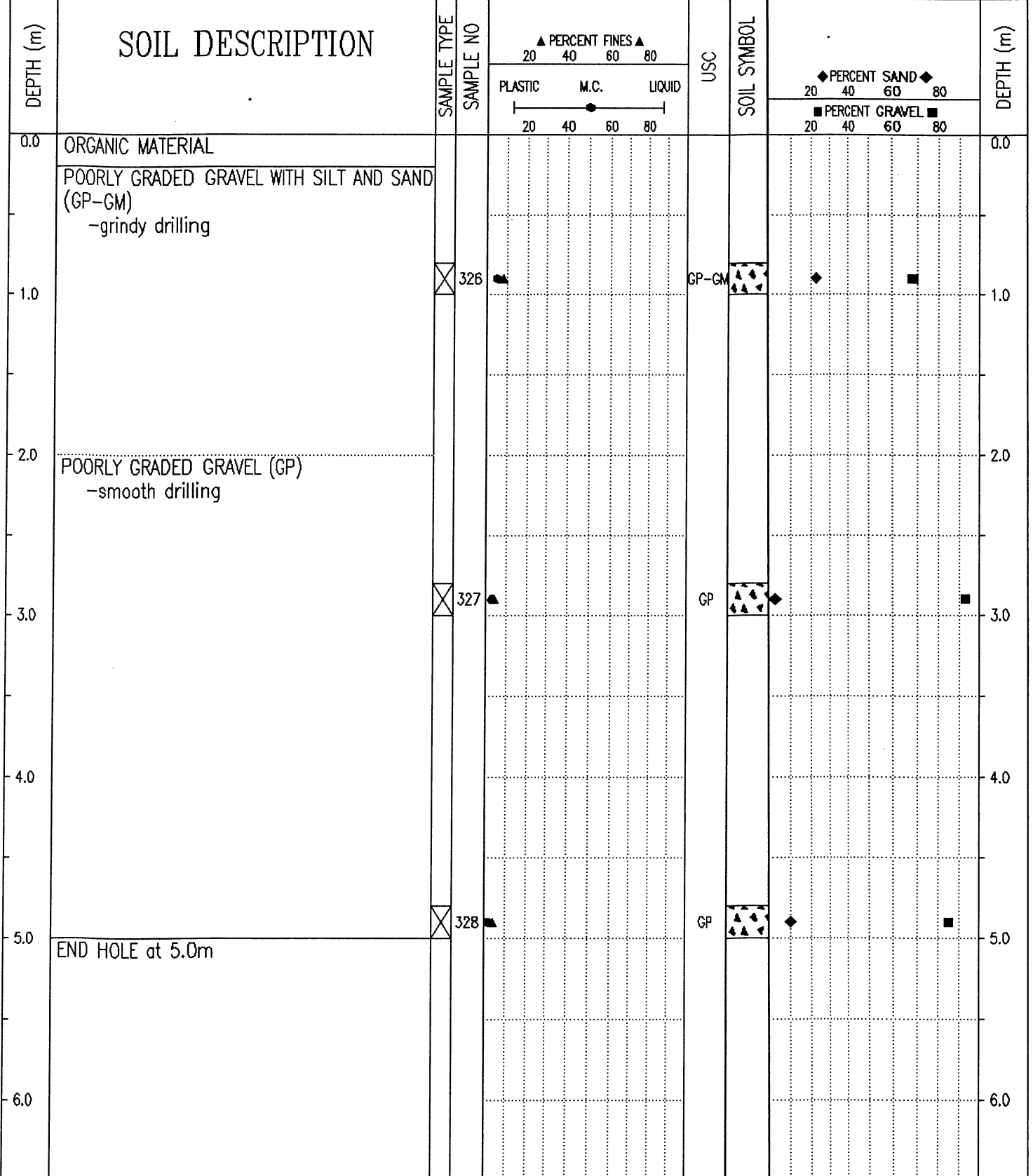


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Transportation Engineering

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| LOGGED BY: DT | COMPLETION DEPTH: 4.0 m |
| REVIEWED BY:  | COMPLETE: 93/10/06      |
| Fig. No:      | Page 1 of 1             |

|   |                                |                             |
|---|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 252-129       |
| SHAKWAK PROJECT                           | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1889+000        | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



Government of Yukon  
Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 93/09/21

|  |                                     |                             |
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| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST PIT NO: 319-80         |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1889+000 o/s 20m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|--|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|----|-----------|
|           |  |             |           | 20              | 40 | 60 |     |             | 80             | 20 | 40 |           |
| 0.0       | ORGANIC MATERIAL   |             |           |                 |    |    |     |             |                |    |    | 0.0       |
| 1.0       | SILTY GRAVEL<br>-brown<br>-damp  |             |           |                 |    |    |     |             |                |    |    | 1.0       |
| 2.0       | SANDY GRAVEL<br>-gray<br>-damp<br>-maximum 75mm material<br>-sample #68 not tested |             | 68        |                 |    |    |     |             |                |    |    | 2.0       |
| 3.0       | -caving in below 2.5m  |             |           |                 |    |    |     |             |                |    |    | 3.0       |
| 4.0       | END HOLE at 3.5m   |             |           |                 |    |    |     |             |                |    |    | 4.0       |
| 5.0       |  |             |           |                 |    |    |     |             |                |    |    | 5.0       |
| 6.0       |  |             |           |                 |    |    |     |             |                |    |    | 6.0       |

|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 3.5 m |
|   | REVIEWED BY:  | COMPLETE: 94/08/26      |
|   | Fig. No:      | Page 1 of 1             |

|  |                                 |  |   |
|--|---------------------------------|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT |                                 | SHAKWAK PROJECT                            | TEST PIT NO: 318-68                       |
| ENGINEERING-CAPITAL                    |                                 | SEGMENT 16                                 | Project No: 092-202101-0312               |
| BACKHOE: CAT 225                       |                                 | LOCATION: Sta. 1889+000 o/s 25m Rt.        | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE                            | <input type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|  |                                 |  | <input type="checkbox"/> BULK             |
|  |                                 |  | <input type="checkbox"/> TUBE             |
|  |                                 |  | <input type="checkbox"/> CORE             |

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND   |  |     | DEPTH (m) |
|-----------|--------------------|-------------|-----------|---------------|------|--------|-----|-------------|----------------|--|-----|-----------|
|           |                    |             |           | PLASTIC       | M.C. | LIQUID |     |             | PERCENT GRAVEL |  |     |           |
| 0.0       | ORGANIC MATERIAL   |             |           |               |      |        |     |             |                |  | 0.0 |           |
| 1.0       | SILTY GRAVEL       |             |           |               |      |        |     |             |                |  | 1.0 |           |
|           | -frozen below 1.2m |             |           |               |      |        |     |             |                |  |     |           |
|           | END HOLE at 1.4m   |             |           |               |      |        |     |             |                |  |     |           |
| 2.0       |                    |             |           |               |      |        |     |             |                |  | 2.0 |           |
| 3.0       |                    |             |           |               |      |        |     |             |                |  | 3.0 |           |
| 4.0       |                    |             |           |               |      |        |     |             |                |  | 4.0 |           |
| 5.0       |                    |             |           |               |      |        |     |             |                |  | 5.0 |           |
| 6.0       |                    |             |           |               |      |        |     |             |                |  | 6.0 |           |

Government of Yukon  
Transportation Engineering

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| LOGGED BY: DA | COMPLETION DEPTH: 1.4 m |
| REVIEWED BY:  | COMPLETE: 94/08/25      |
| Fig. No:      | Page 1 of 1             |

|   |  |  |
|---|--|--|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING             | TEST HOLE NO: 252-128                      |
| SHAKWAK PROJECT                           | SEGMENT 16                                 | Project No: 202101-0312-193                |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: See Plan 1889 + 015 % 78 Rd      | ELEVATION: 0.00 (m)                        |
| SAMPLE TYPE                               | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. |
|   | <input checked="" type="checkbox"/> AUGER  | <input type="checkbox"/> BULK              |
|   | <input type="checkbox"/> TUBE              | <input type="checkbox"/> CORE              |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES |      |        | USC   | SOIL SYMBOL | PERCENT SAND |    | PERCENT GRAVEL |     | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|---------------|------|--------|-------|-------------|--------------|----|----------------|-----|-----------|
|           |   |                                     |           | PLASTIC       | M.C. | LIQUID |       |             | 20           | 40 | 60             | 80  |           |
| 0.0       | ORGANIC MATERIAL<br>SILT<br>-wet  |                                     |           |               |      |        |       |             |              |    |                | 0.0 |           |
| 1.0       |   |                                     |           |               |      |        |       |             |              |    |                | 1.0 |           |
| 2.0       | POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM)<br>-wet<br>-grindy drilling |                                     |           |               |      |        |       |             |              |    |                | 2.0 |           |
| 3.0       | -very slow drilling below 3.0m  | <input checked="" type="checkbox"/> | 325       | ▲             |      |        | GP-GM | ◆           |              | ■  |                | 3.0 |           |
| 4.0       |   |                                     |           |               |      |        |       |             |              |    |                | 4.0 |           |
| 5.0       | END HOLE at 5.0m  |                                     |           |               |      |        |       |             |              |    |                | 5.0 |           |
| 6.0       |   |                                     |           |               |      |        |       |             |              |    |                | 6.0 |           |

Government of Yukon  
Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 93/09/20

|   |                                     |                             |
|---|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  | SHAKWAK PROJECT                     | TEST HOLE NO: 330-229       |
| ENGINEERING-CAPITAL   | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER  | LOCATION: Sta. 1889+025 o/s 20m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION                         | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |      | DEPTH (m) |
|-----------|--|-------------|-----------|-------------------|------|--------|-----|-------------|------------------|------|-----------|
|           |  |             |           | PLASTIC           | M.C. | LIQUID |     |             | 20               | 40   |           |
| 0.0       | ORGANIC MATERIAL                         |             |           |                   |      |        |     |             |                  | 0.0  |           |
| 0.0       | ORGANIC SILT                             |             |           |                   |      |        |     |             |                  |      |           |
| 0.0       | -black                                   |             |           |                   |      |        |     |             |                  |      |           |
| 0.0       | -smooth drilling                         |             |           |                   |      |        |     |             |                  |      |           |
| 1.0       | SANDY GRAVEL                             |             |           |                   |      |        |     |             |                  | 1.0  |           |
| 1.0       | -brown                                   |             |           |                   |      |        |     |             |                  |      |           |
| 1.0       | -moist                                   |             |           |                   |      |        |     |             |                  |      |           |
| 2.0       | -some silt                               |             |           |                   |      |        |     |             |                  | 2.0  |           |
| 2.0       | -maximum 50mm material augered up        |             |           |                   |      |        |     |             |                  |      |           |
| 2.0       | -grindy drilling                         |             |           |                   |      |        |     |             |                  |      |           |
| 2.0       | -sample #324 not tested                  |             | 324       |                   |      |        |     |             |                  |      |           |
| 3.0       | -sample #325 not tested                  |             | 325       |                   |      |        |     |             |                  | 3.0  |           |
| 4.0       | -frozen (Vx) with visible ice below 3.6m |             |           |                   |      |        |     |             |                  | 4.0  |           |
| 4.0       | -slow noisy jumpy drilling below 3.6m    |             |           |                   |      |        |     |             |                  |      |           |
| 4.0       | -sample #326 not tested                  |             | 326       |                   |      |        |     |             |                  |      |           |
| 5.0       |  |             |           |                   |      |        |     |             |                  | 5.0  |           |
| 6.0       | -sample #327 not tested                  |             | 327       |                   |      |        |     |             |                  | 6.0  |           |
| 7.0       |  |             |           |                   |      |        |     |             |                  | 7.0  |           |
| 8.0       | -sample #328 not tested                  |             | 328       |                   |      |        |     |             |                  | 8.0  |           |
| 8.0       | END HOLE at 7.9m                         |             |           |                   |      |        |     |             |                  | 8.0  |           |
| 8.0       | -refusal                                 |             |           |                   |      |        |     |             |                  |      |           |
| 9.0       |  |             |           |                   |      |        |     |             |                  | 9.0  |           |
| 10.0      |  |             |           |                   |      |        |     |             |                  | 10.0 |           |

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Transportation Engineering

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| LOGGED BY: DT | COMPLETION DEPTH: 7.9 m |
| REVIEWED BY:  | COMPLETE: 94/09/10      |
| Fig. No:      | Page 1 of 1             |

|  |   |                             |
|--|---|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING                  | TEST PIT NO: 259-57         |
| SHAKWAK PROJECT  | SEGMENT 16                                      | Project No: 202101-0312-193 |
| BACKHOE: CAT 235   | LOCATION: See Plan 1889+034 % 76 R <sub>L</sub> | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |   |                             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|---|-------------|-----------|-------------------|------|--------|-----|-------------|------------------|----|-----------|
|           |   |             |           | PLASTIC           | M.C. | LIQUID |     |             | 20               | 40 |           |
| 0.0       | WELL-GRADED GRAVEL (GW)<br>-brown<br>-wet<br>-maximum 150mm material<br>-estimate 5% +100mm<br>-caving in |             |           |                   |      |        |     |             |                  |    | 0.0       |
| 1.0       |   |             | 116       |                   |      |        | GW  | ◆           | ■                |    | 1.0       |
| 2.0       | -coarser material below 2.1m  |             |           |                   |      |        |     |             |                  |    | 2.0       |
| 3.0       |   |             |           |                   |      |        |     |             |                  |    | 3.0       |
| 4.0       | END HOLE at 4.0m<br>-depth approximate due to caving in<br>-in old pit                                    |             |           |                   |      |        |     |             |                  |    | 4.0       |
| 5.0       |   |             |           |                   |      |        |     |             |                  |    | 5.0       |
| 6.0       |   |             |           |                   |      |        |     |             |                  |    | 6.0       |

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Transportation Engineering

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| LOGGED BY: DT | COMPLETION DEPTH: 4.0 m |
| REVIEWED BY:  | COMPLETE: 93/10/06      |
| Fig. No:      | Page 1 of 1             |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-----------------|----|----|-----|-------------|----------------|----|-----------|
|           |  |                                     |           | 20              | 40 | 60 |     |             | 80             | 20 |           |
| 0.0       | ORGANIC MATERIAL<br>-smooth drilling   |                                     |           |                 |    |    |     |             |                |    | 0.0       |
| 1.0       | ORGANIC SILT<br>-black<br>-smooth drilling   |                                     |           |                 |    |    |     |             |                |    | 1.0       |
| 2.0       | SANDY GRAVEL<br>-brown<br>-moist<br>-some silt<br>-maximum 50mm material augered up<br>-grindy drilling      | <input checked="" type="checkbox"/> | 279       |                 |    |    |     |             |                |    | 2.0       |
| 3.0       | -sample #279 not tested<br>-frozen (Vx) with visible ice below 1.8m<br>-slow noisy jumpy drilling below 1.8m | <input checked="" type="checkbox"/> | 280       |                 |    |    |     |             |                |    | 3.0       |
| 4.0       | -sample #280 not tested  |                                     |           |                 |    |    |     |             |                |    | 4.0       |
| 5.0       | -sample #281 not tested  | <input checked="" type="checkbox"/> | 281       |                 |    |    |     |             |                |    | 5.0       |
| 6.0       | -sample #282 not tested  | <input checked="" type="checkbox"/> | 282       |                 |    |    |     |             |                |    | 6.0       |
| 7.0       |  |                                     |           |                 |    |    |     |             |                |    | 7.0       |
| 8.0       |  |                                     |           |                 |    |    |     |             |                |    | 8.0       |
| 9.0       | -sample #283 not tested  | <input checked="" type="checkbox"/> | 283       |                 |    |    |     |             |                |    | 9.0       |
| 10.0      | END HOLE at 9.1m   |                                     |           |                 |    |    |     |             |                |    | 10.0      |

95/01/11 04:26PM

| SUBSURFACE EXPLORATION AND TEST REPORT    |   | ALASKA HIGHWAY PRE-ENGINEERING                  |           | TEST HOLE NO: 252-127       |      |        |     |             |                  |    |    |           |
|---|---|---|-----------|-----------------------------|------|--------|-----|-------------|------------------|----|----|-----------|
| SHAKWAK PROJECT                           |   | SEGMENT 16                                      |           | Project No: 202101-0312-193 |      |        |     |             |                  |    |    |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |   | LOCATION: See Plan 1889+072 % 57 R <sub>L</sub> |           | ELEVATION: 0.00 (m)         |      |        |     |             |                  |    |    |           |
| SAMPLE TYPE                               |   | RETURN  |           | S.P.T.                      |      |        |     |             |                  |    |    |           |
| AUGER                                     |   | BULK  |           | TUBE                        |      |        |     |             |                  |    |    |           |
| CORE                                      |   |   |           |                             |      |        |     |             |                  |    |    |           |
| DEPTH (m)                                 | SOIL DESCRIPTION                              | SAMPLE TYPE                                     | SAMPLE NO | ▲ PERCENT FINES ▲           |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    |    | DEPTH (m) |
|   |   |   |           | PLASTIC                     | M.C. | LIQUID |     |             | 20               | 40 | 60 |           |
| 0.0                                       | POORLY GRADED GRAVEL (GP)<br>-grindy drilling |   |           |                             |      |        |     |             |                  |    |    | 0.0       |
| 1.0                                       |   | ⊗   | 321       |                             |      |        | GP  | ▲▲▲         | ◆                | ■  |    | 1.0       |
| 2.0                                       |   |   |           |                             |      |        |     |             |                  |    |    | 2.0       |
| 3.0                                       | -no fines augering up below 2.4m              | ⊗   | 322       |                             |      |        | GP  | ▲▲▲         |                  | ■  |    | 3.0       |
| 4.0                                       |   |   |           |                             |      |        |     |             |                  |    |    | 4.0       |
| 5.0                                       | -smooth drilling below 5.0m                   | ⊗   | 323       |                             |      |        | GP  | ▲▲▲         | ◆                | ■  |    | 5.0       |
| 6.0                                       |   | ⊗   | 324       |                             |      |        | GP  | ▲▲▲         | ◆                | ■  |    | 6.0       |
| 7.0                                       | -wet below 7.0m                               |   |           |                             |      |        |     |             |                  |    |    | 7.0       |
| 8.0                                       | END HOLE at 8.0m                              |   |           |                             |      |        |     |             |                  |    |    | 8.0       |
| 9.0                                       |   |   |           |                             |      |        |     |             |                  |    |    | 9.0       |
| 10.0                                      |   |   |           |                             |      |        |     |             |                  |    |    | 10.0      |

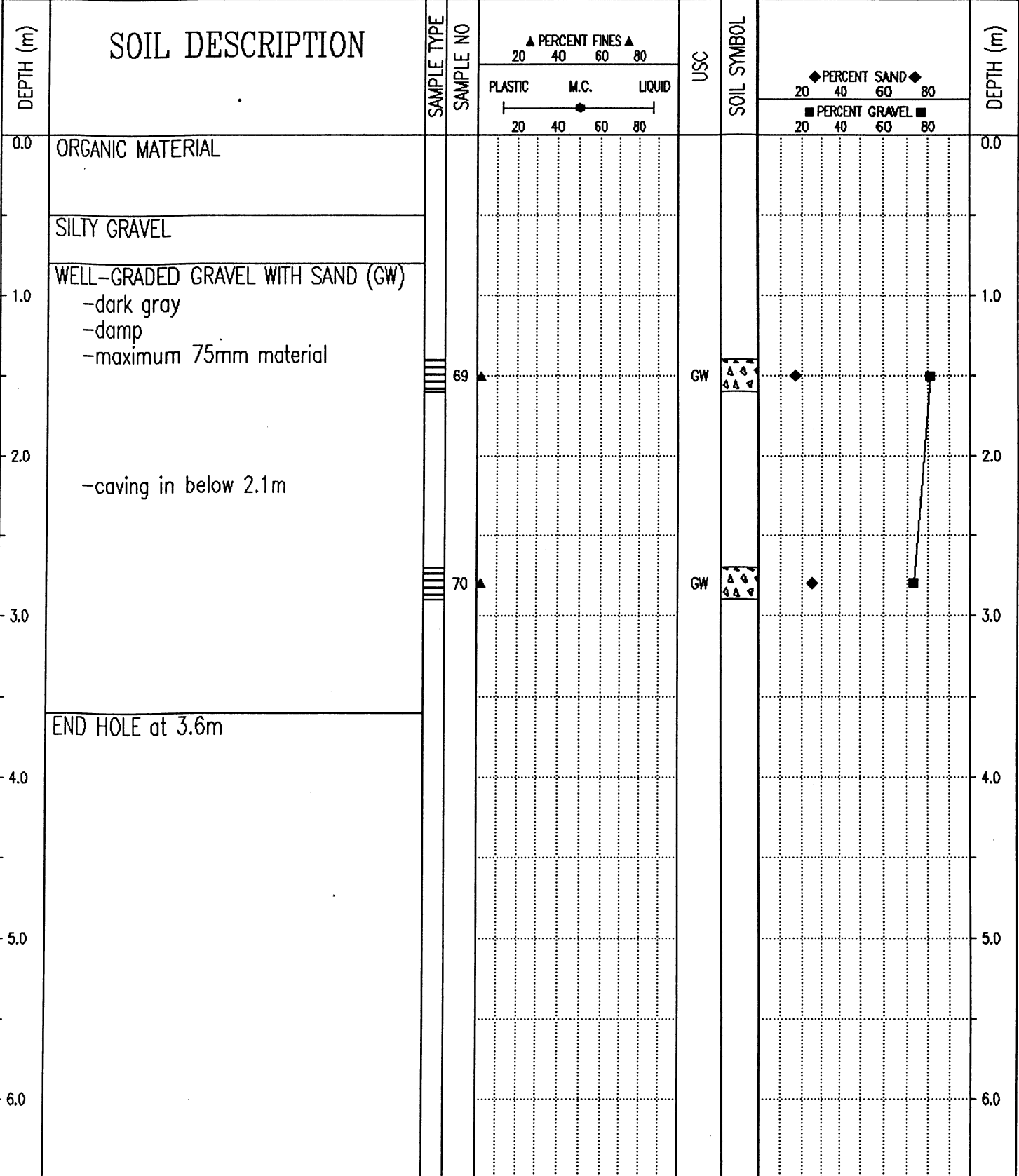
Government of Yukon  
Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 8.0 m  
COMPLETE: 93/09/20

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST PIT NO: 319-81         |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1889+075 o/s 15m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.6 m  
COMPLETE: 94/08/26

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST PIT NO: 318-67         |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1889+075 o/s 25m Rt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

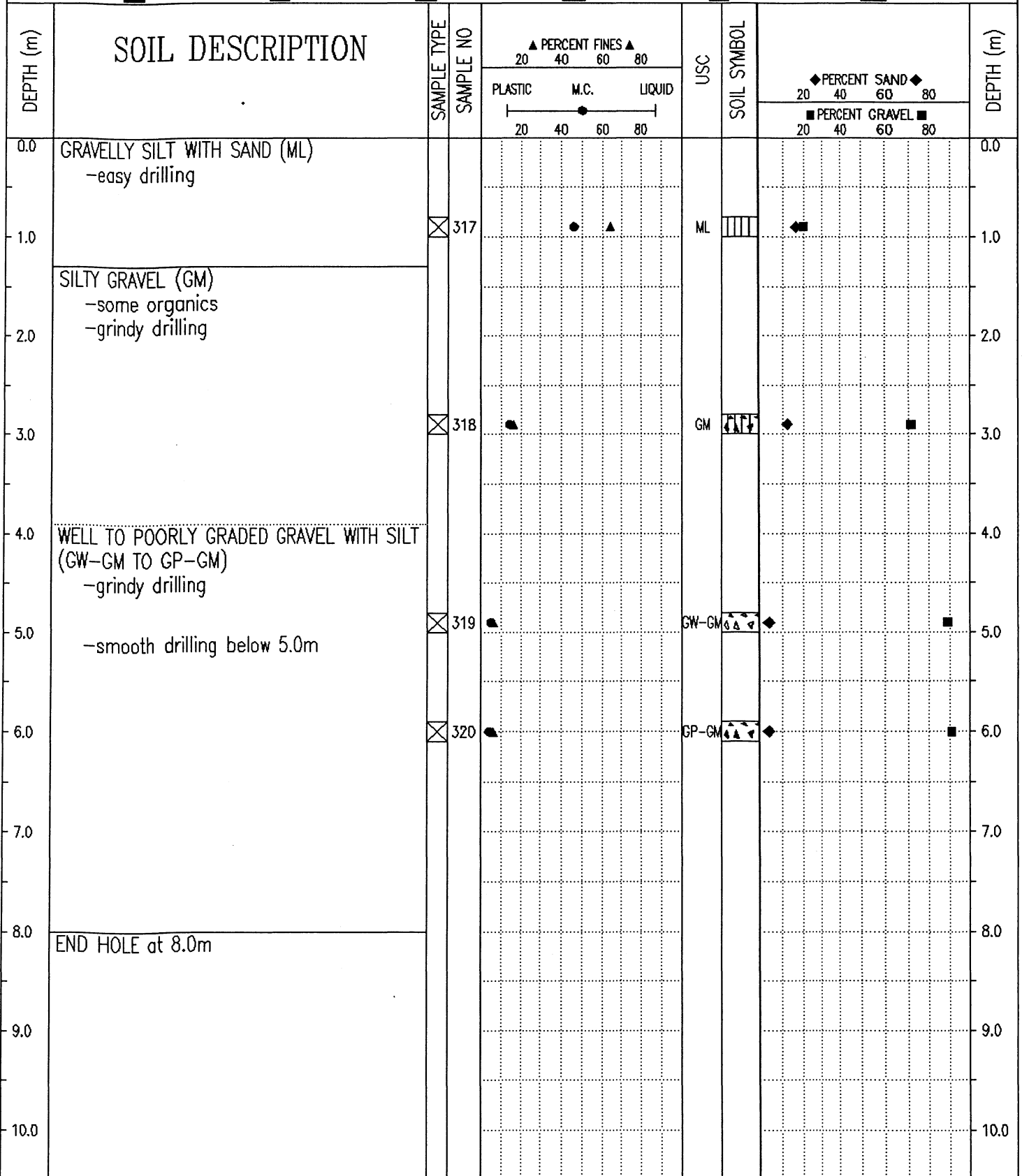
| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|---|-------------|-----------|-------------------|----|----|-----|-------------|------------------|----|----|-----------|
|           |   |             |           | 20                | 40 | 60 |     |             | 80               | 20 | 40 |           |
| 0.0       | ORGANIC MATERIAL  |             |           |                   |    |    |     |             |                  |    |    | 0.0       |
|           | SILT  |             |           |                   |    |    |     |             |                  |    |    |           |
| 1.0       | WELL-GRADED GRAVEL WITH SAND (GW)<br>-maximum 50mm material |             |           |                   |    |    |     |             |                  |    |    | 1.0       |
|           | -frozen with visible ice below 1.4m                         |             |           |                   |    |    |     |             |                  |    |    |           |
| 2.0       | END HOLE at 1.7m  |             | 57        |                   |    |    | GW  | ▲ ▲<br>▲ ▲  |                  |    |    | 2.0       |
| 3.0       |   |             |           |                   |    |    |     |             |                  |    |    | 3.0       |
| 4.0       |   |             |           |                   |    |    |     |             |                  |    |    | 4.0       |
| 5.0       |   |             |           |                   |    |    |     |             |                  |    |    | 5.0       |
| 6.0       |   |             |           |                   |    |    |     |             |                  |    |    | 6.0       |

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Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.7 m  
COMPLETE: 94/08/25

|   |  |  |
|---|--|--|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING                   | TEST HOLE NO: 252-126                      |
| SHAKWAK PROJECT                           | SEGMENT 16                                       | Project No: 202101-0312-193                |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: See Plan 1889+097 % 130 R <sub>t</sub> | ELEVATION: 0.00 (m)                        |
| SAMPLE TYPE                               | <input checked="" type="checkbox"/> RETURN       | <input checked="" type="checkbox"/> S.P.T. |
|   | <input checked="" type="checkbox"/> AUGER        | <input type="checkbox"/> BULK              |
|   | <input type="checkbox"/> TUBE                    | <input type="checkbox"/> CORE              |

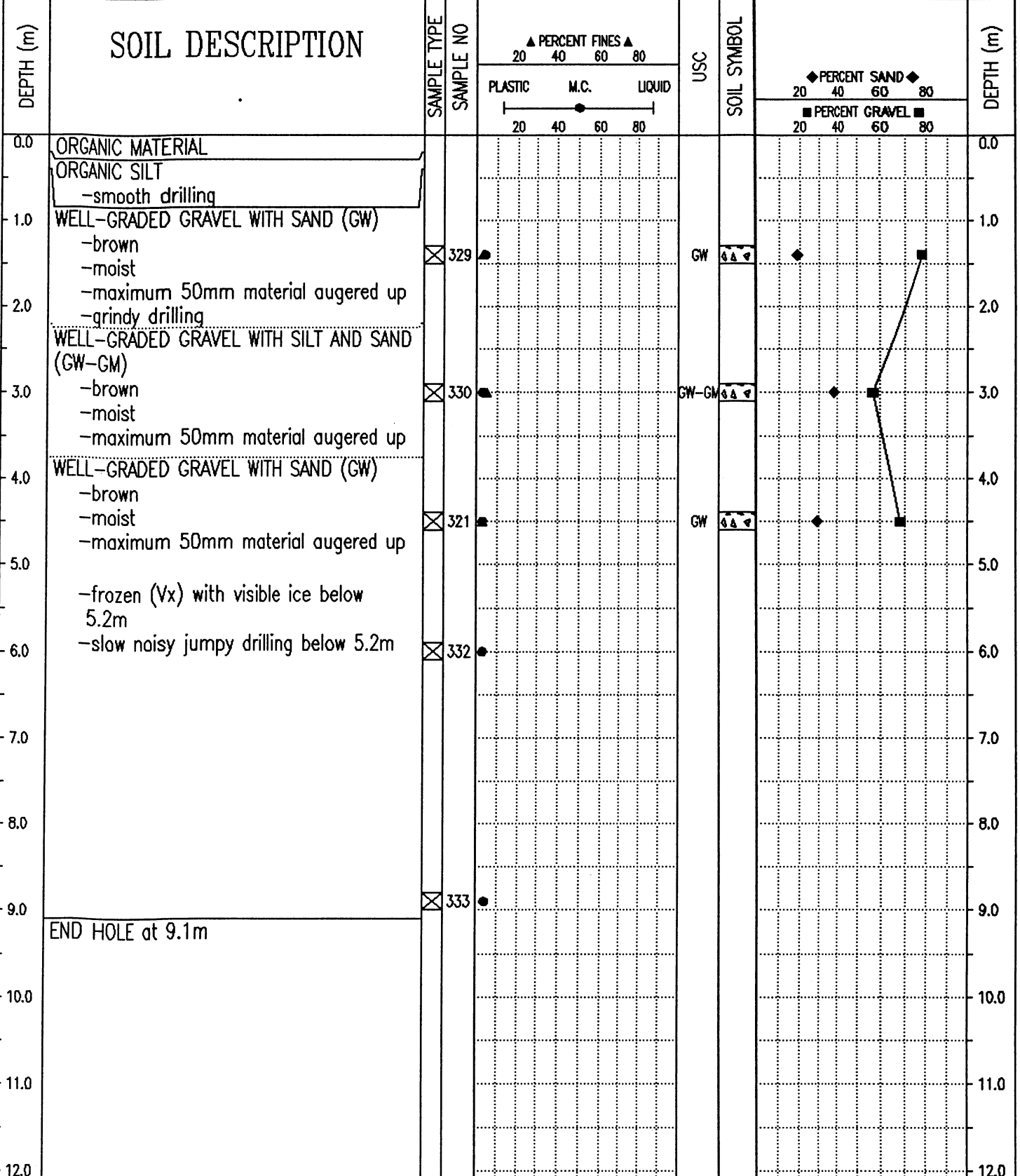


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Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: TF | COMPLETION DEPTH: 8.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/20      |
| Fig. No:      | Page 1 of 1             |

| SUBSURFACE EXPLORATION AND TEST REPORT                 |   | ALASKA HIGHWAY PRE-ENGINEERING             |           | TEST HOLE NO: 252-124                     |      |                         |       |             |                  |    |           |
|--|---|--|-----------|---|------|-------------------------|-------|-------------|------------------|----|-----------|
| SHAKWAK PROJECT  |   | SEGMENT 16                                 |           | Project No: 202101-0312-193               |      |                         |       |             |                  |    |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER              |   | LOCATION: Sta. 1889+100                    |           | ELEVATION: 0.00 (m)                       |      |                         |       |             |                  |    |           |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN |   | <input checked="" type="checkbox"/> S.P.T. |           | <input checked="" type="checkbox"/> AUGER |      |                         |       |             |                  |    |           |
|  |   | <input type="checkbox"/> BULK              |           | <input type="checkbox"/> TUBE             |      |                         |       |             |                  |    |           |
|  |   |  |           | <input type="checkbox"/> CORE             |      |                         |       |             |                  |    |           |
| DEPTH (m)  | SOIL DESCRIPTION  | SAMPLE TYPE                                | SAMPLE NO | ▲ PERCENT FINES ▲                         |      |                         | USC   | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | DEPTH (m) |
|  |   |  |           | PLASTIC                                   | M.C. | LIQUID                  |       |             | 20               | 40 |           |
| 0.0  | ORGANIC MATERIAL<br>SILTY GRAVEL WITH SAND (GM)<br>-grindy drilling |  |           |   |      |                         |       |             |                  |    | 0.0       |
| 1.0  |   | <input checked="" type="checkbox"/>        | 312       | ●   | ▲    |                         | GM    | ▲▲▲         | ◆                | ■  | 1.0       |
| 2.0  | POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM)<br>-grindy drilling |  |           |   |      |                         |       |             |                  |    | 2.0       |
| 3.0  |   | <input checked="" type="checkbox"/>        | 313       | ■   |      |                         | GP-GM | ▲▲▲         | ◆                | ■  | 3.0       |
| 4.0  | POORLY GRADED GRAVEL (GP)<br>-smooth drilling                       |  |           |   |      |                         |       |             |                  |    | 4.0       |
| 5.0  | END HOLE at 5.0m  | <input checked="" type="checkbox"/>        | 314       | ■   |      |                         | GP    | ▲▲▲         | ◆                | ■  | 5.0       |
| 6.0  |   |  |           |   |      |                         |       |             |                  |    | 6.0       |
| Government of Yukon<br>Transportation Engineering      |   |  |           | LOGGED BY: TF                             |      | COMPLETION DEPTH: 5.0 m |       |             |                  |    |           |
|  |   |  |           | REVIEWED BY:                              |      | COMPLETE: 93/09/20      |       |             |                  |    |           |
|  |   |  |           | Fig. No:                                  |      |                         |       | Page 1 of 1 |                  |    |           |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



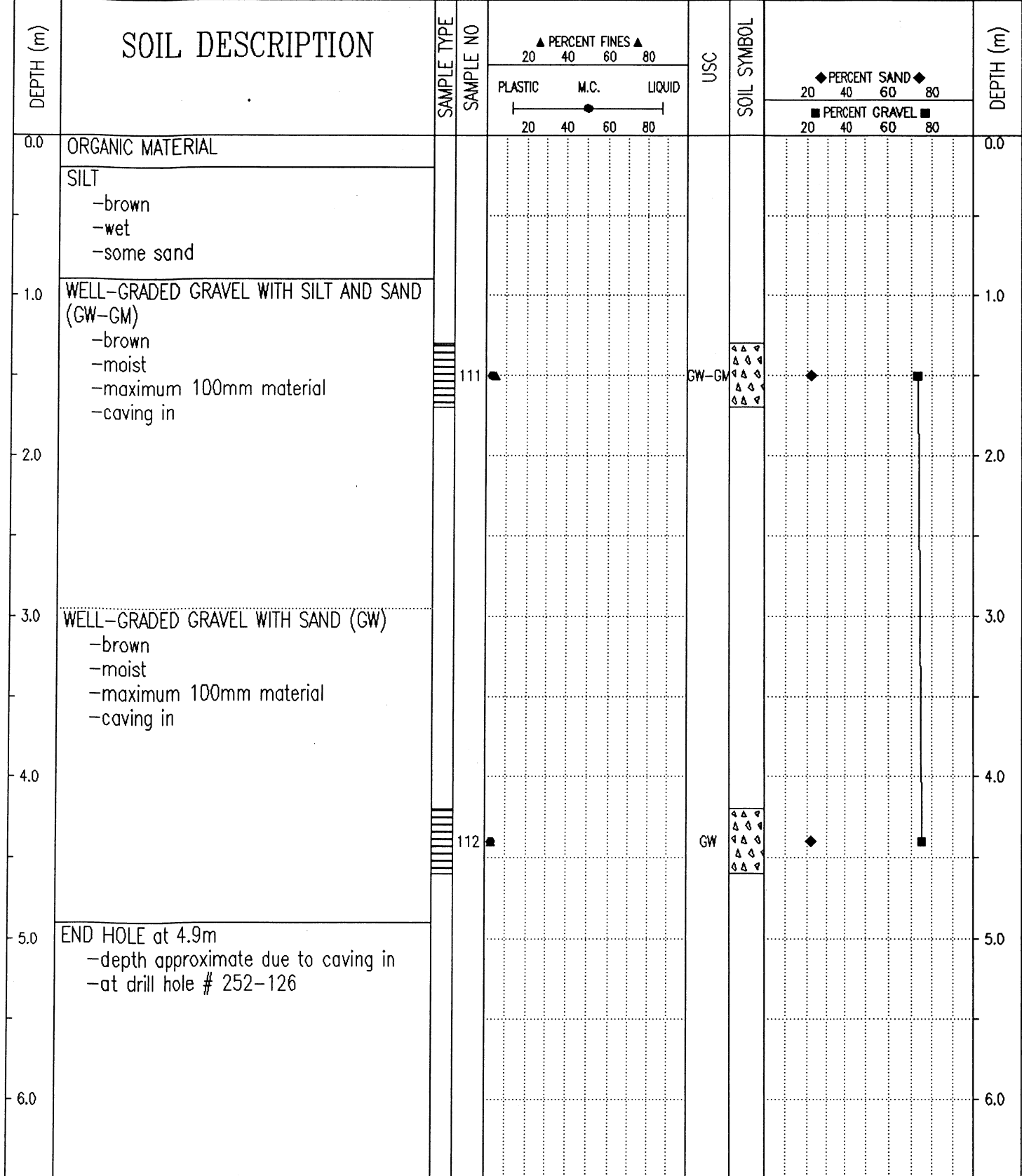
Government of Yukon  
Transportation Engineering

LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 9.1 m  
COMPLETE: 94/09/10

|  |                                      |                             |
|--|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY PRE-ENGINEERING       | TEST PIT NO: 259-54         |
| SHAKWAK PROJECT                        | SEGMENT 16                           | Project No: 202101-0312-193 |
| BACKHOE: CAT 235                       | LOCATION: See Plan 1889+123 % 121 Rt | ELEVATION: 0.00 (m)         |

|             |  |  |   |                               |                               |                               |
|-------------|--|--|---|-------------------------------|-------------------------------|-------------------------------|
| SAMPLE TYPE | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER | <input type="checkbox"/> BULK | <input type="checkbox"/> TUBE | <input type="checkbox"/> CORE |
|-------------|--|--|---|-------------------------------|-------------------------------|-------------------------------|



Government of Yukon  
Transportation Engineering

LOGGED BY: DT

COMPLETION DEPTH: 4.9 m

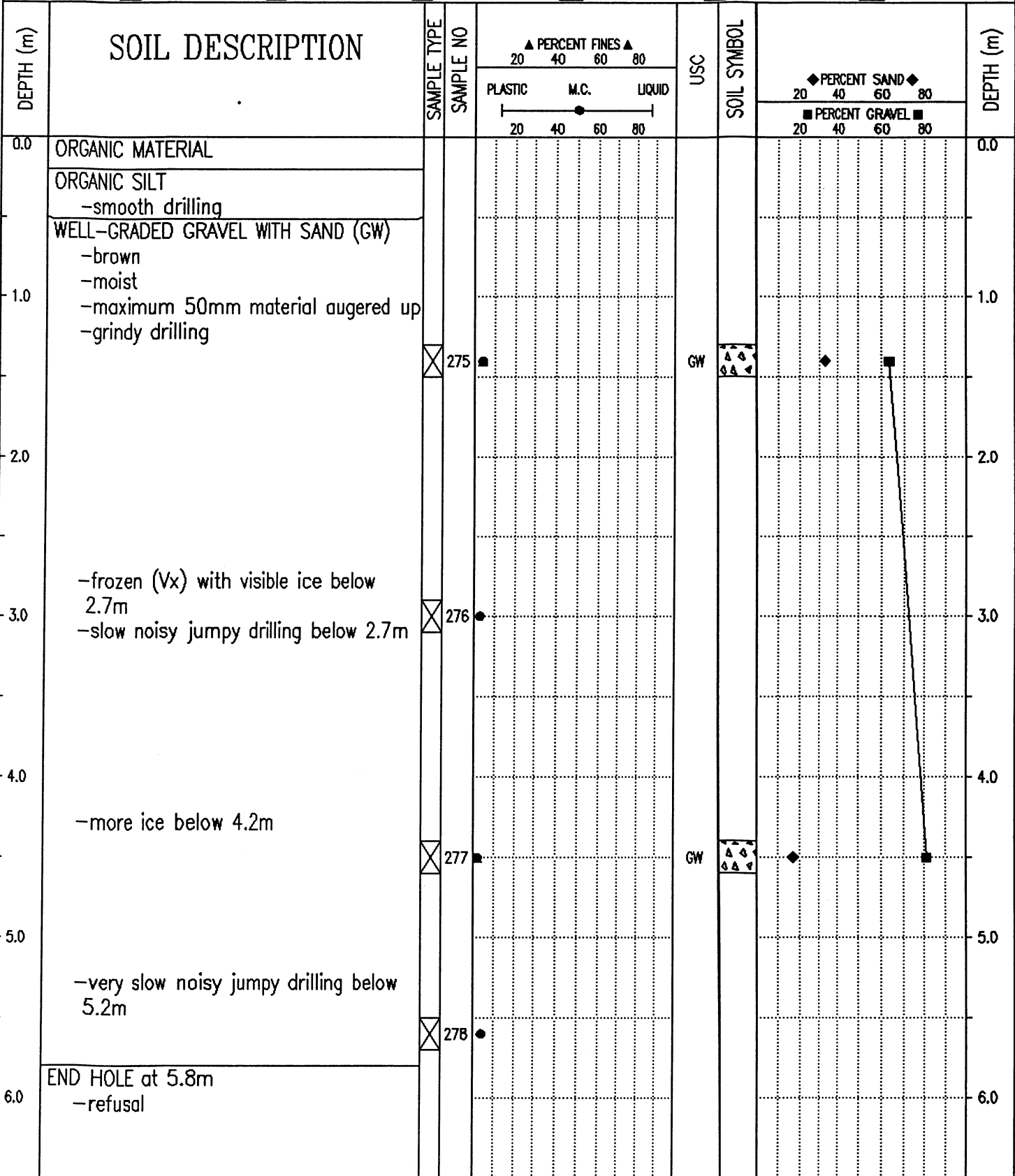
REVIEWED BY:

COMPLETE: 93/10/05

Fig. No:

Page 1 of 1

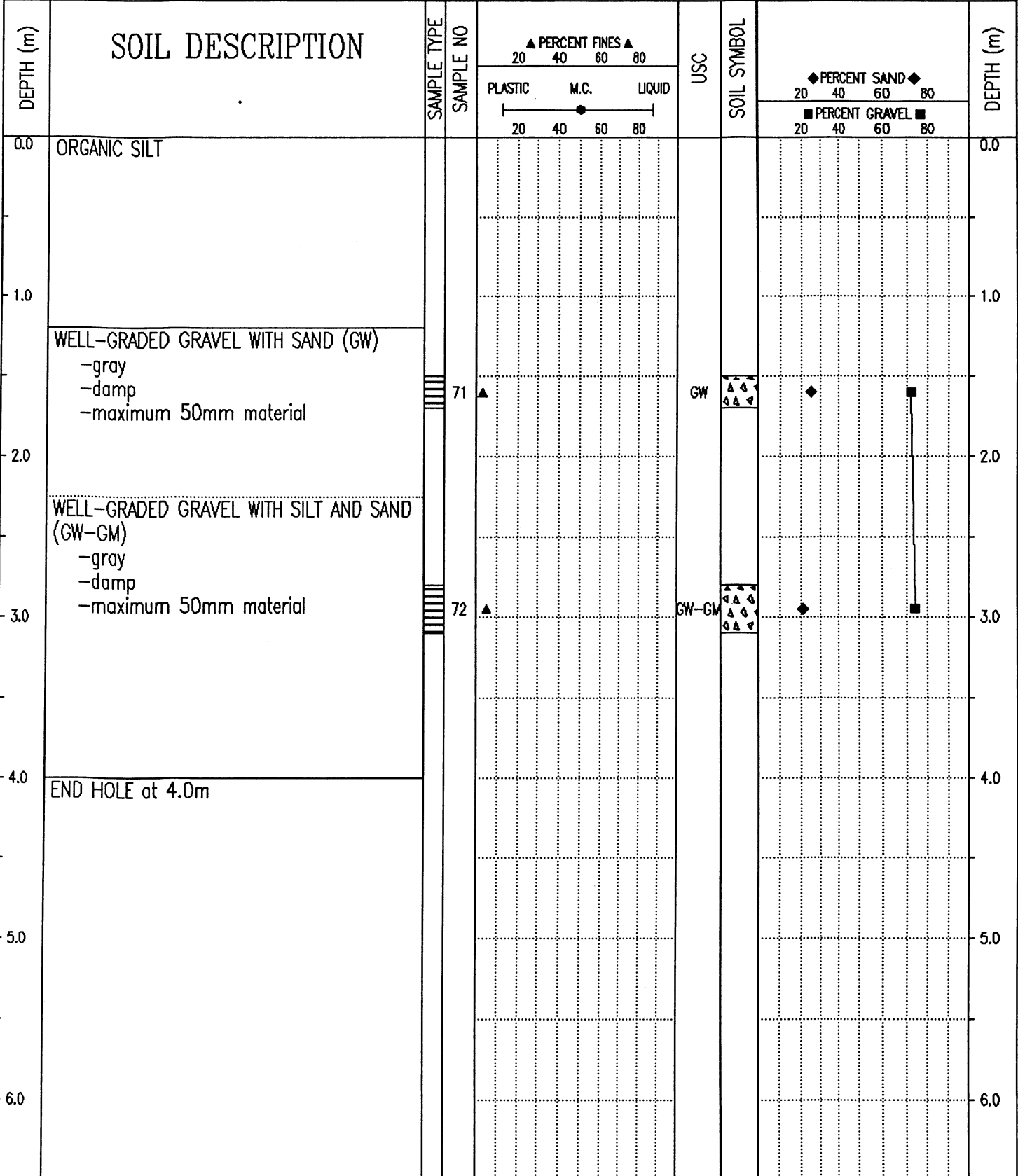
|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | SHAKWAK PROJECT                     | TEST PIT NO: 323-218        |
| ENGINEERING-CAPITAL  | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER   | LOCATION: Sta. 1889+125 o/s 25m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |



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Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: DT | COMPLETION DEPTH: 5.8 m |
| REVIEWED BY:  | COMPLETE: 94/09/08      |
| Fig. No:      | Page 1 of 1             |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: DA | COMPLETION DEPTH: 4.0 m |
| REVIEWED BY:  | COMPLETE: 94/08/26      |
| Fig. No:      | Page 1 of 1             |

|   |  |                                     |                             |
|---|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  |  | SHAKWAK PROJECT                     | TEST PIT NO: 318-66         |
| ENGINEERING-CAPITAL   |  | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225  |  | LOCATION: Sta. 1889+150 o/s 25m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|--|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|----|-----------|
|           |  |             |           | 20              | 40 | 60 |     |             | 80             | 20 | 40 |           |
| 0.0       | ORGANIC MATERIAL   |             |           |                 |    |    |     |             |                |    |    | 0.0       |
| 1.0       | SILTY GRAVEL<br>-brown<br>-wet<br>-maximum 50mm material<br>-sample #56 not tested<br>-frozen below 1.1m |             | 56        |                 |    |    |     |             |                |    |    | 1.0       |
| 2.0       | END HOLE at 1.6m   |             |           |                 |    |    |     |             |                |    |    | 2.0       |
| 3.0       |  |             |           |                 |    |    |     |             |                |    |    | 3.0       |
| 4.0       |  |             |           |                 |    |    |     |             |                |    |    | 4.0       |
| 5.0       |  |             |           |                 |    |    |     |             |                |    |    | 5.0       |
| 6.0       |  |             |           |                 |    |    |     |             |                |    |    | 6.0       |

Government of Yukon  
Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.6 m  
COMPLETE: 94/08/25

|  |                                       |                             |
|--|---------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY PRE-ENGINEERING        | TEST PIT NO: 259-55         |
| SHAKWAK PROJECT                        | SEGMENT 16                            | Project No: 202101-0312-193 |
| BACKHOE: CAT 235                       | LOCATION: See Plan 1889 + 173 % 98 Rt | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|--|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|-----------|
|           |  |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 |           |
| 0.0       | WELL-GRADED GRAVEL (GW)<br>-brown<br>-wet<br>-maximum 100mm material                                   |             |           |                 |      |        |     |             |                |    | 0.0       |
| 1.0       |  |             | 113       |                 |      |        | GW  | ◆           | ■              |    | 1.0       |
| 3.0       | END HOLE at 3.0m<br>-depth approximate due to caving in<br>-at bottom of old pit<br>-at hole # 252-125 |             |           |                 |      |        |     |             |                |    | 3.0       |
| 4.0       |  |             |           |                 |      |        |     |             |                |    | 4.0       |
| 5.0       |  |             |           |                 |      |        |     |             |                |    | 5.0       |
| 6.0       |  |             |           |                 |      |        |     |             |                |    | 6.0       |

|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DT | COMPLETION DEPTH: 3.0 m |
|   | REVIEWED BY:  | COMPLETE: 93/10/05      |
|   | Fig. No:      | Page 1 of 1             |

| SUBSURFACE EXPLORATION AND TEST REPORT |  | SHAKWAK PROJECT                           |           | TEST HOLE NO: 330-231         |      |        |     |             |              |    |    |           |
|--|--|---|-----------|-------------------------------|------|--------|-----|-------------|--------------|----|----|-----------|
| ENGINEERING-CAPITAL                    |  | SEGMENT 16                                |           | Project No: 092-202101-0312   |      |        |     |             |              |    |    |           |
| DRILL: B40L 150mm SOLID STEM AUGER     |  | LOCATION: Sta. 1889+175 o/s 25m Lt.       |           | ELEVATION: 0.00 (m)           |      |        |     |             |              |    |    |           |
| SAMPLE TYPE                            |  | RETURN                                    |           | S.P.T.                        |      |        |     |             |              |    |    |           |
|  |  | <input checked="" type="checkbox"/> AUGER |           | <input type="checkbox"/> BULK |      |        |     |             |              |    |    |           |
|  |  | <input type="checkbox"/> TUBE             |           | <input type="checkbox"/> CORE |      |        |     |             |              |    |    |           |
| DEPTH (m)                              | SOIL DESCRIPTION                         | SAMPLE TYPE                               | SAMPLE NO | PERCENT FINES                 |      |        | USC | SOIL SYMBOL | PERCENT SAND |    |    | DEPTH (m) |
|  |  |   |           | PLASTIC                       | M.C. | LIQUID |     |             | 20           | 40 | 60 |           |
| 0.0                                    | ORGANIC MATERIAL                         |   |           |                               |      |        |     |             |              |    |    | 0.0       |
|  | ORGANIC SILT                             |   |           |                               |      |        |     |             |              |    |    |           |
|  | -black                                   |   |           |                               |      |        |     |             |              |    |    |           |
|  | -smooth drilling                         |   |           |                               |      |        |     |             |              |    |    |           |
| 1.0                                    | SANDY GRAVEL                             |   |           |                               |      |        |     |             |              |    |    | 1.0       |
|  | -brown                                   | <input checked="" type="checkbox"/>       | 334       |                               |      |        |     |             |              |    |    |           |
|  | -moist                                   |   |           |                               |      |        |     |             |              |    |    |           |
| 2.0                                    | -some silt                               |   |           |                               |      |        |     |             |              |    |    | 2.0       |
|  | -maximum 50mm material augered up        |   |           |                               |      |        |     |             |              |    |    |           |
|  | -grindy drilling                         |   |           |                               |      |        |     |             |              |    |    |           |
|  | -sample #334 not tested                  |   |           |                               |      |        |     |             |              |    |    |           |
| 3.0                                    | -sample #335 not tested                  | <input checked="" type="checkbox"/>       | 335       |                               |      |        |     |             |              |    |    | 3.0       |
|  |  |   |           |                               |      |        |     |             |              |    |    |           |
| 4.0                                    |  |   |           |                               |      |        |     |             |              |    |    | 4.0       |
|  |  |   |           |                               |      |        |     |             |              |    |    |           |
| 5.0                                    | -sample #336 not tested                  | <input checked="" type="checkbox"/>       | 336       |                               |      |        |     |             |              |    |    | 5.0       |
|  |  |   |           |                               |      |        |     |             |              |    |    |           |
| 6.0                                    | -frozen (Vx) with visible ice below 5.2m |   |           |                               |      |        |     |             |              |    |    | 6.0       |
|  | -slow noisy jumpy drilling below 5.2m    | <input checked="" type="checkbox"/>       | 337       |                               |      |        |     |             |              |    |    |           |
|  | -sample #337 not tested                  |   |           |                               |      |        |     |             |              |    |    |           |
| 7.0                                    | -sample #338 not tested                  | <input checked="" type="checkbox"/>       | 338       |                               |      |        |     |             |              |    |    | 7.0       |
|  |  |   |           |                               |      |        |     |             |              |    |    |           |
|  | END HOLE at 7.3m                         |   |           |                               |      |        |     |             |              |    |    |           |
|  | -refusal                                 |   |           |                               |      |        |     |             |              |    |    |           |
| 8.0                                    |  |   |           |                               |      |        |     |             |              |    |    | 8.0       |
|  |  |   |           |                               |      |        |     |             |              |    |    |           |
| 9.0                                    |  |   |           |                               |      |        |     |             |              |    |    | 9.0       |
|  |  |   |           |                               |      |        |     |             |              |    |    |           |
| 10.0                                   |  |   |           |                               |      |        |     |             |              |    |    | 10.0      |

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Transportation Engineering

LOGGED BY: DT

REVIEWED BY:

Fig. No:

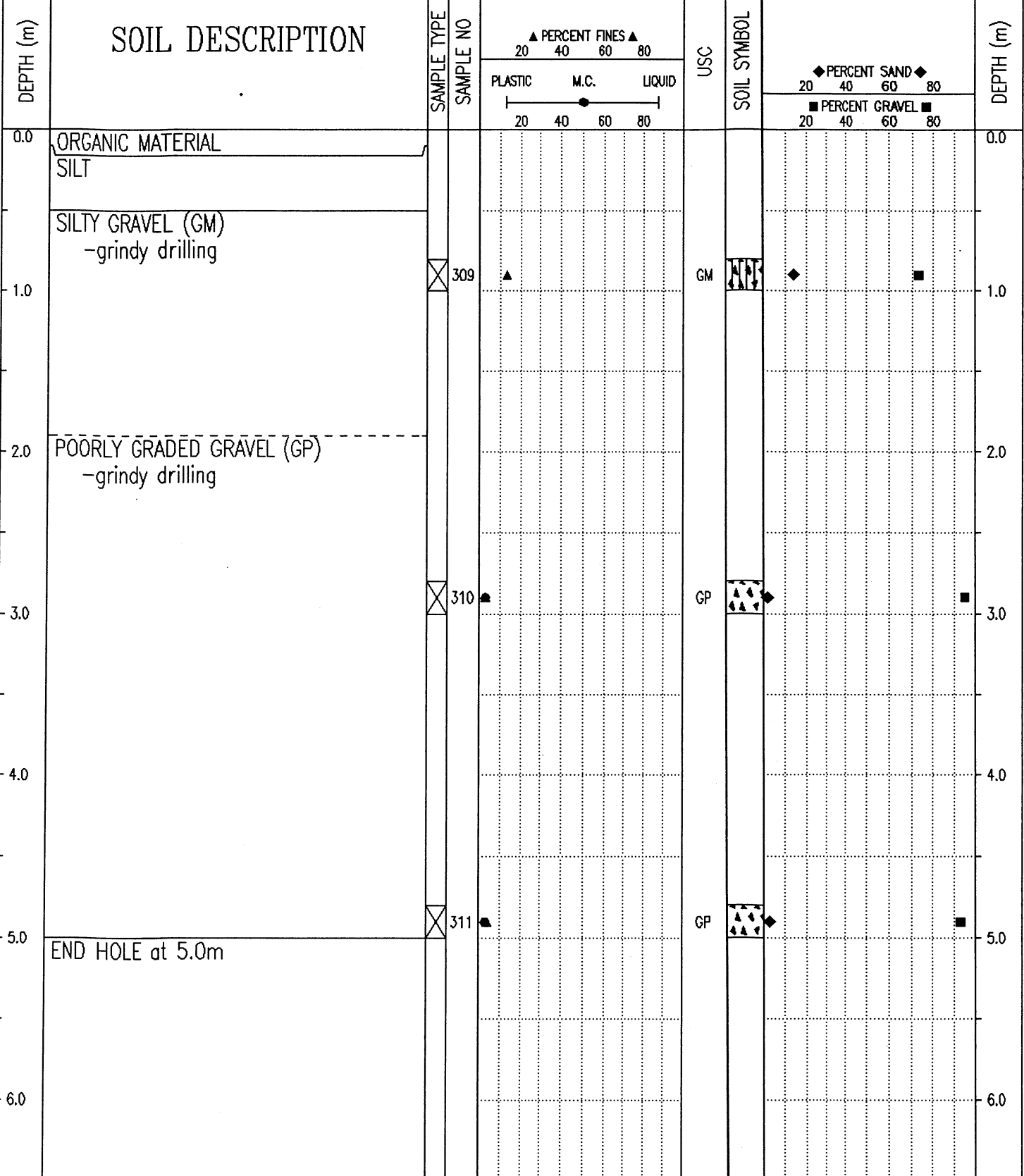
COMPLETION DEPTH: 7.3 m

COMPLETE: 94/09/10

Page 1 of 1

|   |                                 |                             |
|---|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 252-123       |
| SHAKWAK PROJECT                           | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1889+200 o/s Rt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 93/09/20

Page 1 of 1

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST HOLE NO: 323-217       |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: Sta. 1889+200 o/s 25m Rt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

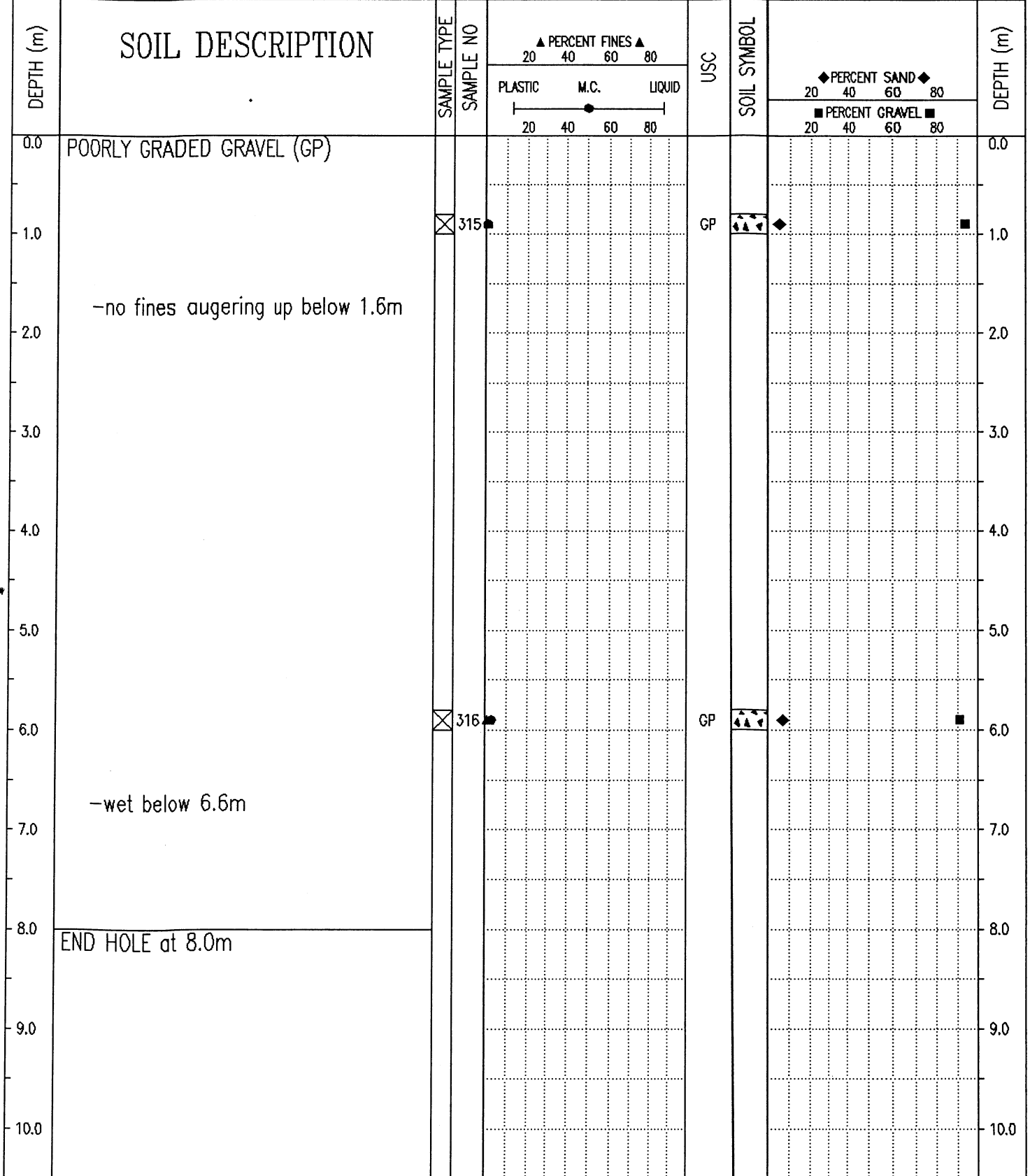
| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |             |             | USC | SOIL SYMBOL | DEPTH (m) |
|-----------|--|-------------|-----------|-----------------|-------------|-------------|-----|-------------|-----------|
|           |  |             |           | PLASTIC         | M.C.        | LIQUID      |     |             |           |
|           |  |             |           | 20 40 60 80     | 20 40 60 80 | 20 40 60 80 |     |             |           |
| 0.0       | ORGANIC MATERIAL<br>-smooth drilling   |             |           |                 |             |             |     | 0.0         |           |
|           | ORGANIC SILT<br>-black<br>-frozen (Vx) with visible ice<br>-very slow smooth drilling  |             |           |                 |             |             |     |             |           |
| 1.0       | ORGANIC MATERIAL<br>-frozen (Vx) with visible ice  |             |           |                 |             |             |     | 1.0         |           |
|           | SILT WITH GRAVEL<br>-gray<br>-frozen (Vx) with visible ice<br>-trace of grindy drilling  |             |           |                 |             |             |     |             |           |
| 2.0       |  |             |           |                 |             |             |     | 2.0         |           |
|           | SANDY GRAVEL<br>-brown<br>-frozen (Vx) with visible ice<br>-some silt<br>-maximum 50mm material augered up<br>-slow noisy jumpy drilling<br>-sample # 272 not tested |             | 272       |                 |             |             |     | 3.0         |           |
| 3.0       |  |             |           |                 |             |             |     |             |           |
|           | -more silt and ice (Vx) below 4.2m<br>-sample #273 not tested  |             | 273       |                 |             |             |     | 4.0         |           |
| 4.0       |  |             |           |                 |             |             |     |             |           |
|           | -more silt below 5.2m<br>-very slow noisy jumpy drilling below 5.2m<br>-sample #274 not tested   |             | 274       |                 |             |             |     | 5.0         |           |
| 5.0       |  |             |           |                 |             |             |     |             |           |
|           | END HOLE at 5.8m<br>-refusal   |             |           |                 |             |             |     | 6.0         |           |

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Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: DT | COMPLETION DEPTH: 5.8 m |
| REVIEWED BY:  | COMPLETE: 94/09/08      |
| Fig. No:      | Page 1 of 1             |

|   |                                     |                             |
|---|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING      | TEST HOLE NO: 252-125       |
| SHAKWAK PROJECT                           | SEGMENT 16                          | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: See Plan 1889+200 % 76 Rt | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



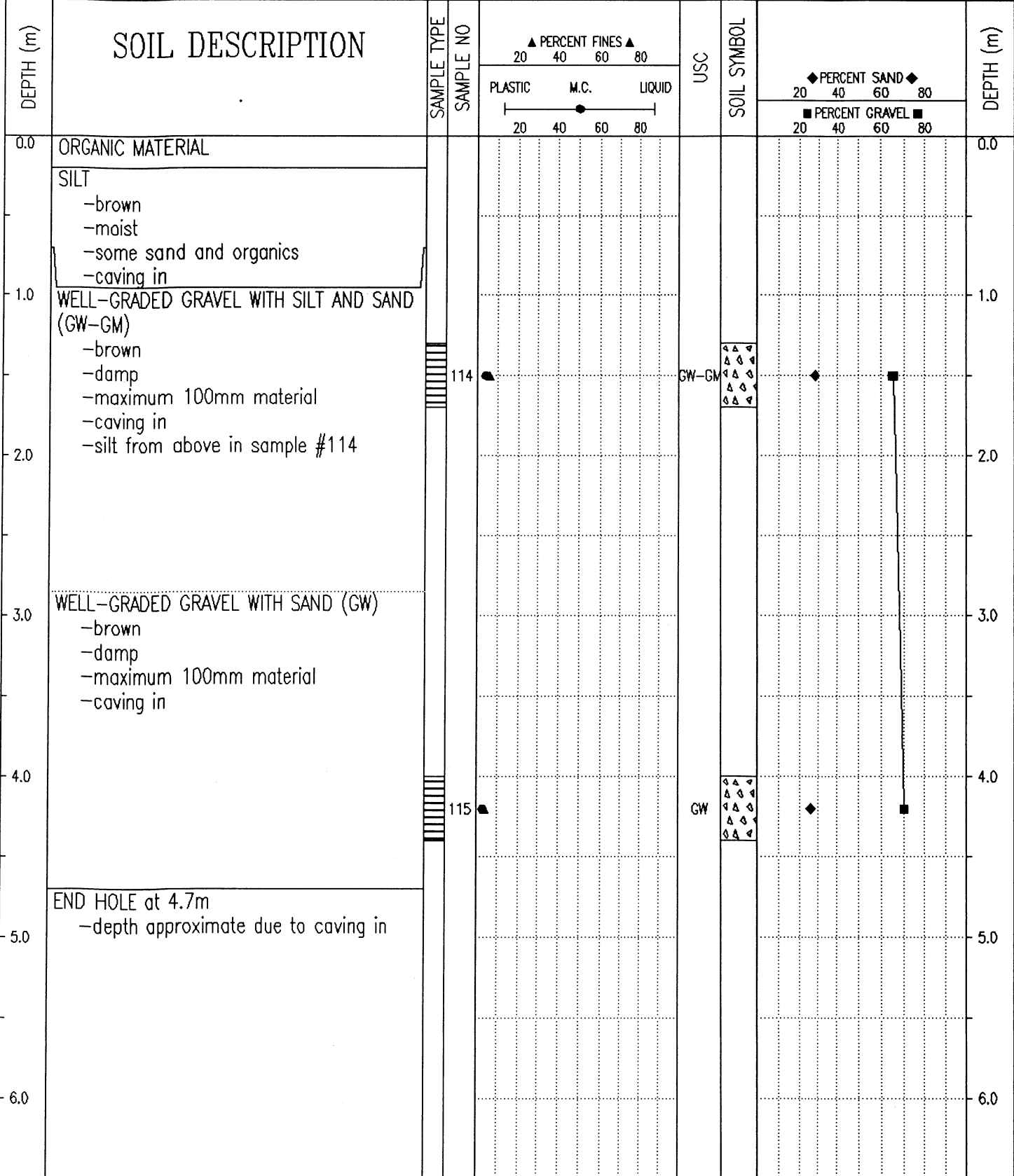
Government of Yukon  
Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 8.0 m  
COMPLETE: 93/09/20

|  |                                       |                             |
|--|---------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY PRE-ENGINEERING        | TEST PIT NO: 259-56         |
| SHAKWAK PROJECT                        | SEGMENT 16                            | Project No: 202101-0312-193 |
| BACKHOE: CAT 235                       | LOCATION: See Plan 1889 + 215 % 88 Rt | ELEVATION: 0.00 (m)         |

|             |  |  |   |                               |                               |                               |
|-------------|--|--|---|-------------------------------|-------------------------------|-------------------------------|
| SAMPLE TYPE | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER | <input type="checkbox"/> BULK | <input type="checkbox"/> TUBE | <input type="checkbox"/> CORE |
|-------------|--|--|---|-------------------------------|-------------------------------|-------------------------------|



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Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: DT | COMPLETION DEPTH: 4.7 m |
| REVIEWED BY:  | COMPLETE: 93/10/06      |
| Fig. No:      | Page 1 of 1             |

|   |  |                                     |                             |
|---|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  |  | SHAKWAK PROJECT                     | TEST PIT NO: 319-83         |
| ENGINEERING-CAPITAL   |  | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225  |  | LOCATION: Sta. 1889+225 o/s 20m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION             | SAMPLE TYPE | SAMPLE NO | PERCENT FINES |    |    | USC | SOIL SYMBOL | PERCENT SAND |    |    | PERCENT GRAVEL |    |    | DEPTH (m) |
|-----------|------------------------------|-------------|-----------|---------------|----|----|-----|-------------|--------------|----|----|----------------|----|----|-----------|
|           |                              |             |           | 20            | 40 | 60 |     |             | 80           | 20 | 40 | 60             | 80 | 20 |           |
| 0.0       | ORGANIC MATERIAL             |             |           |               |    |    |     |             |              |    |    |                |    |    | 0.0       |
| 0.0 - 1.0 | SILT<br>-dark brown<br>-damp |             |           |               |    |    |     |             |              |    |    |                |    |    | 1.0       |
| 1.0 - 1.2 | GRAVEL<br>-gray<br>-frozen   |             |           |               |    |    |     |             |              |    |    |                |    |    | 2.0       |
| 1.2       | END HOLE at 1.2m             |             |           |               |    |    |     |             |              |    |    |                |    |    | 2.0       |
| 2.0       |                              |             |           |               |    |    |     |             |              |    |    |                |    |    | 2.0       |
| 3.0       |                              |             |           |               |    |    |     |             |              |    |    |                |    |    | 3.0       |
| 4.0       |                              |             |           |               |    |    |     |             |              |    |    |                |    |    | 4.0       |
| 5.0       |                              |             |           |               |    |    |     |             |              |    |    |                |    |    | 5.0       |
| 6.0       |                              |             |           |               |    |    |     |             |              |    |    |                |    |    | 6.0       |

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LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.2 m  
COMPLETE: 94/08/26

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST PIT NO: 318-65         |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1889+240 o/s 30m Rt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|--|-------------|-----------|-------------------|------|--------|-----|-------------|------------------|----|-----------|
|           |  |             |           | PLASTIC           | M.C. | LIQUID |     |             | 20               | 40 |           |
| 0.0       | ORGANIC MATERIAL   |             |           |                   |      |        |     |             |                  |    | 0.0       |
| 1.0       |  |             |           |                   |      |        |     |             |                  |    | 1.0       |
| 2.0       | SANDY GRAVEL<br>-gray<br>-damp<br>-maximum 75mm material<br>-sample #54 not tested |             | 54        |                   |      |        |     |             |                  |    | 2.0       |
| 3.0       | -sample #55 not tested   |             | 55        |                   |      |        |     |             |                  |    | 3.0       |
| 3.0       | -frozen below 3.0m   |             |           |                   |      |        |     |             |                  |    | 3.0       |
| 4.0       | END HOLE at 3.2m   |             |           |                   |      |        |     |             |                  |    | 4.0       |
| 5.0       |  |             |           |                   |      |        |     |             |                  |    | 5.0       |
| 6.0       |  |             |           |                   |      |        |     |             |                  |    | 6.0       |

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Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: DA | COMPLETION DEPTH: 3.2 m |
| REVIEWED BY:  | COMPLETE: 94/08/25      |
| Fig. No:      | Page 1 of 1             |

|   |  |                                     |                             |
|---|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  |  | SHAKWAK PROJECT                     | TEST HOLE NO: 330-232       |
| ENGINEERING-CAPITAL   |  | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER  |  | LOCATION: Sta. 1889+250 o/s 25m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND / GRAVEL |                |  | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|---------------|------|--------|-----|-------------|-----------------------|----------------|--|-----------|
|           |  |                                     |           | PLASTIC       | M.C. | LIQUID |     |             | PERCENT SAND          | PERCENT GRAVEL |  |           |
| 0.0       | ORGANIC MATERIAL   |                                     |           |               |      |        |     |             |                       |                |  | 0.0       |
|           | ORGANIC SILT<br>-smooth drilling   |                                     |           |               |      |        |     |             |                       |                |  |           |
| 1.0       | SANDY GRAVEL<br>-brown<br>-moist<br>-some silt<br>-maximum 50mm material augered up<br>-grindy drilling<br>-sample #339 not tested | <input checked="" type="checkbox"/> | 339       |               |      |        |     |             |                       |                |  | 1.0       |
| 2.0       | -frozen (Vx) with visible ice below 1.8m<br>-slow noisy jumpy drilling below 1.8m  |                                     |           |               |      |        |     |             |                       |                |  | 2.0       |
| 3.0       | -first refusal at 2.8m<br>-sample #340 not tested  | <input checked="" type="checkbox"/> | 340       |               |      |        |     |             |                       |                |  | 3.0       |
| 4.0       | END HOLE at 3.5m<br>-refusal<br>-rock dust on bit  |                                     |           |               |      |        |     |             |                       |                |  | 4.0       |
| 5.0       |  |                                     |           |               |      |        |     |             |                       |                |  | 5.0       |
| 6.0       |  |                                     |           |               |      |        |     |             |                       |                |  | 6.0       |

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LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.5 m  
COMPLETE: 94/09/10

SAMPLE TYPE  RETURN     S.P.T.     AUGER     BULK     TUBE     CORE

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO | ▲ PERCENT FINES ▲<br>20 40 60 80<br>PLASTIC    M.C.    LIQUID<br>—————<br>20 40 60 80 | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆<br>20 40 60 80<br>■ PERCENT GRAVEL ■<br>20 40 60 80 | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|---|-----|-------------|--|-----------|
| 0.0       | ORGANIC MATERIAL   |                                     |           |   |     |             |  | 0.0       |
|           | SILT<br>-dark brown<br>-smooth drilling  |                                     |           |   |     |             |  |           |
| 1.0       | SANDY GRAVEL<br>-brown<br>-moist<br>-some silt<br>-maximum 50mm material augered up<br>-grindy drilling<br>-sample #269 not tested | <input checked="" type="checkbox"/> | 269       | ●   |     |             |  | 1.0       |
| 2.0       | -frozen (Vx) with visible ice below 1.8m<br>-slow noisy jumpy drilling below 1.8m  |                                     |           |   |     |             |  | 2.0       |
| 3.0       | -less silt below 2.6m<br>-maximum 75mm material augered up below 2.6m<br>-sample #270 not tested                                   | <input checked="" type="checkbox"/> | 270       | ●   |     |             |  | 3.0       |
| 4.0       |  |                                     |           |   |     |             |  | 4.0       |
| 5.0       | -less ice below 4.2m<br>-more silt below 4.2m<br>-sample #271 not tested   | <input checked="" type="checkbox"/> | 271       | ●   |     |             |  | 5.0       |
| 6.0       | END HOLE at 5.2m<br>-refusal<br>-rock dust on bit  |                                     |           |   |     |             |  | 6.0       |

| SUBSURFACE EXPLORATION AND TEST REPORT    |  | ALASKA HIGHWAY PRE-ENGINEERING      |  | TEST HOLE NO: 252-122                     |                               |                               |                               |             |                  |    |    |           |     |
|---|--|-------------------------------------|--|---|-------------------------------|-------------------------------|-------------------------------|-------------|------------------|----|----|-----------|-----|
| SHAKWAK PROJECT                           |  | SEGMENT 16                          |  | Project No: 202101-0312-193               |                               |                               |                               |             |                  |    |    |           |     |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |  | LOCATION: Sta. 1889+363             |  | ELEVATION: 0.00 (m)                       |                               |                               |                               |             |                  |    |    |           |     |
| SAMPLE TYPE                               |  | <input type="checkbox"/> RETURN     | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER | <input type="checkbox"/> BULK | <input type="checkbox"/> TUBE | <input type="checkbox"/> CORE |             |                  |    |    |           |     |
| DEPTH (m)                                 | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO                                  | PERCENT FINES ▲                           |                               |                               | USC                           | SOIL SYMBOL | PERCENT SAND ◆   |    |    | DEPTH (m) |     |
|   |  |                                     |  | PLASTIC                                   | M.C.                          | LIQUID                        |                               |             | PERCENT GRAVEL ■ |    |    |           |     |
|   |  |                                     |  | 20  | 40                            | 60                            | 80                            |             | 20               | 40 | 60 | 80        |     |
|   |  |                                     |  | 20  | 40                            | 60                            | 80                            |             | 20               | 40 | 60 | 80        |     |
| 0.0                                       | WELL-GRADED GRAVEL WITH SILT (GW-GM)<br>-grindy drilling               |                                     |  |   |                               |                               |                               |             |                  |    |    |           | 0.0 |
| 1.0                                       |  | <input checked="" type="checkbox"/> | 307  |   |                               |                               |                               | GW-GM       | ◆                |    |    | ■         | 1.0 |
| 2.0                                       | POORLY GRADED GRAVEL (GP)<br>-grindy drilling<br>-no fines augering up |                                     |  |   |                               |                               |                               |             |                  |    |    |           | 2.0 |
| 3.0                                       |  | <input checked="" type="checkbox"/> | 308  |   |                               |                               |                               | GP          | ◆                |    |    | ■         | 3.0 |
| 4.0                                       |  |                                     |  |   |                               |                               |                               |             |                  |    |    |           | 4.0 |
| 5.0                                       | END HOLE at 5.0m   |                                     |  |   |                               |                               |                               |             |                  |    |    |           | 5.0 |
| 6.0                                       |  |                                     |  |   |                               |                               |                               |             |                  |    |    |           | 6.0 |

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LOGGED BY: TF

COMPLETION DEPTH: 5.0 m

REVIEWED BY:

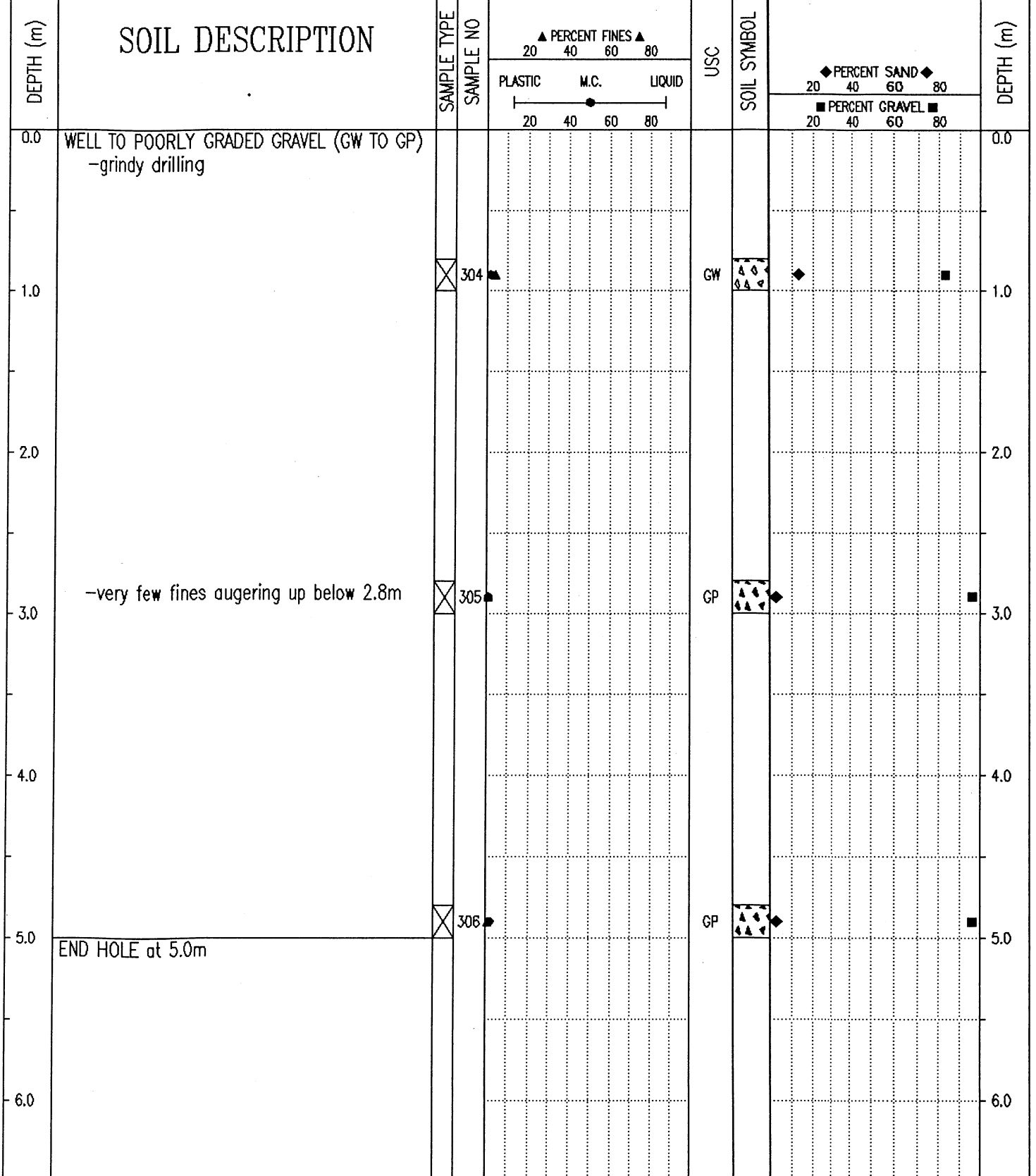
COMPLETE: 93/09/20

Fig. No:

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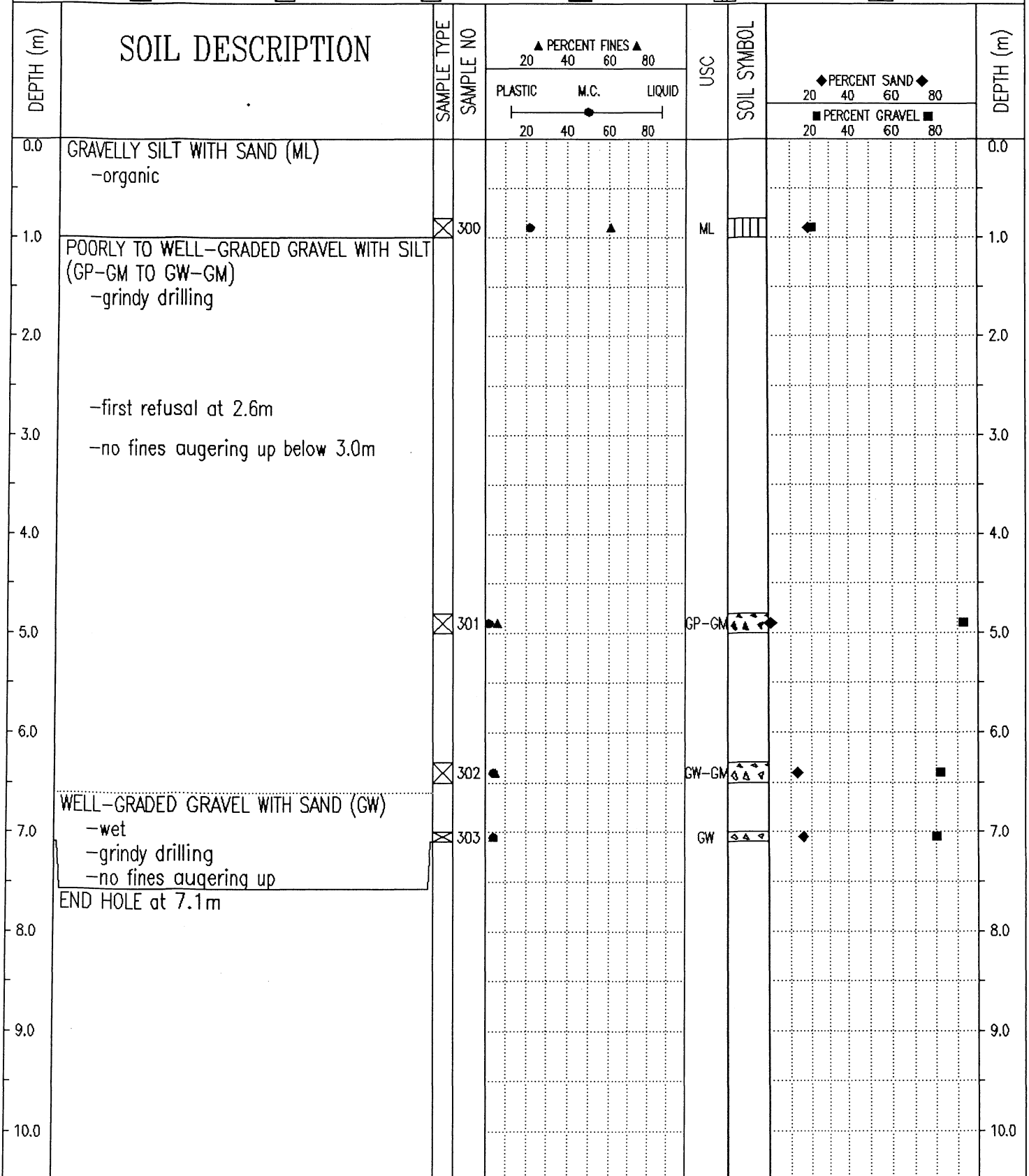
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|---|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 252-121       |
| SHAKWAK PROJECT                           | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1889+500 o/s Rt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 5.0 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/20      |
|   | Fig. No:      | Page 1 of 1             |

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING      | TEST HOLE NO: 252-120       |
| SHAKWAK PROJECT  | SEGMENT 16                          | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1889+560 o/s 40m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |



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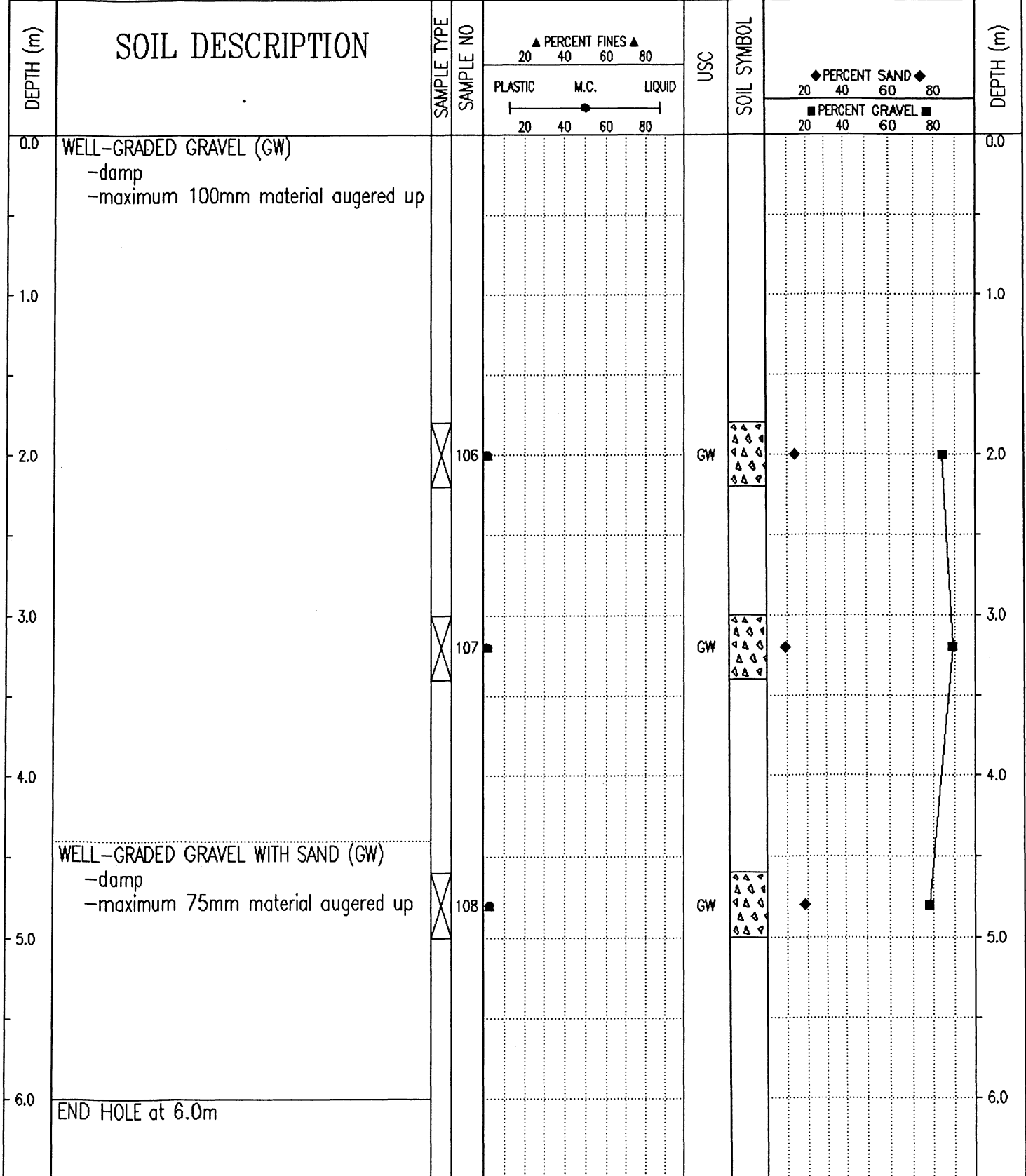
Fig. No:

COMPLETION DEPTH: 7.1 m

COMPLETE: 93/09/20

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|  |  |                             |
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| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY RE-CONSTRUCTION   | TEST PIT NO: 302-31         |
| SHAKWAK PROJECT                        | SEGMENT 16   | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan 1889+585 2/3 30m / 4  | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE                            | <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                             |



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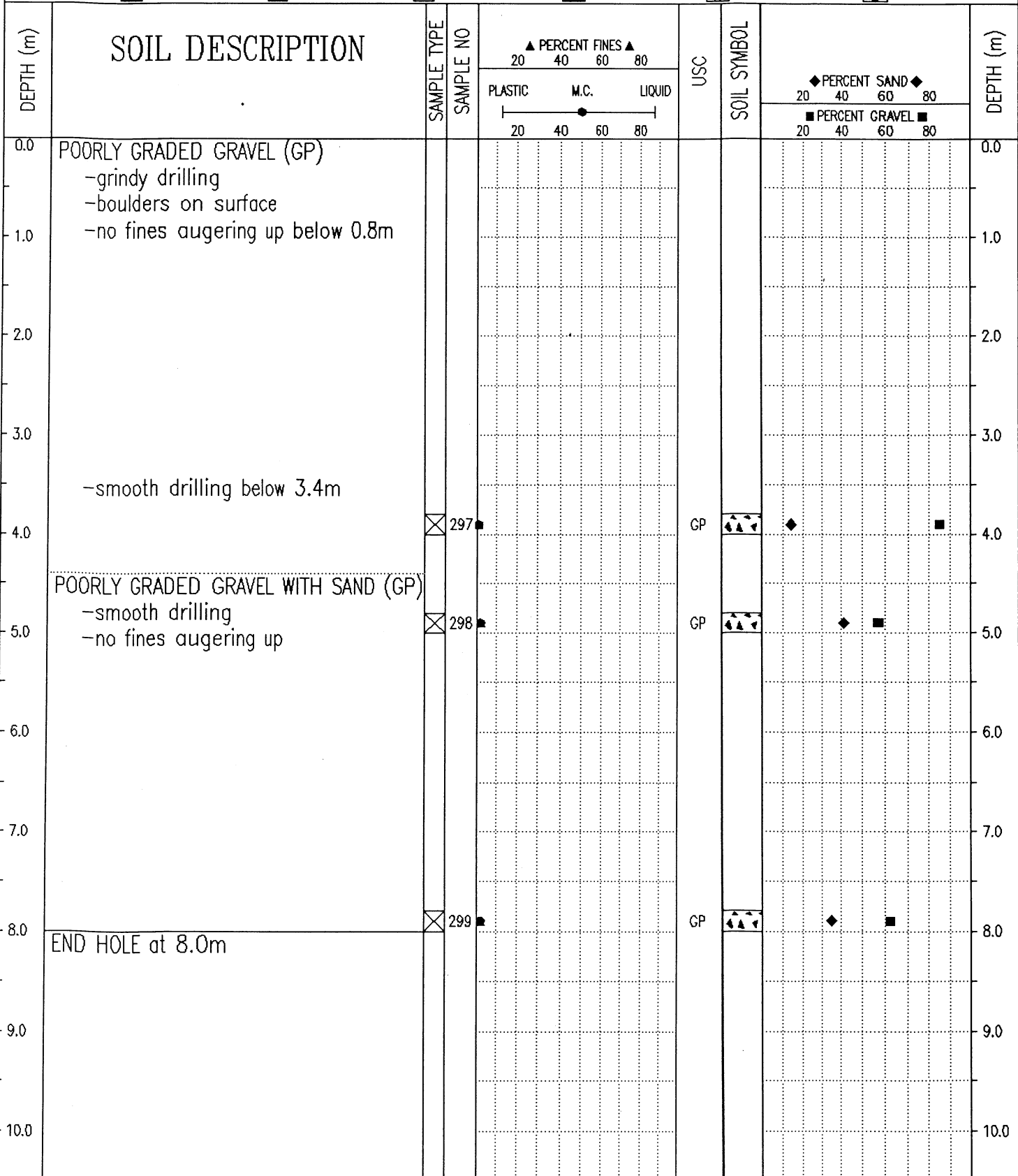
Fig. No:

COMPLETION DEPTH: 6.0 m

COMPLETE: 94/07/12

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| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING             | TEST HOLE NO: 252-119                      |
| SHAKWAK PROJECT                           | SEGMENT 16                                 | Project No: 202101-0312-193                |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1889+600 o/s 40m Lt.        | ELEVATION: 0.00 (m)                        |
| SAMPLE TYPE                               | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. |
|   | <input checked="" type="checkbox"/> AUGER  | <input type="checkbox"/> BULK              |
|   | <input type="checkbox"/> TUBE              | <input type="checkbox"/> CORE              |

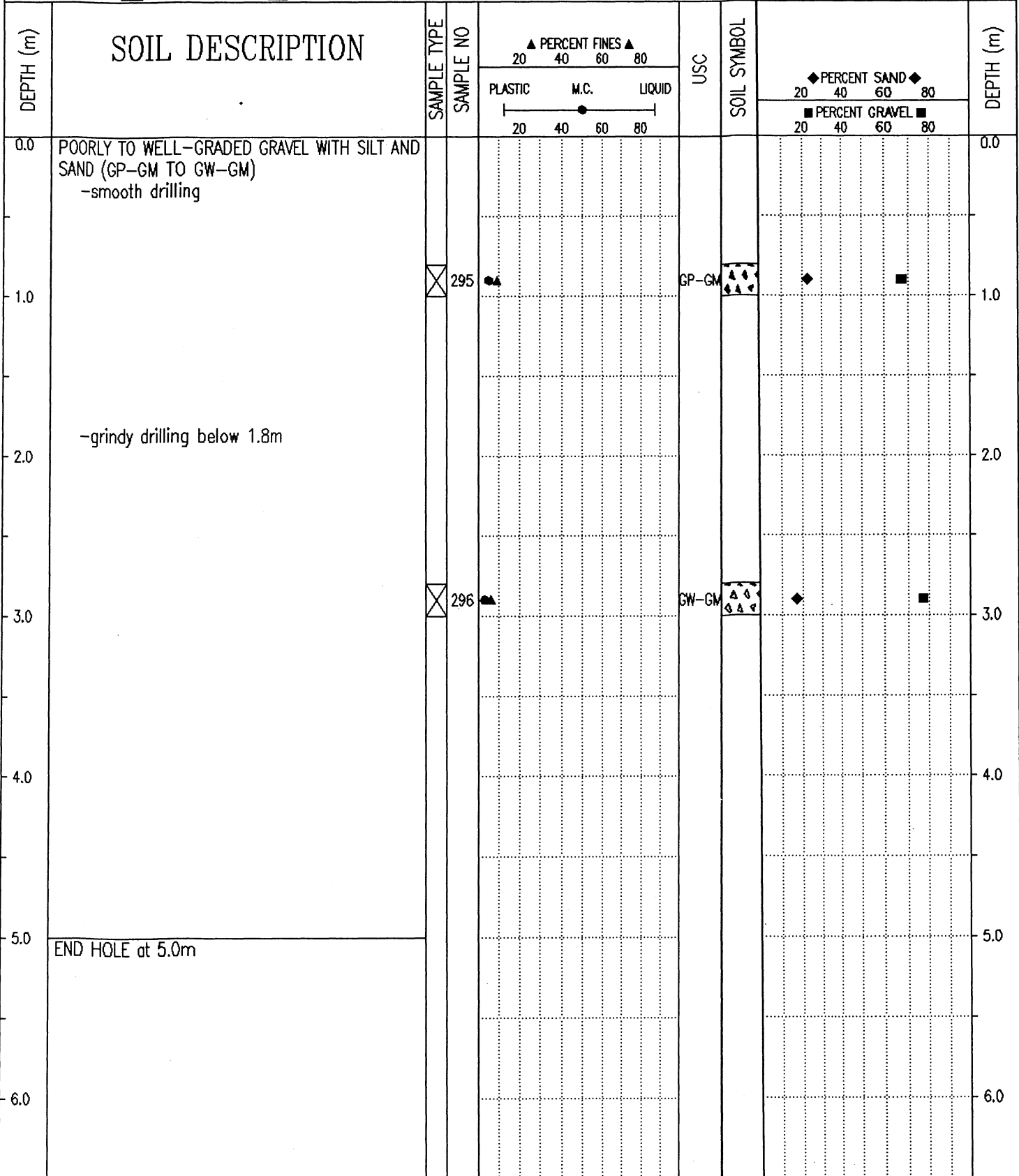


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LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 8.0 m  
COMPLETE: 93/09/20

|  |                                 |                             |
|--|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 252-118       |
| SHAKWAK PROJECT  | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1889+600 o/s Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                 |                             |

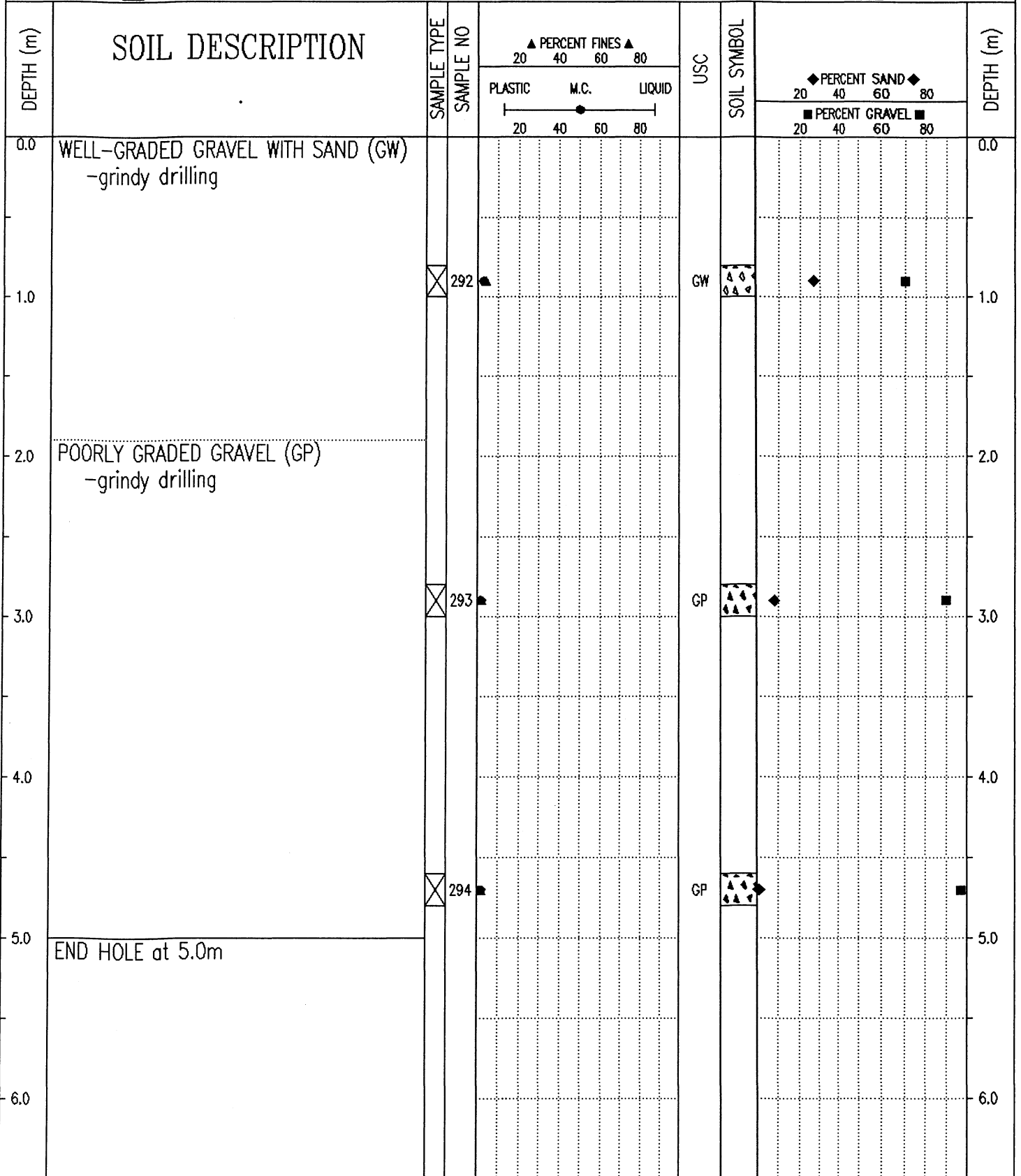


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LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 93/09/20

|  |                                 |                             |
|--|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 246-117       |
| SHAKWAK PROJECT  | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1889+700 o/s Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                 |                             |

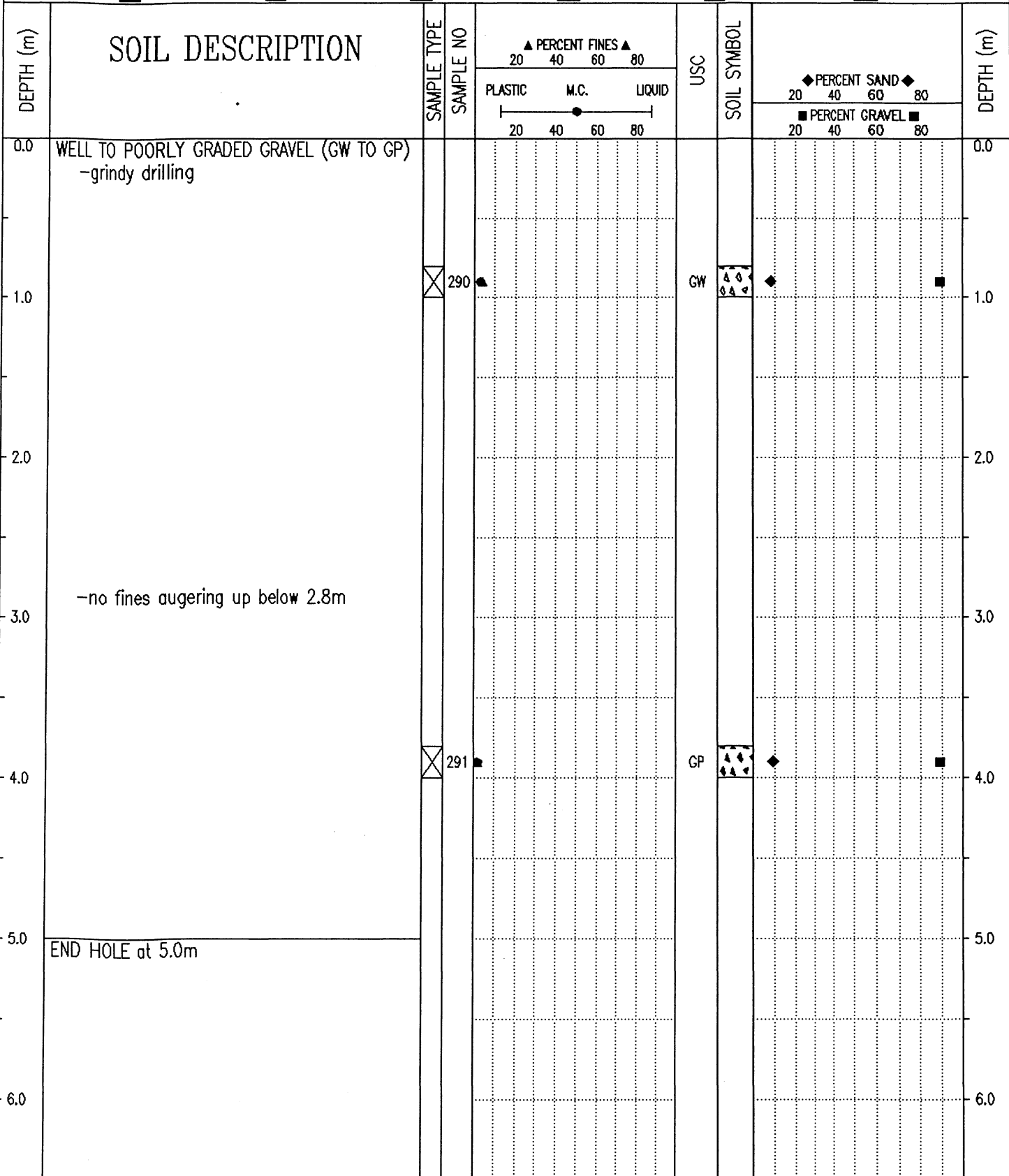


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LOGGED BY: TF  
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Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 93/09/20

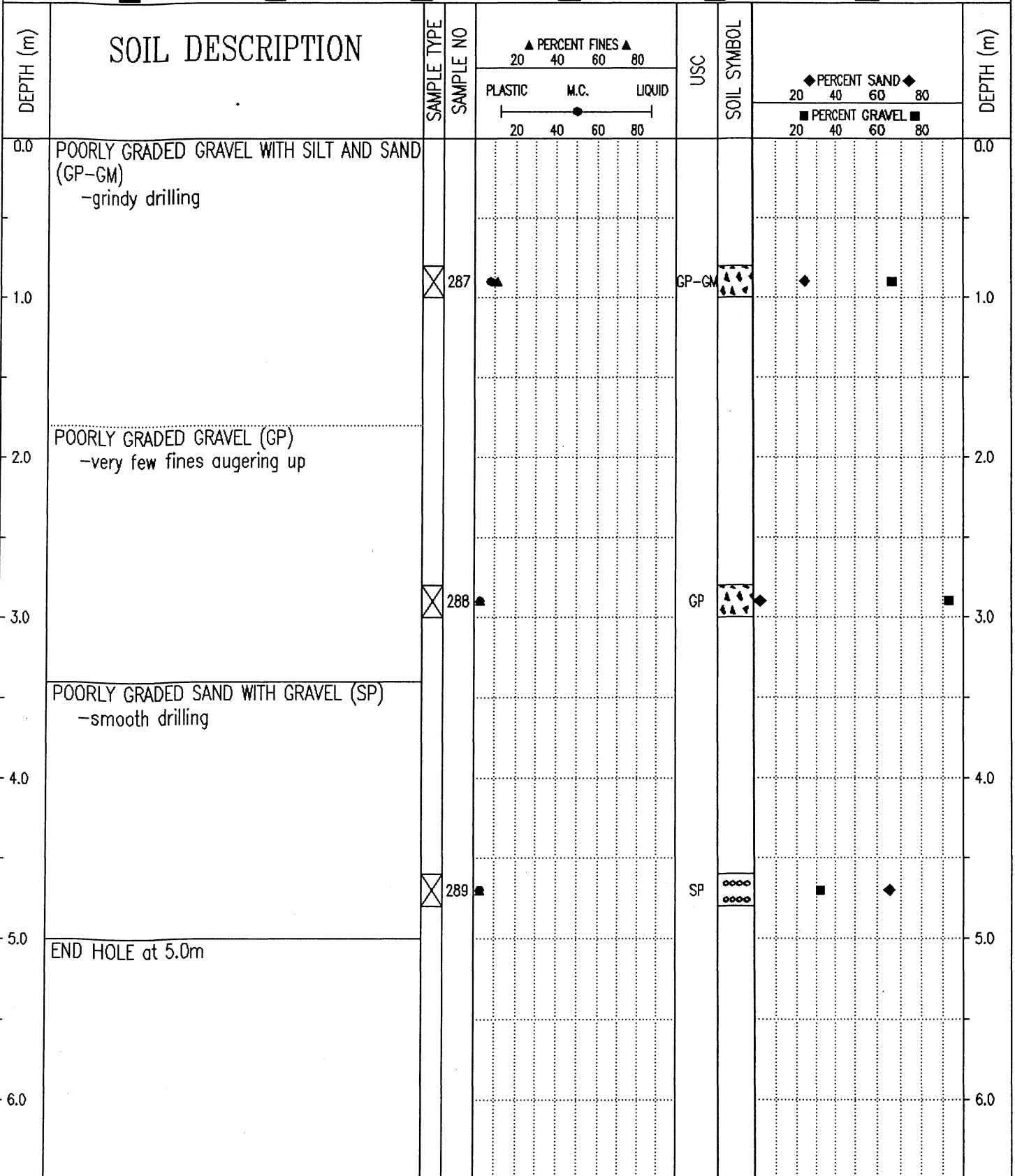
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|--|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 246-116       |
| SHAKWAK PROJECT  | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1889+800 o/s Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                 |                             |



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| LOGGED BY: TF | COMPLETION DEPTH: 5.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/20      |
| Fig. No:      | Page 1 of 1             |

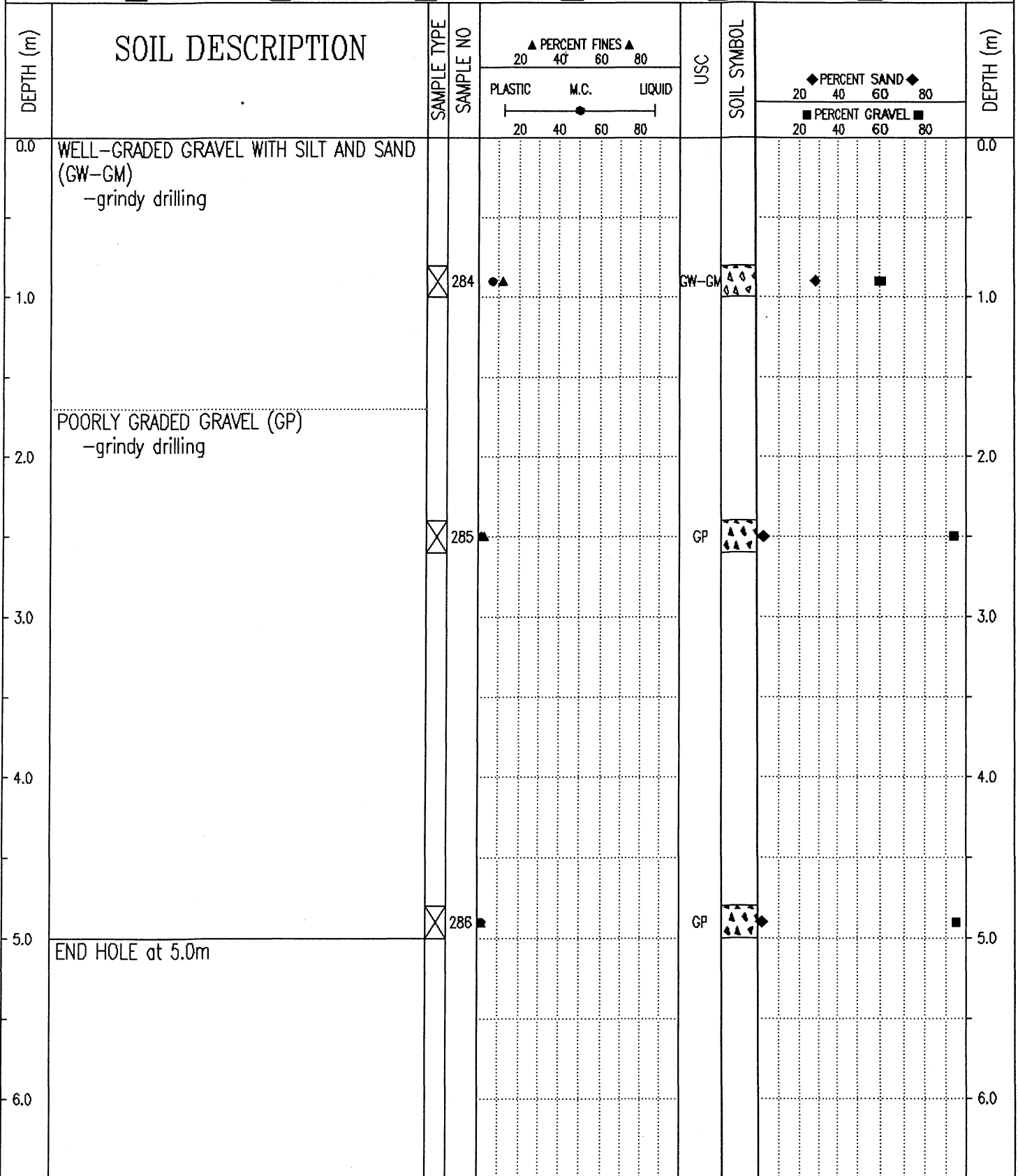
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|---|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 246-115       |
| SHAKWAK PROJECT   | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER   | LOCATION: Sta. 1889+900 o/s Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                 |                             |



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Fig. No:  
COMPLETION DEPTH: 5.0 m  
COMPLETE: 93/09/20  
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|---|--|--|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING             | TEST HOLE NO: 246-114                      |
| SHAKWAK PROJECT                           | SEGMENT 16                                 | Project No: 202101-0312-193                |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1890+000 o/s Rt.            | ELEVATION: 0.00 (m)                        |
| SAMPLE TYPE                               | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. |
|   | <input checked="" type="checkbox"/> AUGER  | <input type="checkbox"/> BULK              |
|   | <input type="checkbox"/> TUBE              | <input type="checkbox"/> CORE              |



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LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 93/09/20

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST HOLE NO: 330-233       |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: Sta. 1890+000 o/s 20m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|-----------------|----|----|-----|-------------|----------------|----|----|-----------|
|           |   |                                     |           | 20              | 40 | 60 |     |             | 80             | 20 | 40 |           |
| 0.0       | ORGANIC MATERIAL  |                                     |           |                 |    |    |     |             |                |    |    | 0.0       |
|           | ORGANIC SILT<br>-black<br>-smooth drilling  |                                     |           |                 |    |    |     |             |                |    |    |           |
| 1.0       | SANDY GRAVEL<br>-brown<br>-frozen (Vx) with visible ice<br>-some silt<br>-slow noisy jumpy drilling<br>-first refusal at 0.6m<br>-sample #341 not tested<br>-second refusal at 1.8m | <input checked="" type="checkbox"/> | 341       |                 |    |    |     |             |                |    |    | 1.0       |
| 2.0       |   |                                     |           |                 |    |    |     |             |                |    |    | 2.0       |
|           | -sample #342 not tested   | <input checked="" type="checkbox"/> | 342       |                 |    |    |     |             |                |    |    |           |
| 3.0       | END HOLE at 2.7m<br>-refusal  |                                     |           |                 |    |    |     |             |                |    |    | 3.0       |
| 4.0       |   |                                     |           |                 |    |    |     |             |                |    |    | 4.0       |
| 5.0       |   |                                     |           |                 |    |    |     |             |                |    |    | 5.0       |
| 6.0       |   |                                     |           |                 |    |    |     |             |                |    |    | 6.0       |

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LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 2.7 m  
COMPLETE: 94/09/10

|  |  |                                     |                             |
|--|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   |  | SHAKWAK PROJECT                     | TEST PIT NO: 318-58         |
| ENGINEERING-CAPITAL  |  | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   |  | LOCATION: Sta. 1890+012 o/s 25m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|--|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|-----------|
|           |  |             |           | 20              | 40 | 60 |     |             | 80             | 20 |           |
| 0.0       | ORGANIC MATERIAL   |             |           |                 |    |    |     |             |                |    | 0.0       |
|           | SILT   |             |           |                 |    |    |     |             |                |    |           |
|           | GRAVEL   |             | 48        |                 |    |    |     |             |                |    |           |
| 1.0       | -brown<br>-frozen with visible ice<br>-sample #48 not tested |             |           |                 |    |    |     |             |                |    | 1.0       |
|           | END HOLE at 1.0m   |             |           |                 |    |    |     |             |                |    |           |
| 2.0       |  |             |           |                 |    |    |     |             |                |    | 2.0       |
| 3.0       |  |             |           |                 |    |    |     |             |                |    | 3.0       |
| 4.0       |  |             |           |                 |    |    |     |             |                |    | 4.0       |
| 5.0       |  |             |           |                 |    |    |     |             |                |    | 5.0       |
| 6.0       |  |             |           |                 |    |    |     |             |                |    | 6.0       |

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LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.0 m  
COMPLETE: 94/08/25

|  |  |                                     |                             |
|--|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   |  | SHAKWAK PROJECT                     | TEST PIT NO: 318-57         |
| ENGINEERING-CAPITAL  |  | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   |  | LOCATION: Sta. 1890+025 o/s 20m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|---|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|----|-----------|
|           |   |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 | 60 |           |
| 0.0       | ORGANIC MATERIAL  |             |           |                 |      |        |     |             |                |    |    | 0.0       |
| 1.0       | GRAVEL<br>-brown<br>-wet<br>-maximum 50mm material<br>-sample #47 not tested<br>-frozen with visible ice below 1.4m |             | 47        |                 |      |        |     |             |                |    |    | 1.0       |
| 2.0       | END HOLE at 1.5m  |             |           |                 |      |        |     |             |                |    |    | 2.0       |
| 3.0       |   |             |           |                 |      |        |     |             |                |    |    | 3.0       |
| 4.0       |   |             |           |                 |      |        |     |             |                |    |    | 4.0       |
| 5.0       |   |             |           |                 |      |        |     |             |                |    |    | 5.0       |
| 6.0       |   |             |           |                 |      |        |     |             |                |    |    | 6.0       |

|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 1.5 m |
|   | REVIEWED BY:  | COMPLETE: 94/08/25      |
|   | Fig. No:      | Page 1 of 1             |

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST HOLE NO: 323-215       |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: Sta. 1890+050 o/s 25m Rt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO | ▲ PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-------------------|----|----|-----|-------------|------------------|----|-----------|
|           |  |                                     |           | 20                | 40 | 60 |     |             | 80               | 20 |           |
| 0.0       | ORGANIC MATERIAL   |                                     |           |                   |    |    |     |             |                  |    | 0.0       |
|           | SILT<br>-dark brown<br>-smooth drilling  |                                     |           |                   |    |    |     |             |                  |    |           |
| 1.0       |  |                                     |           |                   |    |    |     |             |                  |    | 1.0       |
|           | SANDY GRAVEL<br>-brown<br>-frozen (Vx) with visible ice<br>-some silt<br>-maximum 50mm material augered up | <input checked="" type="checkbox"/> | 266       |                   |    |    |     |             |                  |    |           |
| 2.0       | -slow noisy jumpy drilling<br>-sample #266 not tested  |                                     |           |                   |    |    |     |             |                  |    | 2.0       |
| 3.0       | -sample #267 not tested  | <input checked="" type="checkbox"/> | 267       |                   |    |    |     |             |                  |    | 3.0       |
|           | -first refusal at 3.4m   |                                     |           |                   |    |    |     |             |                  |    |           |
| 4.0       | -sample #268 not tested  | <input checked="" type="checkbox"/> | 268       |                   |    |    |     |             |                  |    | 4.0       |
|           | END HOLE at 4.3m<br>-refusal   |                                     |           |                   |    |    |     |             |                  |    |           |
| 5.0       |  |                                     |           |                   |    |    |     |             |                  |    | 5.0       |
| 6.0       |  |                                     |           |                   |    |    |     |             |                  |    | 6.0       |

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| LOGGED BY: DT | COMPLETION DEPTH: 4.3 m |
| REVIEWED BY:  | COMPLETE: 94/09/07      |
| Fig. No:      | Page 1 of 1             |

| SUBSURFACE EXPLORATION AND TEST REPORT |                                   | SHAKWAK PROJECT                           |           | TEST HOLE NO: 330-234         |      |        |     |             |           |
|--|-----------------------------------|---|-----------|-------------------------------|------|--------|-----|-------------|-----------|
| ENGINEERING-CAPITAL                    |                                   | SEGMENT 16                                |           | Project No: 092-202101-0312   |      |        |     |             |           |
| DRILL: B40L 150mm SOLID STEM AUGER     |                                   | LOCATION: Sta. 1890+075 o/s 20m Lt.       |           | ELEVATION: 0.00 (m)           |      |        |     |             |           |
| SAMPLE TYPE                            |                                   | RETURN                                    |           | S.P.T.                        |      |        |     |             |           |
|  |                                   | <input checked="" type="checkbox"/> AUGER |           | <input type="checkbox"/> BULK |      |        |     |             |           |
|  |                                   | <input type="checkbox"/> TUBE             |           | <input type="checkbox"/> CORE |      |        |     |             |           |
| DEPTH (m)                              | SOIL DESCRIPTION                  | SAMPLE TYPE                               | SAMPLE NO | PERCENT FINES                 |      |        | USC | SOIL SYMBOL | DEPTH (m) |
|  |                                   |   |           | PLASTIC                       | M.C. | LIQUID |     |             |           |
| 0.0                                    | ORGANIC MATERIAL                  |   |           |                               |      |        |     |             | 0.0       |
|  | ORGANIC SILT                      |   |           |                               |      |        |     |             |           |
|  | -smooth drilling                  |   |           |                               |      |        |     |             |           |
| 1.0                                    | SANDY GRAVEL                      |   |           |                               |      |        |     |             | 1.0       |
|  | -brown                            |   |           |                               |      |        |     |             |           |
|  | -frozen (Vx) with visible ice     |   |           |                               |      |        |     |             |           |
|  | -some silt                        |   |           |                               |      |        |     |             |           |
|  | -maximum 50mm material augered up |   |           |                               |      |        |     |             |           |
|  | -slow noisy jumpy drilling        |   |           |                               |      |        |     |             |           |
|  | -sample #343 not tested           | <input checked="" type="checkbox"/>       | 343       |                               |      |        |     |             |           |
| 2.0                                    | -first and second refusal at 1.8m |   |           |                               |      |        |     |             | 2.0       |
| 3.0                                    | -sample #344 not tested           | <input checked="" type="checkbox"/>       | 344       |                               |      |        |     |             | 3.0       |
| 4.0                                    |                                   |   |           |                               |      |        |     |             | 4.0       |
| 5.0                                    | -sample #345 not tested           | <input checked="" type="checkbox"/>       | 345       |                               |      |        |     |             | 5.0       |
| 6.0                                    | END HOLE at 5.0m                  |   |           |                               |      |        |     |             | 6.0       |
|  | -refusal                          |   |           |                               |      |        |     |             |           |

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Transportation Engineering

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/09/10

|  |                                 |                             |
|--|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 246-113       |
| SHAKWAK PROJECT  | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1890+100 o/s Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                 |                             |

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO | ▲ PERCENT FINES ▲ |      |        | USC   | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-------------------|------|--------|-------|-------------|------------------|----|-----------|
|           |  |                                     |           | PLASTIC           | M.C. | LIQUID |       |             | 20               | 40 |           |
| 0.0       | WELL-GRADED GRAVEL WITH SILT (GW-GM)<br>-grindy drilling |                                     |           |                   |      |        |       |             |                  |    | 0.0       |
| 1.0       |  | <input checked="" type="checkbox"/> | 283       |                   |      |        | GW-GM | 40          |                  |    | 1.0       |
| 2.0       | -no fines augering up below 1.8m                         |                                     |           |                   |      |        |       |             |                  |    | 2.0       |
| 3.0       |  |                                     |           |                   |      |        |       |             |                  |    | 3.0       |
| 4.0       |  |                                     |           |                   |      |        |       |             |                  |    | 4.0       |
| 5.0       | END HOLE at 5.0m   |                                     |           |                   |      |        |       |             |                  |    | 5.0       |
| 6.0       |  |                                     |           |                   |      |        |       |             |                  |    | 6.0       |

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| LOGGED BY: TF | COMPLETION DEPTH: 5.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/20      |
| Fig. No:      | Page 1 of 1             |

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | SHAKWAK PROJECT                     | TEST PIT NO: 318-59         |
| ENGINEERING-CAPITAL  | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   | LOCATION: Sta. 1890+100 o/s 25m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION                      | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|---------------------------------------|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|-----------|
|           |                                       |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 |           |
| 0.0       | ORGANIC MATERIAL                      |             |           |                 |      |        |     |             |                |    | 0.0       |
| 1.0       | GRAVEL<br>-frozen<br>END HOLE at 1.1m |             |           |                 |      |        |     |             |                |    | 1.0       |
| 2.0       |                                       |             |           |                 |      |        |     |             |                |    | 2.0       |
| 3.0       |                                       |             |           |                 |      |        |     |             |                |    | 3.0       |
| 4.0       |                                       |             |           |                 |      |        |     |             |                |    | 4.0       |
| 5.0       |                                       |             |           |                 |      |        |     |             |                |    | 5.0       |
| 6.0       |                                       |             |           |                 |      |        |     |             |                |    | 6.0       |

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| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 1.1 m |
|   | REVIEWED BY:  | COMPLETE: 94/08/25      |
|   | Fig. No:      | Page 1 of 1             |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|---|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|----|-----------|
|           |   |             |           | 20              | 40 | 60 |     |             | 80             | 20 | 40 |           |
| 0.0       | ORGANIC MATERIAL  |             |           |                 |    |    |     |             |                |    |    | 0.0       |
|           | SILT  |             |           |                 |    |    |     |             |                |    |    |           |
| 1.0       | GRAVEL<br>-dark brown<br>-water at 0.9m<br>-maximum 50mm material<br>-sample #46 not tested<br>-frozen below 1.6m |             | 46        |                 |    |    |     |             |                |    |    | 1.0       |
| 2.0       | END HOLE at 1.7m  |             |           |                 |    |    |     |             |                |    |    | 2.0       |
| 3.0       |   |             |           |                 |    |    |     |             |                |    |    | 3.0       |
| 4.0       |   |             |           |                 |    |    |     |             |                |    |    | 4.0       |
| 5.0       |   |             |           |                 |    |    |     |             |                |    |    | 5.0       |
| 6.0       |   |             |           |                 |    |    |     |             |                |    |    | 6.0       |

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|   |                                     |                             |
|---|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  | SHAKWAK PROJECT                     | TEST HOLE NO: 323-214       |
| ENGINEERING-CAPITAL   | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER  | LOCATION: Sta. 1890+125 o/s 25m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|-----------|
|           |  |                                     |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 |           |
| 0.0       | ORGANIC MATERIAL<br>SILT<br>-dark brown<br>-moist<br>-smooth drilling  |                                     |           |                 |      |        |     |             |                |    | 0.0       |
| 2.0       | SANDY GRAVEL<br>-brown<br>-frozen (Vx) with visible ice<br>-some silt<br>-maximum 50mm material augered up<br>-slow noisy jumpy drilling | <input checked="" type="checkbox"/> | 261       |                 |      |        |     |             |                |    | 2.0       |
| 3.0       | -sample #261 not tested<br>-more ice below 2.6m<br>-sample #262 not tested   | <input checked="" type="checkbox"/> | 262       |                 |      |        |     |             |                |    | 3.0       |
| 5.0       | -less silt below 4.0m<br>-sample #263 not tested   | <input checked="" type="checkbox"/> | 263       |                 |      |        |     |             |                |    | 5.0       |
| 6.0       | -less gravel below 5.6m<br>-sample #264 not tested   | <input checked="" type="checkbox"/> | 264       |                 |      |        |     |             |                |    | 6.0       |
| 9.0       | -more silt below 8.4m<br>-sample #265 not tested   | <input checked="" type="checkbox"/> | 265       |                 |      |        |     |             |                |    | 9.0       |
| 9.1       | END HOLE at 9.1m   |                                     |           |                 |      |        |     |             |                |    | 9.1       |

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| Government of Yukon<br>Transportation Engineering | LOGGED BY: DT | COMPLETION DEPTH: 9.1 m |
|   | REVIEWED BY:  | COMPLETE: 94/09/07      |
|   | Fig. No:      | Page 1 of 1             |

|   |  |                                     |                             |
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| SUBSURFACE EXPLORATION AND TEST REPORT  |  | SHAKWAK PROJECT                     | TEST HOLE NO: 331-235       |
| ENGINEERING-CAPITAL   |  | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER  |  | LOCATION: Sta. 1890+150 o/s 16m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                                     |                             |

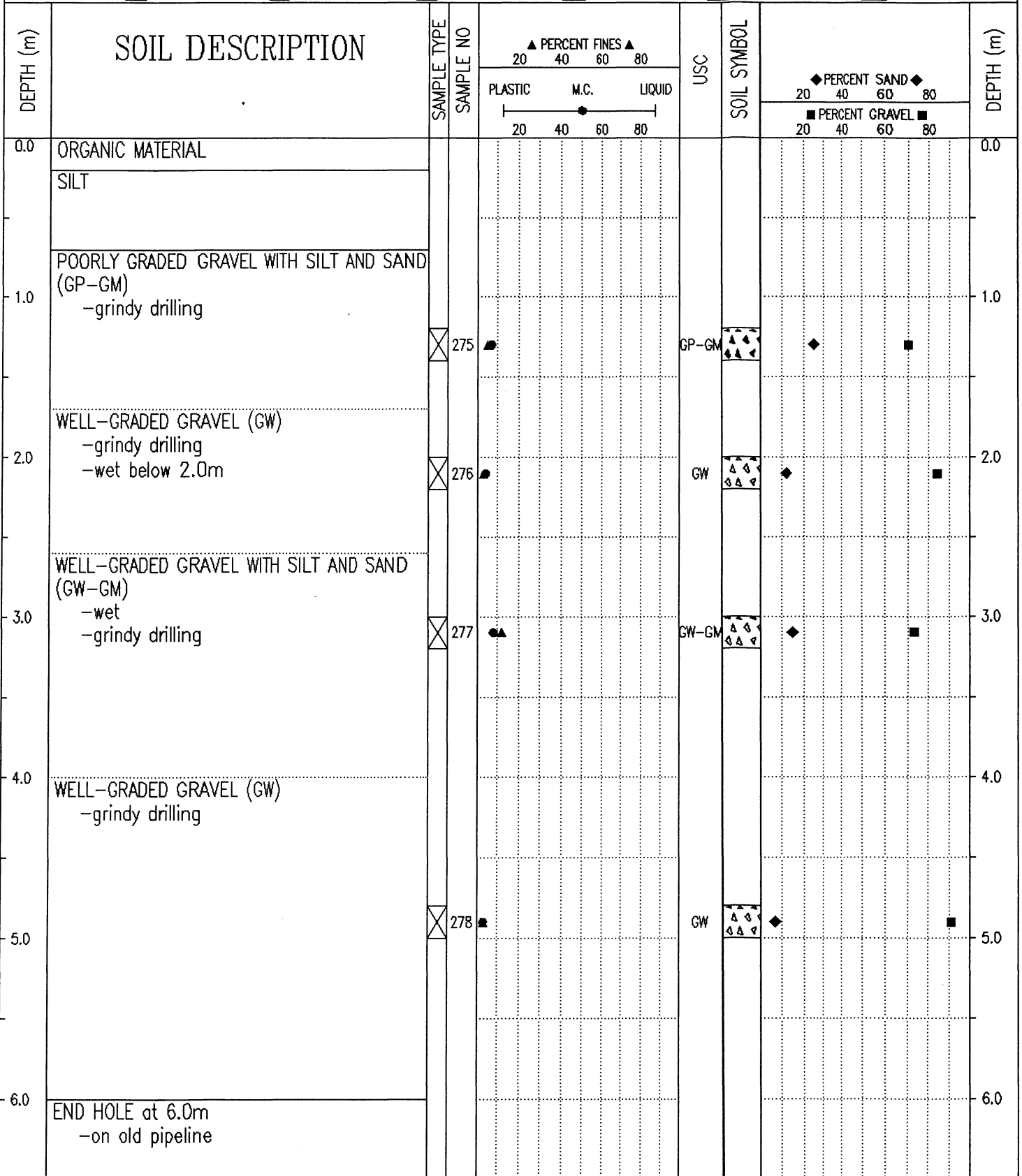
| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|-----------------|----|----|-----|-------------|----------------|----|----|-----------|
|           |   |                                     |           | 20              | 40 | 60 |     |             | 80             | 20 | 40 |           |
| 0.0       | ORGANIC MATERIAL  |                                     |           |                 |    |    |     |             |                |    |    | 0.0       |
|           | ORGANIC SILT<br>-smooth drilling  |                                     |           |                 |    |    |     |             |                |    |    |           |
| 1.0       | SANDY GRAVEL<br>-brown<br>-frozen (Vx) with visible ice<br>-some silt<br>-maximum 50mm material augered up<br>-slow noisy jumpy drilling<br>-sample #346 not tested | <input checked="" type="checkbox"/> | 346       |                 |    |    |     |             |                |    |    | 1.0       |
| 2.0       |   |                                     |           |                 |    |    |     |             |                |    |    | 2.0       |
| 3.0       | -first refusal at 2.7m<br>-sample #347 not tested   | <input checked="" type="checkbox"/> | 347       |                 |    |    |     |             |                |    |    | 3.0       |
| 4.0       | END HOLE at 3.3m<br>-refusal  |                                     |           |                 |    |    |     |             |                |    |    | 4.0       |
| 5.0       |   |                                     |           |                 |    |    |     |             |                |    |    | 5.0       |
| 6.0       |   |                                     |           |                 |    |    |     |             |                |    |    | 6.0       |

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LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.3 m  
COMPLETE: 94/09/10

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| SUBSURFACE EXPLORATION AND TEST REPORT  | ALASKA HIGHWAY PRE-ENGINEERING                   | TEST HOLE NO: 246-110       |
| SHAKWAK PROJECT   | SEGMENT 16                                       | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER   | LOCATION: See Plan 1890+160 % 114 R <sub>e</sub> | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                             |



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| LOGGED BY: TF | COMPLETION DEPTH: 6.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/20      |
| Fig. No:      | Page 1 of 1             |

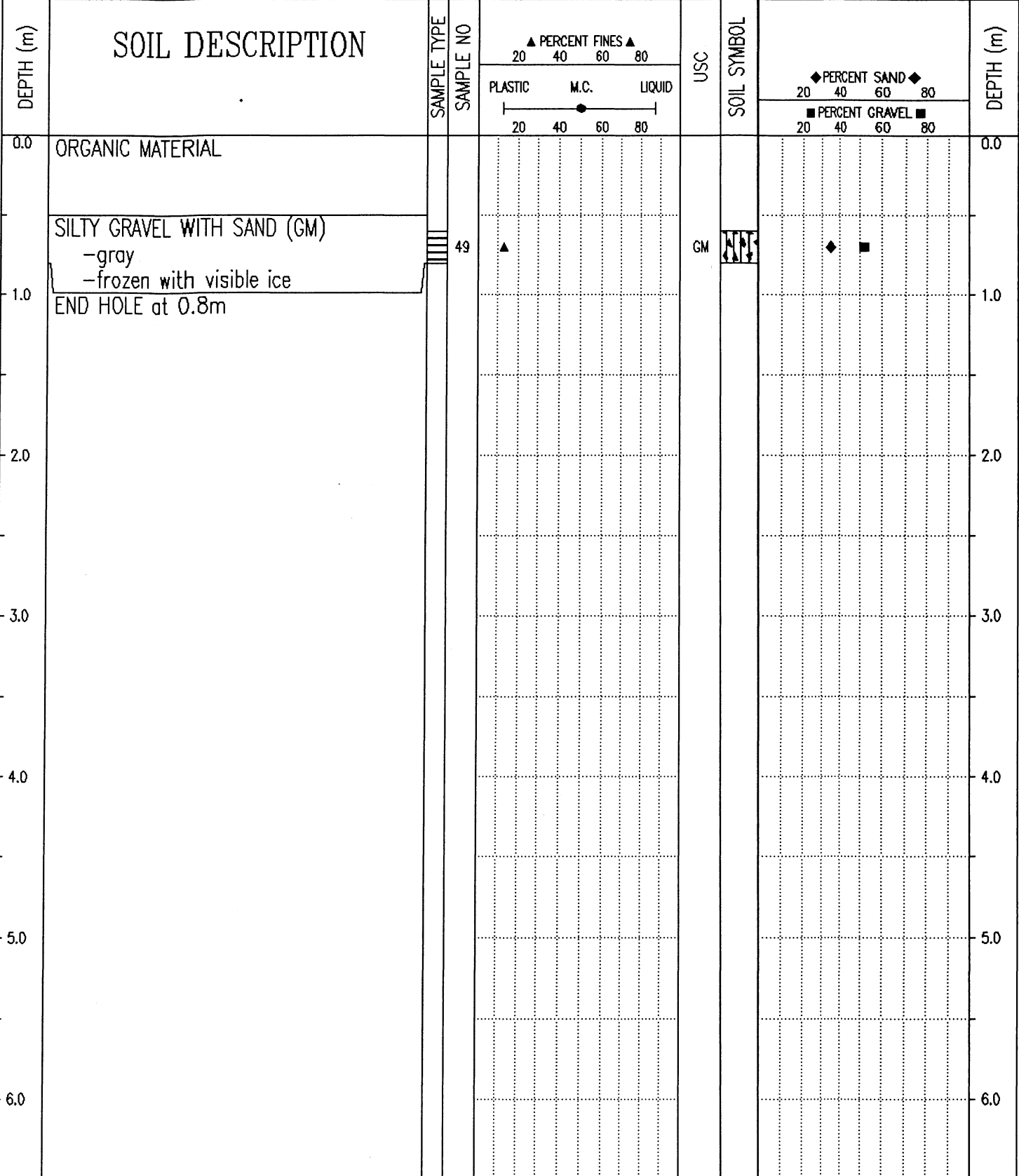
|  |  |   |                             |
|--|--|---|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   |  | SHAKWAK PROJECT   | TEST PIT NO: 318-55         |
| ENGINEERING-CAPITAL  |  | SEGMENT 16  | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   |  | LOCATION: Sta. 1890+175 o/s 25m Rt.   | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. |  | <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                             |

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|--------------------|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|----|-----------|
|           |                    |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 | 60 |           |
| 0.0       | ORGANIC SILT       |             |           |                 |      |        |     |             |                |    |    | 0.0       |
| 1.0       | GRAVEL             |             |           |                 |      |        |     |             |                |    |    | 1.0       |
|           | -frozen below 1.3m |             |           |                 |      |        |     |             |                |    |    |           |
|           | END HOLE at 1.4m   |             |           |                 |      |        |     |             |                |    |    |           |
| 2.0       |                    |             |           |                 |      |        |     |             |                |    |    | 2.0       |
| 3.0       |                    |             |           |                 |      |        |     |             |                |    |    | 3.0       |
| 4.0       |                    |             |           |                 |      |        |     |             |                |    |    | 4.0       |
| 5.0       |                    |             |           |                 |      |        |     |             |                |    |    | 5.0       |
| 6.0       |                    |             |           |                 |      |        |     |             |                |    |    | 6.0       |

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| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 1.4 m |
|   | REVIEWED BY:  | COMPLETE: 94/08/25      |
|   | Fig. No:      | Page 1 of 1             |

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| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST HOLE NO: 318-60        |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1890+175 o/s 40m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

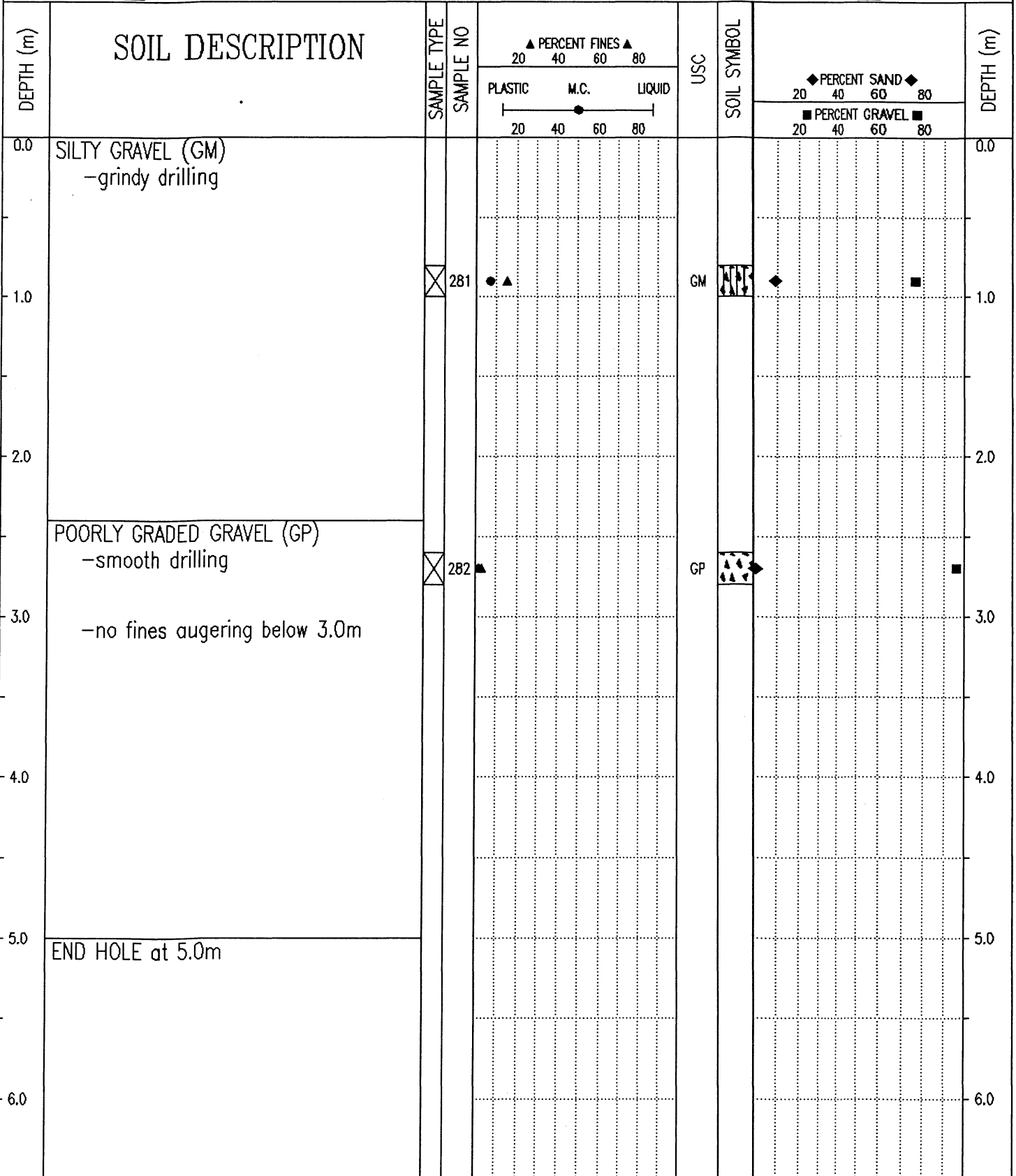


Government of Yukon  
Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 0.8 m  
COMPLETE: 94/08/25

|  |                                 |                             |
|--|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 246-112       |
| SHAKWAK PROJECT  | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1890+200 o/s Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                 |                             |

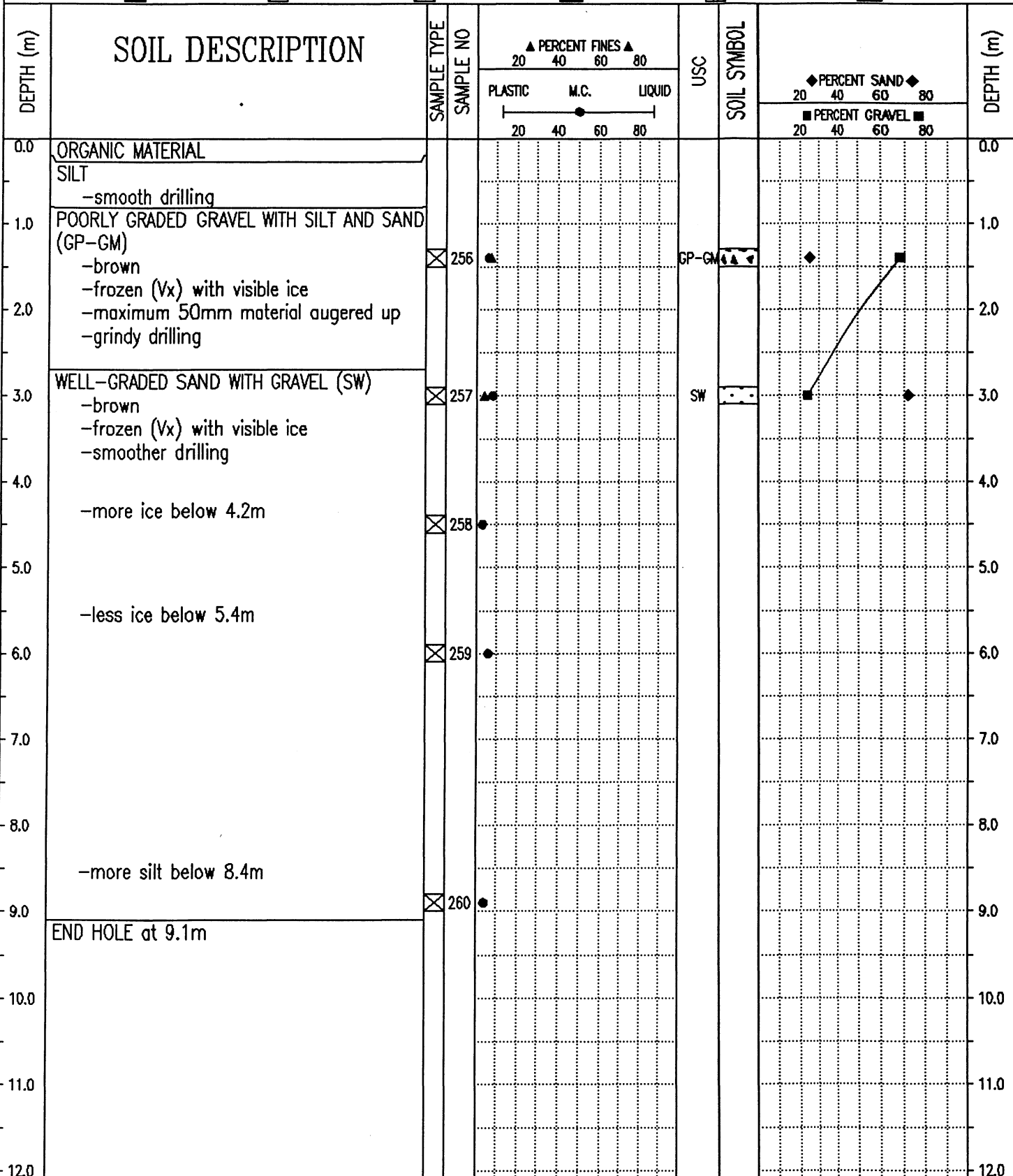


Government of Yukon  
Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 93/09/20

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| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                            | TEST PIT NO: 323-213                       |
| ENGINEERING-CAPITAL                    | SEGMENT 16                                 | Project No: 092-202101-0312                |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: Sta. 1890+200 o/s 25m Rt.        | ELEVATION: 0.00 (m)                        |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. |
|  | <input checked="" type="checkbox"/> AUGER  | <input type="checkbox"/> BULK              |
|  | <input type="checkbox"/> TUBE              | <input type="checkbox"/> CORE              |

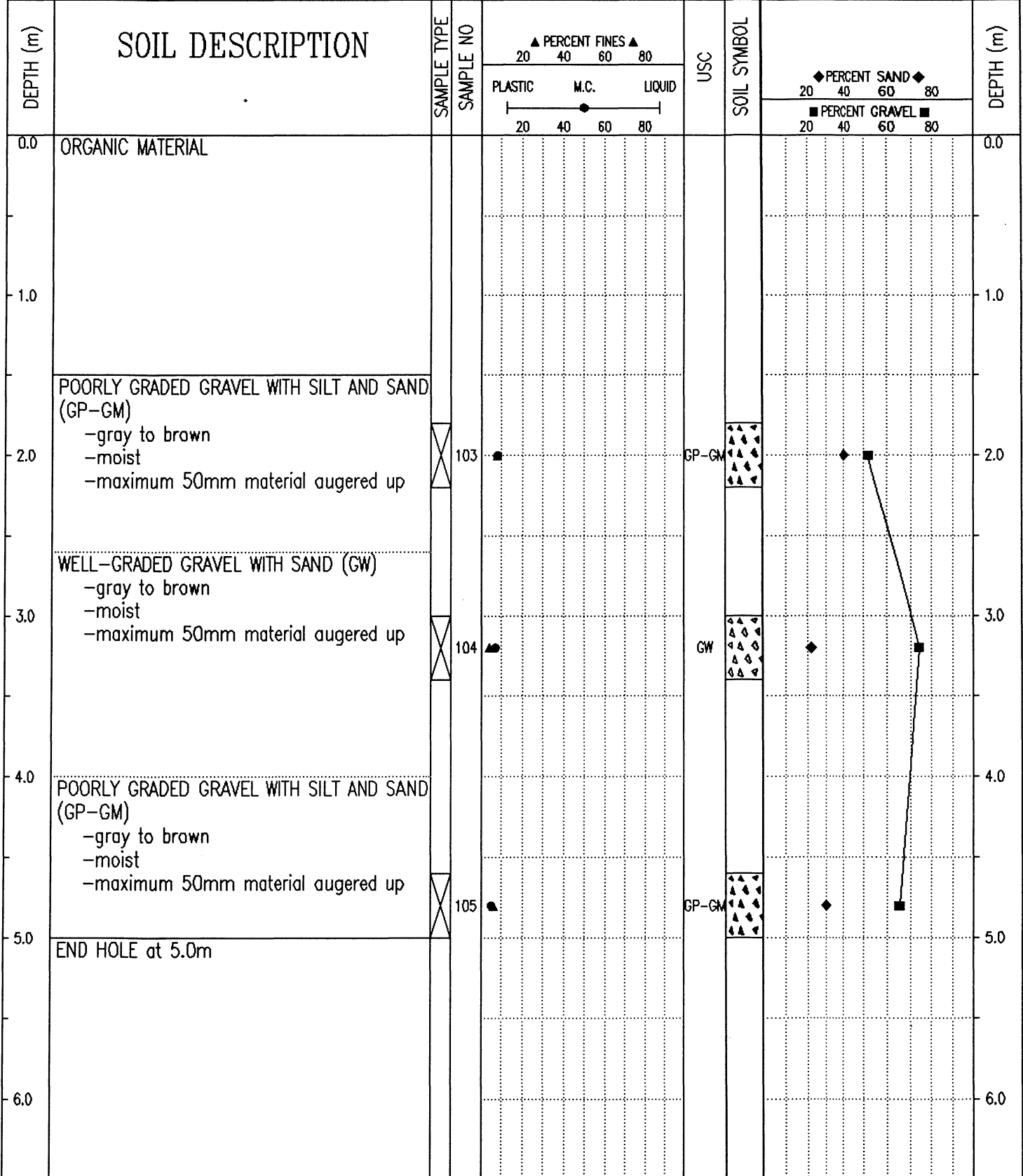


Government of Yukon  
Transportation Engineering

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| LOGGED BY: DT | COMPLETION DEPTH: 9.1 m |
| REVIEWED BY:  | COMPLETE: 94/09/07      |
| Fig. No:      | Page 1 of 1             |

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|--|---|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY RE-CONSTRUCTION                  | TEST PIT NO: 302-30         |
| SHAKWAK PROJECT                        | SEGMENT 16                                      | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan 1890+215% 75m R <sub>L</sub> | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



Government of Yukon  
Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/07/12  
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| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                            | TEST HOLE NO: 331-236                      |
| ENGINEERING-CAPITAL                    | SEGMENT 16                                 | Project No: 092-202101-0312                |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: Sta. 1890+225 o/s 17m Lt.        | ELEVATION: 0.00 (m)                        |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. |
|  | <input checked="" type="checkbox"/> AUGER  | <input type="checkbox"/> BULK              |
|  | <input type="checkbox"/> TUBE              | <input type="checkbox"/> CORE              |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES ▲ |      |        | USC   | SOIL SYMBOL | PERCENT SAND ◆   |   |     | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|-----------------|------|--------|-------|-------------|------------------|---|-----|-----------|
|           |   |                                     |           | PLASTIC         | M.C. | LIQUID |       |             | PERCENT GRAVEL ■ |   |     |           |
| 0.0       | ORGANIC MATERIAL  |                                     |           |                 |      |        |       |             |                  |   | 0.0 |           |
|           | ORGANIC SILT<br>-black<br>-smooth drilling  |                                     |           |                 |      |        |       |             |                  |   |     |           |
| 1.0       | WELL-GRADED GRAVEL WITH SAND (GW)<br>-brown<br>-frozen (Vx) with visible ice<br>-maximum 50mm material augered up<br>-slow noisy jumpy drilling | <input checked="" type="checkbox"/> | 348       |                 |      |        | GW    | ▲ ▲ ▲ ▲     | ◆                | ■ | 1.0 |           |
| 2.0       |   |                                     |           |                 |      |        |       |             |                  |   | 2.0 |           |
| 3.0       | POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM)<br>-brown<br>-frozen (Vx) with visible ice<br>-maximum 50mm material augered up                 | <input checked="" type="checkbox"/> | 349       |                 |      |        | GP-GM | ▲ ▲ ▲ ▲     | ◆                | ■ | 3.0 |           |
| 4.0       | END HOLE at 3.4m<br>-refusal twice<br>-rock dust on bit   |                                     |           |                 |      |        |       |             |                  |   | 4.0 |           |
| 5.0       |   |                                     |           |                 |      |        |       |             |                  |   | 5.0 |           |
| 6.0       |   |                                     |           |                 |      |        |       |             |                  |   | 6.0 |           |

Government of Yukon  
Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: DT | COMPLETION DEPTH: 3.4 m |
| REVIEWED BY:  | COMPLETE: 94/09/10      |
| Fig. No:      | Page 1 of 1             |

|  |  |                                     |                             |
|--|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   |  | SHAKWAK PROJECT                     | TEST PIT NO: 318-54         |
| ENGINEERING-CAPITAL  |  | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   |  | LOCATION: Sta. 1890+250 o/s 20m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION           | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|----------------------------|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|-----------|
|           |                            |             |           | 20              | 40 | 60 |     |             | 80             | 20 |                  |           |
| 0.0       | ORGANIC MATERIAL           |             |           |                 |    |    |     |             |                |    |                  | 0.0       |
| 0.0 - 1.0 | SILT<br>-frozen            |             |           |                 |    |    |     |             |                |    |                  | 1.0       |
| 1.0 - 1.4 | GRAVEL<br>END HOLE at 1.4m |             |           |                 |    |    |     |             |                |    |                  | 2.0       |
| 2.0       |                            |             |           |                 |    |    |     |             |                |    |                  | 2.0       |
| 3.0       |                            |             |           |                 |    |    |     |             |                |    |                  | 3.0       |
| 4.0       |                            |             |           |                 |    |    |     |             |                |    |                  | 4.0       |
| 5.0       |                            |             |           |                 |    |    |     |             |                |    |                  | 5.0       |
| 6.0       |                            |             |           |                 |    |    |     |             |                |    |                  | 6.0       |

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LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.4 m  
COMPLETE: 94/08/25

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | SHAKWAK PROJECT                     | TEST PIT NO: 318-61         |
| ENGINEERING-CAPITAL  | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   | LOCATION: Sta. 1890+250 o/s 25m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|--|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|----|-----------|
|           |  |             |           | 20              | 40 | 60 |     |             | 80             | 20 | 40 |           |
| 0.0       | ORGANIC MATERIAL   |             |           |                 |    |    |     |             |                |    |    | 0.0       |
| 1.0       | SILTY GRAVEL<br>-dark brown<br>-water below 0.8m<br>-maximum 75mm material<br>-frozen below 1.3m<br>END HOLE at 1.4m |             |           |                 |    |    |     |             |                |    |    | 1.0       |
| 2.0       |  |             |           |                 |    |    |     |             |                |    |    | 2.0       |
| 3.0       |  |             |           |                 |    |    |     |             |                |    |    | 3.0       |
| 4.0       |  |             |           |                 |    |    |     |             |                |    |    | 4.0       |
| 5.0       |  |             |           |                 |    |    |     |             |                |    |    | 5.0       |
| 6.0       |  |             |           |                 |    |    |     |             |                |    |    | 6.0       |

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Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.4 m  
COMPLETE: 94/08/25

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING      | TEST HOLE NO: 246-108       |
| SHAKWAK PROJECT  | SEGMENT 16                          | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: See Plan 1890+254 % 80 Rt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION                                    | SAMPLE TYPE | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND |    | PERCENT GRAVEL |      | DEPTH (m) |
|-----------|---|-------------|-----------|---------------|------|--------|-----|-------------|--------------|----|----------------|------|-----------|
|           |   |             |           | PLASTIC       | M.C. | LIQUID |     |             | 20           | 40 | 60             | 80   |           |
| 0.0       | GRAVEL<br>-grindy drilling<br>-no fines augering up |             |           |               |      |        |     |             |              |    |                | 0.0  |           |
| 1.0       |   |             |           |               |      |        |     |             |              |    |                | 1.0  |           |
| 2.0       |   |             |           |               |      |        |     |             |              |    |                | 2.0  |           |
| 3.0       |   |             |           |               |      |        |     |             |              |    |                | 3.0  |           |
| 4.0       |   |             |           |               |      |        |     |             |              |    |                | 4.0  |           |
| 5.0       |   |             |           |               |      |        |     |             |              |    |                | 5.0  |           |
| 6.0       |   |             |           |               |      |        |     |             |              |    |                | 6.0  |           |
| 7.0       | END HOLE at 7.0m<br>-in old pit                     |             |           |               |      |        |     |             |              |    |                | 7.0  |           |
| 8.0       |   |             |           |               |      |        |     |             |              |    |                | 8.0  |           |
| 9.0       |   |             |           |               |      |        |     |             |              |    |                | 9.0  |           |
| 10.0      |   |             |           |               |      |        |     |             |              |    |                | 10.0 |           |

|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 7.0 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/20      |
|   | Fig. No:      | Page 1 of 1             |

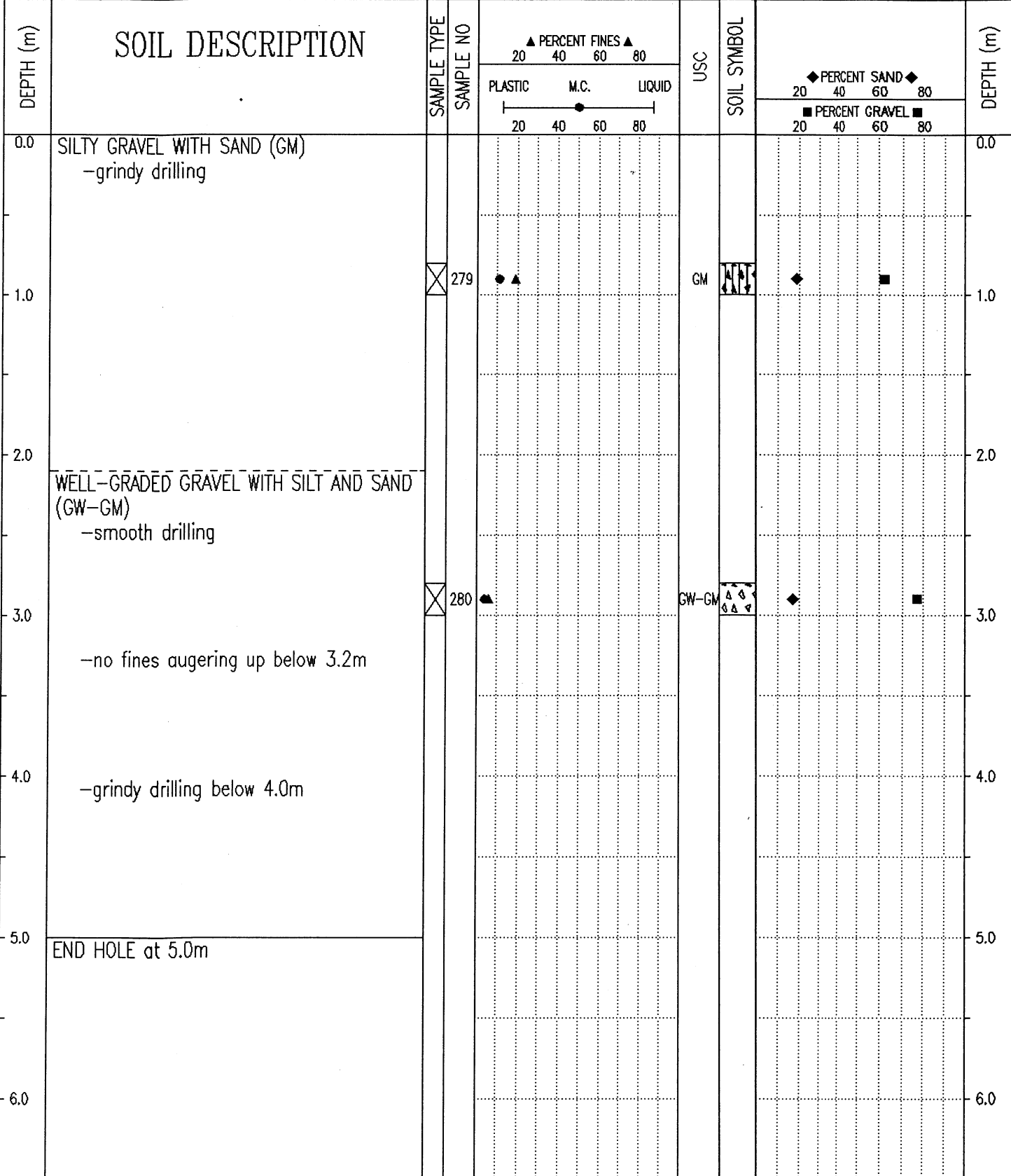
|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | SHAKWAK PROJECT                     | TEST HOLE NO: 323-212       |
| ENGINEERING-CAPITAL  | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER   | LOCATION: Sta. 1890+275 o/s 20m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |

| DEPTH (m)  | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND |    | PERCENT GRAVEL |      | DEPTH (m) |
|------------|---|-------------------------------------|-----------|---------------|------|--------|-----|-------------|--------------|----|----------------|------|-----------|
|            |   |                                     |           | PLASTIC       | M.C. | LIQUID |     |             | 20           | 40 | 60             | 80   |           |
| 0.0        | ORGANIC MATERIAL  |                                     |           |               |      |        |     |             |              |    |                | 0.0  |           |
| 0.0 - 1.0  | SILT<br>-brown<br>-moist<br>-smooth drilling  |                                     |           |               |      |        |     |             |              |    |                | 1.0  |           |
| 1.0 - 2.0  | SANDY GRAVEL<br>-brown<br>-moist<br>-some silt<br>-maximum 50mm material augered up<br>-grindy drilling | <input checked="" type="checkbox"/> | 250       |               |      |        |     |             |              |    |                | 2.0  |           |
| 2.0 - 3.0  | -sample #250 not tested<br>-frozen (Vx) with visible ice below 2.7m                                     | <input checked="" type="checkbox"/> | 251       |               |      |        |     |             |              |    |                | 3.0  |           |
| 3.0 - 4.0  | -slow noisy jumpy drilling below 2.7m<br>-sample #251 not tested  |                                     |           |               |      |        |     |             |              |    |                | 4.0  |           |
| 4.0 - 5.0  | -sample #252 not tested   | <input checked="" type="checkbox"/> | 252       |               |      |        |     |             |              |    |                | 5.0  |           |
| 5.0 - 6.0  | -sample #253 not tested   | <input checked="" type="checkbox"/> | 253       |               |      |        |     |             |              |    |                | 6.0  |           |
| 6.0 - 7.0  | -finer gravel below 6.4m<br>-smoother grindy drilling below 6.4m  |                                     |           |               |      |        |     |             |              |    |                | 7.0  |           |
| 7.0 - 8.0  |   |                                     |           |               |      |        |     |             |              |    |                | 8.0  |           |
| 8.0 - 9.0  | -sample #254 not tested   | <input checked="" type="checkbox"/> | 254       |               |      |        |     |             |              |    |                | 9.0  |           |
| 9.0 - 10.0 | END HOLE at 9.1m  |                                     |           |               |      |        |     |             |              |    |                | 10.0 |           |

|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DT | COMPLETION DEPTH: 9.1 m |
|   | REVIEWED BY:  | COMPLETE: 94/09/07      |
|   | Fig. No:      | Page 1 of 1             |

|   |                                 |                             |
|---|---------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING  | TEST HOLE NO: 246-111       |
| SHAKWAK PROJECT                           | SEGMENT 16                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1890+300 o/s Rt. | ELEVATION: 0.00 (m)         |

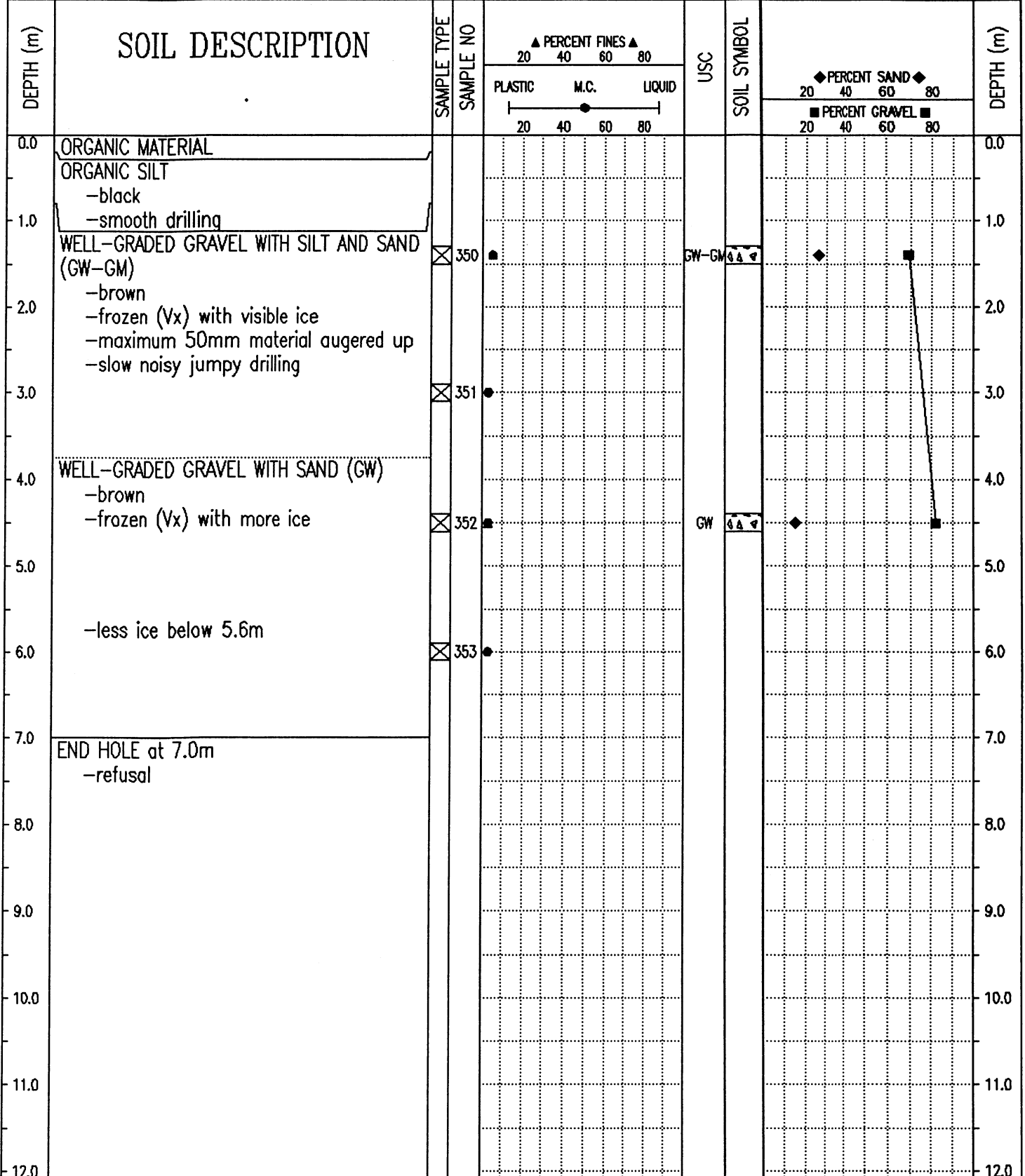
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 5.0 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/20      |
|   | Fig. No:      | Page 1 of 1             |

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST PIT NO: 331-237        |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: Sta. 1890+300 o/s 16m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



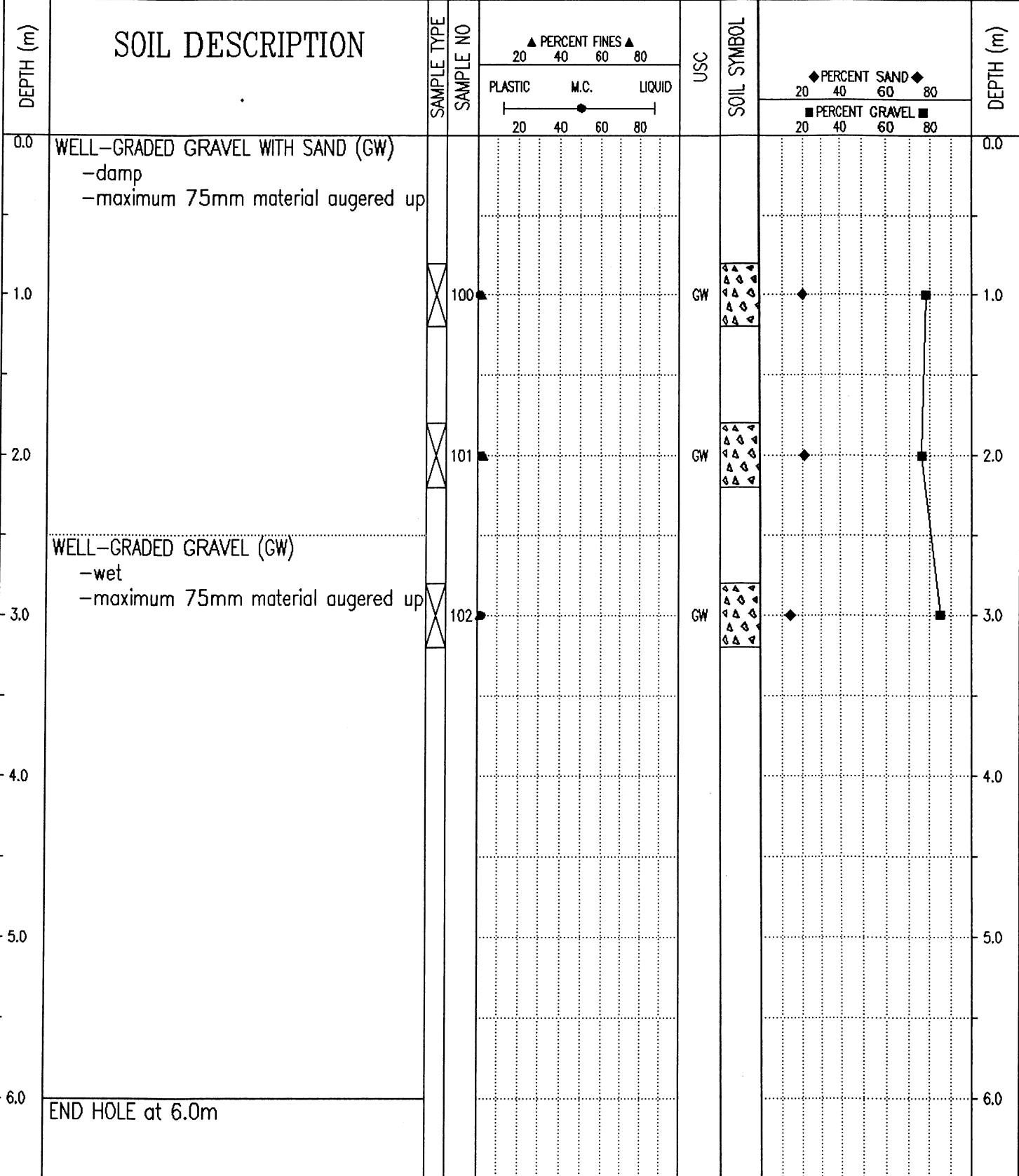
Government of Yukon  
Transportation Engineering

LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 7.0 m  
COMPLETE: 94/09/10

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY RE-CONSTRUCTION      | TEST PIT NO: 302-29         |
| SHAKWAK PROJECT                        | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan 1890+300% 85m Rt | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



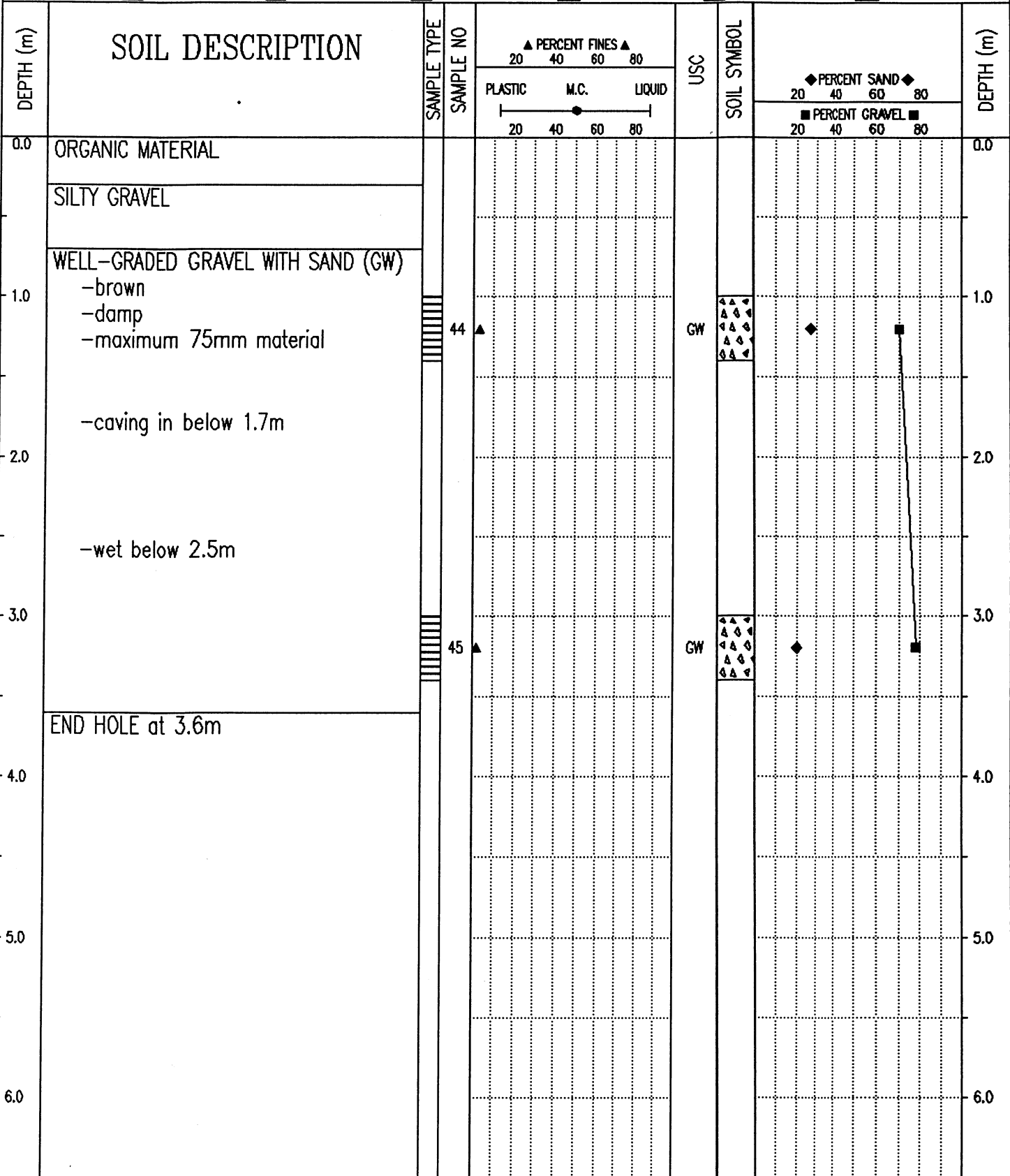
Government of Yukon  
Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: DA | COMPLETION DEPTH: 6.0 m |
| REVIEWED BY:  | COMPLETE: 94/07/12      |
| Fig. No:      | Page 1 of 1             |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|---|-------------|-----------|-------------------|----|----|-----|-------------|------------------|----|----|-----------|
|           |   |             |           | 20                | 40 | 60 |     |             | 80               | 20 | 40 |           |
| 0.0       | ORGANIC MATERIAL  |             |           |                   |    |    |     |             |                  |    |    | 0.0       |
|           | ORGANIC SILT<br>-smooth drilling  |             |           |                   |    |    |     |             |                  |    |    |           |
| 1.0       | SANDY GRAVEL<br>-brown<br>-moist<br>-some silt<br>-maximum 50mm material augered up<br>-grindy drilling<br>-sample #355 spilled |             | 355 ●     |                   |    |    |     |             |                  |    |    | 1.0       |
| 2.0       | -frozen (Vx) with visible ice below 2.1m<br>-slow noisy jumpy drilling below 2.1m   |             |           |                   |    |    |     |             |                  |    |    | 2.0       |
| 3.0       | END HOLE at 3.0m<br>-refusal  |             |           |                   |    |    |     |             |                  |    |    | 3.0       |
| 4.0       |   |             |           |                   |    |    |     |             |                  |    |    | 4.0       |
| 5.0       |   |             |           |                   |    |    |     |             |                  |    |    | 5.0       |
| 6.0       |   |             |           |                   |    |    |     |             |                  |    |    | 6.0       |

|   |  |   |
|---|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT      | SHAKWAK PROJECT                            | TEST PIT NO: 318-53                       |
| ENGINEERING-CAPITAL                         | SEGMENT 16                                 | Project No: 092-202101-0312               |
| BACKHOE: CAT 225                            | LOCATION: Sta. 1890+325 o/s 20m Rt.        | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE <input type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|   | <input type="checkbox"/> BULK              | <input type="checkbox"/> TUBE             |
|   |  | <input type="checkbox"/> CORE             |



Government of Yukon  
Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.6 m  
COMPLETE: 94/08/25  
Page 1 of 1

|   |                            |  |           |   |      |                         |             |                  |    |           |    |     |
|---|----------------------------|--|-----------|---|------|-------------------------|-------------|------------------|----|-----------|----|-----|
| SUBSURFACE EXPLORATION AND TEST REPORT            |                            | SHAKWAK PROJECT                            |           | TEST PIT NO: 318-62                       |      |                         |             |                  |    |           |    |     |
| ENGINEERING-CAPITAL                               |                            | SEGMENT 16                                 |           | Project No: 092-202101-0312               |      |                         |             |                  |    |           |    |     |
| BACKHOE: CAT 225                                  |                            | LOCATION: Sta. 1890+325 o/s 30m Lt.        |           | ELEVATION: 0.00 (m)                       |      |                         |             |                  |    |           |    |     |
| SAMPLE TYPE <input type="checkbox"/> RETURN       |                            | <input checked="" type="checkbox"/> S.P.T. |           | <input checked="" type="checkbox"/> AUGER |      |                         |             |                  |    |           |    |     |
|   |                            | <input type="checkbox"/> BULK              |           | <input type="checkbox"/> TUBE             |      |                         |             |                  |    |           |    |     |
|   |                            |  |           | <input type="checkbox"/> CORE             |      |                         |             |                  |    |           |    |     |
| DEPTH (m)   | SOIL DESCRIPTION           | SAMPLE TYPE                                | SAMPLE NO | ▲ PERCENT FINES ▲                         |      | USC                     | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | DEPTH (m) |    |     |
|   |                            |  |           | PLASTIC                                   | M.C. |                         |             | LIQUID           | 20 |           | 40 | 60  |
| 0.0   | ORGANIC MATERIAL           |  |           | 20  | 40   | 60                      | 80          | 20               | 40 | 60        | 80 | 0.0 |
|   | SILT<br>-frozen below 0.6m |  |           |   |      |                         |             |                  |    |           |    |     |
| 1.0   | GRAVEL                     |  |           |   |      |                         |             |                  |    |           |    | 1.0 |
|   | END HOLE at 1.2m           |  |           |   |      |                         |             |                  |    |           |    |     |
| 2.0   |                            |  |           |   |      |                         |             |                  |    |           |    | 2.0 |
| 3.0   |                            |  |           |   |      |                         |             |                  |    |           |    | 3.0 |
| 4.0   |                            |  |           |   |      |                         |             |                  |    |           |    | 4.0 |
| 5.0   |                            |  |           |   |      |                         |             |                  |    |           |    | 5.0 |
| 6.0   |                            |  |           |   |      |                         |             |                  |    |           |    | 6.0 |
| Government of Yukon<br>Transportation Engineering |                            |  |           | LOGGED BY: DA                             |      | COMPLETION DEPTH: 1.2 m |             |                  |    |           |    |     |
|   |                            |  |           | REVIEWED BY:                              |      | COMPLETE: 94/08/25      |             |                  |    |           |    |     |
|   |                            |  |           | Fig. No:                                  |      | Page 1 of 1             |             |                  |    |           |    |     |

|  |                                      |                             |
|--|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                      | TEST HOLE NO: 317-24        |
| ENGINEERING-CAPITAL                    | SEGMENT 16                           | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1890+325 o/s 125m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |     | DEPTH (m) |
|-----------|---|-------------|-----------|-------------------|------|--------|-----|-------------|------------------|-----|-----------|
|           |   |             |           | PLASTIC           | M.C. | LIQUID |     |             | 20               | 40  |           |
| 0.0       | ORGANIC MATERIAL  |             |           |                   |      |        |     |             |                  | 0.0 |           |
| 0.0 - 1.0 | ORGANIC SILT<br>-dark brown<br>-frozen below 0.8m               |             |           |                   |      |        |     |             |                  | 1.0 |           |
| 1.0 - 2.0 | SILTY GRAVEL<br>-dark gray<br>-frozen<br>-sample #26 not tested |             | 26        |                   |      |        |     |             |                  | 2.0 |           |
| 2.0       | END HOLE at 1.7m  |             |           |                   |      |        |     |             |                  | 2.0 |           |
| 3.0       |   |             |           |                   |      |        |     |             |                  | 3.0 |           |
| 4.0       |   |             |           |                   |      |        |     |             |                  | 4.0 |           |
| 5.0       |   |             |           |                   |      |        |     |             |                  | 5.0 |           |
| 6.0       |   |             |           |                   |      |        |     |             |                  | 6.0 |           |

Government of Yukon  
Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: DA | COMPLETION DEPTH: 1.7 m |
| REVIEWED BY:  | COMPLETE: 94/08/19      |
| Fig. No:      | Page 1 of 1             |

|  |  |  |  |   |  |
|--|--|--|--|---|--|
| SUBSURFACE EXPLORATION AND TEST REPORT                 |  | SHAKWAK PROJECT                            |  | TEST HOLE NO: 331-238                     |  |
| ENGINEERING-CAPITAL                                    |  | SEGMENT 16                                 |  | Project No: 092-202101-0312               |  |
| DRILL: B40L 150mm SOLID STEM AUGER                     |  | LOCATION: Sta. 1890+325 o/s 125m Lt.       |  | ELEVATION: 0.00 (m)                       |  |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN |  | <input checked="" type="checkbox"/> S.P.T. |  | <input checked="" type="checkbox"/> AUGER |  |
|  |  | <input type="checkbox"/> BULK              |  | <input type="checkbox"/> TUBE             |  |
|  |  |  |  | <input type="checkbox"/> CORE             |  |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|-----------------|----|----|-----|-------------|----------------|----|----|-----------|
|           |   |                                     |           | 20              | 40 | 60 |     |             | 80             | 20 | 40 |           |
| 0.0       | ORGANIC MATERIAL  |                                     |           |                 |    |    |     |             |                |    |    | 0.0       |
|           | ORGANIC SILT<br>-smooth drilling  |                                     |           |                 |    |    |     |             |                |    |    |           |
| 1.0       | SILTY GRAVEL WITH SAND (GM)<br>-brown<br>-frozen (Vx) with visible ice<br>-maximum 50mm material augered up<br>-slow noisy jumpy drilling | <input checked="" type="checkbox"/> | 354       | ■               |    |    | GM  | ◆           | ■              |    |    | 1.0       |
| 2.0       |   |                                     |           |                 |    |    |     |             |                |    |    | 2.0       |
| 3.0       | END HOLE at 2.7m<br>-refusal twice<br>-rock dust on bit   |                                     |           |                 |    |    |     |             |                |    |    | 3.0       |
| 4.0       |   |                                     |           |                 |    |    |     |             |                |    |    | 4.0       |
| 5.0       |   |                                     |           |                 |    |    |     |             |                |    |    | 5.0       |
| 6.0       |   |                                     |           |                 |    |    |     |             |                |    |    | 6.0       |

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| Government of Yukon<br>Transportation Engineering | LOGGED BY: DT | COMPLETION DEPTH: 2.7 m |
|   | REVIEWED BY:  | COMPLETE: 94/09/10      |
|   | Fig. No:      | Page 1 of 1             |

|  |                                      |                             |
|--|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | SHAKWAK PROJECT                      | TEST PIT NO: 317-25         |
| ENGINEERING-CAPITAL  | SEGMENT 16                           | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   | LOCATION: Sta. 1890+325 o/s 275m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                      |                             |

| DEPTH (m) | SOIL DESCRIPTION                       | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|--|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|----|-----------|
|           |  |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 | 60 |           |
| 0.0       | ORGANIC MATERIAL                       |             |           |                 |      |        |     |             |                |    |    | 0.0       |
| 0.0 - 1.0 | ORGANIC SILT<br>-dark brown<br>-frozen |             |           |                 |      |        |     |             |                |    |    | 1.0       |
| 1.0 - 1.2 | END HOLE at 1.2m                       |             |           |                 |      |        |     |             |                |    |    | 1.2       |
| 2.0       |  |             |           |                 |      |        |     |             |                |    |    | 2.0       |
| 3.0       |  |             |           |                 |      |        |     |             |                |    |    | 3.0       |
| 4.0       |  |             |           |                 |      |        |     |             |                |    |    | 4.0       |
| 5.0       |  |             |           |                 |      |        |     |             |                |    |    | 5.0       |
| 6.0       |  |             |           |                 |      |        |     |             |                |    |    | 6.0       |

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LOGGED BY: DA

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 1.2 m

COMPLETE: 94/08/19

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|  |   |                             |
|--|---|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING                  | TEST HOLE NO: 246-107       |
| SHAKWAK PROJECT  | SEGMENT 16                                      | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: See Plan 1890+344 % 60 R <sub>L</sub> | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |   |                             |

| DEPTH (m) | SOIL DESCRIPTION                                    | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | DEPTH (m) |     |
|-----------|---|-------------|-----------|-------------------|------|--------|-----|-------------|------------------|----|-----------|-----|
|           |   |             |           | PLASTIC           | M.C. | LIQUID |     |             | 20               | 40 |           | 60  |
| 0.0       | GRAVEL<br>-grindy drilling<br>-no fines augering up |             |           |                   |      |        |     |             |                  |    |           | 0.0 |
| 1.0       |   |             |           |                   |      |        |     |             |                  |    |           | 1.0 |
| 2.0       |   |             |           |                   |      |        |     |             |                  |    |           | 2.0 |
| 3.0       |   |             |           |                   |      |        |     |             |                  |    |           | 3.0 |
| 4.0       |   |             |           |                   |      |        |     |             |                  |    |           | 4.0 |
| 5.0       |   |             |           |                   |      |        |     |             |                  |    |           | 5.0 |
| 6.0       | END HOLE at 6.0m<br>-in old pit                     |             |           |                   |      |        |     |             |                  |    |           | 6.0 |

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|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 6.0 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/20      |
|   | Fig. No:      | Page 1 of 1             |

SAMPLE TYPE  RETURN     S.P.T.     AUGER     BULK     TUBE     CORE

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND / GRAVEL |                |  | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|---------------|------|--------|-----|-------------|-----------------------|----------------|--|-----------|
|           |   |                                     |           | PLASTIC       | M.C. | LIQUID |     |             | PERCENT SAND          | PERCENT GRAVEL |  |           |
| 0.0       | ORGANIC MATERIAL<br>SILT<br>-dark brown<br>-moist<br>-smooth drilling                                   |                                     |           |               |      |        |     |             |                       |                |  | 0.0       |
| 1.0       | SANDY GRAVEL<br>-brown<br>-moist<br>-some silt<br>-maximum 50mm material augered up<br>-grindy drilling | <input checked="" type="checkbox"/> | 245       |               |      |        |     |             |                       |                |  | 1.0       |
| 2.0       | -sample #245 not tested<br>-sample #246 not tested  | <input checked="" type="checkbox"/> | 246       |               |      |        |     |             |                       |                |  | 2.0       |
| 3.0       | -frozen (Vx) with visible ice below 3.4m<br>-very slow noisy jumpy drilling below 3.4m                  | <input checked="" type="checkbox"/> | 247       |               |      |        |     |             |                       |                |  | 3.0       |
| 4.0       | -sample #247 not tested   | <input checked="" type="checkbox"/> | 247       |               |      |        |     |             |                       |                |  | 4.0       |
| 5.0       |   |                                     |           |               |      |        |     |             |                       |                |  | 5.0       |
| 6.0       | -sample #248 not tested   | <input checked="" type="checkbox"/> | 248       |               |      |        |     |             |                       |                |  | 6.0       |
| 7.0       |   |                                     |           |               |      |        |     |             |                       |                |  | 7.0       |
| 8.0       | GRAVELLY SAND<br>-frozen (Vx) with visible ice<br>-trace of silt<br>-smooth grindy drilling             |                                     |           |               |      |        |     |             |                       |                |  | 8.0       |
| 9.0       | -sample #249 not tested   | <input checked="" type="checkbox"/> | 249       |               |      |        |     |             |                       |                |  | 9.0       |
| 10.0      | END HOLE at 9.1m  |                                     |           |               |      |        |     |             |                       |                |  | 10.0      |

Government of Yukon  
Transportation Engineering

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| LOGGED BY: DT | COMPLETION DEPTH: 9.1 m |
| REVIEWED BY:  | COMPLETE: 94/09/07      |
| Fig. No:      | Page 1 of 1             |

|  |   |                                      |           |                                    |  |     |             |                                   |  |           |
|--|---|--------------------------------------|-----------|------------------------------------|--|-----|-------------|-----------------------------------|--|-----------|
| SUBSURFACE EXPLORATION AND TEST REPORT   |   | ALASKA HIGHWAY PRE-ENGINEERING       |           | TEST HOLE NO: 246-109              |  |     |             |                                   |  |           |
| SHAKWAK PROJECT  |   | SEGMENT 16                           |           | Project No: 202101-0312-193        |  |     |             |                                   |  |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  |   | LOCATION: See Plan 1890+352 % 102 Rt |           | ELEVATION: 0.00 (m)                |  |     |             |                                   |  |           |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |   |                                      |           |                                    |  |     |             |                                   |  |           |
| DEPTH (m)  | SOIL DESCRIPTION                                    | SAMPLE TYPE                          | SAMPLE NO | ▲ PERCENT FINES ▲<br>20 40 60 80   |  | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆<br>20 40 60 80   |  | DEPTH (m) |
|  |   |                                      |           | PLASTIC M.C. LIQUID<br>20 40 60 80 |  |     |             | ■ PERCENT GRAVEL ■<br>20 40 60 80 |  |           |
| 0.0  | GRAVEL<br>-grindy drilling<br>-no fines augering up |                                      |           |                                    |  |     |             |                                   |  | 0.0       |
| 1.0  |   |                                      |           |                                    |  |     |             |                                   |  | 1.0       |
| 2.0  |   |                                      |           |                                    |  |     |             |                                   |  | 2.0       |
| 3.0  |   |                                      |           |                                    |  |     |             |                                   |  | 3.0       |
| 4.0  | END HOLE at 4.0m<br>-refusal<br>-on old pipeline    |                                      |           |                                    |  |     |             |                                   |  | 4.0       |
| 5.0  |   |                                      |           |                                    |  |     |             |                                   |  | 5.0       |
| 6.0  |   |                                      |           |                                    |  |     |             |                                   |  | 6.0       |

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Transportation Engineering

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| LOGGED BY: TF | COMPLETION DEPTH: 4.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/20      |
| Fig. No:      | Page 1 of 1             |

|  |                                      |                             |
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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING       | TEST HOLE NO: 246-104       |
| SHAKWAK PROJECT  | SEGMENT 16                           | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: See Plan 1890+360 % 190 Rt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                      |                             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|---|-------------|-----------|-------------------|------|--------|-----|-------------|------------------|----|-----------|
|           |   |             |           | PLASTIC           | M.C. | LIQUID |     |             | 20               | 40 |           |
| 0.0       | ORGANIC MATERIAL<br>SILTY GRAVEL<br>-grindy drilling<br>-no fines augering up |             |           |                   |      |        |     |             |                  |    | 0.0       |
| 2.0       | GRAVEL<br>-no fines augering up   |             |           |                   |      |        |     |             |                  |    | 2.0       |
| 4.0       | -boulders at 3.8m<br>END HOLE at 4.0m<br>-refusal                             |             |           |                   |      |        |     |             |                  |    | 4.0       |
| 5.0       |   |             |           |                   |      |        |     |             |                  |    | 5.0       |
| 6.0       |   |             |           |                   |      |        |     |             |                  |    | 6.0       |

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|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 4.0 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/17      |
|   | Fig. No:      | Page 1 of 1             |

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|--|--|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT |  | SHAKWAK PROJECT                            | TEST HOLE NO: 331-240                     |
| ENGINEERING-CAPITAL                    |  | SEGMENT 16                                 | Project No: 092-202101-0312               |
| DRILL: B40L 150mm SOLID STEM AUGER     |  | LOCATION: Sta. 1890+375 o/s 20m Lt.        | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|  |  |  | <input type="checkbox"/> BULK             |
|  |  |  | <input type="checkbox"/> TUBE             |
|  |  |  | <input type="checkbox"/> CORE             |

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES ▲ |      |        | USC   | SOIL SYMBOL | PERCENT SAND ◆ |      | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-----------------|------|--------|-------|-------------|----------------|------|-----------|
|           |  |                                     |           | PLASTIC         | M.C. | LIQUID |       |             | 20             | 40   |           |
| 0.0       | ORGANIC MATERIAL   |                                     |           |                 |      |        |       |             |                | 0.0  |           |
|           | ORGANIC SILT<br>-smooth drilling   |                                     |           |                 |      |        |       |             |                |      |           |
| 1.0       | SANDY GRAVEL<br>-brown<br>-frozen (Vx) with visible ice<br>-some silt<br>-maximum 50mm material augered up<br>-slow noisy jumpy drilling<br>-sample #356 spilled | <input checked="" type="checkbox"/> | 356       |                 |      |        |       |             |                | 1.0  |           |
| 2.0       |  |                                     |           |                 |      |        |       |             |                | 2.0  |           |
| 3.0       | -more ice below 2.8m<br>-sample #357 not tested  | <input checked="" type="checkbox"/> | 357       |                 |      |        |       |             |                | 3.0  |           |
| 4.0       |  |                                     |           |                 |      |        |       |             |                | 4.0  |           |
| 5.0       | -sample #358 not tested  | <input checked="" type="checkbox"/> | 358       |                 |      |        |       |             |                | 5.0  |           |
| 6.0       | -sample #359 not tested  | <input checked="" type="checkbox"/> | 359       |                 |      |        |       |             |                | 6.0  |           |
| 7.0       | WELL-GRADED GRAVEL WITH SILT AND SAND (GW-GM)<br>-gray<br>-frozen (Vx) with visible ice<br>-some silt<br>-slow smooth grindy drilling                            |                                     |           |                 |      |        |       |             |                | 7.0  |           |
| 8.0       |  |                                     |           |                 |      |        |       |             |                | 8.0  |           |
| 9.0       | END HOLE at 9.1m   | <input checked="" type="checkbox"/> | 360       |                 |      |        | GW-GM |             |                | 9.0  |           |
| 10.0      |  |                                     |           |                 |      |        |       |             |                | 10.0 |           |

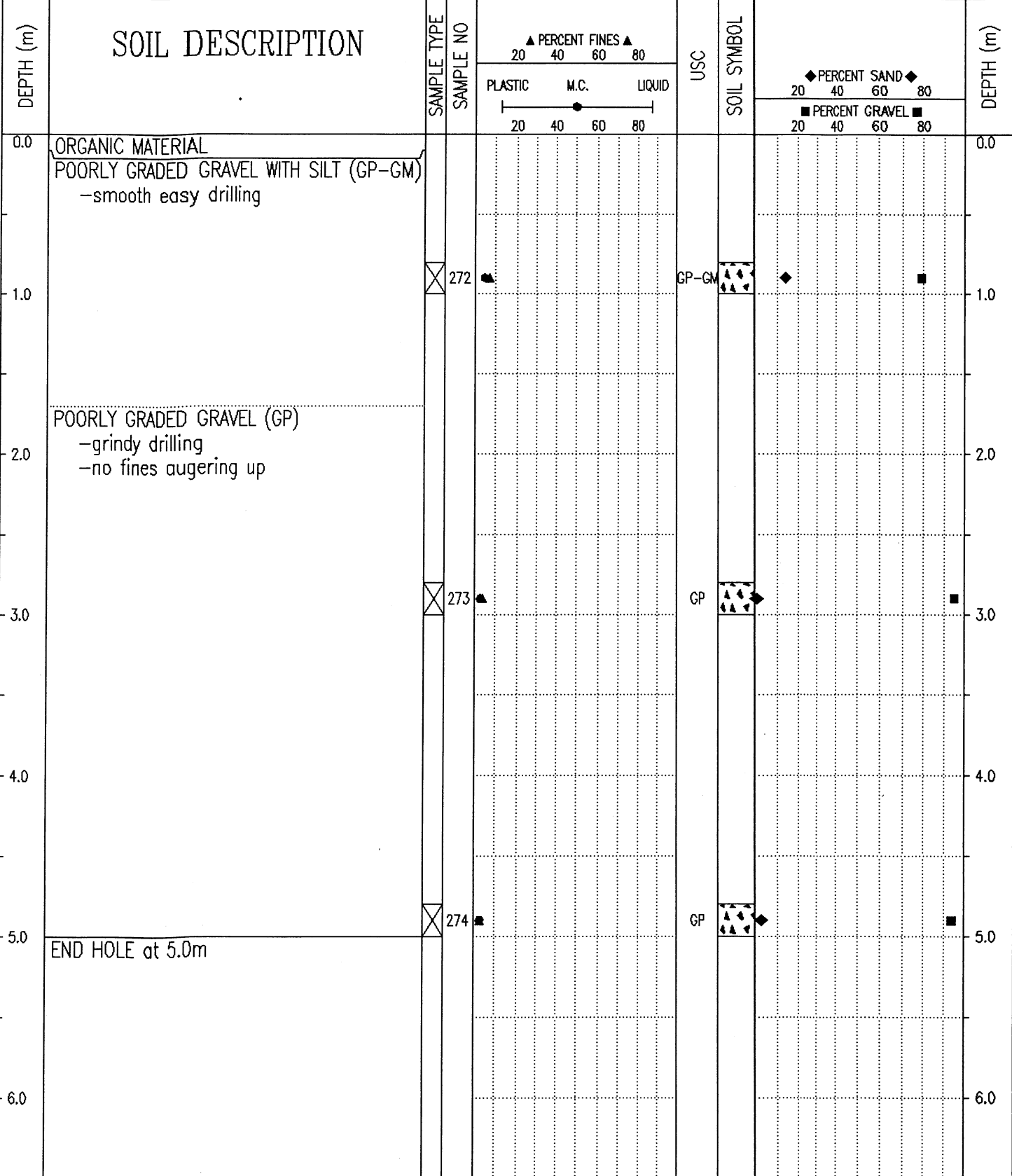
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Transportation Engineering

LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 9.1 m  
COMPLETE: 94/09/12

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| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING      | TEST HOLE NO: 246-106       |
| SHAKWAK PROJECT                           | SEGMENT 16                          | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1890+400 o/s 10m Rt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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| LOGGED BY: TF | COMPLETION DEPTH: 5.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/17      |
| Fig. No:      | Page 1 of 1             |

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST HOLE NO: 318-63        |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1890+400 o/s 20m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES |      |        | USC   | SOIL SYMBOL | PERCENT SAND |    | PERCENT GRAVEL |     | DEPTH (m) |
|-----------|---|-------------|-----------|---------------|------|--------|-------|-------------|--------------|----|----------------|-----|-----------|
|           |   |             |           | PLASTIC       | M.C. | LIQUID |       |             | 20           | 40 | 60             | 80  |           |
| 0.0       | ORGANIC MATERIAL  |             |           |               |      |        |       |             |              |    |                | 0.0 |           |
| 1.0       | WELL-GRADED GRAVEL WITH SILT (GW-GM)<br>-dark brown<br>-wet<br>-maximum 75mm material<br><br>-frozen below 1.5m |             | 50        | ▲             |      |        | GW-GM | ▲▲▲▲        | ◆            | ■  |                | 1.0 |           |
| 2.0       | END HOLE at 1.8m  |             |           |               |      |        |       |             |              |    |                | 2.0 |           |
| 3.0       |   |             |           |               |      |        |       |             |              |    |                | 3.0 |           |
| 4.0       |   |             |           |               |      |        |       |             |              |    |                | 4.0 |           |
| 5.0       |   |             |           |               |      |        |       |             |              |    |                | 5.0 |           |
| 6.0       |   |             |           |               |      |        |       |             |              |    |                | 6.0 |           |

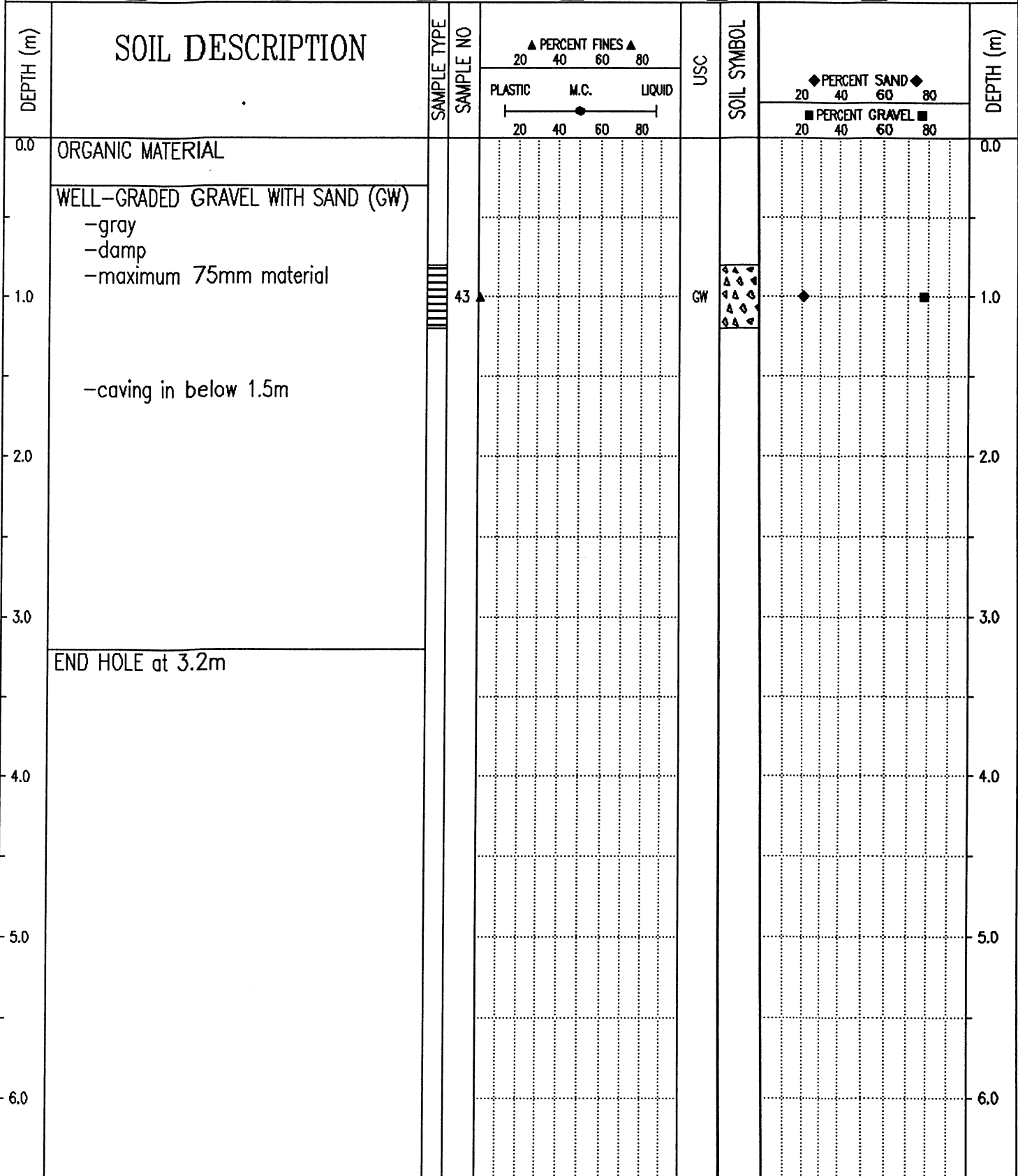
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Transportation Engineering

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.8 m  
COMPLETE: 94/08/25

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|---|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT      | SHAKWAK PROJECT                            | TEST PIT NO: 318-52                       |
| ENGINEERING-CAPITAL                         | SEGMENT 16                                 | Project No: 092-202101-0312               |
| BACKHOE: CAT 225                            | LOCATION: Sta. 1890+400 o/s 25m Rt.        | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE <input type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|   | <input type="checkbox"/> BULK              | <input type="checkbox"/> TUBE             |
|   |  | <input type="checkbox"/> CORE             |

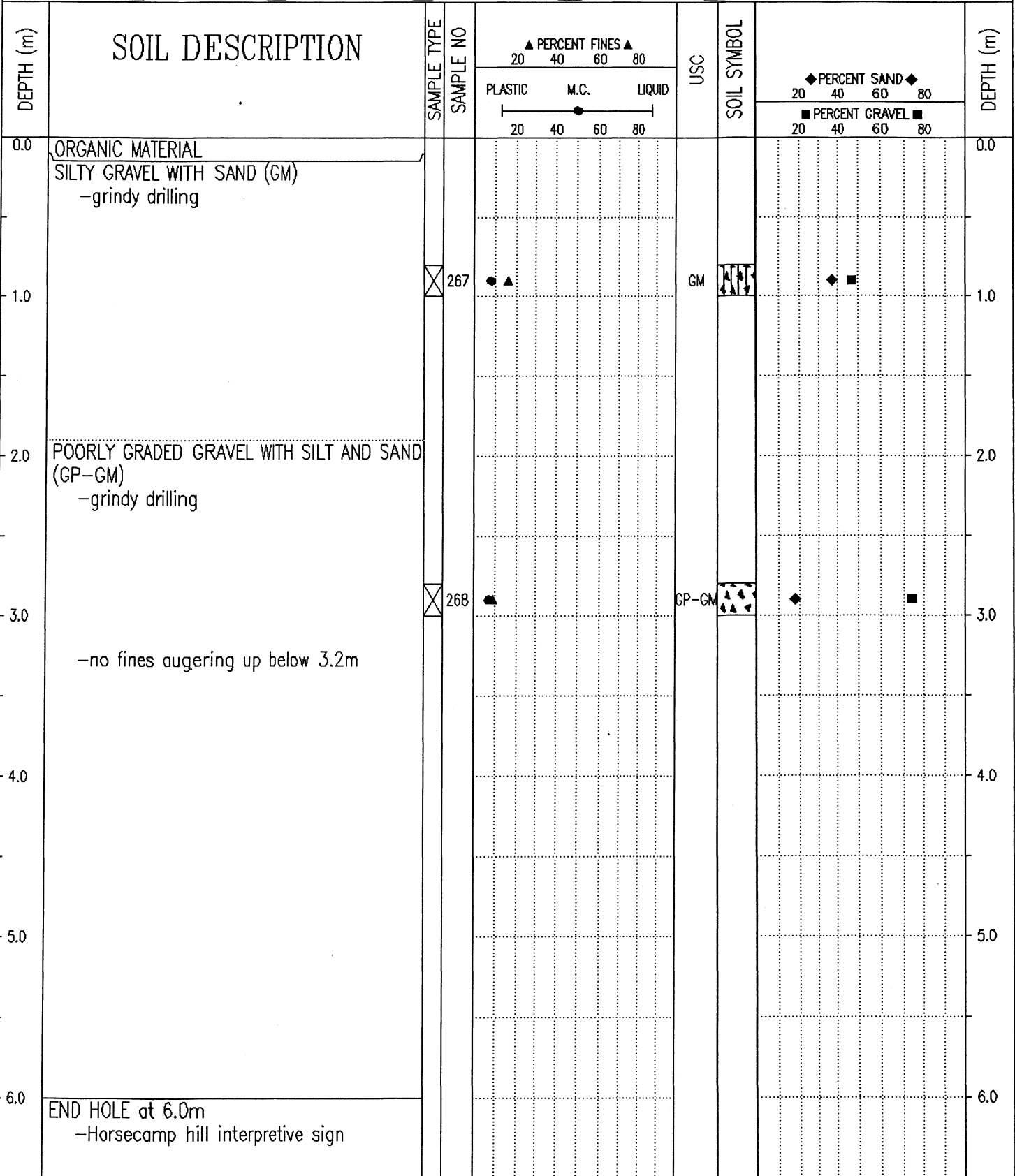


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LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.2 m  
COMPLETE: 94/08/25

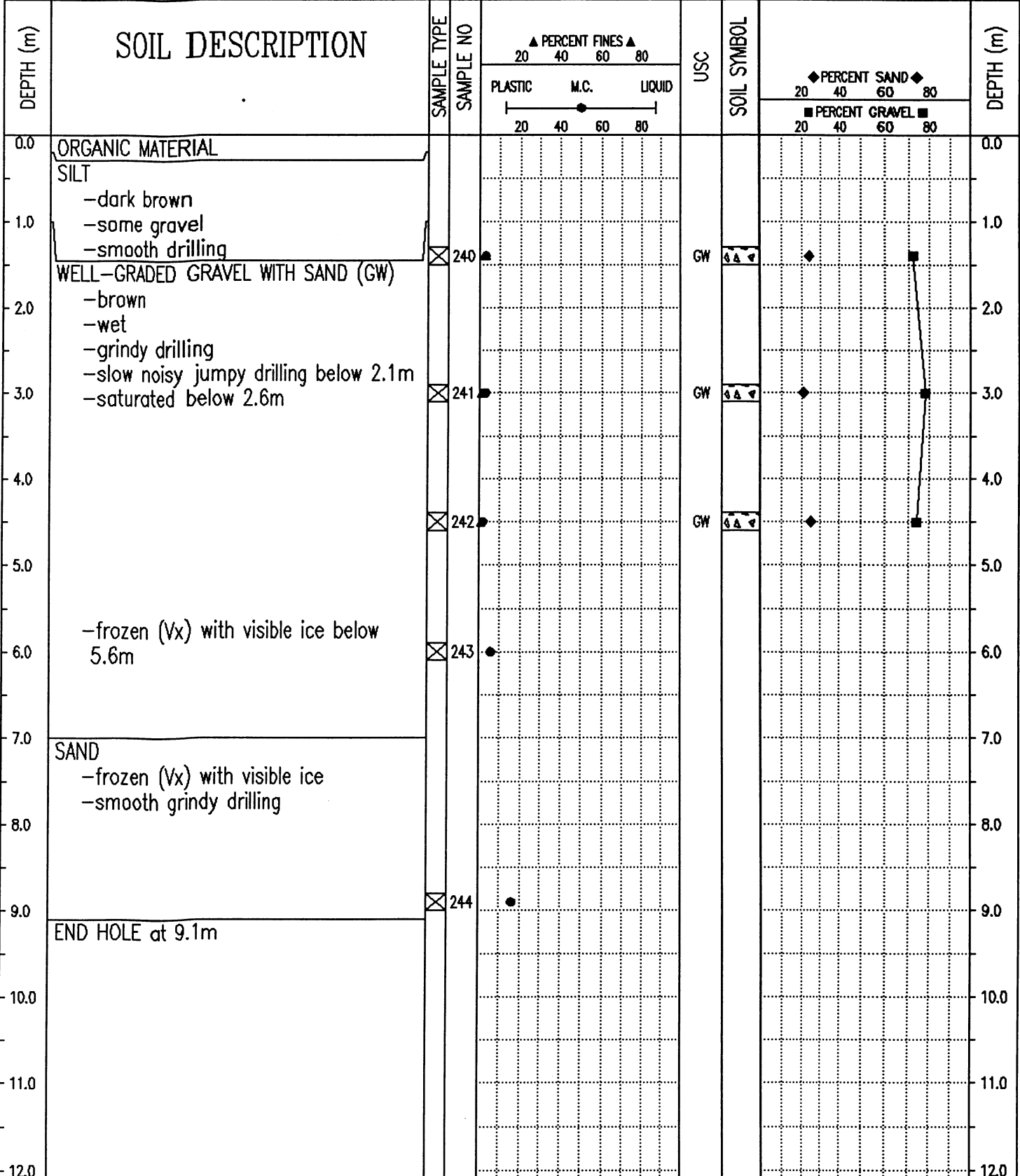
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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING         | TEST HOLE NO: 246-103       |
| SHAKWAK PROJECT  | SEGMENT 16                             | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: See Plan 1890 + 400 % 170 Rt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                             |



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| LOGGED BY: TF | COMPLETION DEPTH: 6.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/17      |
| Fig. No:      | Page 1 of 1             |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

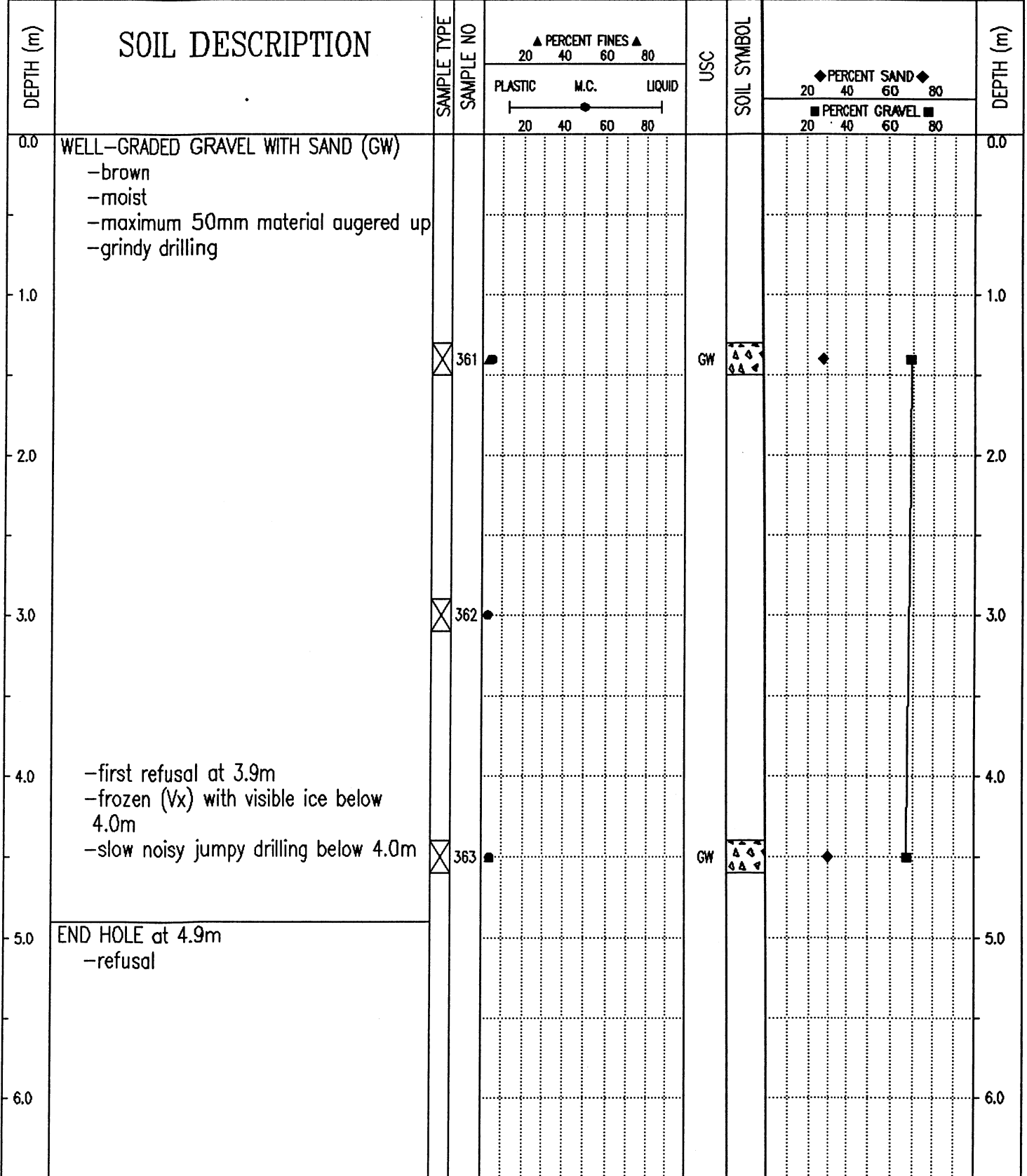


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| LOGGED BY: DT | COMPLETION DEPTH: 9.1 m |
| REVIEWED BY:  | COMPLETE: 94/09/07      |
| Fig. No:      | Page 1 of 1             |

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST PIT NO: 331-241        |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: Sta. 1890+450 o/s 20m Lt. | ELEVATION: 0.00 (m)         |

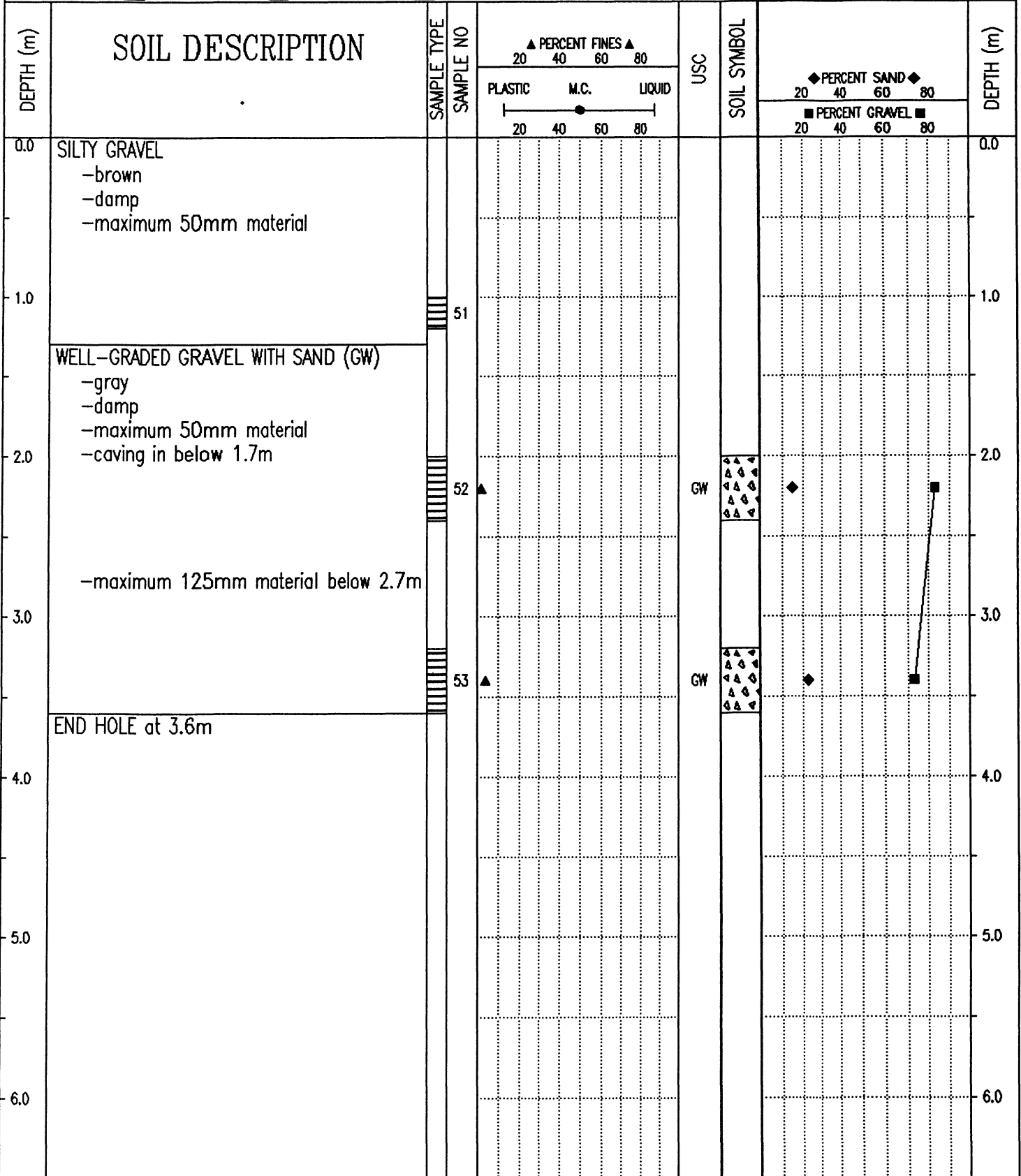
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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REVIEWED BY:  
Fig. No:  
COMPLETION DEPTH: 4.9 m  
COMPLETE: 94/09/12  
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|  |                                 |  |   |
|--|---------------------------------|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT |                                 | SHAKWAK PROJECT                            | TEST PIT NO: 318-64                       |
| ENGINEERING-CAPITAL                    |                                 | SEGMENT 16                                 | Project No: 092-202101-0312               |
| BACKHOE: CAT 225                       |                                 | LOCATION: Sta. 1890+475 o/s 30m Lt.        | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE                            | <input type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|  |                                 | <input type="checkbox"/> BULK              | <input type="checkbox"/> TUBE             |
|  |                                 |  | <input type="checkbox"/> CORE             |



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LOGGED BY: DA

COMPLETION DEPTH: 3.6 m

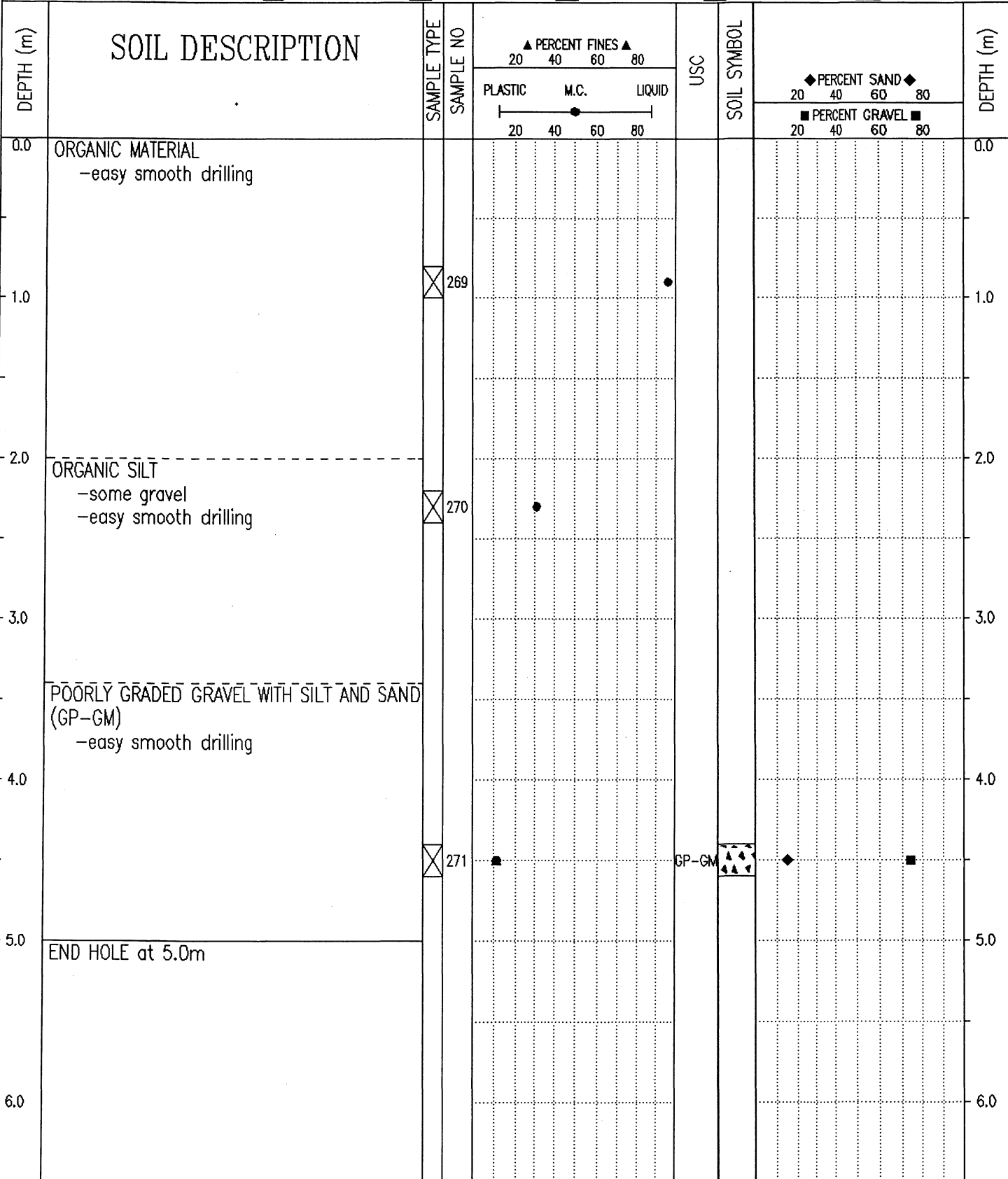
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COMPLETE: 94/08/25

Fig. No:

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|  |                                |                             |
|--|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 246-105       |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1890+500        | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |



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Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: TF | COMPLETION DEPTH: 5.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/17      |
| Fig. No:      | Page 1 of 1             |

|  |                                     |                             |
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| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST HOLE NO: 321-209       |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: Sta. 1890+500 o/s 20m Rt. | ELEVATION: 0.00 (m)         |

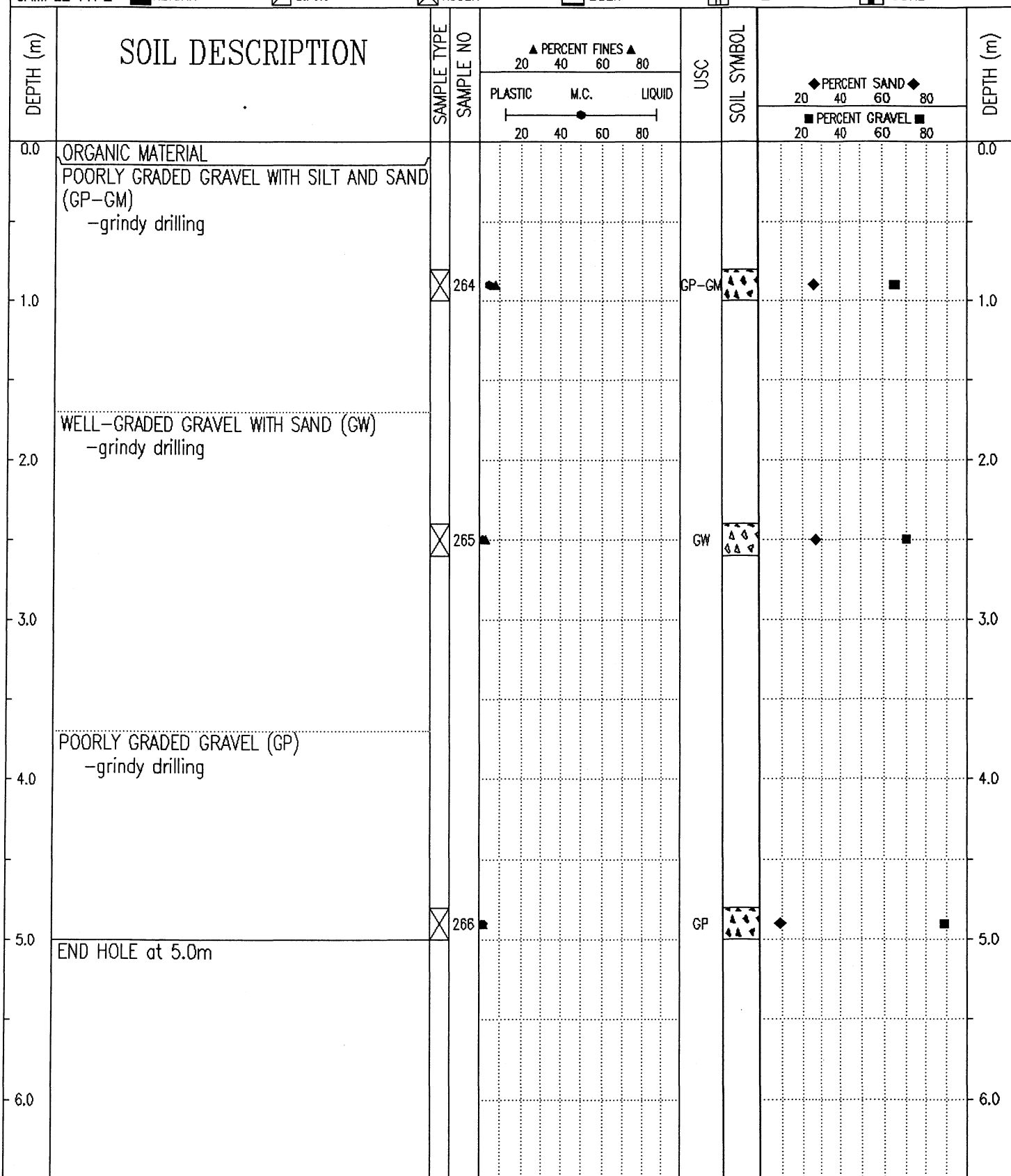
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆   |  |     | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|-----------------|------|--------|-----|-------------|------------------|--|-----|-----------|
|           |   |                                     |           | PLASTIC         | M.C. | LIQUID |     |             | PERCENT GRAVEL ■ |  |     |           |
| 0.0       | ORGANIC MATERIAL<br>-smooth drilling  |                                     |           |                 |      |        |     |             |                  |  | 0.0 |           |
| 0.0 - 1.0 | ORGANIC SILT<br>-dark brown<br>-frozen (Nb)<br>-smooth drilling   |                                     |           |                 |      |        |     |             |                  |  |     |           |
| 1.0 - 2.0 | SANDY GRAVEL<br>-brown<br>-frozen (Vx) with visible ice<br>-some silt<br>-maximum 50mm material augered up<br>-slow noisy jumpy drilling<br>-sample #237 not tested | <input checked="" type="checkbox"/> | 237       |                 |      |        |     |             |                  |  |     |           |
| 2.0 - 3.0 | -sample #238 not tested   | <input checked="" type="checkbox"/> | 238       |                 |      |        |     |             |                  |  |     |           |
| 3.0 - 4.0 |   |                                     |           |                 |      |        |     |             |                  |  |     |           |
| 4.0 - 5.0 | -sample #239 not tested<br>-first refusal at 4.6m   | <input checked="" type="checkbox"/> | 239       |                 |      |        |     |             |                  |  |     |           |
| 5.0 - 6.0 | END HOLE at 5.4m<br>-refusal  |                                     |           |                 |      |        |     |             |                  |  |     |           |

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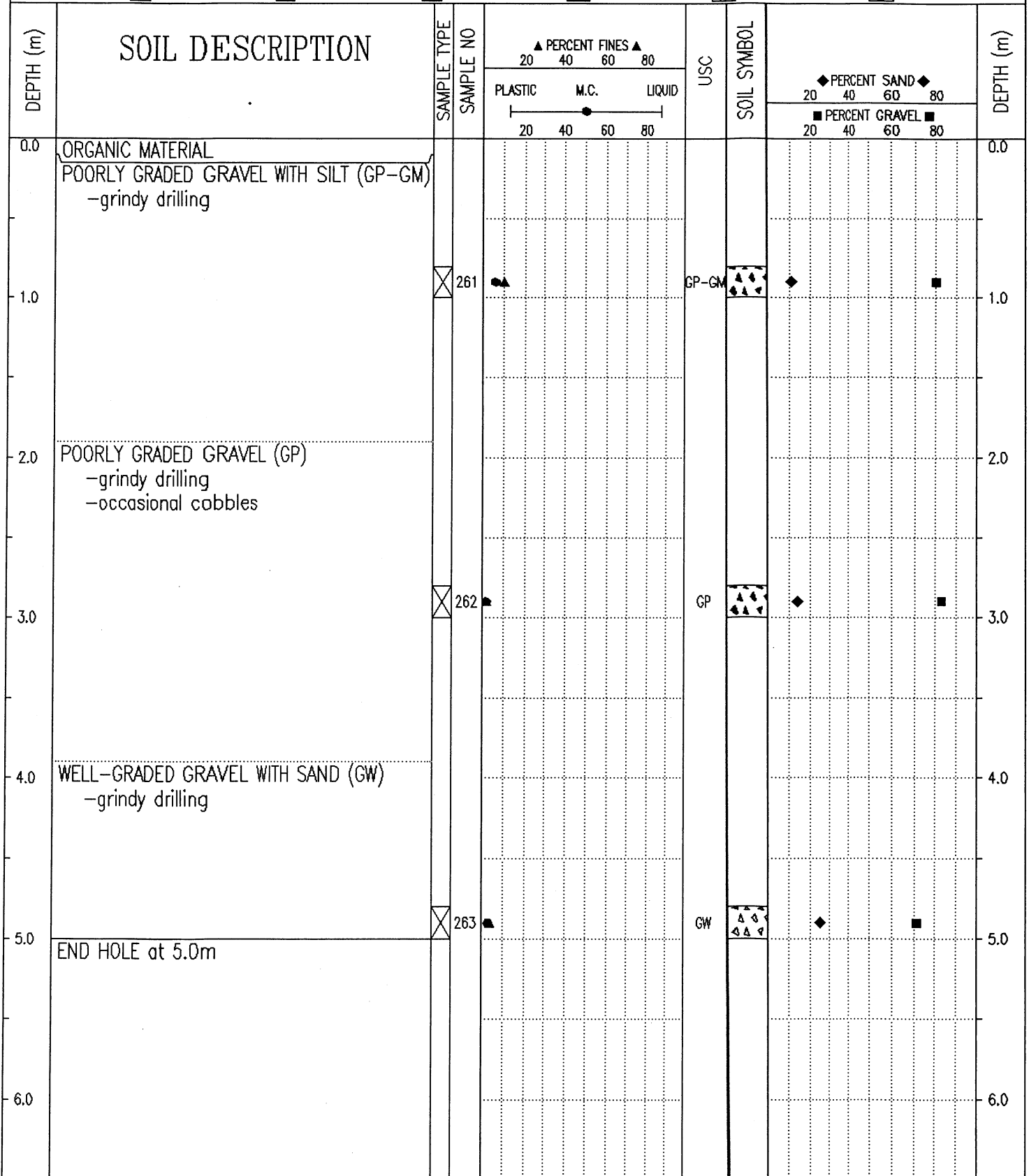
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| LOGGED BY: DT | COMPLETION DEPTH: 5.4 m |
| REVIEWED BY:  | COMPLETE: 94/09/07      |
| Fig. No:      | Page 1 of 1             |

|  |                                |                             |
|--|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 246-102       |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1890+600        | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |



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|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 5.0 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/17      |
|   | Fig. No:      | Page 1 of 1             |

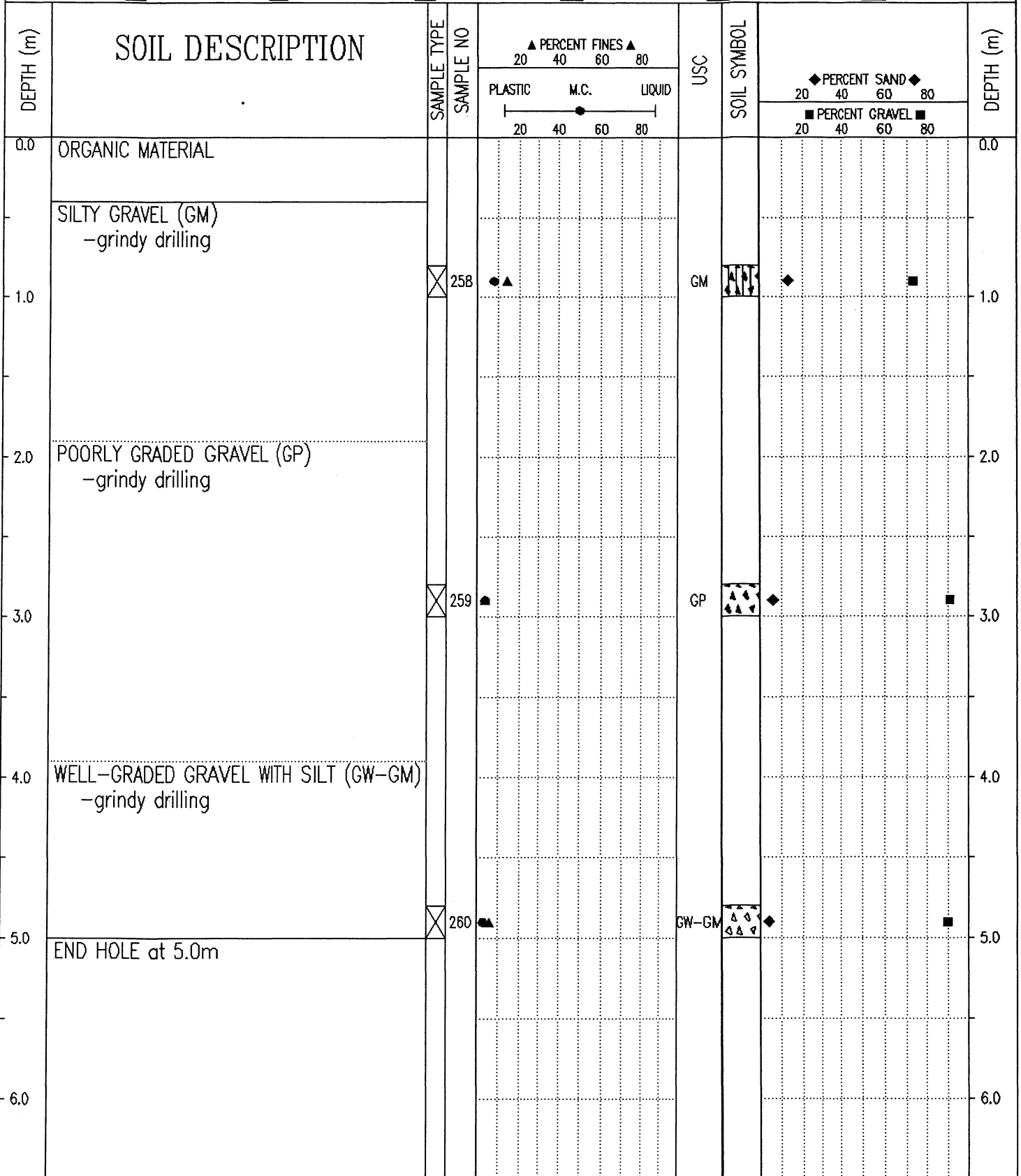
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|---|--|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING   | TEST HOLE NO: 246-101       |
| SHAKWAK PROJECT                           | SEGMENT 16   | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1890+700  | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE                               | <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                             |



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Transportation Engineering

|               |                         |
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| LOGGED BY: TF | COMPLETION DEPTH: 5.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/17      |
| Fig. No:      | Page 1 of 1             |

|  |                                |                             |
|--|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 246-100       |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1890+800        | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |

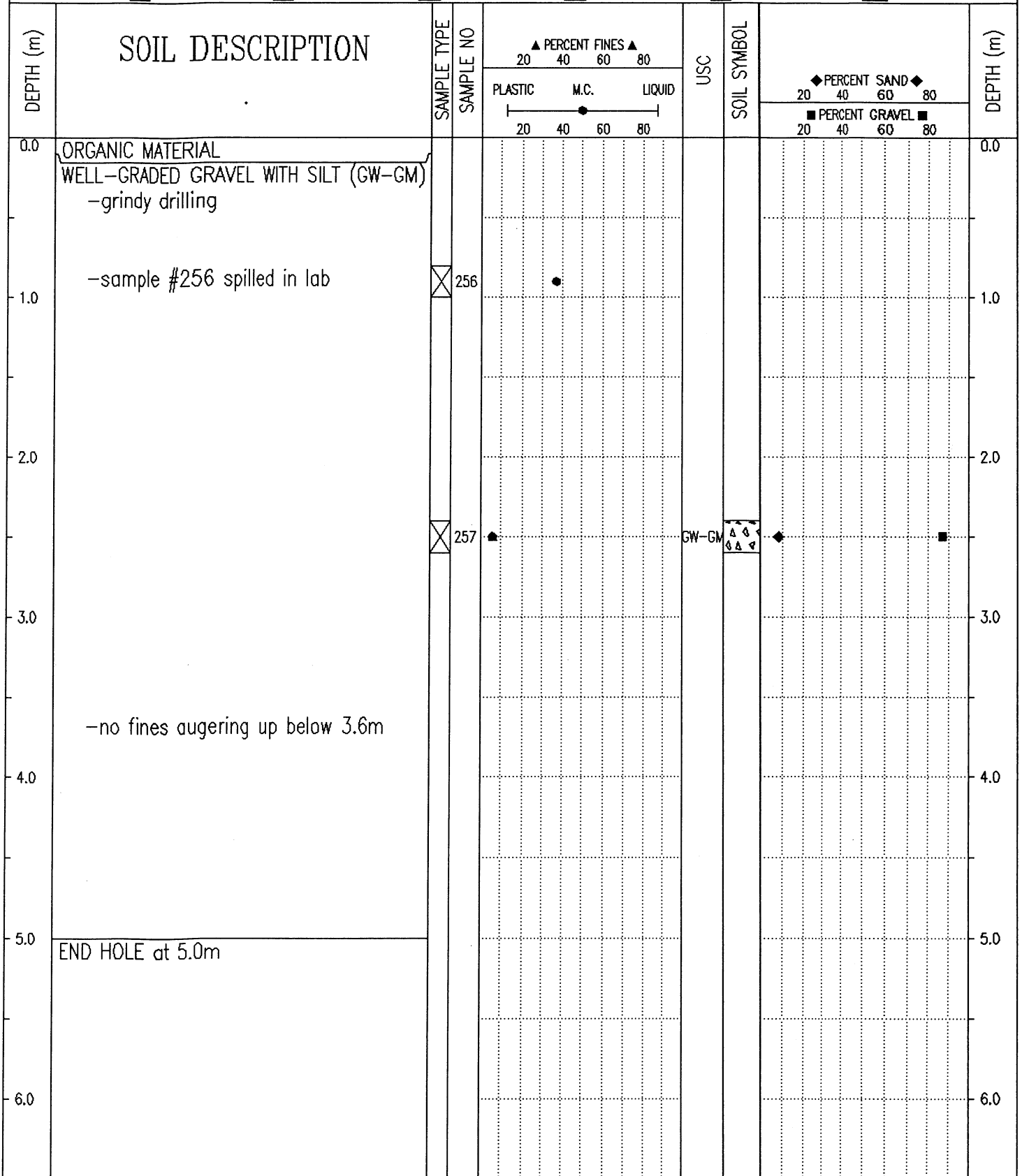


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Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 93/09/17

|  |                                |                             |
|--|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 246-99        |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1890+900        | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |



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| LOGGED BY: TF | COMPLETION DEPTH: 5.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/17      |
| Fig. No:      | Page 1 of 1             |

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|--|--|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT                 |  | SHAKWAK PROJECT                            | TEST HOLE NO: 331-242                     |
| ENGINEERING-CAPITAL                                    |  | SEGMENT 16                                 | Project No: 092-202101-0312               |
| DRILL: B40L 150mm SOLID STEM AUGER                     |  | LOCATION: Sta. 1890+950 o/s 20m Lt.        | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN |  | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|  |  | <input type="checkbox"/> BULK              | <input type="checkbox"/> TUBE             |
|  |  | <input type="checkbox"/> CORE              |   |

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES |      |        | USC   | SOIL SYMBOL | PERCENT SAND & GRAVEL |                | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|---------------|------|--------|-------|-------------|-----------------------|----------------|-----------|
|           |  |                                     |           | PLASTIC       | M.C. | LIQUID |       |             | PERCENT SAND          | PERCENT GRAVEL |           |
| 0.0       | ORGANIC MATERIAL<br>ORGANIC SILT<br>-black<br>-smooth drilling<br>-frozen (Nb) below 0.8m  |                                     |           |               |      |        |       |             |                       | 0.0            |           |
| 2.0       | WELL-GRADED GRAVEL WITH SAND (GW)<br>-brown<br>-frozen (Vx) with visible ice<br>-maximum 50mm material augered up<br>-slow noisy jumpy drilling          |                                     |           |               |      |        |       |             |                       | 2.0            |           |
| 3.0       |  | <input checked="" type="checkbox"/> | 364       | ▲             |      |        | GW    | ▲▲▲         | ◆                     | ■              | 3.0       |
| 4.0       | WELL-GRADED GRAVEL WITH SILT AND SAND (GW-GM)<br>-brown<br>-frozen (Vx) with visible ice<br>-maximum 50mm material augered up<br>-sample #365 not tested |                                     |           |               |      |        |       |             |                       |                | 4.0       |
| 5.0       |  | <input checked="" type="checkbox"/> | 365       | ●             |      |        |       |             |                       |                | 5.0       |
| 6.0       |  | <input checked="" type="checkbox"/> | 366       | ●             |      |        | GW-GM | ▲▲▲         | ◆                     | ■              | 6.0       |
| 6.2       | END HOLE at 6.2m<br>-refusal   |                                     |           |               |      |        |       |             |                       |                | 6.2       |
| 7.0       |  |                                     |           |               |      |        |       |             |                       |                | 7.0       |
| 8.0       |  |                                     |           |               |      |        |       |             |                       |                | 8.0       |
| 9.0       |  |                                     |           |               |      |        |       |             |                       |                | 9.0       |
| 10.0      |  |                                     |           |               |      |        |       |             |                       |                | 10.0      |

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LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 6.2 m  
COMPLETE: 94/09/12

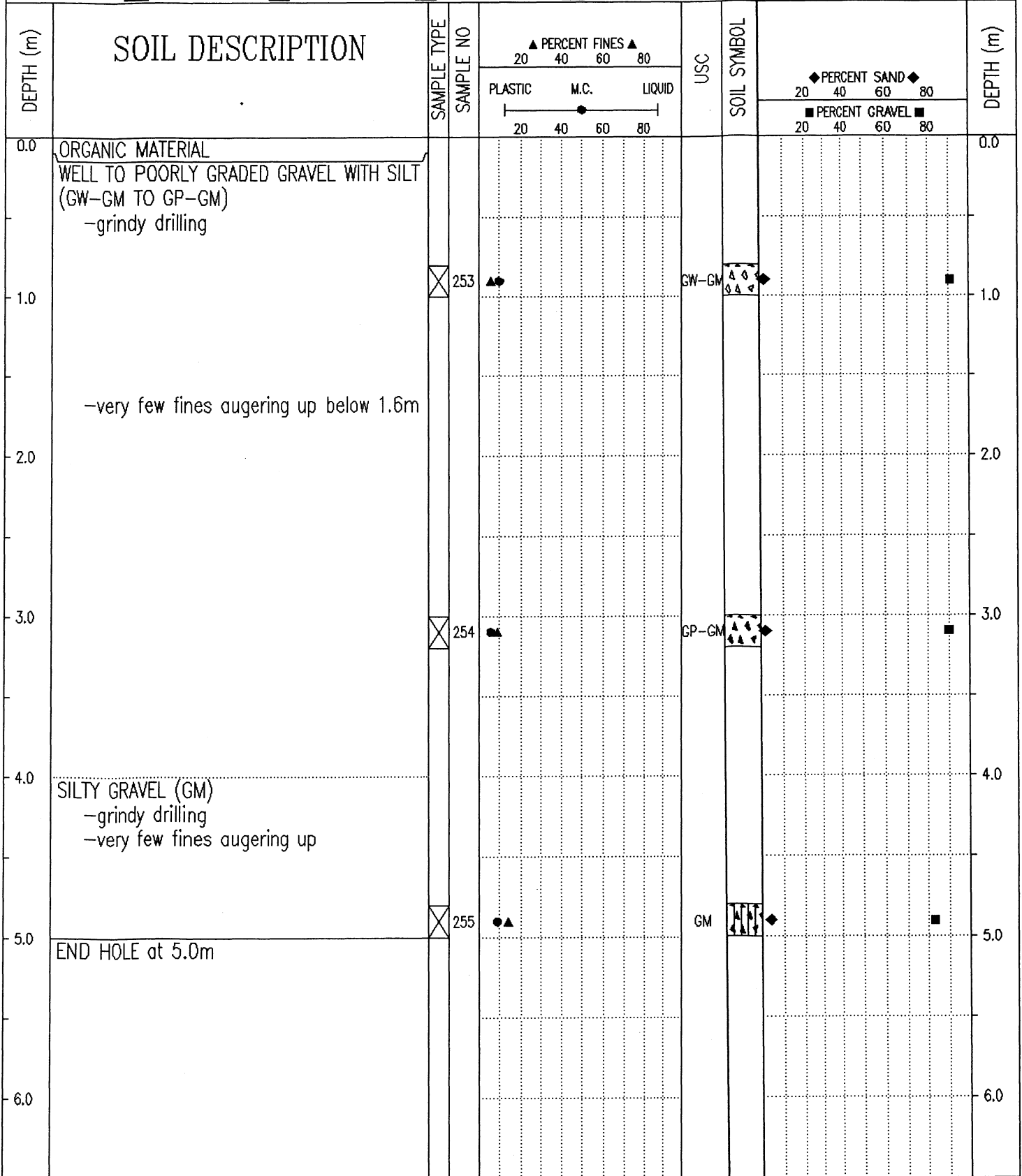


SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|--|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|-----------|
|           |  |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 |           |
| 0.0       | WELL-GRADED GRAVEL WITH SAND (GW)<br>-gray<br>-damp<br>-maximum 150mm material<br>-caving in |             |           |                 |      |        |     |             |                |    | 0.0       |
| 1.0       |  |             | 41        | ▲               |      |        | GW  | ◆           | ■              |    | 1.0       |
| 2.0       |  |             |           |                 |      |        |     |             |                |    | 2.0       |
| 3.0       |  |             | 42        |                 |      |        |     |             |                |    | 3.0       |
| 4.0       | END HOLE at 3.2m   |             |           |                 |      |        |     |             |                |    | 4.0       |
| 5.0       |  |             |           |                 |      |        |     |             |                |    | 5.0       |
| 6.0       |  |             |           |                 |      |        |     |             |                |    | 6.0       |

94/12/14 08:24AM

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|--|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 246-98        |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1891+000        | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |



|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 5.0 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/17      |
|   | Fig. No:      | Page 1 of 1             |

|  |  |  |   |
|--|--|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT |  | SHAKWAK PROJECT                            | TEST HOLE NO: 321-207                     |
| ENGINEERING-CAPITAL                    |  | SEGMENT 16                                 | Project No: 092-202101-0312               |
| DRILL: B40L 150mm SOLID STEM AUGER     |  | LOCATION: Sta. 1891+025 o/s 6m Rt.         | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|  |  |  | <input type="checkbox"/> BULK             |
|  |  |  | <input type="checkbox"/> TUBE             |
|  |  |  | <input type="checkbox"/> CORE             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND |    |    | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|---------------|------|--------|-----|-------------|--------------|----|----|-----------|
|           |   |                                     |           | PLASTIC       | M.C. | LIQUID |     |             | 20           | 40 | 60 |           |
| 0.0       | ORGANIC MATERIAL<br>-smooth drilling  |                                     |           |               |      |        |     |             |              |    |    | 0.0       |
| 1.0       | SILT<br>-dark brown<br>-frozen (Nb)   |                                     |           |               |      |        |     |             |              |    |    | 1.0       |
| 2.0       | SANDY GRAVEL<br>-brown<br>-frozen (Vx) with visible ice<br>-some silt<br>-maximum 50mm material augered up<br>-very slow noisy jumpy drilling | <input checked="" type="checkbox"/> | 229       |               |      |        |     |             |              |    |    | 2.0       |
| 3.0       | -sample #229 not tested<br>-less silt below 2.8m<br>-sample #230 not tested   | <input checked="" type="checkbox"/> | 230       |               |      |        |     |             |              |    |    | 3.0       |
| 5.0       | -sample #231 not tested   | <input checked="" type="checkbox"/> | 231       |               |      |        |     |             |              |    |    | 5.0       |
| 6.0       | -sample #232 not tested<br>-more silt below 6.4m  | <input checked="" type="checkbox"/> | 232       |               |      |        |     |             |              |    |    | 6.0       |
| 7.0       | -sample #233 not tested<br>END HOLE at 7.0m<br>-refusal   | <input checked="" type="checkbox"/> | 233       |               |      |        |     |             |              |    |    | 7.0       |
| 8.0       |   |                                     |           |               |      |        |     |             |              |    |    | 8.0       |
| 9.0       |   |                                     |           |               |      |        |     |             |              |    |    | 9.0       |
| 10.0      |   |                                     |           |               |      |        |     |             |              |    |    | 10.0      |

Government of Yukon  
Transportation Engineering

LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 7.0 m  
COMPLETE: 94/08/31

|  |  |                                     |                             |
|--|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   |  | SHAKWAK PROJECT                     | TEST HOLE NO: 331-243       |
| ENGINEERING-CAPITAL  |  | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER   |  | LOCATION: Sta. 1891+025 o/s 20m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|---|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|------------------|-----------|
|           |   |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 |                  |           |
| 0.0       | ORGANIC SILT<br>-smooth drilling  |             |           |                 |      |        |     |             |                |    |                  | 0.0       |
| 1.0       | WELL-GRADED GRAVEL WITH SAND (GW)<br>-brown<br>-moist<br>-maximum 50mm material augered up<br>-noisy jumpy drilling |             | 367       |                 |      |        | GW  | ▲▲▲<br>▲▲▲  | ◆              | ■  |                  | 1.0       |
| 2.0       | -frozen (Vx) with visible ice below 2.1m<br>-slow noisy jumpy drilling below 2.1m                                   |             |           |                 |      |        |     |             |                |    |                  | 2.0       |
| 3.0       |   |             | 368       |                 |      |        | GW  | ▲▲▲<br>▲▲▲  | ◆              | ■  |                  | 3.0       |
| 4.0       | END HOLE at 3.8m<br>-refusal<br>-rock dust on bit   |             |           |                 |      |        |     |             |                |    |                  | 4.0       |
| 5.0       |   |             |           |                 |      |        |     |             |                |    |                  | 5.0       |
| 6.0       |   |             |           |                 |      |        |     |             |                |    |                  | 6.0       |

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|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DT | COMPLETION DEPTH: 3.8 m |
|   | REVIEWED BY:  | COMPLETE: 94/09/12      |
|   | Fig. No:      | Page 1 of 1             |

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST HOLE NO: 317-49        |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1891+075 o/s 25m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|--|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|------------------|-----------|
|           |  |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 |                  |           |
| 0.0       | ORGANIC MATERIAL   |             |           |                 |      |        |     |             |                |    | 0.0              |           |
|           | SILTY GRAVEL<br>-dark brown<br>-damp   |             |           |                 |      |        |     |             |                |    |                  |           |
| 1.0       | WELL-GRADED GRAVEL WITH SAND (GW)<br>-gray<br>-damp<br>-maximum 100mm material |             | 39 ▲      |                 |      |        | GW  | ▲▲▲▲        | ◆              | ■  | 1.0              |           |
| 2.0       | -frozen with visible ice below 2.0m  |             |           |                 |      |        |     |             |                |    | 2.0              |           |
|           | END HOLE at 2.2m   |             |           |                 |      |        |     |             |                |    |                  |           |
| 3.0       |  |             |           |                 |      |        |     |             |                |    | 3.0              |           |
| 4.0       |  |             |           |                 |      |        |     |             |                |    | 4.0              |           |
| 5.0       |  |             |           |                 |      |        |     |             |                |    | 5.0              |           |
| 6.0       |  |             |           |                 |      |        |     |             |                |    | 6.0              |           |

|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 2.2 m |
|   | REVIEWED BY:  | COMPLETE: 94/08/25      |
|   | Fig. No:      | Page 1 of 1             |

|  |                                |                             |
|--|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 246-97        |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1891+100        | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |

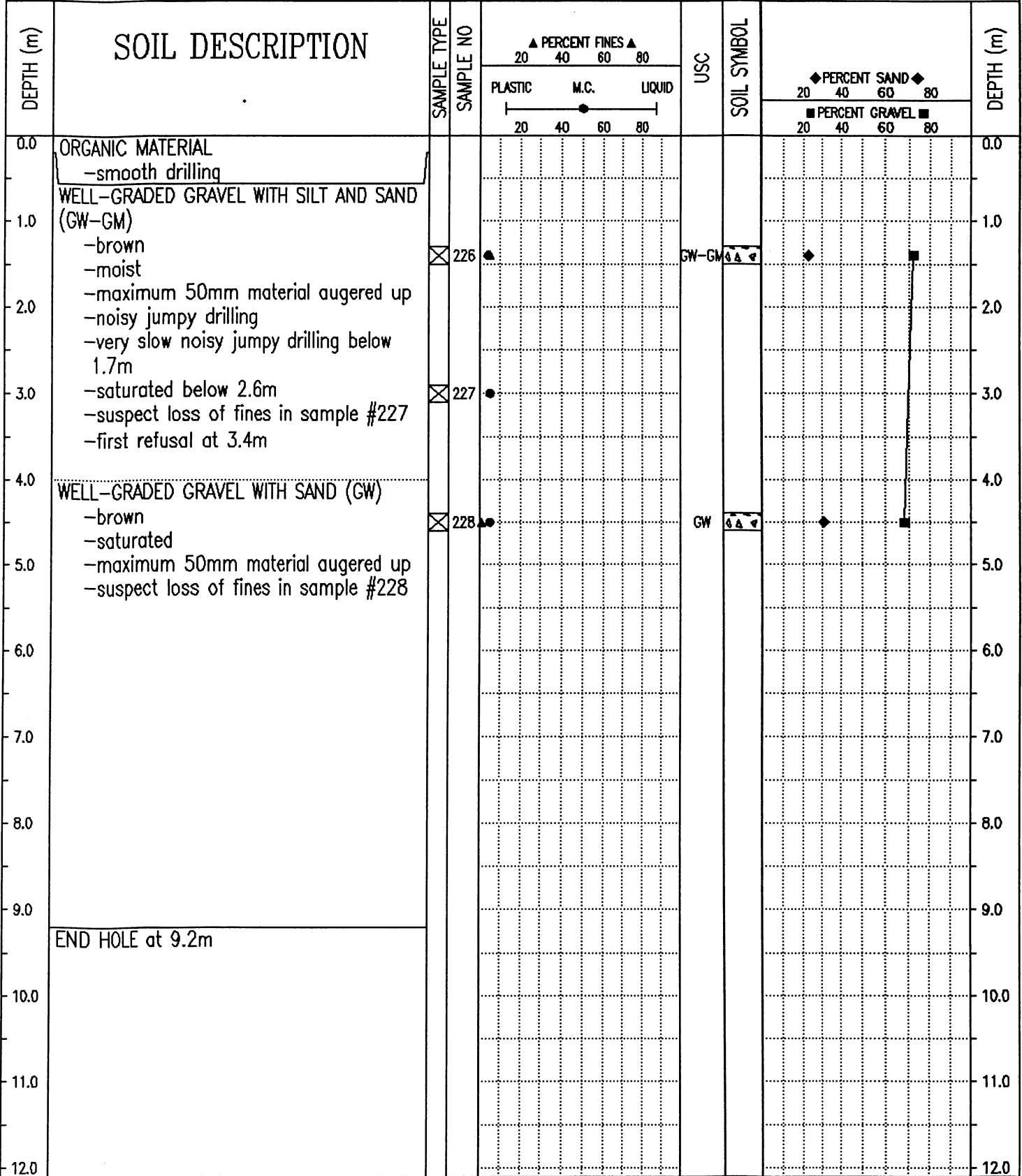
| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO | ▲ PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-------------------|------|--------|-----|-------------|------------------|----|-----------|
|           |  |                                     |           | PLASTIC           | M.C. | LIQUID |     |             | 20               | 40 |           |
| 0.0       | ORGANIC MATERIAL<br>SILTY GRAVEL<br>-grindy drilling                   |                                     |           |                   |      |        |     |             |                  |    | 0.0       |
| 1.0       | POORLY GRADED GRAVEL (GP)<br>-grindy drilling<br>-no fines augering up |                                     |           |                   |      |        |     |             |                  |    | 1.0       |
| 2.0       |  | <input checked="" type="checkbox"/> | 252       |                   |      |        | GP  | ▲▲▲▲        |                  | ■  | 2.0       |
| 3.0       |  |                                     |           |                   |      |        |     |             |                  |    | 3.0       |
| 4.0       |  |                                     |           |                   |      |        |     |             |                  |    | 4.0       |
| 5.0       | END HOLE at 5.0m   |                                     |           |                   |      |        |     |             |                  |    | 5.0       |
| 6.0       |  |                                     |           |                   |      |        |     |             |                  |    | 6.0       |

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Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 93/09/17

|  |  |  |   |
|--|--|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT |  | SHAKWAK PROJECT                            | TEST PIT NO: 321-206                      |
| ENGINEERING-CAPITAL                    |  | SEGMENT 16                                 | Project No: 092-202101-0312               |
| DRILL: B40L 150mm SOLID STEM AUGER     |  | LOCATION: Sta. 1891+100 o/s 25m Rt.        | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|  |  |  | <input type="checkbox"/> BULK             |
|  |  |  | <input type="checkbox"/> TUBE             |
|  |  |  | <input type="checkbox"/> CORE             |

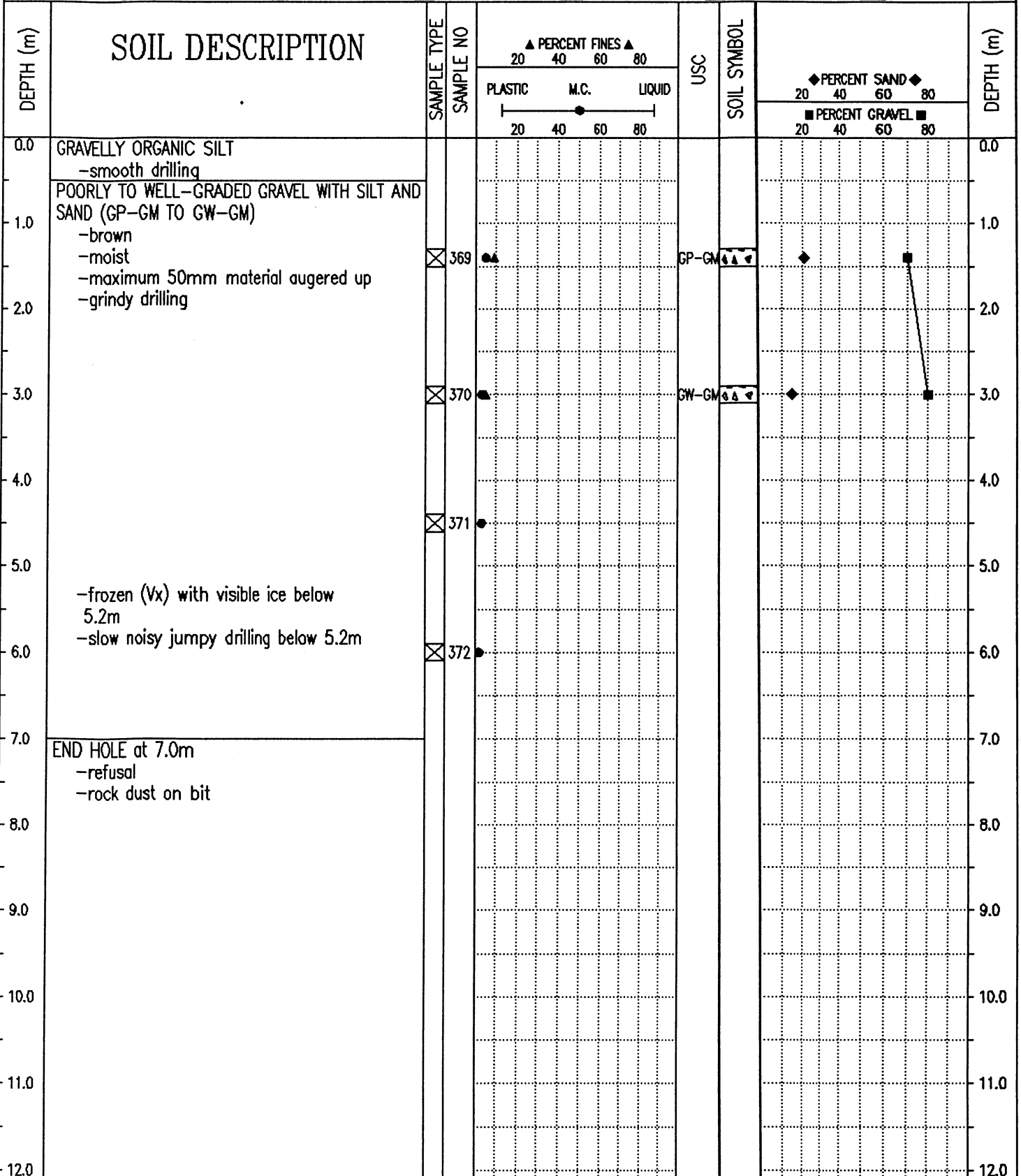


Government of Yukon  
Transportation Engineering

LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 9.2 m  
COMPLETE: 94/08/30

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | SHAKWAK PROJECT                     | TEST PIT NO: 331-244        |
| ENGINEERING-CAPITAL  | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER   | LOCATION: Sta. 1891+125 o/s 15m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |



Government of Yukon  
Transportation Engineering

LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 7.0 m  
COMPLETE: 94/09/12

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST HOLE NO: 317-48        |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1891+150 o/s 25m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND & GRAVEL |                | DEPTH (m) |
|-----------|---|-------------|-----------|---------------|------|--------|-----|-------------|-----------------------|----------------|-----------|
|           |   |             |           | PLASTIC       | M.C. | LIQUID |     |             | PERCENT SAND          | PERCENT GRAVEL |           |
| 0.0       | ORGANIC MATERIAL  |             |           |               |      |        |     |             |                       | 0.0            |           |
|           | SILT  |             |           |               |      |        |     |             |                       |                |           |
| 1.0       | SILTY GRAVEL<br>-brown<br>-damp<br>-maximum 50mm material                     |             |           |               |      |        |     |             |                       | 1.0            |           |
| 2.0       | WELL-GRADED GRAVEL WITH SAND (GW)<br>-gray<br>-damp<br>-maximum 75mm material |             | 38        | ▲             |      |        | GW  | ▲▲▲▲        | ◆                     | ■              | 2.0       |
| 3.0       | -frozen below 2.3m  |             |           |               |      |        |     |             |                       |                | 3.0       |
| 4.0       | END HOLE at 2.5m  |             |           |               |      |        |     |             |                       |                | 4.0       |
| 5.0       |   |             |           |               |      |        |     |             |                       |                | 5.0       |
| 6.0       |   |             |           |               |      |        |     |             |                       |                | 6.0       |

Government of Yukon  
Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 2.5 m  
COMPLETE: 94/08/25

|  |  |                             |
|--|--|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT  | TEST PIT NO: 317-50         |
| ENGINEERING-CAPITAL                    | SEGMENT 16   | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1891+175 o/s 20m Rt.  | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE                            | <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                             |

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|--|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|------------------|-----------|
|           |  |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 |                  |           |
| 0.0       | ORGANIC MATERIAL   |             |           |                 |      |        |     |             |                |    | 0.0              |           |
|           | SILTY GRAVEL<br>-brown<br>-damp  |             |           |                 |      |        |     |             |                |    |                  |           |
| 1.0       | WELL-GRADED GRAVEL WITH SAND (GW)<br>-gray<br>-damp<br>-maximum 100mm material |             | 40 ▲      |                 |      |        | GW  | ◆           |                | ■  | 1.0              |           |
| 2.0       |  |             |           |                 |      |        |     |             |                |    | 2.0              |           |
| 3.0       | -frozen below 2.5m<br>END HOLE at 2.6m   |             |           |                 |      |        |     |             |                |    | 3.0              |           |
| 4.0       |  |             |           |                 |      |        |     |             |                |    | 4.0              |           |
| 5.0       |  |             |           |                 |      |        |     |             |                |    | 5.0              |           |
| 6.0       |  |             |           |                 |      |        |     |             |                |    | 6.0              |           |

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|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 2.5 m |
|   | REVIEWED BY:  | COMPLETE: 94/08/25      |
|   | Fig. No:      | Page 1 of 1             |

|  |  |  |   |
|--|--|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT |  | SHAKWAK PROJECT                            | TEST HOLE NO: 321-205                     |
| ENGINEERING-CAPITAL                    |  | SEGMENT 16                                 | Project No: 092-202101-0312               |
| DRILL: B40L 150mm SOLID STEM AUGER     |  | LOCATION: Sta. 1891+175 o/s 25m Rt.        | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|  |  |  | <input type="checkbox"/> BULK             |
|  |  |  | <input type="checkbox"/> TUBE             |
|  |  |  | <input type="checkbox"/> CORE             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND |    | PERCENT GRAVEL | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|---------------|------|--------|-----|-------------|--------------|----|----------------|-----------|
|           |   |                                     |           | PLASTIC       | M.C. | LIQUID |     |             | 20           | 40 |                |           |
| 0.0       | ORGANIC MATERIAL<br>-smooth drilling  |                                     |           |               |      |        |     |             |              |    |                | 0.0       |
| 1.0       | SANDY GRAVEL<br>-brown<br>-moist<br>-some silt  |                                     |           |               |      |        |     |             |              |    |                | 1.0       |
| 2.0       | -maximum 50mm material augered up<br>-noisy jumpy drilling<br>-sample #222 not tested<br>-very slow noisy jumpy drilling below 1.8m | <input checked="" type="checkbox"/> | 222       |               |      |        |     |             |              |    |                | 2.0       |
| 3.0       | -sample #223 not tested<br>-saturated below 3.0m  | <input checked="" type="checkbox"/> | 223       |               |      |        |     |             |              |    |                | 3.0       |
| 4.0       | -frozen (Vx) with visible ice below 4.0m<br>-sample #224 not tested   | <input checked="" type="checkbox"/> | 224       |               |      |        |     |             |              |    |                | 4.0       |
| 5.0       |   |                                     |           |               |      |        |     |             |              |    |                | 5.0       |
| 6.0       |   |                                     |           |               |      |        |     |             |              |    |                | 6.0       |
| 7.0       |   |                                     |           |               |      |        |     |             |              |    |                | 7.0       |
| 8.0       | -sample #225 not tested   | <input checked="" type="checkbox"/> | 225       |               |      |        |     |             |              |    |                | 8.0       |
| 9.0       | END HOLE at 8.5m<br>-refusal  |                                     |           |               |      |        |     |             |              |    |                | 9.0       |
| 10.0      |   |                                     |           |               |      |        |     |             |              |    |                | 10.0      |

Government of Yukon  
Transportation Engineering

LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 8.5 m  
COMPLETE: 94/08/30

|   |  |  |           |   |      |                         |             |                  |    |           |
|---|--|--|-----------|---|------|-------------------------|-------------|------------------|----|-----------|
| SUBSURFACE EXPLORATION AND TEST REPORT            |  | ALASKA HIGHWAY PRE-ENGINEERING             |           | TEST HOLE NO: 246-96                      |      |                         |             |                  |    |           |
| SHAKWAK PROJECT                                   |  | SEGMENT 16                                 |           | Project No: 202101-0312-193               |      |                         |             |                  |    |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER         |  | LOCATION: Sta. 1891+200                    |           | ELEVATION: 0.00 (m)                       |      |                         |             |                  |    |           |
| SAMPLE TYPE <input type="checkbox"/> RETURN       |  | <input checked="" type="checkbox"/> S.P.T. |           | <input checked="" type="checkbox"/> AUGER |      |                         |             |                  |    |           |
|   |  | <input type="checkbox"/> BULK              |           | <input type="checkbox"/> TUBE             |      |                         |             |                  |    |           |
|   |  |  |           | <input type="checkbox"/> CORE             |      |                         |             |                  |    |           |
| DEPTH (m)   | SOIL DESCRIPTION   | SAMPLE TYPE                                | SAMPLE NO | ▲ PERCENT FINES ▲                         |      | USC                     | SOIL SYMBOL | ◆ PERCENT SAND ◆ |    | DEPTH (m) |
|   |  |  |           | PLASTIC                                   | M.C. |                         |             | LIQUID           | 20 |           |
| 0.0   | ORGANIC MATERIAL<br>WELL-GRADED GRAVEL WITH SAND (GW)<br>-grindy drilling<br>-no fines augering up |  |           |   |      |                         |             |                  |    | 0.0       |
| 1.0   |  | <input checked="" type="checkbox"/>        | 251       |   |      |                         | GW          |                  |    | 1.0       |
| 2.0   |  |  |           |   |      |                         |             |                  |    | 2.0       |
| 3.0   |  |  |           |   |      |                         |             |                  |    | 3.0       |
| 4.0   |  |  |           |   |      |                         |             |                  |    | 4.0       |
| 5.0   | END HOLE at 5.0m   |  |           |   |      |                         |             |                  |    | 5.0       |
| 6.0   |  |  |           |   |      |                         |             |                  |    | 6.0       |
| Government of Yukon<br>Transportation Engineering |  |  |           | LOGGED BY: TF                             |      | COMPLETION DEPTH: 5.0 m |             |                  |    |           |
|   |  |  |           | REVIEWED BY:                              |      | COMPLETE: 93/09/17      |             |                  |    |           |
|   |  |  |           | Fig. No:                                  |      | Page 1 of 1             |             |                  |    |           |

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST HOLE NO: 331-245       |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: Sta. 1891+200 o/s 12m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

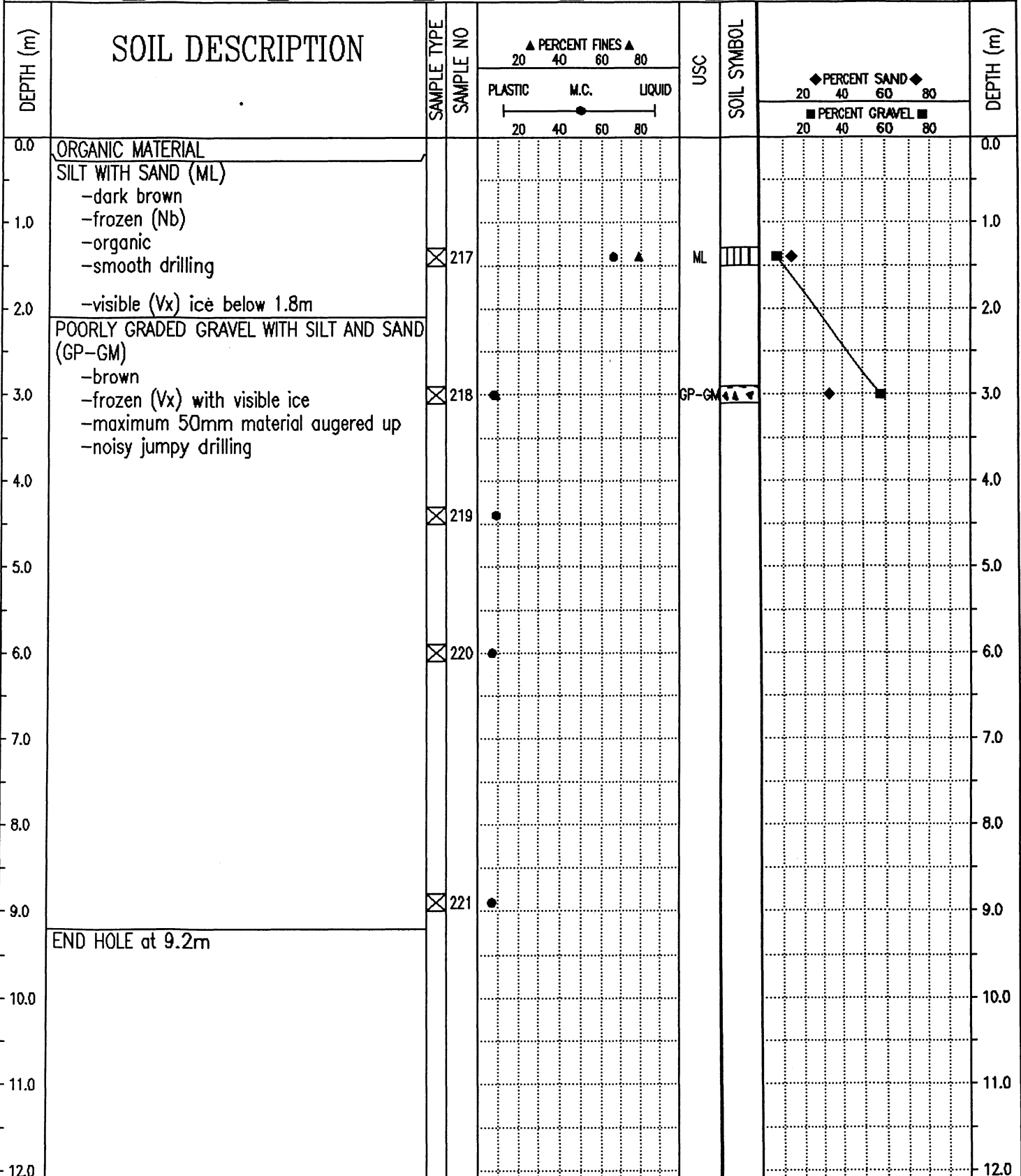
| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ |      | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|------|-----------|
|           |  |                                     |           | 20              | 40 | 60 |     |             | 80             | 20 | 40               | 60   |           |
| 0.0       | SANDY GRAVEL<br>-brown<br>-moist<br>-some silt<br>-maximum 50mm material augered up<br>-grindy drilling<br>-sample #373 not tested | <input checked="" type="checkbox"/> | 373       |                 |    |    |     |             |                |    |                  | 0.0  |           |
| 1.0       |  |                                     |           |                 |    |    |     |             |                |    |                  | 1.0  |           |
| 2.0       |  |                                     |           |                 |    |    |     |             |                |    |                  | 2.0  |           |
| 3.0       | -sample #374 not tested  | <input checked="" type="checkbox"/> | 374       |                 |    |    |     |             |                |    |                  | 3.0  |           |
| 4.0       |  |                                     |           |                 |    |    |     |             |                |    |                  | 4.0  |           |
| 5.0       | -sample #375 not tested  | <input checked="" type="checkbox"/> | 375       |                 |    |    |     |             |                |    |                  | 5.0  |           |
| 6.0       | -sample #376 not tested  | <input checked="" type="checkbox"/> | 376       |                 |    |    |     |             |                |    |                  | 6.0  |           |
| 7.0       |  |                                     |           |                 |    |    |     |             |                |    |                  | 7.0  |           |
| 8.0       | -frozen (Vx) with visible ice below 7.6m<br>-slow noisy jumpy drilling below 7.6m  |                                     |           |                 |    |    |     |             |                |    |                  | 8.0  |           |
| 9.0       | -sample #377 not tested<br>END HOLE at 9.1m  | <input checked="" type="checkbox"/> | 377       |                 |    |    |     |             |                |    |                  | 9.0  |           |
| 10.0      |  |                                     |           |                 |    |    |     |             |                |    |                  | 10.0 |           |

Government of Yukon  
Transportation Engineering

LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 9.1 m  
COMPLETE: 94/09/12

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | SHAKWAK PROJECT                     | TEST PIT NO: 321-204        |
| ENGINEERING-CAPITAL  | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER   | LOCATION: Sta. 1891+250 o/s 25m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |



Government of Yukon  
Transportation Engineering

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| LOGGED BY: DT | COMPLETION DEPTH: 9.2 m |
| REVIEWED BY:  | COMPLETE: 94/08/30      |
| Fig. No:      | Page 1 of 1             |

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST HOLE NO: 317-45        |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1891+250 o/s 25m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|--|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|-----------|
|           |  |             |           | 20              | 40 | 60 |     |             | 80             | 20 |                  |           |
| 0.0       | GRAVEL<br>-gray<br>-damp   |             |           |                 |    |    |     |             |                |    | 0.0              |           |
| 1.0       | POORLY GRADED GRAVEL WITH SAND (GP)<br>-gray<br>-damp<br>-maximum 125mm material |             |           |                 |    |    |     |             |                |    | 1.0              |           |
| 2.0       |  |             |           |                 |    |    |     |             |                |    | 2.0              |           |
| 3.0       |  |             |           |                 |    |    |     |             |                |    | 3.0              |           |
| 3.2       | END HOLE at 3.2m   |             | 36 ▲      |                 |    |    | GP  | ◆           |                | ■  | 3.2              |           |
| 4.0       |  |             |           |                 |    |    |     |             |                |    | 4.0              |           |
| 5.0       |  |             |           |                 |    |    |     |             |                |    | 5.0              |           |
| 6.0       |  |             |           |                 |    |    |     |             |                |    | 6.0              |           |

Government of Yukon  
Transportation Engineering

LOGGED BY: DA

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 3.2 m

COMPLETE: 94/08/24

Page 1 of 1

|  |  |  |   |
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| SUBSURFACE EXPLORATION AND TEST REPORT |  | SHAKWAK PROJECT                            | TEST PIT NO: 317-46                       |
| ENGINEERING-CAPITAL                    |  | SEGMENT 16                                 | Project No: 092-202101-0312               |
| BACKHOE: CAT 225                       |  | LOCATION: Sta. 1891+250 o/s 75m Lt.        | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|  |  |  | <input type="checkbox"/> BULK             |
|  |  |  | <input type="checkbox"/> TUBE             |
|  |  |  | <input type="checkbox"/> CORE             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|---|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|-----------|
|           |   |             |           | 20              | 40 | 60 |     |             | 80             | 20 |                  |           |
| 0.0       | SANDY GRAVEL<br>-gray<br>-damp<br>-maximum 100mm material |             |           |                 |    |    |     |             |                |    |                  | 0.0       |
| 1.0       | SAND<br>-gray<br>-damp<br>-caving in                      |             |           |                 |    |    |     |             |                |    |                  | 1.0       |
| 2.0       |   |             |           |                 |    |    |     |             |                |    |                  | 2.0       |
| 3.0       | END HOLE at 3.0m  |             |           |                 |    |    |     |             |                |    |                  | 3.0       |
| 4.0       |   |             |           |                 |    |    |     |             |                |    |                  | 4.0       |
| 5.0       |   |             |           |                 |    |    |     |             |                |    |                  | 5.0       |
| 6.0       |   |             |           |                 |    |    |     |             |                |    |                  | 6.0       |

Government of Yukon  
Transportation Engineering

|               |                         |
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| LOGGED BY: DA | COMPLETION DEPTH: 3.0 m |
| REVIEWED BY:  | COMPLETE: 94/08/24      |
| Fig. No:      | Page 1 of 1             |

|  |                                      |                             |
|--|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                      | TEST PIT NO: 317-47         |
| ENGINEERING-CAPITAL                    | SEGMENT 16                           | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1891+275 o/s 125m Lt. | ELEVATION: 0.00 (m)         |

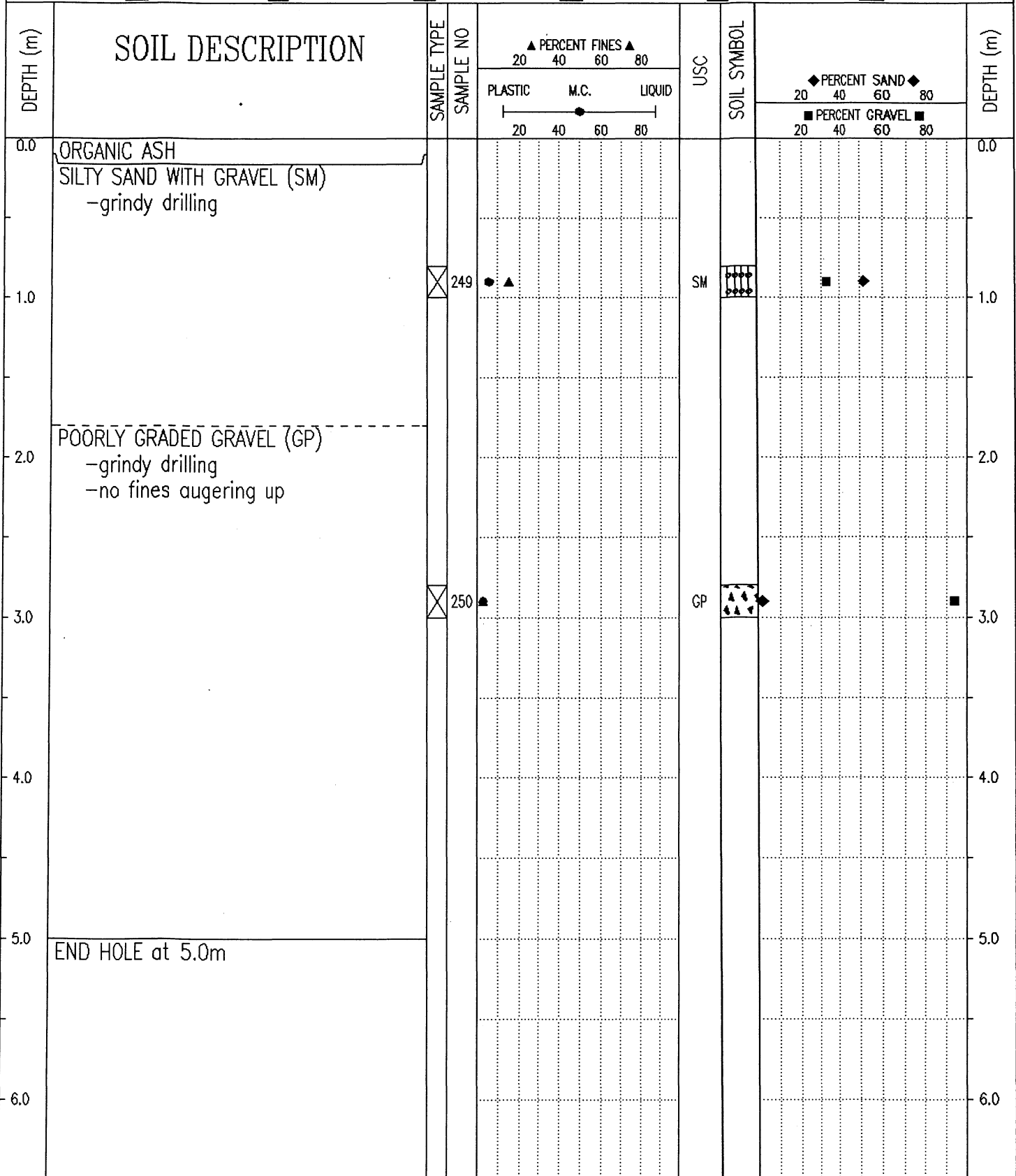
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND / GRAVEL |                |     | DEPTH (m) |
|-----------|--|-------------|-----------|---------------|------|--------|-----|-------------|-----------------------|----------------|-----|-----------|
|           |  |             |           | PLASTIC       | M.C. | LIQUID |     |             | PERCENT SAND          | PERCENT GRAVEL |     |           |
| 0.0       | SILTY SAND<br>-dark brown<br>-damp<br>-maximum 25mm material                                     |             |           |               |      |        |     |             |                       |                | 0.0 |           |
| 2.0       | WELL-GRADED GRAVEL WITH SAND (GW)<br>-dark gray<br>-damp<br>-maximum 75mm material<br>-caving in |             | 37        | ▲             |      |        | GW  | ▲▲▲▲        | ◆                     | ■              | 2.0 |           |
| 3.2       | END HOLE at 3.2m   |             |           |               |      |        |     |             |                       |                | 3.2 |           |

Government of Yukon  
Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: DA | COMPLETION DEPTH: 3.2 m |
| REVIEWED BY:  | COMPLETE: 94/08/25      |
| Fig. No:      | Page 1 of 1             |

|  |                                |                             |
|--|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 246-95        |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: Sta. 1891+300        | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |

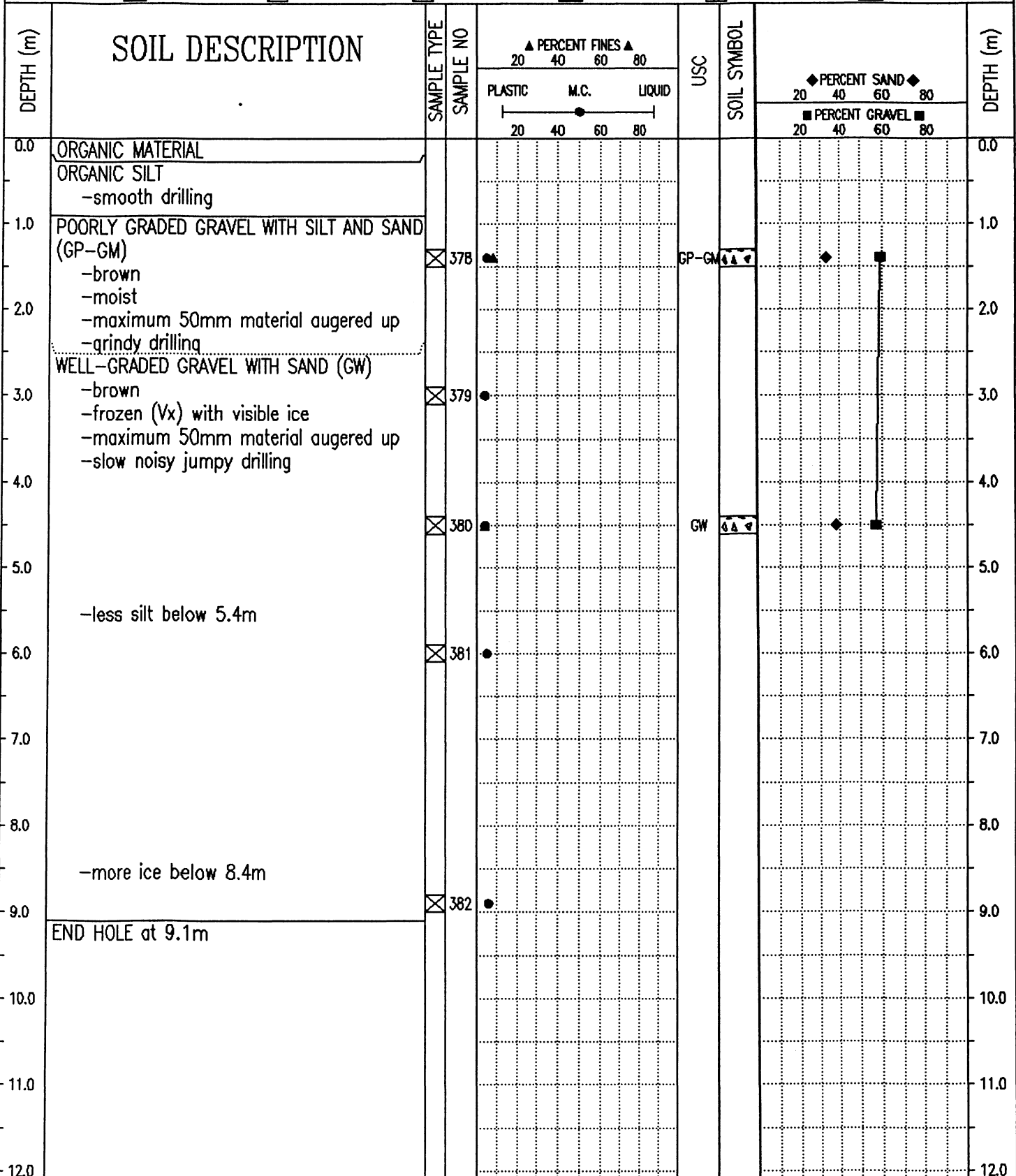


Government of Yukon  
Transportation Engineering

LOGGED BY: TF  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 93/09/17

|   |                                     |                             |
|---|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  | SHAKWAK PROJECT                     | TEST PIT NO: 331-246        |
| ENGINEERING-CAPITAL   | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER  | LOCATION: Sta. 1891+300 o/s 20m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |

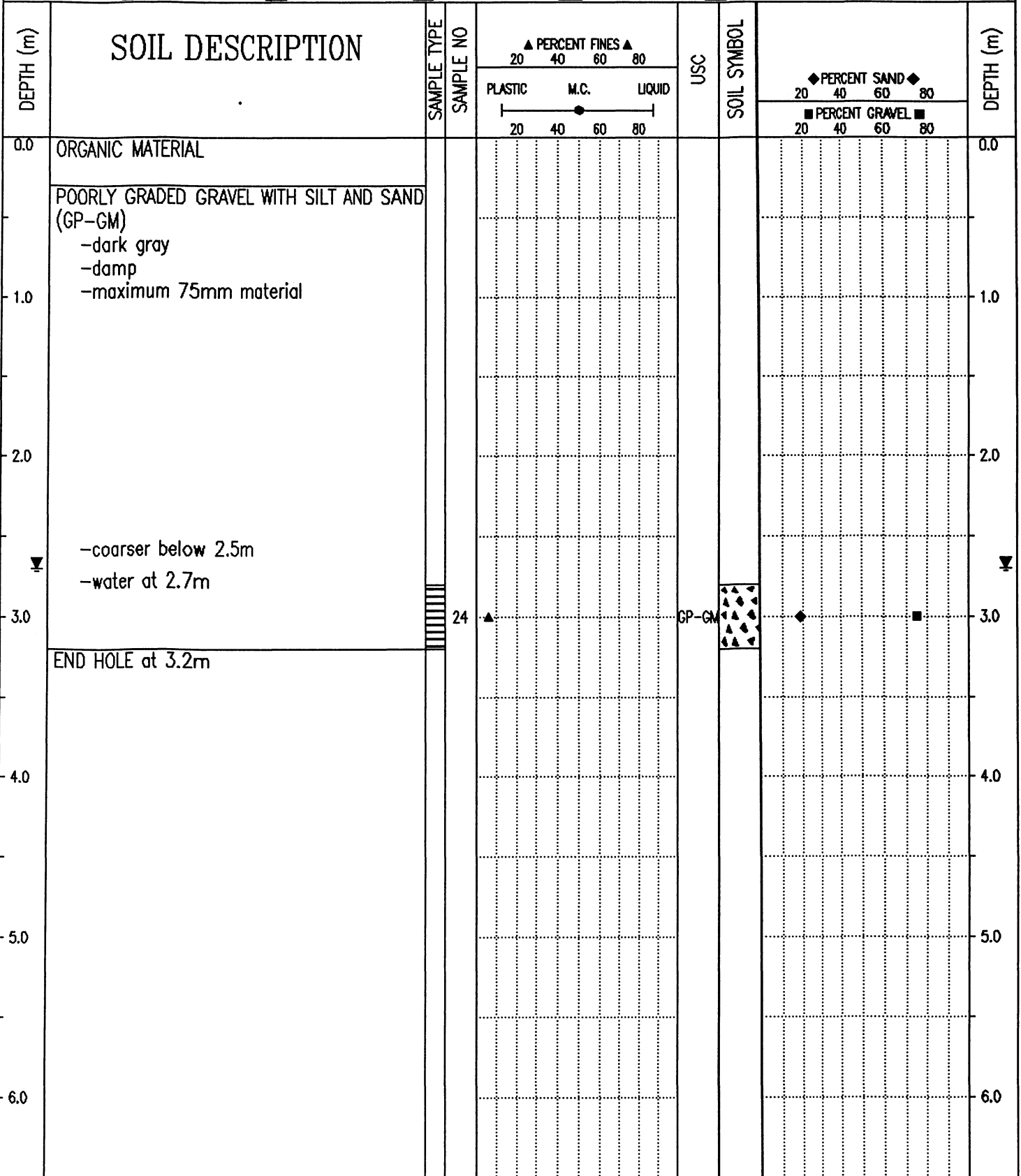


Government of Yukon  
Transportation Engineering

LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 9.1 m  
COMPLETE: 94/09/12

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | SHAKWAK PROJECT                     | TEST PIT NO: 317-19         |
| ENGINEERING-CAPITAL  | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   | LOCATION: Sta. 1891+325 o/s 25m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                     |                             |



Government of Yukon  
Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: DA | COMPLETION DEPTH: 3.2 m |
| REVIEWED BY:  | COMPLETE: 94/08/18      |
| Fig. No:      | Page 1 of 1             |

|   |  |                                     |                             |
|---|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  |  | SHAKWAK PROJECT                     | TEST HOLE NO: 321-203       |
| ENGINEERING-CAPITAL   |  | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER  |  | LOCATION: Sta. 1891+325 o/s 30m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND |    |    | PERCENT GRAVEL |    |     | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|---------------|------|--------|-----|-------------|--------------|----|----|----------------|----|-----|-----------|
|           |   |                                     |           | PLASTIC       | M.C. | LIQUID |     |             | 20           | 40 | 60 | 80             | 20 | 40  |           |
| 0.0       | ORGANIC MATERIAL<br>SILT<br>-brown<br>-frozen (Nb)<br>-some sand<br>-smooth drilling  | <input checked="" type="checkbox"/> | 213       |               |      |        |     |             |              |    |    |                |    | 0.0 |           |
| 2.0       | SANDY GRAVEL<br>-brown<br>-frozen (Vx) with visible ice<br>-trace of silt<br>-maximum 50mm material augered up<br>-grindy drilling<br>-first refusal at 1.2m<br>-sample #213 not tested<br>-very slow noisy jumpy drilling below 1.6m<br>-sample #214 not tested<br>-sample #215 not tested | <input checked="" type="checkbox"/> | 214       |               |      |        |     |             |              |    |    |                |    | 2.0 |           |
| 3.0       |   | <input checked="" type="checkbox"/> | 215       |               |      |        |     |             |              |    |    |                |    | 3.0 |           |
| 4.0       |   | <input checked="" type="checkbox"/> | 215A      |               |      |        |     |             |              |    |    |                |    | 4.0 |           |
| 5.0       |   |                                     |           |               |      |        |     |             |              |    |    |                |    | 5.0 |           |
| 6.0       |   |                                     |           |               |      |        |     |             |              |    |    |                |    | 6.0 |           |
| 7.0       |   |                                     |           |               |      |        |     |             |              |    |    |                |    | 7.0 |           |
| 8.0       |   |                                     |           |               |      |        |     |             |              |    |    |                |    | 8.0 |           |
| 9.0       |   |                                     |           |               |      |        |     |             |              |    |    |                |    | 9.0 |           |
| 9.2       | -sample #216 not tested<br>END HOLE at 9.2m   | <input checked="" type="checkbox"/> | 216       |               |      |        |     |             |              |    |    |                |    | 9.2 |           |

Government of Yukon  
Transportation Engineering

LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 9.2 m  
COMPLETE: 94/08/30

|   |  |                                     |                             |
|---|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  |  | SHAKWAK PROJECT                     | TEST PIT NO: 317-20         |
| ENGINEERING-CAPITAL   |  | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225  |  | LOCATION: Sta. 1891+345 o/s 20m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|--|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|-----------|
|           |  |             |           | 20              | 40 | 60 |     |             | 80             | 20 |           |
| 0.0       | ORGANIC MATERIAL   |             |           |                 |    |    |     |             |                |    | 0.0       |
|           | SILT<br>-brown<br>-damp  |             |           |                 |    |    |     |             |                |    |           |
| 1.0       | SANDY GRAVEL<br>-gray<br>-damp<br>-maximum 75mm material<br>-caving in |             |           |                 |    |    |     |             |                |    | 1.0       |
| 2.0       |  |             |           |                 |    |    |     |             |                |    | 2.0       |
| 3.0       | -some cobbles at 2.5m  |             |           |                 |    |    |     |             |                |    | 3.0       |
| 4.0       | END HOLE at 3.4m   |             |           |                 |    |    |     |             |                |    | 4.0       |
| 5.0       |  |             |           |                 |    |    |     |             |                |    | 5.0       |
| 6.0       |  |             |           |                 |    |    |     |             |                |    | 6.0       |

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Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.4 m  
COMPLETE: 94/08/19

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST HOLE NO: 331-247       |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: Sta. 1891+375 o/s 20m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆   |      | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-----------------|------|--------|-----|-------------|------------------|------|-----------|
|           |  |                                     |           | PLASTIC         | M.C. | LIQUID |     |             | PERCENT GRAVEL ■ |      |           |
| 0.0       | ORGANIC MATERIAL<br>ORGANIC SILT<br>-smooth drilling   |                                     |           |                 |      |        |     |             |                  | 0.0  |           |
| 1.0       | SANDY GRAVEL<br>-brown<br>-moist<br>-some silt   | <input checked="" type="checkbox"/> | 383       |                 |      |        |     |             |                  | 1.0  |           |
| 2.0       | -maximum 50mm material augered up<br>-grindy drilling<br>-sample #383 not tested<br>-frozen (Vx) with visible ice below 2.1m | <input checked="" type="checkbox"/> | 384       |                 |      |        |     |             |                  | 2.0  |           |
| 3.0       | -slow noisy jumpy drilling below 2.1m<br>-sample #384 not tested   | <input checked="" type="checkbox"/> | 385       |                 |      |        |     |             |                  | 3.0  |           |
| 4.0       |  | <input checked="" type="checkbox"/> | 386       |                 |      |        |     |             |                  | 4.0  |           |
| 5.0       | -sample #385 not tested  | <input checked="" type="checkbox"/> | 387       |                 |      |        |     |             |                  | 5.0  |           |
| 6.0       | -sample #386 not tested  | <input checked="" type="checkbox"/> |           |                 |      |        |     |             |                  | 6.0  |           |
| 7.0       |  |                                     |           |                 |      |        |     |             |                  | 7.0  |           |
| 8.0       | -more silt below 8.4m  |                                     |           |                 |      |        |     |             |                  | 8.0  |           |
| 9.0       | -sample #387 not tested  | <input checked="" type="checkbox"/> | 387       |                 |      |        |     |             |                  | 9.0  |           |
| 10.0      | END HOLE at 9.1m   |                                     |           |                 |      |        |     |             |                  | 10.0 |           |

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REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 9.1 m

COMPLETE: 94/09/12

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| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                            | TEST PIT NO: 317-18                        |
| ENGINEERING-CAPITAL                    | SEGMENT 16                                 | Project No: 092-202101-0312                |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1891+375 o/s 25m Lt.        | ELEVATION: 0.00 (m)                        |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. |
|  | <input checked="" type="checkbox"/> AUGER  | <input type="checkbox"/> BULK              |
|  | <input type="checkbox"/> TUBE              | <input type="checkbox"/> CORE              |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND   |  |     | DEPTH (m) |
|-----------|---|-------------|-----------|---------------|------|--------|-----|-------------|----------------|--|-----|-----------|
|           |   |             |           | PLASTIC       | M.C. | LIQUID |     |             | PERCENT GRAVEL |  |     |           |
| 0.0       | ORGANIC MATERIAL  |             |           |               |      |        |     |             |                |  | 0.0 |           |
| 0.0 - 1.0 | SANDY GRAVEL<br>-gray<br>-damp<br>-maximum 150mm material |             |           |               |      |        |     |             |                |  | 1.0 |           |
| 1.0 - 2.0 |   |             |           |               |      |        |     |             |                |  | 2.0 |           |
| 2.0 - 3.0 |   |             |           |               |      |        |     |             |                |  | 3.0 |           |
| 3.0       | -frozen below 2.5m<br>-sample #23 not tested              |             | 23        |               |      |        |     |             |                |  | 3.0 |           |
| 3.0 - 4.0 | END HOLE at 3.0m  |             |           |               |      |        |     |             |                |  | 4.0 |           |
| 4.0 - 5.0 |   |             |           |               |      |        |     |             |                |  | 5.0 |           |
| 5.0 - 6.0 |   |             |           |               |      |        |     |             |                |  | 6.0 |           |

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Transportation Engineering

LOGGED BY: DA

REVIEWED BY:

Fig. No:

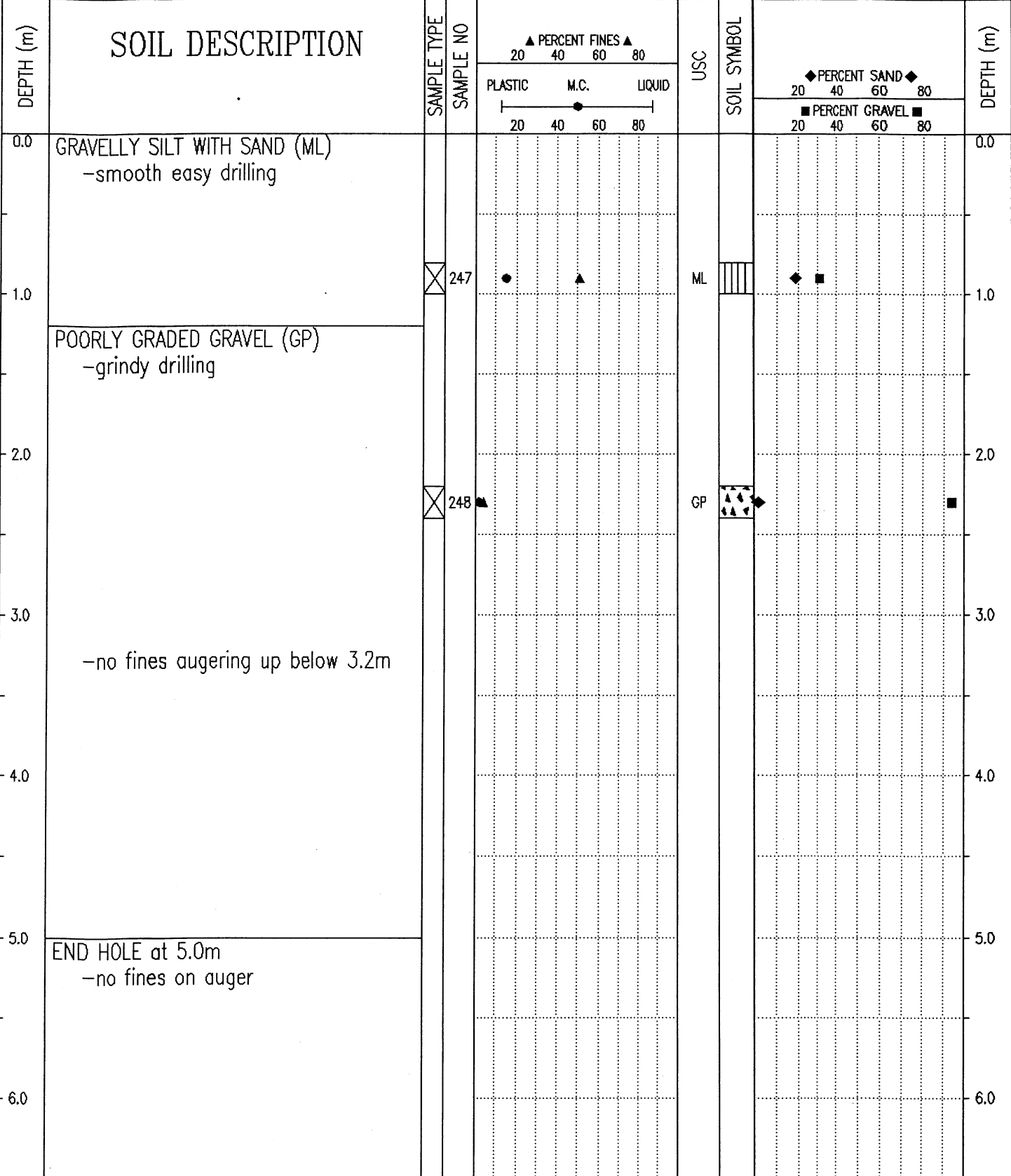
COMPLETION DEPTH: 3.0 m

COMPLETE: 94/08/18

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|   |                                |                             |
|---|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 246-94        |
| SHAKWAK PROJECT                           | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: Sta. 1891+400        | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 5.0 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/17      |
|   | Fig. No:      | Page 1 of 1             |

|  |  |  |   |
|--|--|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT |  | SHAKWAK PROJECT                            | TEST HOLE NO: 321-202                     |
| ENGINEERING-CAPITAL                    |  | SEGMENT 16                                 | Project No: 092-202101-0312               |
| DRILL: B40L 150mm SOLID STEM AUGER     |  | LOCATION: Sta. 1891+400 o/s 20m Rt.        | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|  |  |  | <input type="checkbox"/> BULK             |
|  |  |  | <input type="checkbox"/> TUBE             |
|  |  |  | <input type="checkbox"/> CORE             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND & GRAVEL |                | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|---------------|------|--------|-----|-------------|-----------------------|----------------|-----------|
|           |   |                                     |           | PLASTIC       | M.C. | LIQUID |     |             | PERCENT SAND          | PERCENT GRAVEL |           |
| 0.0       | SANDY GRAVEL<br>-brown<br>-damp<br>-trace of silt<br>-maximum 50mm material augered up<br>-sample #208 not tested | <input checked="" type="checkbox"/> | 208       |               |      |        |     |             |                       | 0.0            |           |
| 3.0       | -sample #209 not tested   | <input checked="" type="checkbox"/> | 209       |               |      |        |     |             |                       | 3.0            |           |
| 5.0       | -sample #210 not tested<br>-harder drilling below 5.2m  | <input checked="" type="checkbox"/> | 210       |               |      |        |     |             |                       | 5.0            |           |
| 6.0       | -sample #211 not tested   | <input checked="" type="checkbox"/> | 211       |               |      |        |     |             |                       | 6.0            |           |
| 9.0       | -frozen (Vx) with visible ice below 8.2m<br>-very hard slow drilling below 8.2m<br>-sample #212 not tested        | <input checked="" type="checkbox"/> | 212       |               |      |        |     |             |                       | 9.0            |           |
|           | END HOLE at 9.2m  |                                     |           |               |      |        |     |             |                       |                |           |

Government of Yukon  
Transportation Engineering

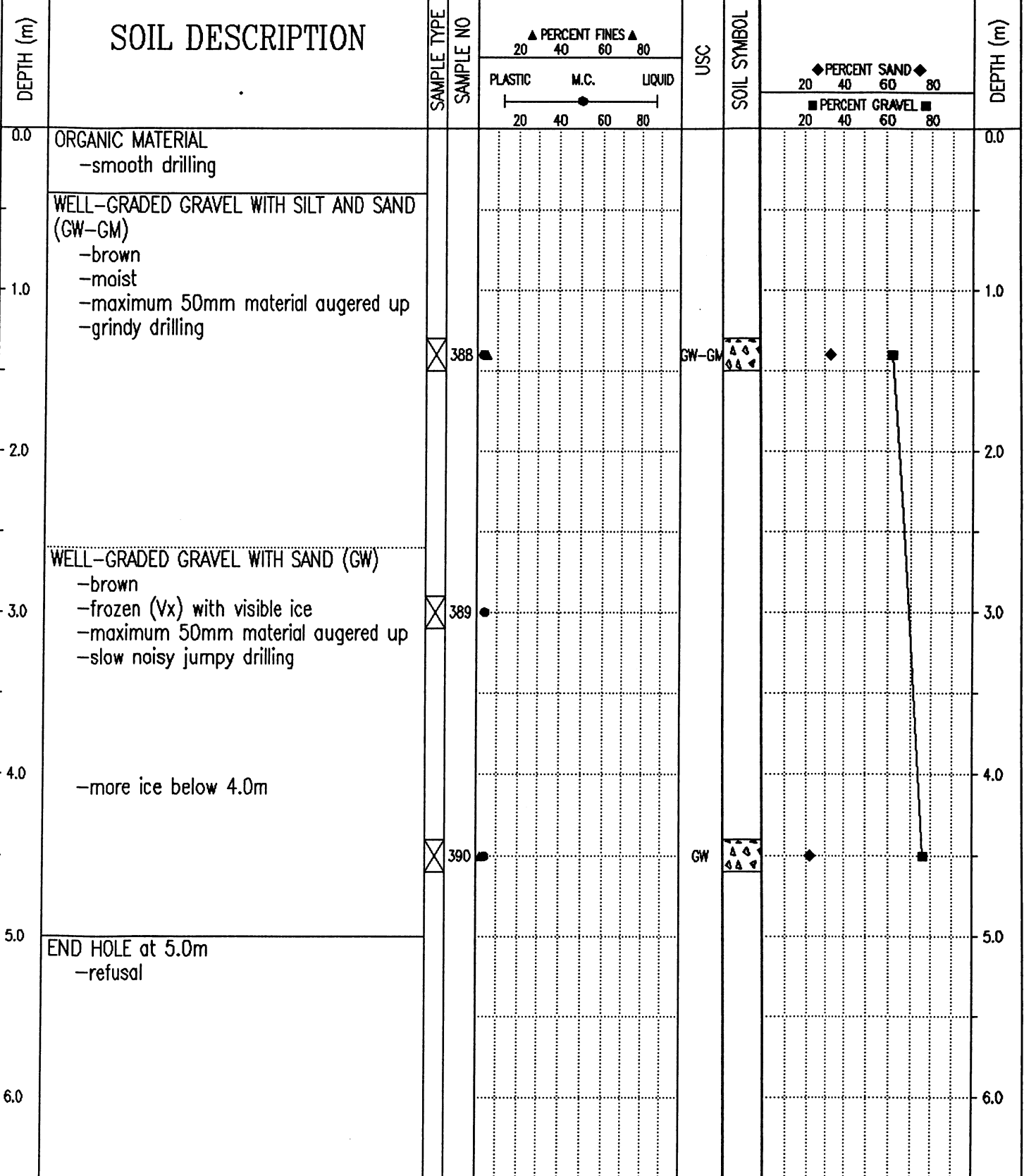
LOGGED BY: DT  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 9.2 m  
COMPLETE: 94/08/30

SAMPLE TYPE  RETURN     S.P.T.     AUGER     BULK     TUBE     CORE

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲<br>20 40 60 80<br>PLASTIC      M.C.      LIQUID<br> -----●----- <br>20 40 60 80 | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆<br>20 40 60 80<br>■ PERCENT GRAVEL ■<br>20 40 60 80 | DEPTH (m) |
|-----------|---|-------------|-----------|---|-----|-------------|--|-----------|
| 0.0       | SILTY GRAVEL<br>-dark brown<br>-damp<br>-maximum 50mm material      |             |           |   |     |             |  | 0.0       |
| 1.0       | ORGANIC SILT  |             |           |   |     |             |  | 1.0       |
| 2.0       | SANDY GRAVEL WITH SILT<br>-brown<br>-damp<br>-sample #25 not tested |             | 25        |   |     |             |  | 2.0       |
| 3.0       | -caving in below 2.6m   |             |           |   |     |             |  | 3.0       |
| 4.0       | END HOLE at 4.0m  |             |           |   |     |             |  | 4.0       |
| 5.0       |   |             |           |   |     |             |  | 5.0       |
| 6.0       |   |             |           |   |     |             |  | 6.0       |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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Transportation Engineering

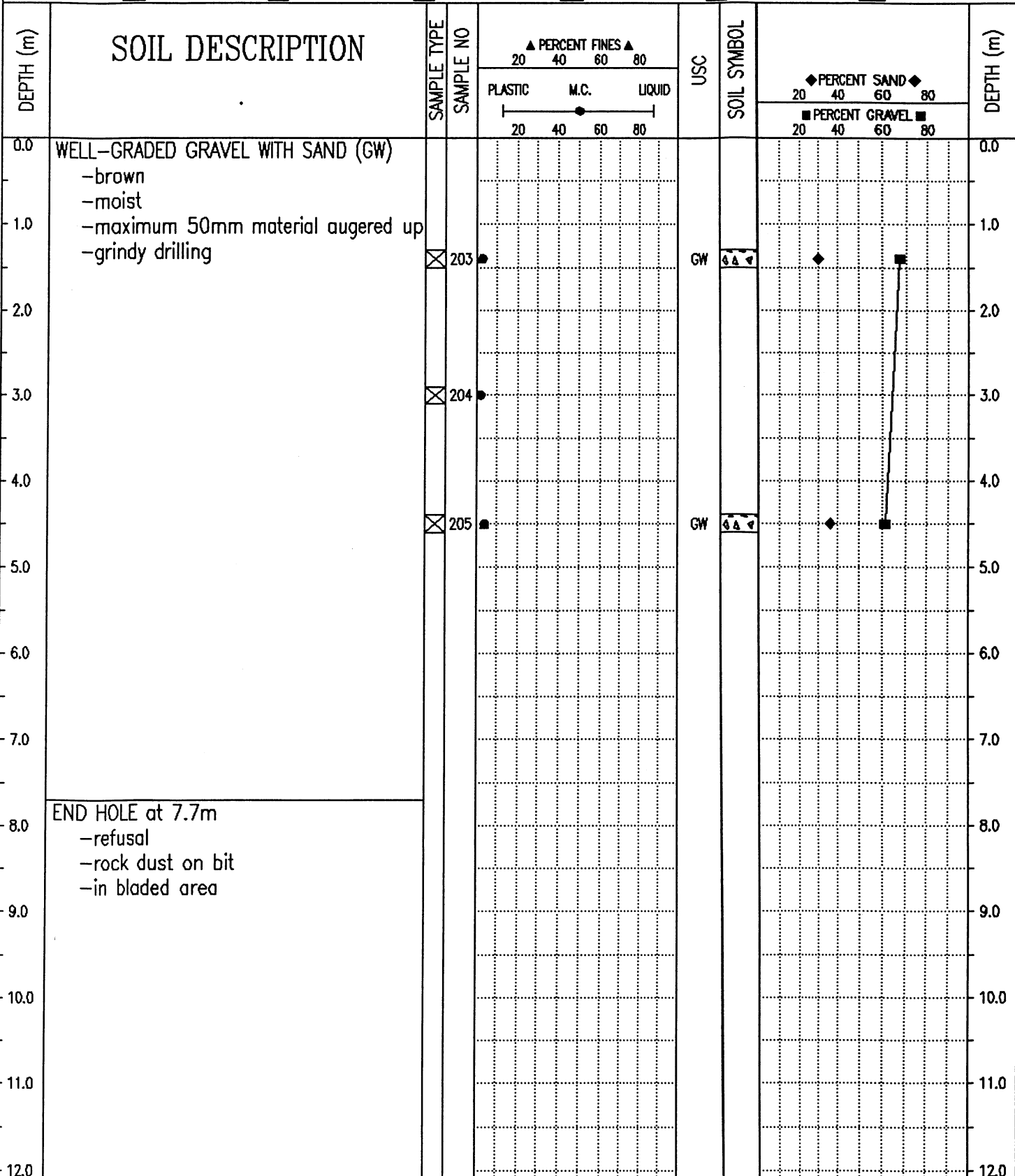
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|---------------|-------------------------|
| LOGGED BY: DT | COMPLETION DEPTH: 5.0 m |
| REVIEWED BY:  | COMPLETE: 94/09/12      |
| Fig. No:      | Page 1 of 1             |

|  |  |  |
|--|--|--|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                            | TEST PIT NO: 317-17                        |
| ENGINEERING-CAPITAL                    | SEGMENT 16                                 | Project No: 092-202101-0312                |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1891+450 o/s 25m Lt.        | ELEVATION: 0.00 (m)                        |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. |
|  | <input checked="" type="checkbox"/> AUGER  | <input type="checkbox"/> BULK              |
|  | <input type="checkbox"/> TUBE              | <input type="checkbox"/> CORE              |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|---|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|----|-----------|
|           |   |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 | 60 |           |
| 0.0       | ORGANIC MATERIAL  |             |           |                 |      |        |     |             |                |    |    | 0.0       |
| 0.0 - 1.0 | SANDY GRAVEL<br>-gray<br>-damp<br>-maximum 75mm material<br>-odd cobble |             |           |                 |      |        |     |             |                |    |    | 1.0       |
| 1.0 - 2.0 |   |             |           |                 |      |        |     |             |                |    |    | 2.0       |
| 2.0 - 3.0 | -sample #22 not tested  |             | 22        |                 |      |        |     |             |                |    |    | 3.0       |
| 3.0 - 4.0 | -frozen below 2.5m  |             |           |                 |      |        |     |             |                |    |    | 4.0       |
| 4.0 - 5.0 | -frozen with visible ice below 3.0m                                     |             |           |                 |      |        |     |             |                |    |    | 5.0       |
| 5.0 - 6.0 | END HOLE at 3.2m  |             |           |                 |      |        |     |             |                |    |    | 6.0       |

|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 3.2 m |
|   | REVIEWED BY:  | COMPLETE: 94/08/18      |
|   | Fig. No:      | Page 1 of 1             |

|   |  |   |
|---|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT      | SHAKWAK PROJECT                            | TEST PIT NO: 321-201                      |
| ENGINEERING-CAPITAL                         | SEGMENT 16                                 | Project No: 092-202101-0312               |
| DRILL: B40L 150mm SOLID STEM AUGER          | LOCATION: Sta. 1891+475 o/s 25m Rt.        | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE <input type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|   | <input type="checkbox"/> BULK              | <input type="checkbox"/> TUBE             |
|   |  | <input type="checkbox"/> CORE             |

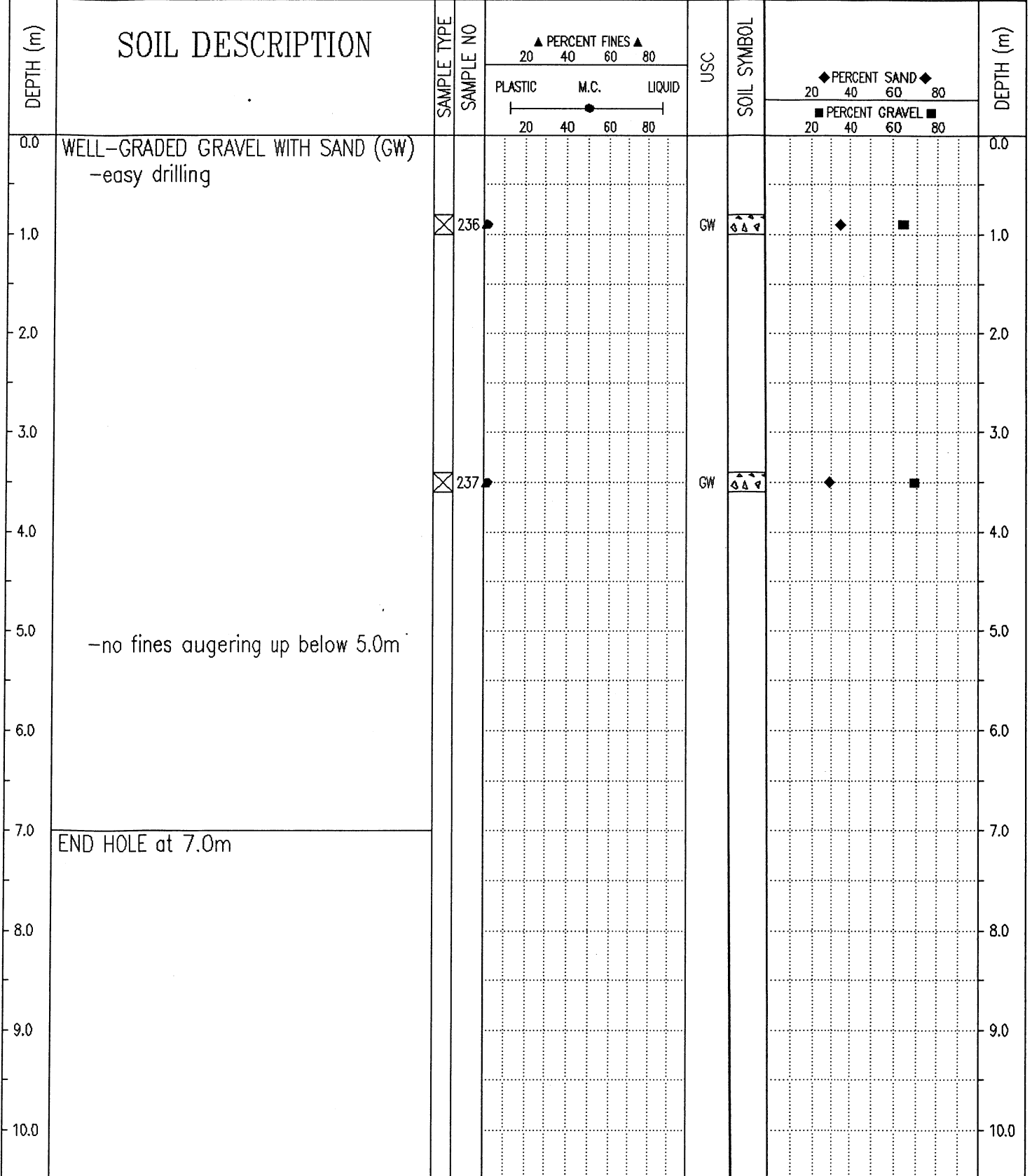


Government of Yukon  
Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: DT | COMPLETION DEPTH: 7.7 m |
| REVIEWED BY:  | COMPLETE: 94/08/30      |
| Fig. No:      | Page 1 of 1             |

|   |                                |                             |
|---|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 246-91        |
| SHAKWAK PROJECT                           | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: STA 1891+500         | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



Government of Yukon  
Transportation Engineering

|               |                         |
|---------------|-------------------------|
| LOGGED BY: TF | COMPLETION DEPTH: 7.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/17      |
| Fig. No:      | Page 1 of 1             |

|  |  |                                     |                             |
|--|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   |  | SHAKWAK PROJECT                     | TEST PIT NO: 317-22         |
| ENGINEERING-CAPITAL  |  | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   |  | LOCATION: Sta. 1891+500 o/s 12m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE | SAMPLE NO. | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | DEPTH (m) |
|-----------|--|-------------|------------|-----------------|------|--------|-----|-------------|----------------|----|-----------|
|           |  |             |            | 20              | 40   | 60     |     |             | 80             | 20 |           |
|           |  |             |            | PLASTIC         | M.C. | LIQUID |     |             |                |    |           |
|           |  |             |            | 20              | 40   | 60     | 80  | 20          | 40             | 60 | 80        |
| 0.0       | SILTY GRAVEL<br>-light brown<br>-dry                               |             |            |                 |      |        |     |             |                |    | 0.0       |
| 1.0       | SANDY GRAVEL<br>-brown to gray<br>-damp<br>-maximum 100mm material |             |            |                 |      |        |     |             |                |    | 1.0       |
| 2.0       | -caving in below 1.5m  |             |            |                 |      |        |     |             |                |    | 2.0       |
| 3.0       | -some angular 400mm material below 1.9m                            |             |            |                 |      |        |     |             |                |    | 3.0       |
| 4.0       | END HOLE at 3.2m   |             |            |                 |      |        |     |             |                |    | 4.0       |
| 5.0       |  |             |            |                 |      |        |     |             |                |    | 5.0       |
| 6.0       |  |             |            |                 |      |        |     |             |                |    | 6.0       |

Government of Yukon  
Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.2 m  
COMPLETE: 94/08/19

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST PIT NO: 317-16         |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1891+500 o/s 30m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND |    | PERCENT GRAVEL |     | DEPTH (m) |
|-----------|---|-------------|-----------|---------------|------|--------|-----|-------------|--------------|----|----------------|-----|-----------|
|           |   |             |           | PLASTIC       | M.C. | LIQUID |     |             | 20           | 40 | 60             | 80  |           |
| 0.0       | POORLY GRADED GRAVEL WITH SAND (GP)<br>-gray<br>-damp<br>-maximum 75mm material |             |           |               |      |        |     |             |              |    |                | 0.0 |           |
| 1.0       |   |             |           |               |      |        |     |             |              |    |                | 1.0 |           |
| 2.0       | -some cobbles below 1.7m<br>-caving in below 2.0m                               |             | 21        |               |      |        | GP  | ▲           | ◆            | ■  |                | 2.0 |           |
| 3.0       | END HOLE at 3.0m<br>-caving in  |             |           |               |      |        |     |             |              |    |                | 3.0 |           |
| 4.0       |   |             |           |               |      |        |     |             |              |    |                | 4.0 |           |
| 5.0       |   |             |           |               |      |        |     |             |              |    |                | 5.0 |           |
| 6.0       |   |             |           |               |      |        |     |             |              |    |                | 6.0 |           |

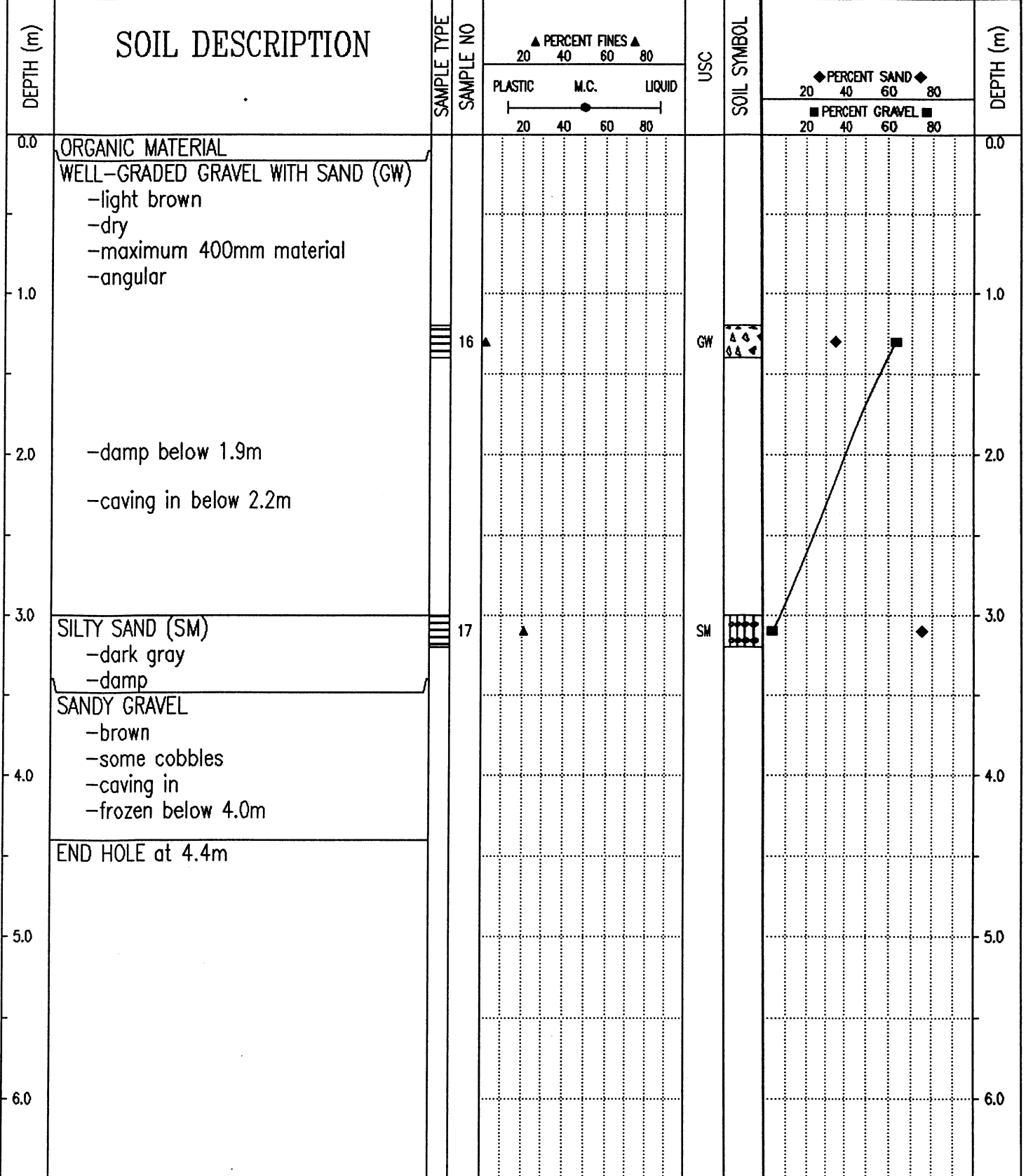
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Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.0 m  
COMPLETE: 94/08/18

|  |                                     |                             |
|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT                     | TEST PIT NO: 317-14         |
| ENGINEERING-CAPITAL                    | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225                       | LOCATION: Sta. 1891+540 o/s 10m Rt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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Fig. No:

COMPLETION DEPTH: 4.4 m  
COMPLETE: 94/08/18

|  |  |  |   |
|--|--|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT |  | SHAKWAK PROJECT                            | TEST HOLE NO: 321-200                     |
| ENGINEERING-CAPITAL                    |  | SEGMENT 16                                 | Project No: 092-202101-0312               |
| DRILL: B40L 150mm SOLID STEM AUGER     |  | LOCATION: Sta. 1891+550 o/s 25m Rt.        | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|  |  |  | <input type="checkbox"/> BULK             |
|  |  |  | <input type="checkbox"/> TUBE             |
|  |  |  | <input type="checkbox"/> CORE             |

| DEPTH (m) | SOIL DESCRIPTION                      | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|---------------------------------------|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|----|-----------|
|           |                                       |             |           | 20              | 40 | 60 |     |             | 80             | 20 | 40 |           |
| 0.0       | ORGANIC MATERIAL                      |             |           |                 |    |    |     |             |                |    |    | 0.0       |
|           | ORGANIC SILT                          |             |           |                 |    |    |     |             |                |    |    |           |
|           | -brown                                |             |           |                 |    |    |     |             |                |    |    |           |
|           | -frozen (Nb)                          |             |           |                 |    |    |     |             |                |    |    |           |
|           | -smooth drilling                      |             |           |                 |    |    |     |             |                |    |    |           |
| 1.0       | SANDY GRAVEL                          |             |           |                 |    |    |     |             |                |    |    | 1.0       |
|           | -brown                                |             |           |                 |    |    |     |             |                |    |    |           |
|           | -frozen with visible ice (Vx)         |             |           |                 |    |    |     |             |                |    |    |           |
|           | -trace of silt                        |             |           |                 |    |    |     |             |                |    |    |           |
|           | -maximum 50mm augered up              |             |           |                 |    |    |     |             |                |    |    |           |
|           | -noisy grindy drilling                |             |           |                 |    |    |     |             |                |    |    |           |
|           | -sample #200 not tested               |             |           |                 |    |    |     |             |                |    |    |           |
| 2.0       |                                       |             |           |                 |    |    |     |             |                |    |    | 2.0       |
|           |                                       |             |           |                 |    |    |     |             |                |    |    |           |
| 3.0       |                                       |             |           |                 |    |    |     |             |                |    |    | 3.0       |
|           | -sample #201 not tested               |             |           |                 |    |    |     |             |                |    |    |           |
|           | -first refusal at 3.0m                |             |           |                 |    |    |     |             |                |    |    |           |
|           | -slow noisy jumpy drilling below 3.0m |             |           |                 |    |    |     |             |                |    |    |           |
|           | -second refusal at 3.2m               |             |           |                 |    |    |     |             |                |    |    |           |
|           | -sample #202 not tested               |             |           |                 |    |    |     |             |                |    |    |           |
| 4.0       |                                       |             |           |                 |    |    |     |             |                |    |    | 4.0       |
|           |                                       |             |           |                 |    |    |     |             |                |    |    |           |
| 5.0       |                                       |             |           |                 |    |    |     |             |                |    |    | 5.0       |
|           |                                       |             |           |                 |    |    |     |             |                |    |    |           |
| 6.0       |                                       |             |           |                 |    |    |     |             |                |    |    | 6.0       |
|           |                                       |             |           |                 |    |    |     |             |                |    |    |           |

END HOLE at 4.6m

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REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.6 m

COMPLETE: 94/08/30

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|  |  |                                     |                             |
|--|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   |  | SHAKWAK PROJECT                     | TEST PIT NO: 317-15         |
| ENGINEERING-CAPITAL  |  | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   |  | LOCATION: Sta. 1891+550 o/s 30m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND |    |    | PERCENT GRAVEL | DEPTH (m) |
|-----------|---|-------------|-----------|---------------|------|--------|-----|-------------|--------------|----|----|----------------|-----------|
|           |   |             |           | PLASTIC       | M.C. | LIQUID |     |             | 20           | 40 | 60 |                |           |
| 0.0       | SILTY GRAVEL<br>-dark brown<br>-damp<br>-maximum 75mm material<br><br>-sample #18 not tested                                |             | 18        |               |      |        |     |             |              |    |    | 0.0            |           |
| 2.0       | SANDY GRAVEL<br>-brown<br>-damp<br>-some silt<br>-maximum 50mm material<br>-caving in below 1.7m<br>-sample # 19 not tested |             | 19        |               |      |        |     |             |              |    |    | 2.0            |           |
| 4.0       | -gray below 3.4m<br>-maximum 75mm material below 3.4m<br>-caving in below 3.7m<br>-sample #20 not tested                    |             | 20        |               |      |        |     |             |              |    |    | 4.0            |           |
| 4.0       | SANDY SILT<br>-dark gray<br>-moist to wet<br>END HOLE at 4.4m   |             |           |               |      |        |     |             |              |    |    | 4.0            |           |
| 5.0       |   |             |           |               |      |        |     |             |              |    |    | 5.0            |           |
| 6.0       |   |             |           |               |      |        |     |             |              |    |    | 6.0            |           |

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|               |                         |
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| LOGGED BY: DA | COMPLETION DEPTH: 4.4 m |
| REVIEWED BY:  | COMPLETE: 94/08/18      |
| Fig. No:      | Page 1 of 1             |

|  |  |  |   |
|--|--|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT |  | SHAKWAK PROJECT                            | TEST HOLE NO: 331-249                     |
| ENGINEERING-CAPITAL                    |  | SEGMENT 16                                 | Project No: 092-202101-0312               |
| DRILL: B40L 150mm SOLID STEM AUGER     |  | LOCATION: Sta. 1891+550 o/s 40m Lt.        | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|  |  |  | <input type="checkbox"/> BULK             |
|  |  |  | <input type="checkbox"/> TUBE             |
|  |  |  | <input type="checkbox"/> CORE             |

| DEPTH (m) | SOIL DESCRIPTION   | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES ▲ |    |    | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|-----------|
|           |  |                                     |           | 20              | 40 | 60 |     |             | 80             | 20 |                  |           |
| 0.0       | SANDY GRAVEL<br>-brown<br>-moist<br>-some silt<br>-maximum 50mm material augered up<br>-grindy drilling<br>-sample #391 not tested   | <input checked="" type="checkbox"/> | 391       |                 |    |    |     |             |                |    |                  | 0.0       |
| 2.0       | ORGANIC MATERIAL<br>-smooth drilling<br><br>-sample #392 not tested  | <input checked="" type="checkbox"/> | 392       |                 |    |    |     |             |                |    |                  | 2.0       |
| 4.0       | GRAVELLY SAND<br>-brown<br>-moist<br>-some silt<br>-grindy drilling<br>-sample #393 not tested<br><br>-frozen (Vx) with visible ice below 5.2m<br>-slow noisy jumpy drilling below 5.2m<br>-sample #394 not tested | <input checked="" type="checkbox"/> | 393       |                 |    |    |     |             |                |    |                  | 4.0       |
| 6.0       |  | <input checked="" type="checkbox"/> | 394       |                 |    |    |     |             |                |    |                  | 6.0       |
| 9.0       | END HOLE at 9.1m<br>-hole on old highway   |                                     |           |                 |    |    |     |             |                |    |                  | 9.0       |
| 10.0      |  |                                     |           |                 |    |    |     |             |                |    |                  | 10.0      |

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COMPLETION DEPTH: 9.1 m  
COMPLETE: 94/09/12

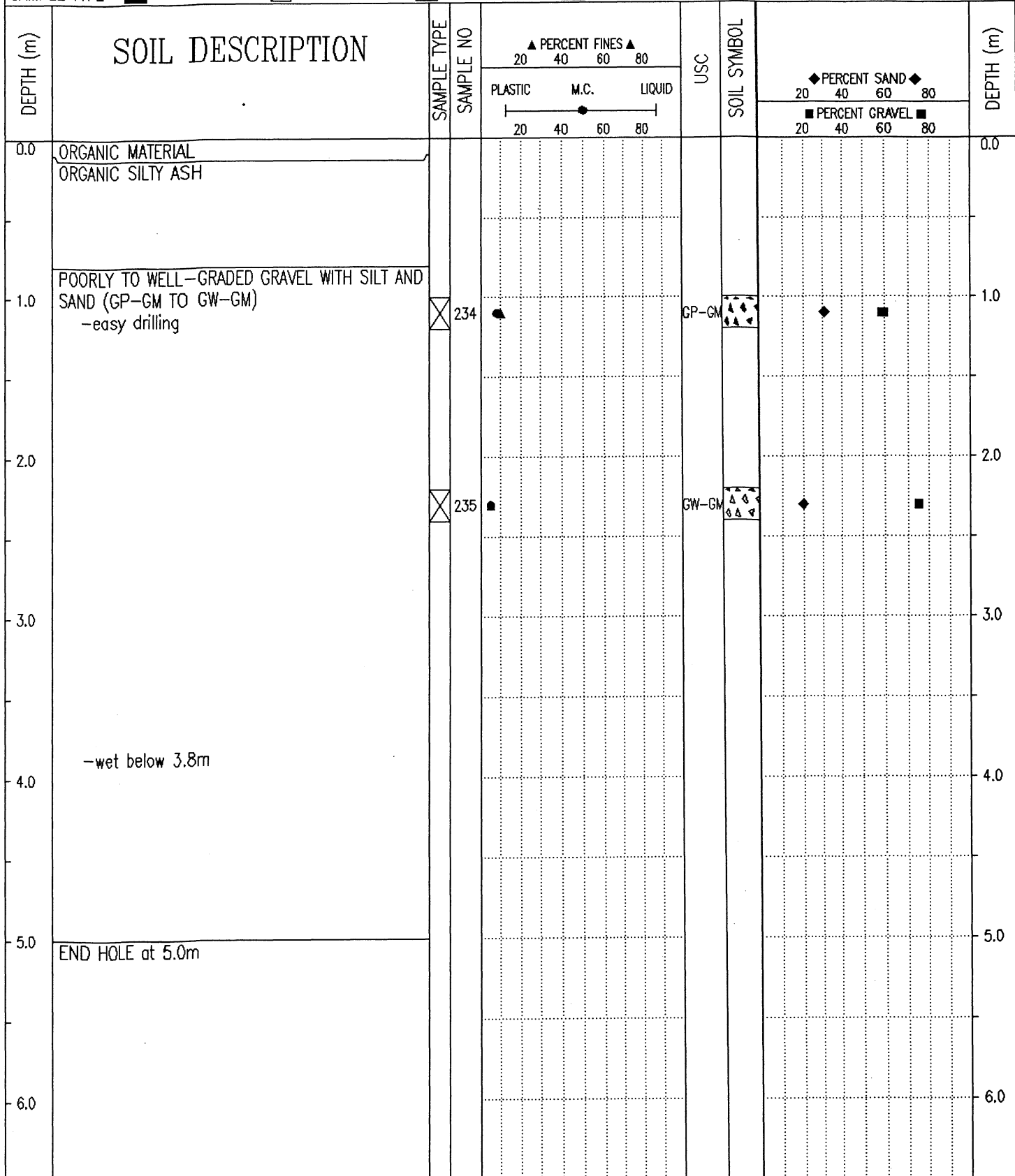
| SUBSURFACE EXPLORATION AND TEST REPORT                 |  | ALASKA HIGHWAY PRE-ENGINEERING             |           | TEST HOLE NO: 246-93                      |      |        |       |             |              |    |                |      |           |
|--|--|--|-----------|---|------|--------|-------|-------------|--------------|----|----------------|------|-----------|
| SHAKWAK PROJECT  |  | SEGMENT 16                                 |           | Project No: 202101-0312-193               |      |        |       |             |              |    |                |      |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER              |  | LOCATION: See Plan 1891+590 % 60m Lt       |           | ELEVATION: 0.00 (m)                       |      |        |       |             |              |    |                |      |           |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN |  | <input checked="" type="checkbox"/> S.P.T. |           | <input checked="" type="checkbox"/> AUGER |      |        |       |             |              |    |                |      |           |
|  |  | <input type="checkbox"/> BULK              |           | <input type="checkbox"/> TUBE             |      |        |       |             |              |    |                |      |           |
|  |  |  |           | <input type="checkbox"/> CORE             |      |        |       |             |              |    |                |      |           |
| DEPTH (m)  | SOIL DESCRIPTION   | SAMPLE TYPE                                | SAMPLE NO | PERCENT FINES                             |      |        | USC   | SOIL SYMBOL | PERCENT SAND |    | PERCENT GRAVEL |      | DEPTH (m) |
|  |  |  |           | PLASTIC                                   | M.C. | LIQUID |       |             | 20           | 40 | 60             | 80   |           |
| 0.0  | ORGANIC MATERIAL<br>POORLY GRADED GRAVEL WITH SILT (GP-GM)                     |  |           |   |      |        |       |             |              |    |                | 0.0  |           |
| 1.0  | -grindy drilling below 0.6m<br>-smooth drilling below 0.9m                     | <input checked="" type="checkbox"/>        | 243       | ▲   |      |        | GP-GM | ▲▲▲         | ◆            |    | ■              | 1.0  |           |
| 2.0  | -grindy drilling below 2.1m<br>-cobbles at 2.4m<br>-smooth drilling below 2.6m |  |           |   |      |        |       |             |              |    |                | 2.0  |           |
| 3.0  | POORLY GRADED GRAVEL (GP)  |  |           |   |      |        |       |             |              |    |                | 3.0  |           |
| 4.0  | -smooth drilling   |  |           |   |      |        |       |             |              |    |                | 4.0  |           |
| 5.0  | -smooth easy drilling below 5.0m<br>-good return of material below 5.4m        | <input checked="" type="checkbox"/>        | 244       | ▲   |      |        | GP    | ▲▲▲         | ◆            |    | ■              | 5.0  |           |
| 6.0  | POORLY GRADED GRAVEL WITH SAND (GP)  |  |           |   |      |        |       |             |              |    |                | 6.0  |           |
| 7.0  | -smooth easy drilling<br>-good return of material                              | <input checked="" type="checkbox"/>        | 245       | ▲   |      |        | GP    | ▲▲▲         | ◆            |    | ■              | 7.0  |           |
| 8.0  | POORLY GRADED SAND WITH GRAVEL (SP)  |  |           |   |      |        |       |             |              |    |                | 8.0  |           |
| 9.0  | -smooth easy drilling<br>-good return of material                              | <input checked="" type="checkbox"/>        | 246       | ▲   |      |        | SP    | ○○○○        | ■            |    | ◆              | 8.0  |           |
| 9.0  | END HOLE at 9.0m   |  |           |   |      |        |       |             |              |    |                | 9.0  |           |
| 10.0   |  |  |           |   |      |        |       |             |              |    |                | 10.0 |           |

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Fig. No:

COMPLETION DEPTH: 9.0 m  
COMPLETE: 93/09/17

|  |                                |                             |
|--|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 246-90        |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: STA 1891+600         | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |



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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 93/09/17

|  |  |  |   |
|--|--|--|---|
| SUBSURFACE EXPLORATION AND TEST REPORT |  | SHAKWAK PROJECT                            | TEST PIT NO: 317-43                       |
| ENGINEERING-CAPITAL                    |  | SEGMENT 16                                 | Project No: 092-202101-0312               |
| BACKHOE: CAT 225                       |  | LOCATION: Sta. 1891+600 o/s 50m Lt.        | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|  |  | <input type="checkbox"/> BULK              | <input type="checkbox"/> TUBE             |
|  |  |  | <input type="checkbox"/> CORE             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    |    | DEPTH (m) |
|-----------|---|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|----|-----------|
|           |   |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 | 60 |           |
| 0.0       | GRAVELLY SAND<br>-gray<br>-damp<br>-maximum 25mm material |             |           |                 |      |        |     |             |                |    |    | 0.0       |
| 1.0       |   |             |           |                 |      |        |     |             |                |    |    | 1.0       |
| 2.0       |   |             |           |                 |      |        |     |             |                |    |    | 2.0       |
| 3.0       | END HOLE at 3.0m  |             | 35        |                 |      |        |     |             |                |    |    | 3.0       |
| 4.0       |   |             |           |                 |      |        |     |             |                |    |    | 4.0       |
| 5.0       |   |             |           |                 |      |        |     |             |                |    |    | 5.0       |
| 6.0       |   |             |           |                 |      |        |     |             |                |    |    | 6.0       |

|   |               |                         |
|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: DA | COMPLETION DEPTH: 3.0 m |
|   | REVIEWED BY:  | COMPLETE: 94/08/24      |
|   | Fig. No:      | Page 1 of 1             |

| SUBSURFACE EXPLORATION AND TEST REPORT    |  | ALASKA HIGHWAY PRE-ENGINEERING         |           | TEST HOLE NO: 246-92        |      |        |     |             |              |    |    |           |
|---|--|--|-----------|-----------------------------|------|--------|-----|-------------|--------------|----|----|-----------|
| SHAKWAK PROJECT                           |  | SEGMENT 16                             |           | Project No: 202101-0312-193 |      |        |     |             |              |    |    |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |  | LOCATION: See Plan 1891+645 1/4 60m Lt |           | ELEVATION: 0.00 (m)         |      |        |     |             |              |    |    |           |
| SAMPLE TYPE                               |  | RETURN                                 |           | S.P.T.                      |      |        |     |             |              |    |    |           |
| SAMPLE TYPE                               |  | AUGER                                  |           | BULK                        |      |        |     |             |              |    |    |           |
| SAMPLE TYPE                               |  | TUBE                                   |           | CORE                        |      |        |     |             |              |    |    |           |
| DEPTH (m)                                 | SOIL DESCRIPTION   | SAMPLE TYPE                            | SAMPLE NO | PERCENT FINES               |      |        | USC | SOIL SYMBOL | PERCENT SAND |    |    | DEPTH (m) |
|   |  |  |           | PLASTIC                     | M.C. | LIQUID |     |             | 20           | 40 | 60 |           |
| 0.0                                       | ORGANIC MATERIAL<br>WELL TO POORLY GRADED GRAVEL WITH SAND<br>(GW TO GP)<br>-easy drilling |  |           |                             |      |        |     |             |              |    |    | 0.0       |
| 1.0                                       |  | ☒                                      | 238       |                             |      |        | GW  | ▲▲▲         | ◆            | ■  |    | 1.0       |
| 2.0                                       |  |  |           |                             |      |        |     |             |              |    |    | 2.0       |
| 3.0                                       |  | ☒                                      | 239       |                             |      |        | GW  | ▲▲▲         | ◆            | ■  |    | 3.0       |
| 4.0                                       |  |  |           |                             |      |        |     |             |              |    |    | 4.0       |
| 5.0                                       |  | ☒                                      | 240       |                             |      |        | GW  | ▲▲▲         | ◆            | ■  |    | 5.0       |
| 6.0                                       |  | ☒                                      | 241       |                             |      |        | GP  | ▲▲▲         | ◆            | ■  |    | 6.0       |
| 7.0                                       |  |  |           |                             |      |        |     |             |              |    |    | 7.0       |
| 8.0                                       |  |  |           |                             |      |        |     |             |              |    |    | 8.0       |
| 9.0                                       | END HOLE at 9.0m   | ☒                                      | 242       |                             |      |        | GW  | ▲▲▲         | ◆            | ■  |    | 9.0       |
| 10.0                                      |  |  |           |                             |      |        |     |             |              |    |    | 10.0      |

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 9.0 m  
COMPLETE: 93/09/17

|  |  |   |                             |
|--|--|---|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   |  | SHAKWAK PROJECT   | TEST PIT NO: 317-23         |
| ENGINEERING-CAPITAL  |  | SEGMENT 16  | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   |  | LOCATION: Sta. 1891+650 o/s 50m Lt.   | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. |  | <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                             |

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ |      |        | USC | SOIL SYMBOL | PERCENT SAND ◆ |    | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|---|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|------------------|-----------|
|           |   |             |           | PLASTIC         | M.C. | LIQUID |     |             | 20             | 40 |                  |           |
| 0.0       | ORGANIC MATERIAL  |             |           |                 |      |        |     |             |                |    |                  | 0.0       |
|           | ORGANIC SILT<br>-dark brown<br>-frozen<br>-very difficult digging |             |           |                 |      |        |     |             |                |    |                  | 1.0       |
|           | GRAVEL<br>-gray<br>-frozen  |             |           |                 |      |        |     |             |                |    |                  | 2.0       |
|           | END HOLE at 1.4m  |             |           |                 |      |        |     |             |                |    |                  | 6.0       |

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LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 1.4 m  
COMPLETE: 94/08/19

|  |  |                                     |                             |
|--|--|-------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   |  | SHAKWAK PROJECT                     | TEST PIT NO: 317-44         |
| ENGINEERING-CAPITAL  |  | SEGMENT 16                          | Project No: 092-202101-0312 |
| BACKHOE: CAT 225   |  | LOCATION: Sta. 1891+650 o/s 65m Lt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |  |                                     |                             |

| DEPTH (m) | SOIL DESCRIPTION                       | SAMPLE TYPE | SAMPLE NO | PERCENT FINES |    |    | USC | SOIL SYMBOL | PERCENT SAND |    | PERCENT GRAVEL |    | DEPTH (m) |
|-----------|--|-------------|-----------|---------------|----|----|-----|-------------|--------------|----|----------------|----|-----------|
|           |  |             |           | 20            | 40 | 60 |     |             | 80           | 20 | 40             | 60 |           |
| 0.0       | SANDY GRAVEL<br>-maximum 75mm material |             |           |               |    |    |     |             |              |    |                |    | 0.0       |
|           | SAND<br>-light gray<br>-damp           |             |           |               |    |    |     |             |              |    |                |    | 1.0       |
| 1.0       |  |             |           |               |    |    |     |             |              |    |                |    | 2.0       |
| 2.0       |  |             |           |               |    |    |     |             |              |    |                |    | 3.0       |
| 3.0       | END HOLE at 3.0m                       |             |           |               |    |    |     |             |              |    |                |    | 4.0       |
| 4.0       |  |             |           |               |    |    |     |             |              |    |                |    | 5.0       |
| 5.0       |  |             |           |               |    |    |     |             |              |    |                |    | 6.0       |

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|               |                         |
|---------------|-------------------------|
| LOGGED BY: DA | COMPLETION DEPTH: 3.0 m |
| REVIEWED BY:  | COMPLETE: 94/08/24      |
| Fig. No:      | Page 1 of 1             |

| SUBSURFACE EXPLORATION AND TEST REPORT    |  | ALASKA HIGHWAY PRE-ENGINEERING |           | TEST HOLE NO: 246-89        |      |        |       |             |                |              |                |           |
|---|--|--------------------------------|-----------|-----------------------------|------|--------|-------|-------------|----------------|--------------|----------------|-----------|
| SHAKWAK PROJECT                           |  | SEGMENT 16                     |           | Project No: 202101-0312-193 |      |        |       |             |                |              |                |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |  | LOCATION: STA 1891+700         |           | ELEVATION: 0.00 (m)         |      |        |       |             |                |              |                |           |
| SAMPLE TYPE                               |  | RETURN                         |           | S.P.T.                      |      |        |       |             |                |              |                |           |
| AUGER                                     |  | BULK                           |           | TUBE                        |      |        |       |             |                |              |                |           |
| CORE                                      |  |                                |           |                             |      |        |       |             |                |              |                |           |
| DEPTH (m)                                 | SOIL DESCRIPTION   | SAMPLE TYPE                    | SAMPLE NO | PERCENT FINES               |      |        | USC   | SOIL SYMBOL | PERCENT SAND   |              |                | DEPTH (m) |
|   |  |                                |           | PLASTIC                     | M.C. | LIQUID |       |             | PERCENT GRAVEL | PERCENT SAND | PERCENT GRAVEL |           |
| 0.0                                       | SANDY SILT (ML)<br>-organic<br>-easy drilling  |                                |           |                             |      |        |       |             |                |              |                | 0.0       |
| 1.0                                       |  |                                | 231       |                             |      |        | ML    |             |                |              |                | 1.0       |
| 2.0                                       | WELL-GRADED GRAVEL WITH SAND (GW)<br>-grindy drilling<br><br>-easy drilling below 2.4m |                                |           |                             |      |        |       |             |                |              |                | 2.0       |
| 3.0                                       |  |                                | 233       |                             |      |        | GW    |             |                |              |                | 3.0       |
| 4.0                                       | WELL-GRADED SAND WITH SILT AND GRAVEL (SW-SM)<br>-easy drilling                        |                                |           |                             |      |        |       |             |                |              |                | 4.0       |
| 5.0                                       | END HOLE at 5.0m   |                                | 232       |                             |      |        | SW-SM |             |                |              |                | 5.0       |
| 6.0                                       |  |                                |           |                             |      |        |       |             |                |              |                | 6.0       |

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Fig. No:

COMPLETION DEPTH: 5.0 m

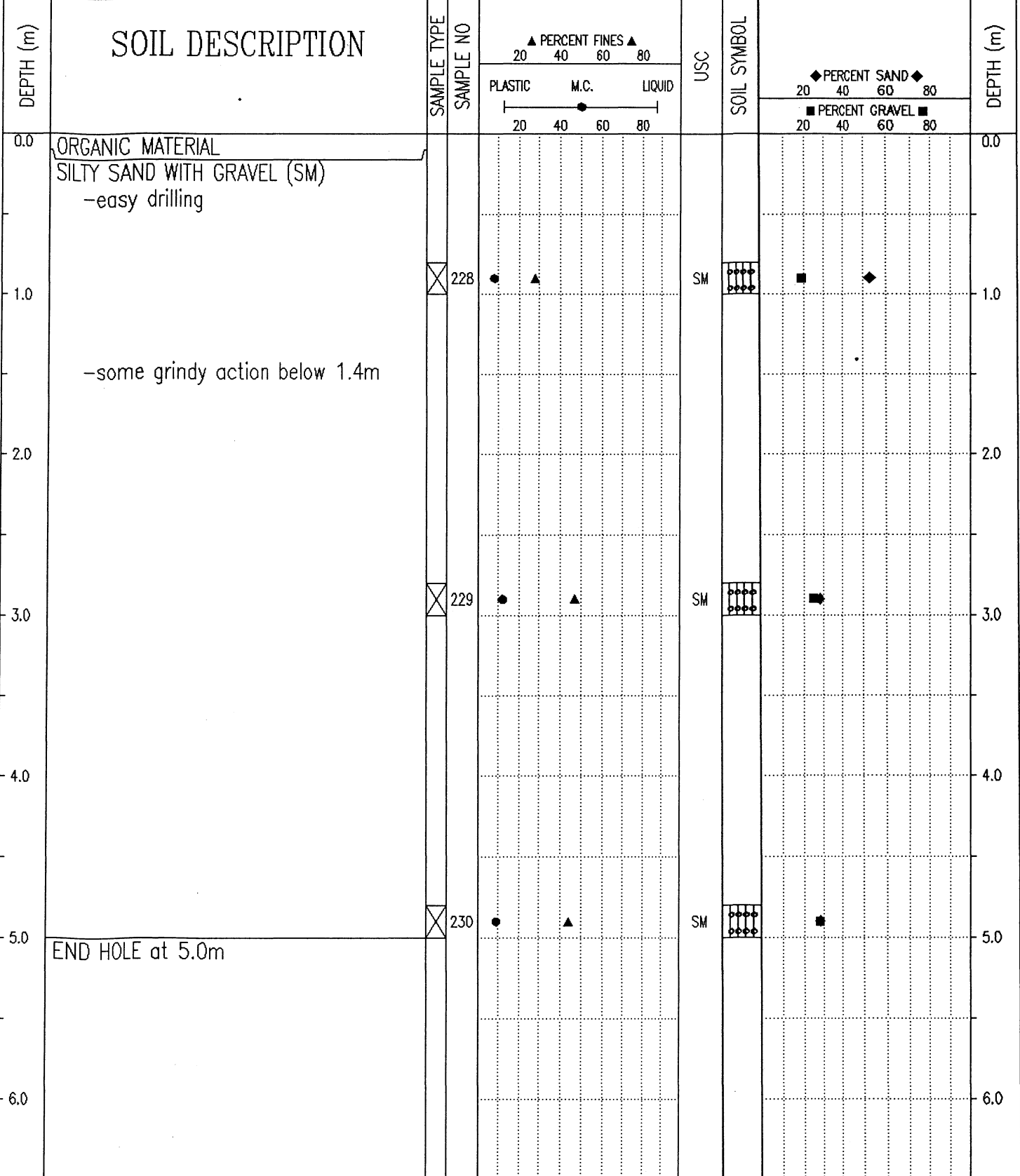
COMPLETE: 93/09/17

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| SUBSURFACE EXPLORATION AND TEST REPORT            |   | SHAKWAK PROJECT                            |           | TEST PIT NO: 317-42                       |      |        |     |                         |                |    |    |           |     |
|---|---|--|-----------|---|------|--------|-----|-------------------------|----------------|----|----|-----------|-----|
| ENGINEERING-CAPITAL                               |   | SEGMENT 16                                 |           | Project No: 092-202101-0312               |      |        |     |                         |                |    |    |           |     |
| BACKHOE: CAT 225                                  |   | LOCATION: Sta. 1891+700 o/s 30m Lt.        |           | ELEVATION: 0.00 (m)                       |      |        |     |                         |                |    |    |           |     |
| SAMPLE TYPE <input type="checkbox"/> RETURN       |   | <input checked="" type="checkbox"/> S.P.T. |           | <input checked="" type="checkbox"/> AUGER |      |        |     |                         |                |    |    |           |     |
|   |   | <input type="checkbox"/> BULK              |           | <input type="checkbox"/> TUBE             |      |        |     |                         |                |    |    |           |     |
|   |   |  |           | <input type="checkbox"/> CORE             |      |        |     |                         |                |    |    |           |     |
| DEPTH (m)   | SOIL DESCRIPTION  | SAMPLE TYPE                                | SAMPLE NO | PERCENT FINES                             |      |        | USC | SOIL SYMBOL             | PERCENT SAND   |    |    | DEPTH (m) |     |
|   |   |  |           | PLASTIC                                   | M.C. | LIQUID |     |                         | PERCENT GRAVEL |    |    |           |     |
| 0.0   | SANDY GRAVEL<br>-gray<br>-damp<br>-maximum 75mm material                |  |           | 20  | 40   | 60     | 80  |                         | 20             | 40 | 60 | 80        | 0.0 |
| 1.0   | -caving in below 1.1m   |  |           |   |      |        |     |                         |                |    |    |           | 1.0 |
| 2.0   | GRAVELLY SAND<br>-gray<br>-damp<br>-maximum 25mm material<br>-caving in |  |           |   |      |        |     |                         |                |    |    |           | 2.0 |
| 3.0   | SILT  |  |           |   |      |        |     |                         |                |    |    |           | 3.0 |
|   | SAND  |  |           |   |      |        |     |                         |                |    |    |           |     |
|   | END HOLE at 3.2m  |  |           |   |      |        |     |                         |                |    |    |           |     |
| 4.0   |   |  |           |   |      |        |     |                         |                |    |    |           | 4.0 |
| 5.0   |   |  |           |   |      |        |     |                         |                |    |    |           | 5.0 |
| 6.0   |   |  |           |   |      |        |     |                         |                |    |    |           | 6.0 |
| Government of Yukon<br>Transportation Engineering |   |  |           | LOGGED BY: DA                             |      |        |     | COMPLETION DEPTH: 3.2 m |                |    |    |           |     |
|   |   |  |           | REVIEWED BY:                              |      |        |     | COMPLETE: 94/08/24      |                |    |    |           |     |
|   |   |  |           | Fig. No:                                  |      |        |     | Page 1 of 1             |                |    |    |           |     |

|   |                                |                             |
|---|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 246-88        |
| SHAKWAK PROJECT                           | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: STA 1891+800         | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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Fig. No:  
COMPLETION DEPTH: 5.0 m  
COMPLETE: 93/09/17  
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| SUBSURFACE EXPLORATION AND TEST REPORT    |   | ALASKA HIGHWAY PRE-ENGINEERING |           | TEST HOLE NO: 246-87        |      |        |     |             |                |              |                |           |
|---|---|--------------------------------|-----------|-----------------------------|------|--------|-----|-------------|----------------|--------------|----------------|-----------|
| SHAKWAK PROJECT                           |   | SEGMENT 16                     |           | Project No: 202101-0312-193 |      |        |     |             |                |              |                |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |   | LOCATION: STA 1891+900         |           | ELEVATION: 0.00 (m)         |      |        |     |             |                |              |                |           |
| SAMPLE TYPE                               |   | RETURN                         |           | S.P.T.                      |      |        |     |             |                |              |                |           |
| AUGER                                     |   | BULK                           |           | TUBE                        |      |        |     |             |                |              |                |           |
| CORE                                      |   |                                |           |                             |      |        |     |             |                |              |                |           |
| DEPTH (m)                                 | SOIL DESCRIPTION                                | SAMPLE TYPE                    | SAMPLE NO | PERCENT FINES               |      |        | USC | SOIL SYMBOL | PERCENT SAND   |              |                | DEPTH (m) |
|   |   |                                |           | PLASTIC                     | M.C. | LIQUID |     |             | PERCENT GRAVEL | PERCENT SAND | PERCENT GRAVEL |           |
| 0.0                                       | SILTY GRAVEL WITH SAND (GM)<br>-grindy drilling |                                |           |                             |      |        |     |             |                |              |                | 0.0       |
| 1.0                                       |   |                                | 225       | ●                           | ▲    |        | GM  | ◊           | ■              |              |                | 1.0       |
| 2.0                                       | SILTY SAND WITH GRAVEL (SM)<br>-grindy drilling |                                |           |                             |      |        |     |             |                |              |                | 2.0       |
| 3.0                                       |   |                                | 226       | ●                           | ▲    |        | SM  | ◊           | ■              |              |                | 3.0       |
| 4.0                                       | SILTY SAND (SM)<br>-wet below 4.3m              |                                |           |                             |      |        |     |             |                |              |                | 4.0       |
| 5.0                                       | END HOLE at 5.0m                                |                                | 227       | ●                           | ▲    |        | SM  | ◊           | ■              |              |                | 5.0       |
| 6.0                                       |   |                                |           |                             |      |        |     |             |                |              |                | 6.0       |

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Fig. No:

COMPLETION DEPTH: 5.0 m

COMPLETE: 93/09/17

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| SUBSURFACE EXPLORATION AND TEST REPORT    |   | ALASKA HIGHWAY PRE-ENGINEERING     |           | TEST HOLE NO: 246-83        |      |        |       |             |                |  |     |           |
|---|---|------------------------------------|-----------|-----------------------------|------|--------|-------|-------------|----------------|--|-----|-----------|
| SHAKWAK PROJECT                           |   | SEGMENT 16                         |           | Project No: 202101-0312-193 |      |        |       |             |                |  |     |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |   | LOCATION: STA 1892+000 o/s 20m Rt. |           | ELEVATION: 0.00 (m)         |      |        |       |             |                |  |     |           |
| SAMPLE TYPE                               |   | RETURN                             |           | S.P.T.                      |      |        |       |             |                |  |     |           |
| AUGER                                     |   | BULK                               |           | TUBE                        |      |        |       |             |                |  |     |           |
| CORE                                      |   |                                    |           |                             |      |        |       |             |                |  |     |           |
| DEPTH (m)                                 | SOIL DESCRIPTION  | SAMPLE TYPE                        | SAMPLE NO | PERCENT FINES               |      |        | USC   | SOIL SYMBOL | PERCENT SAND   |  |     | DEPTH (m) |
|   |   |                                    |           | PLASTIC                     | M.C. | LIQUID |       |             | PERCENT GRAVEL |  |     |           |
| 0.0                                       | SILTY GRAVEL WITH SAND (GM)<br>-grindy drilling               |                                    |           |                             |      |        |       |             |                |  | 0.0 |           |
| 1.0                                       | -smooth drilling below 0.8m                                   |                                    |           |                             |      |        |       |             |                |  | 1.0 |           |
| 2.0                                       | SILTY SAND (SM)<br>-easy smooth drilling                      |                                    | 210       |                             |      |        | GM    |             |                |  | 2.0 |           |
| 2.0                                       |   |                                    | 211       |                             |      |        | SM    |             |                |  | 2.0 |           |
| 3.0                                       |   |                                    |           |                             |      |        |       |             |                |  | 3.0 |           |
| 4.0                                       | POORLY GRADED SAND WITH SILT (SP-SM)<br>-easy smooth drilling |                                    |           |                             |      |        |       |             |                |  | 4.0 |           |
| 5.0                                       | -wet below 4.6m   |                                    |           |                             |      |        |       |             |                |  | 5.0 |           |
| 5.0                                       | END HOLE at 5.0m  |                                    | 212       |                             |      |        | SP-SM |             |                |  | 5.0 |           |
| 6.0                                       |   |                                    |           |                             |      |        |       |             |                |  | 6.0 |           |

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Fig. No:

COMPLETION DEPTH: 5.0 m

COMPLETE: 93/09/16

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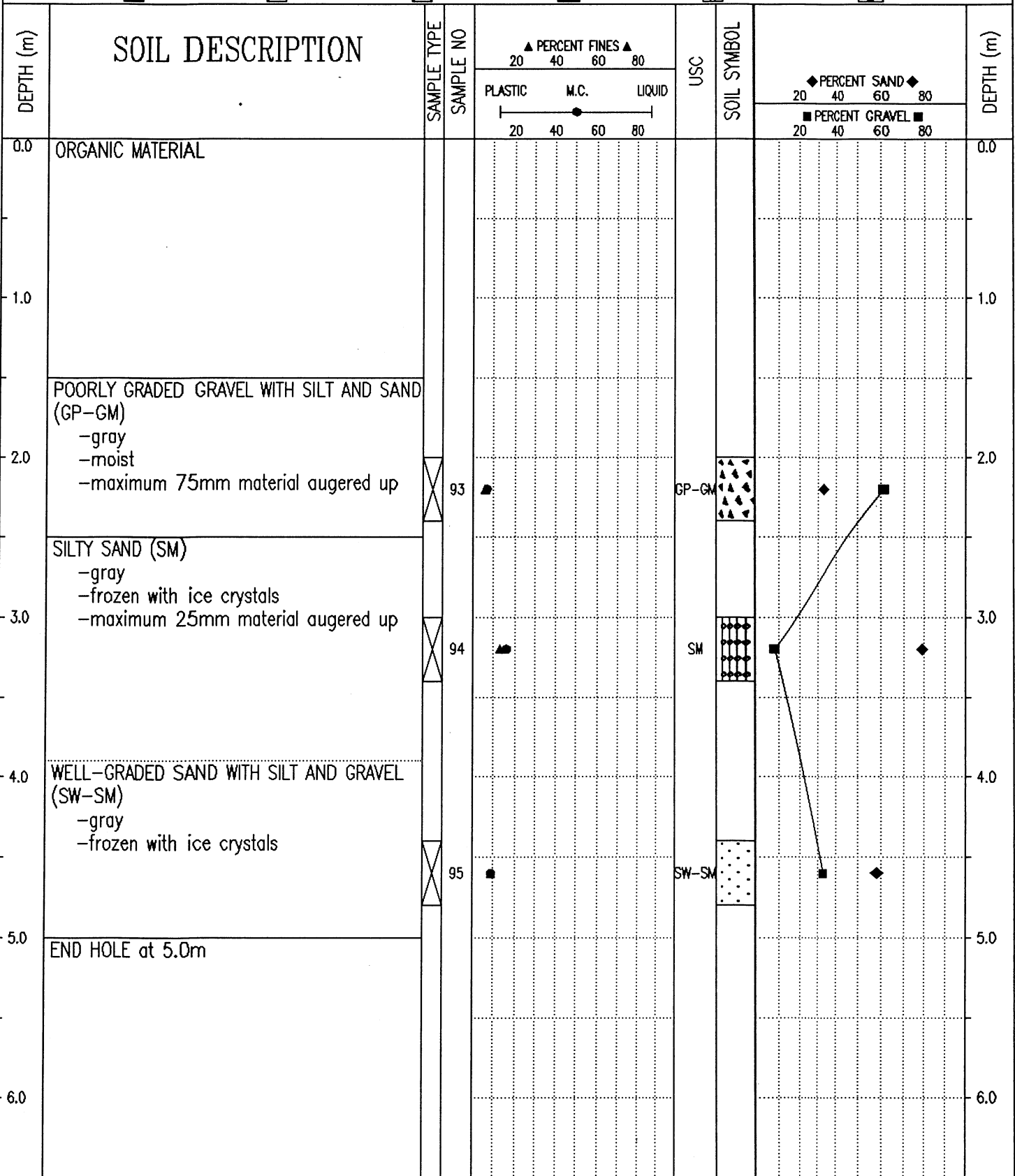
| SUBSURFACE EXPLORATION AND TEST REPORT    |  | ALASKA HIGHWAY PRE-ENGINEERING             |  | TEST HOLE NO: 246-84                      |                               |                               |                               |             |              |    |                |           |
|---|--|--|--|---|-------------------------------|-------------------------------|-------------------------------|-------------|--------------|----|----------------|-----------|
| SHAKWAK PROJECT                           |  | SEGMENT 16                                 |  | Project No: 202101-0312-193               |                               |                               |                               |             |              |    |                |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |  | LOCATION: STA 1892+050 o/s 25m Lt.         |  | ELEVATION: 0.00 (m)                       |                               |                               |                               |             |              |    |                |           |
| SAMPLE TYPE                               |  | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER | <input type="checkbox"/> BULK | <input type="checkbox"/> TUBE | <input type="checkbox"/> CORE |             |              |    |                |           |
| DEPTH (m)                                 | SOIL DESCRIPTION                                       | SAMPLE TYPE                                | SAMPLE NO                                  | PERCENT FINES                             |                               |                               | USC                           | SOIL SYMBOL | PERCENT SAND |    | PERCENT GRAVEL | DEPTH (m) |
|   |  |  |  | PLASTIC                                   | M.C.                          | LIQUID                        |                               |             | 20           | 40 |                |           |
| 0.0                                       | SILTY SAND (SM)<br>-easy drilling                      |  |  |   |                               |                               |                               |             |              |    |                | 0.0       |
| 1.0                                       |  | <input checked="" type="checkbox"/>        | 213  | ●   | ▲                             |                               | SM                            |             | ■            | ◆  |                | 1.0       |
| 2.0                                       | POORLY GRADED SAND WITH SILT (SP-SM)<br>-easy drilling |  |  |   |                               |                               |                               |             |              |    |                | 2.0       |
| 2.0                                       |  | <input checked="" type="checkbox"/>        | 214  | ▲   |                               |                               | SP-SM                         | oooo        | ■            |    | ◆              | 2.0       |
| 3.0                                       | SILTY SAND (SM)<br>-frozen with visible ice            |  |  |   |                               |                               |                               |             |              |    |                | 3.0       |
| 3.0                                       |  | <input checked="" type="checkbox"/>        | 215  | ●   | ▲                             |                               | SM                            |             | ■            | ◆  |                | 3.0       |
| 4.0                                       | SILTY GRAVEL WITH SAND (GM)<br>-grindy drilling        |  |  |   |                               |                               |                               |             |              |    |                | 4.0       |
| 4.0                                       |  | <input checked="" type="checkbox"/>        | 216  | ▲   |                               |                               | GM                            |             | ■            | ◆  | ■              | 4.0       |
| 5.0                                       |  |  |  |   |                               |                               |                               |             |              |    |                | 5.0       |
| 6.0                                       |  | <input checked="" type="checkbox"/>        | 217  | ●   | ▲                             |                               | ML                            |             | ■            | ◆  | ■              | 6.0       |
| 7.0                                       |  |  |  |   |                               |                               |                               |             |              |    |                | 7.0       |
| 8.0                                       | SANDY SILT (ML)  |  |  |   |                               |                               |                               |             |              |    |                | 8.0       |
| 8.0                                       |  | <input checked="" type="checkbox"/>        | 217  | ●   | ▲                             |                               | ML                            |             | ■            | ◆  | ■              | 8.0       |
| 9.0                                       | END HOLE at 9.0m                                       |  |  |   |                               |                               |                               |             |              |    |                | 9.0       |
| 9.0                                       |  | <input checked="" type="checkbox"/>        | 217  | ●   | ▲                             |                               | ML                            |             | ■            | ◆  | ■              | 9.0       |
| 10.0                                      |  |  |  |   |                               |                               |                               |             |              |    |                | 10.0      |

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Fig. No:

COMPLETION DEPTH: 9.0 m  
COMPLETE: 93/09/16  
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|  |                                       |                             |
|--|---------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY RE-CONSTRUCTION        | TEST PIT NO: 302-27         |
| SHAKWAK PROJECT  | SEGMENT 16                            | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER   | LOCATION: See Plan 1892+0.75 % 30m Lt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                       |                             |

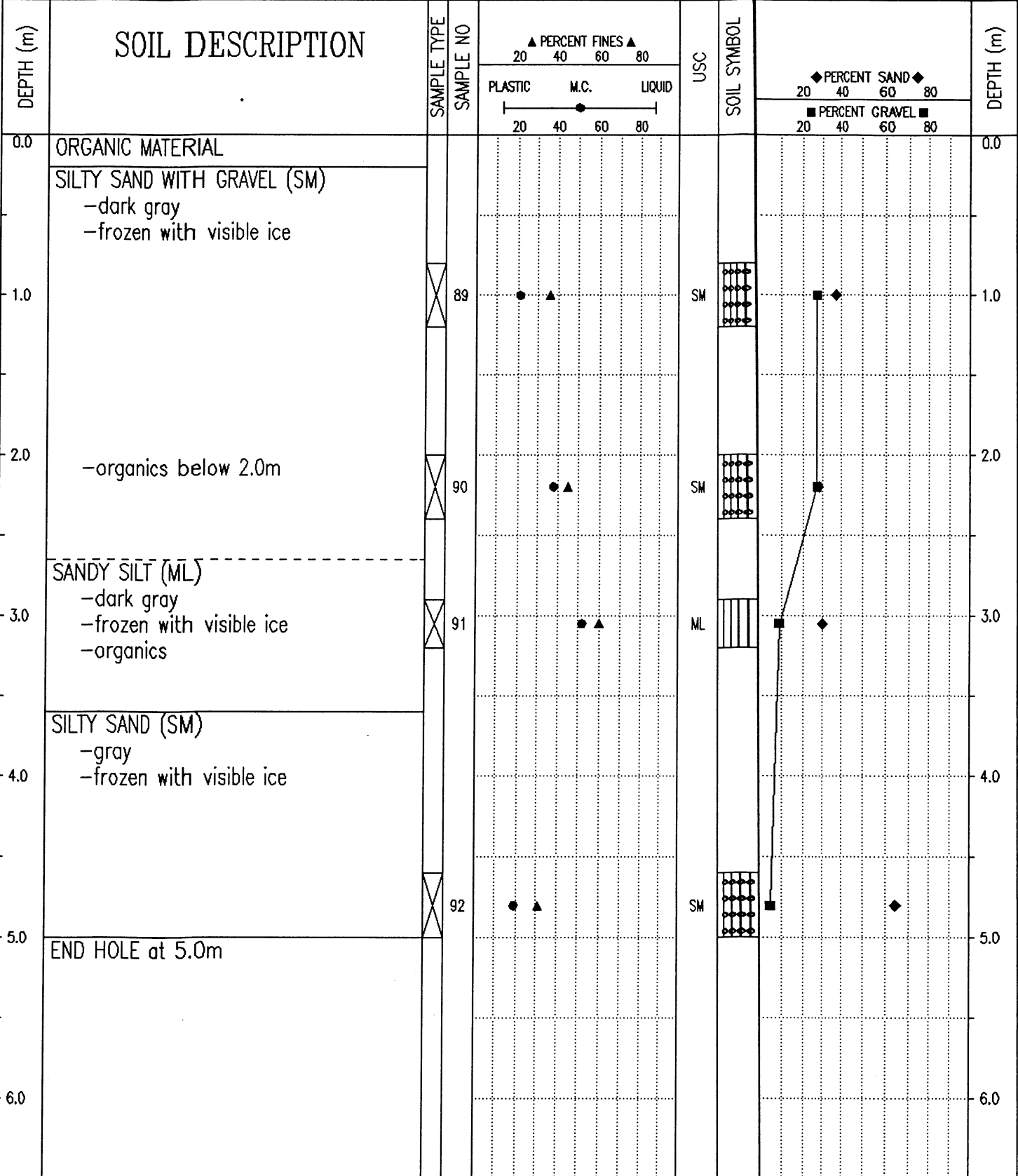


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|               |                         |
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| LOGGED BY: DA | COMPLETION DEPTH: 5.0 m |
| REVIEWED BY:  | COMPLETE: 94/07/11      |
| Fig. No:      | Page 1 of 1             |

|  |                                      |                             |
|--|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY RE-CONSTRUCTION       | TEST PIT NO: 302-26         |
| SHAKWAK PROJECT                        | SEGMENT 16                           | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan 1892+075% 50m R/L | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

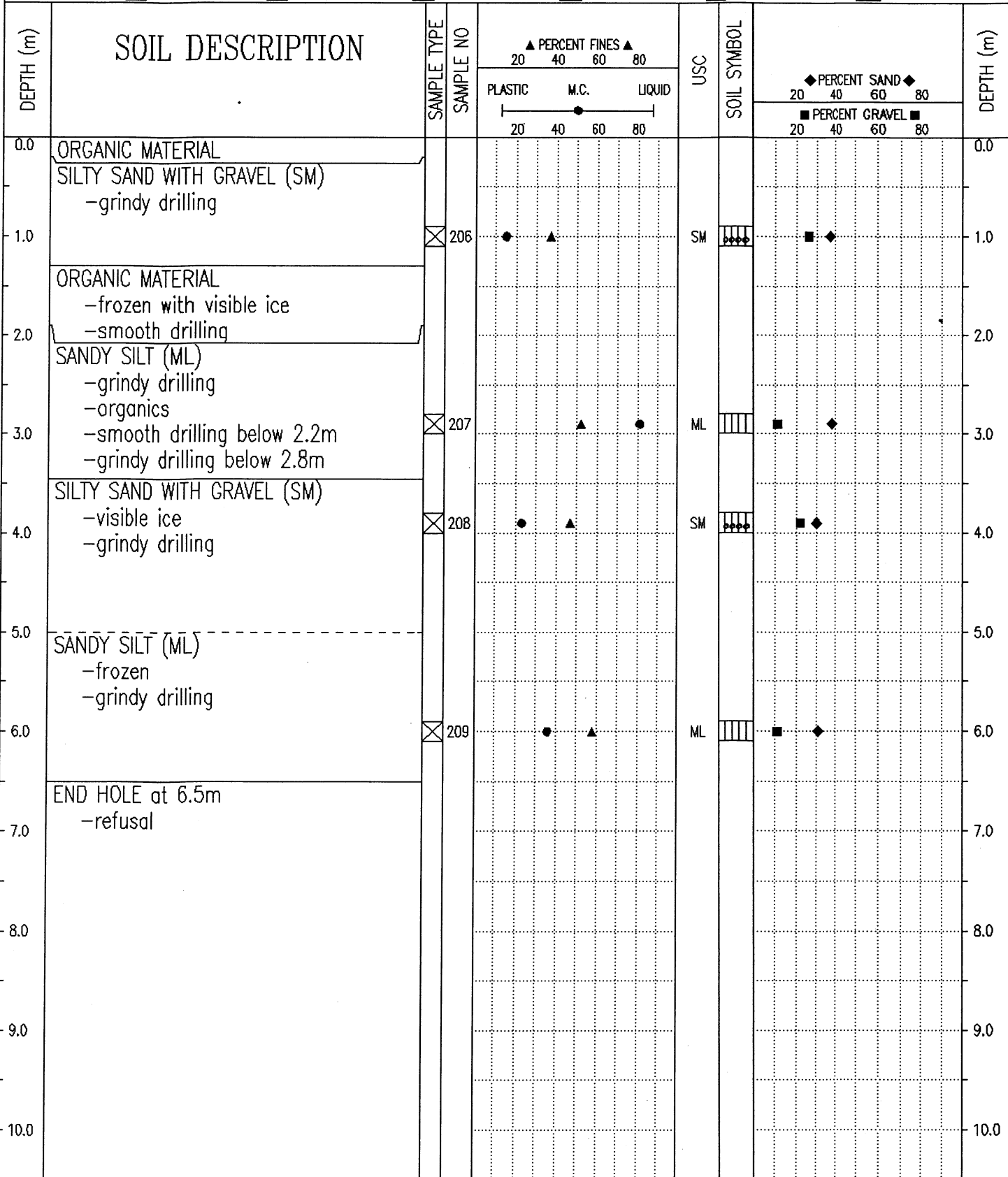


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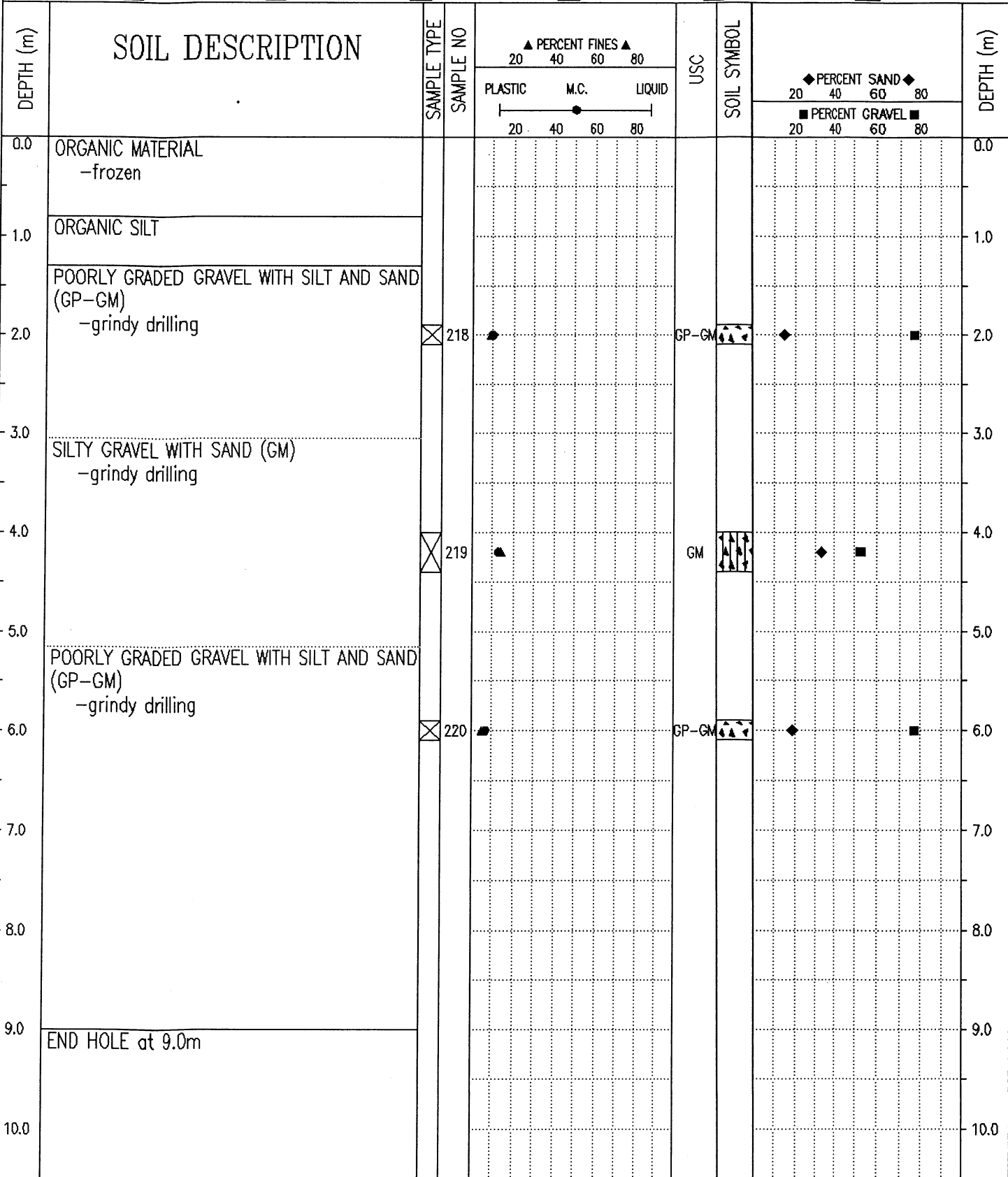
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COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/07/11

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



|   |  |  |
|---|--|--|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING             | TEST HOLE NO: 246-85                       |
| SHAKWAK PROJECT                           | SEGMENT 16                                 | Project No: 202101-0312-193                |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: STA 1892+100 o/s 31m Lt.         | ELEVATION: 0.00 (m)                        |
| SAMPLE TYPE                               | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. |
|   | <input checked="" type="checkbox"/> AUGER  | <input type="checkbox"/> BULK              |
|   | <input type="checkbox"/> TUBE              | <input type="checkbox"/> CORE              |



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Fig. No:

COMPLETION DEPTH: 9.0 m  
COMPLETE: 93/09/16

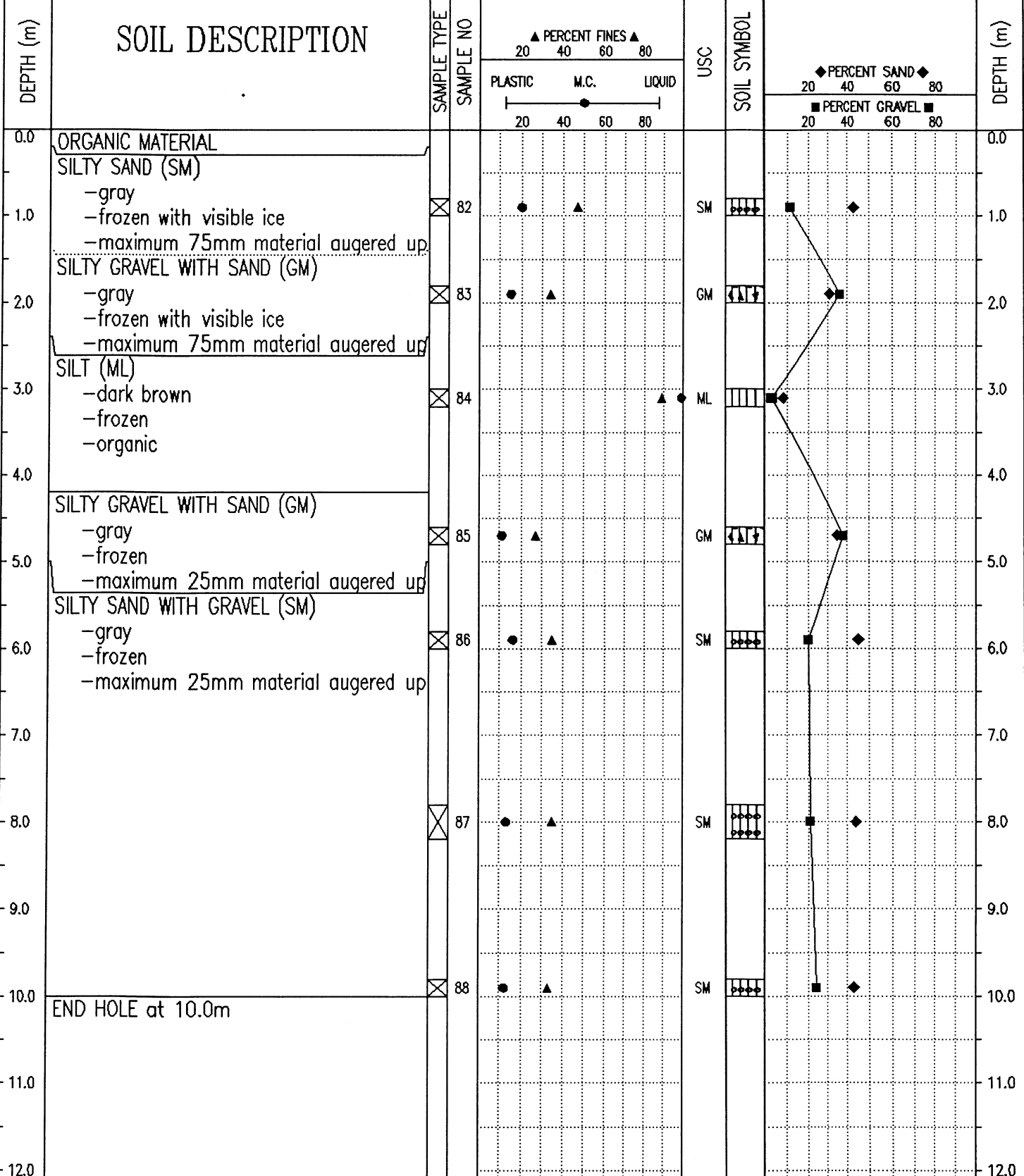
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|---|--|--|--|---|-------------------------------|-------------------------------|-------------------------------|---------------------------------|-----------------------------------|-----------|
| SUBSURFACE EXPLORATION AND TEST REPORT    |  | ALASKA HIGHWAY PRE-ENGINEERING             |  | TEST HOLE NO: 246-86                      |                               |                               |                               |                                 |                                   |           |
| SHAKWAK PROJECT                           |  | SEGMENT 16                                 |  | Project No: 202101-0312-193               |                               |                               |                               |                                 |                                   |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |  | LOCATION: STA 1892+150 o/s 32m Lt.         |  | ELEVATION: 0.00 (m)                       |                               |                               |                               |                                 |                                   |           |
| SAMPLE TYPE                               |  | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER | <input type="checkbox"/> BULK | <input type="checkbox"/> TUBE | <input type="checkbox"/> CORE |                                 |                                   |           |
| DEPTH (m)                                 | SOIL DESCRIPTION   | SAMPLE TYPE                                | SAMPLE NO                                  | ▲ PERCENT FINES ▲<br>20 40 60 80          |                               | USC                           | SOIL SYMBOL                   | ◆ PERCENT SAND ◆<br>20 40 60 80 |                                   | DEPTH (m) |
|   |  |  |  | PLASTIC                                   | M.C.                          |                               |                               | LIQUID                          | ■ PERCENT GRAVEL ■<br>20 40 60 80 |           |
| 0.0                                       | SILT<br>SILTY GRAVEL WITH SAND (GM)<br>-grindy drilling                        |  |  |   |                               |                               |                               |                                 |                                   | 0.0       |
| 1.0                                       |  | <input checked="" type="checkbox"/>        | 221  | ●   |                               |                               | GM                            | ◆                               | ■                                 | 1.0       |
| 2.0                                       | WELL-GRADED GRAVEL WITH SAND TO<br>WELL-GRADED GRAVEL (GW)<br>-grindy drilling |  |  |   |                               |                               |                               |                                 |                                   |           |
| 2.0                                       |  | <input checked="" type="checkbox"/>        | 222  | ●   |                               |                               | GW                            | ◆                               | ■                                 | 2.0       |
| 4.0                                       |  | <input checked="" type="checkbox"/>        | 223  | ●   |                               |                               | GW                            | ◆                               | ■                                 | 4.0       |
| 6.0                                       |  | <input checked="" type="checkbox"/>        | 224  | ●   |                               |                               | GW                            | ◆                               | ■                                 | 6.0       |
| 7.0                                       | END HOLE at 6.5m<br>-refusal   |  |  |   |                               |                               |                               |                                 |                                   | 7.0       |
| 8.0                                       |  |  |  |   |                               |                               |                               |                                 |                                   | 8.0       |
| 9.0                                       |  |  |  |   |                               |                               |                               |                                 |                                   | 9.0       |
| 10.0                                      |  |  |  |   |                               |                               |                               |                                 |                                   | 10.0      |

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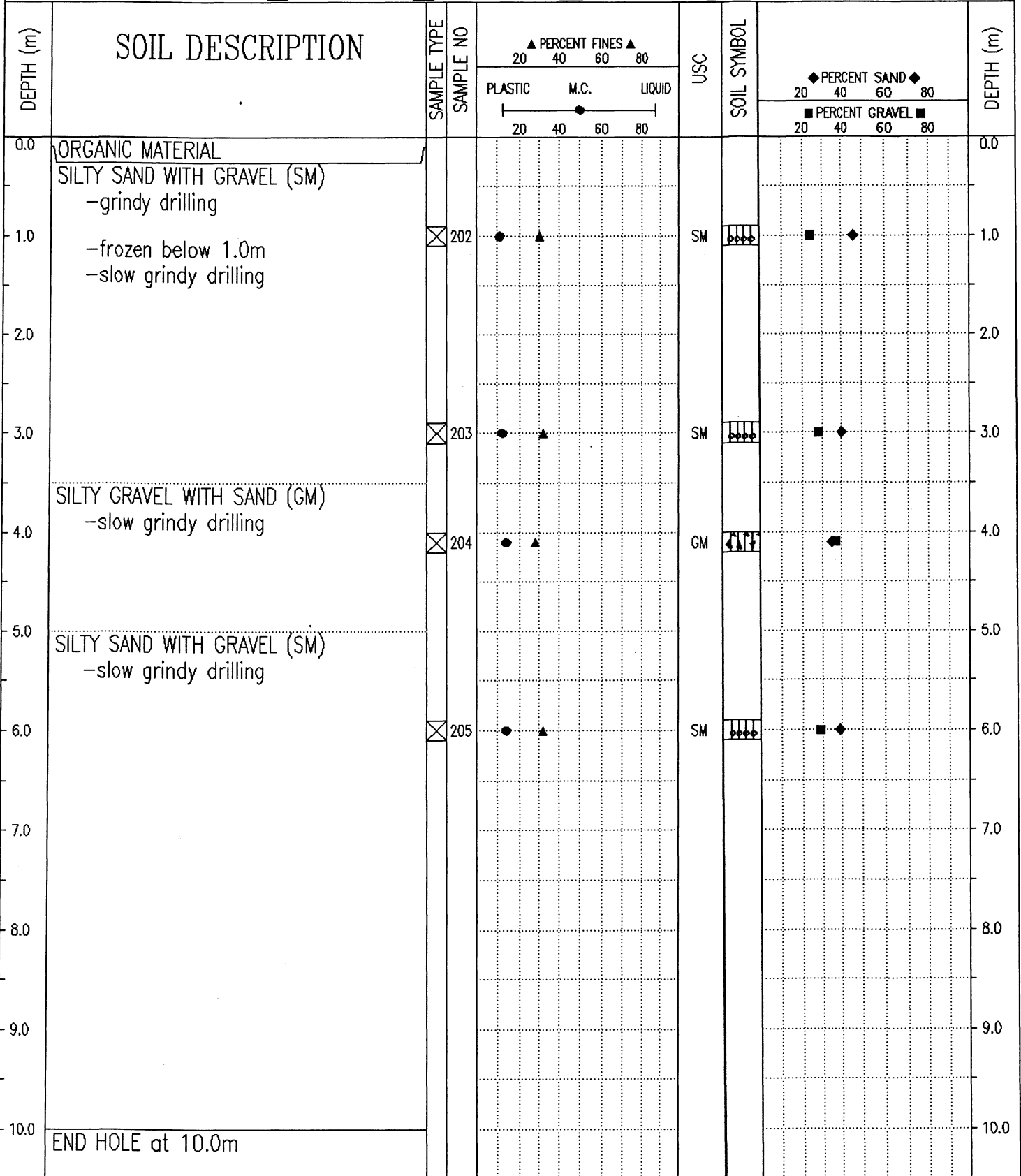
COMPLETION DEPTH: 6.5 m  
COMPLETE: 93/09/16

SAMPLE TYPE  RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



94/10/11 01:52PM

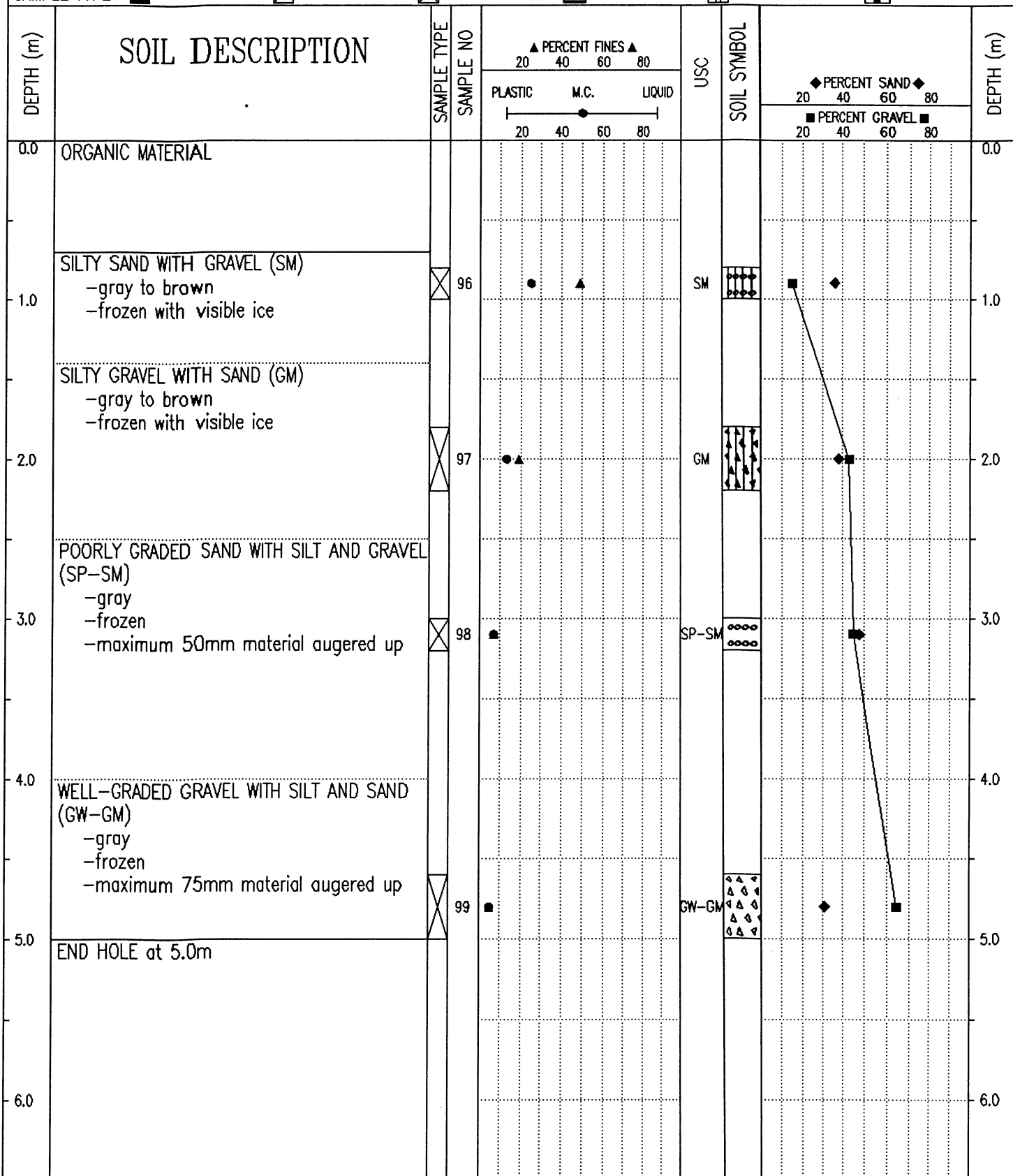
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|--|------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING     | TEST HOLE NO: 246-81        |
| SHAKWAK PROJECT  | SEGMENT 16                         | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: STA 1892+150 o/s 48m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                    |                             |



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|               |                          |
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| LOGGED BY: TF | COMPLETION DEPTH: 10.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/16       |
| Fig. No:      | Page 1 of 1              |

|   |                                      |                             |
|---|--------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  | ALASKA HIGHWAY RE-CONSTRUCTION       | TEST PIT NO: 302-28         |
| SHAKWAK PROJECT   | SEGMENT 16                           | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER  | LOCATION: See Plan 1892+175 % 35m Lt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                      |                             |



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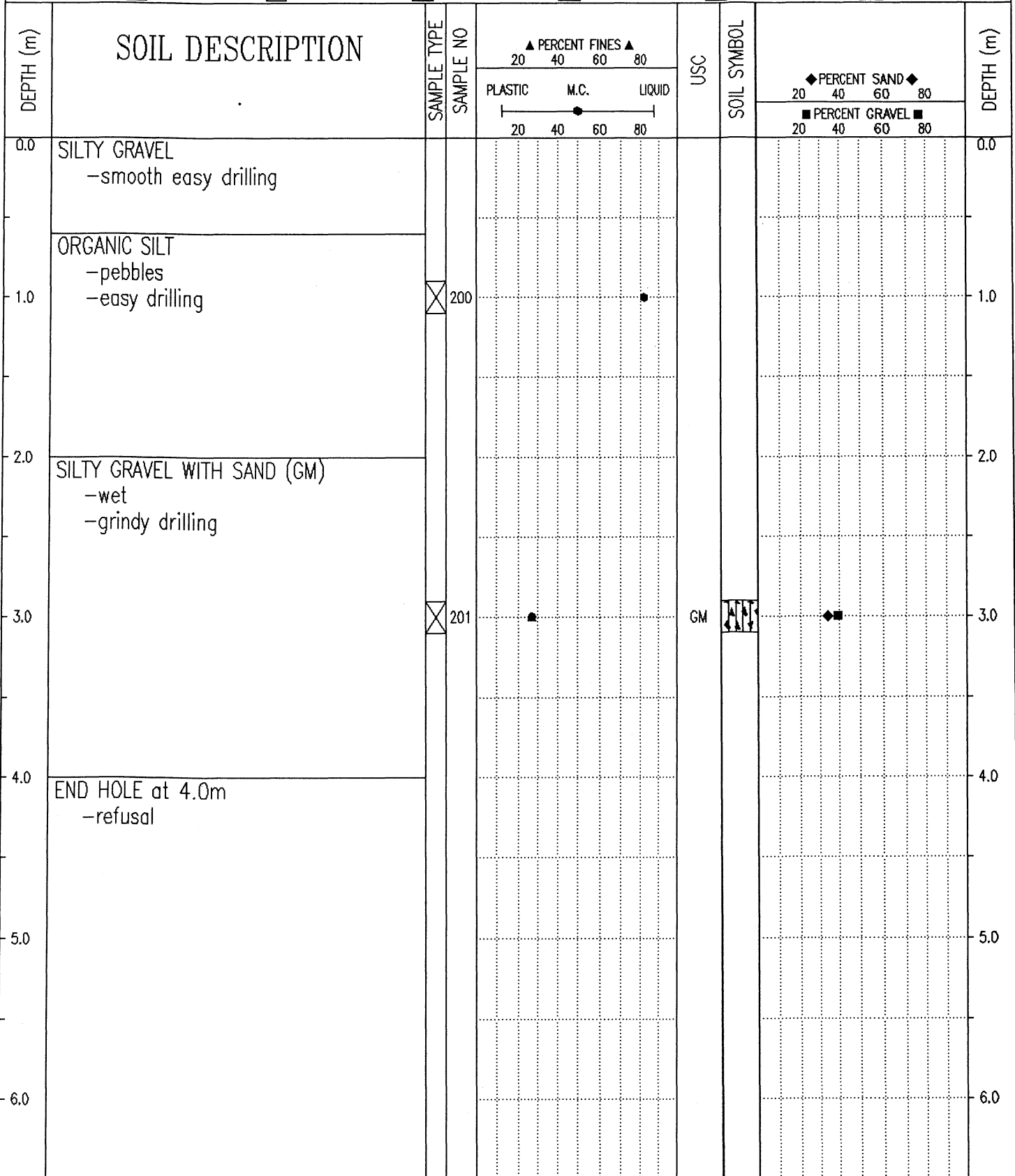
Fig. No:

COMPLETION DEPTH: 5.0 m

COMPLETE: 94/07/11

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|  |                                    |                             |
|--|------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING     | TEST HOLE NO: 246-80        |
| SHAKWAK PROJECT  | SEGMENT 16                         | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: STA 1892+200 o/s 25m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                    |                             |



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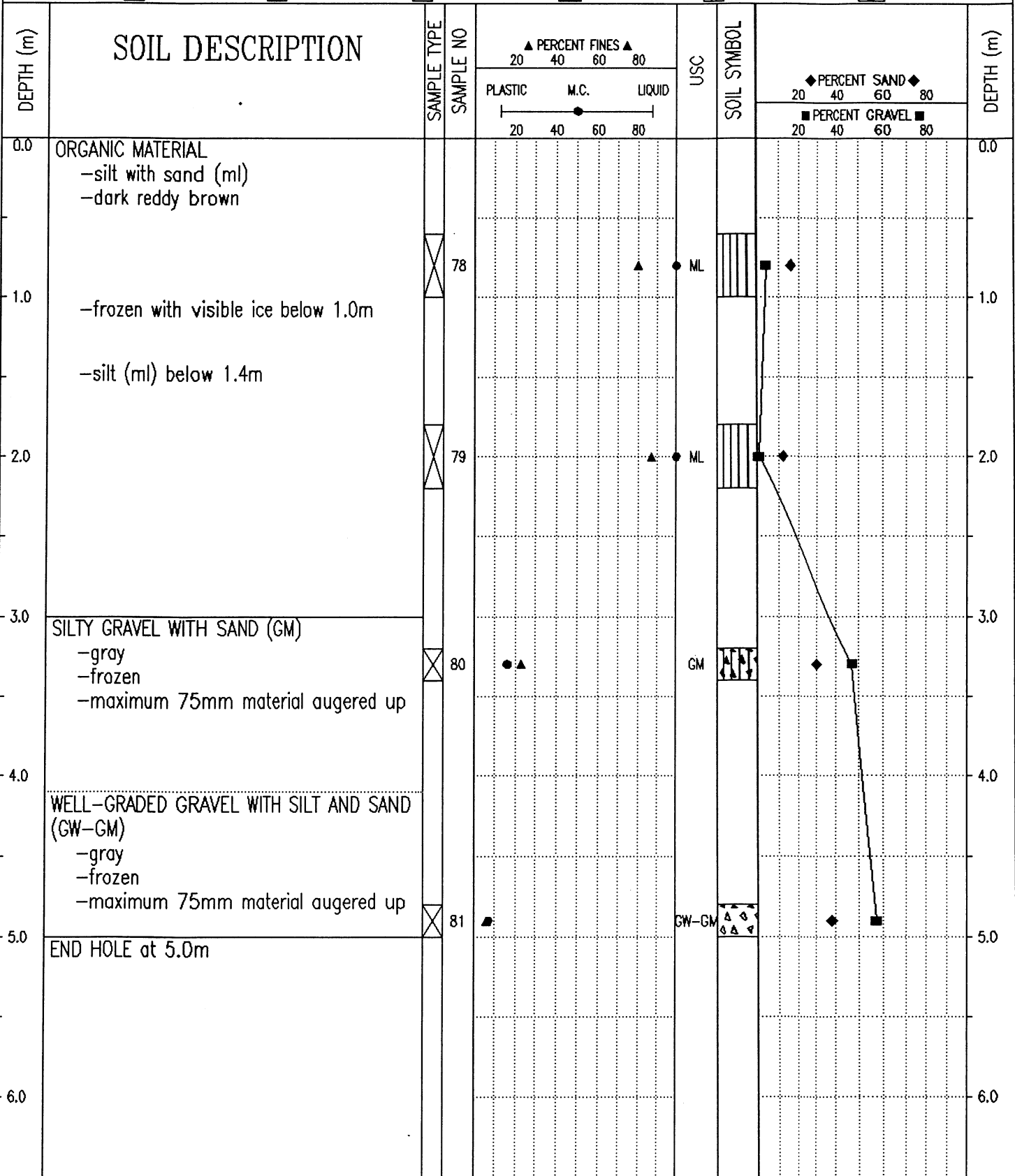
Fig. No:

COMPLETION DEPTH: 4.0 m

COMPLETE: 93/09/16

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| SUBSURFACE EXPLORATION AND TEST REPORT                 | ALASKA HIGHWAY RE-CONSTRUCTION             | TEST PIT NO: 302-24                       |
| SHAKWAK PROJECT  | SEGMENT 16                                 | Project No: 092-202101-0312               |
| DRILL: B40L 150mm SOLID STEM AUGER                     | LOCATION: See Plan 1892 +200 % 30m R±      | ELEVATION: 0.00 (m)                       |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER |
|  | <input type="checkbox"/> BULK              | <input type="checkbox"/> TUBE             |
|  |  | <input type="checkbox"/> CORE             |

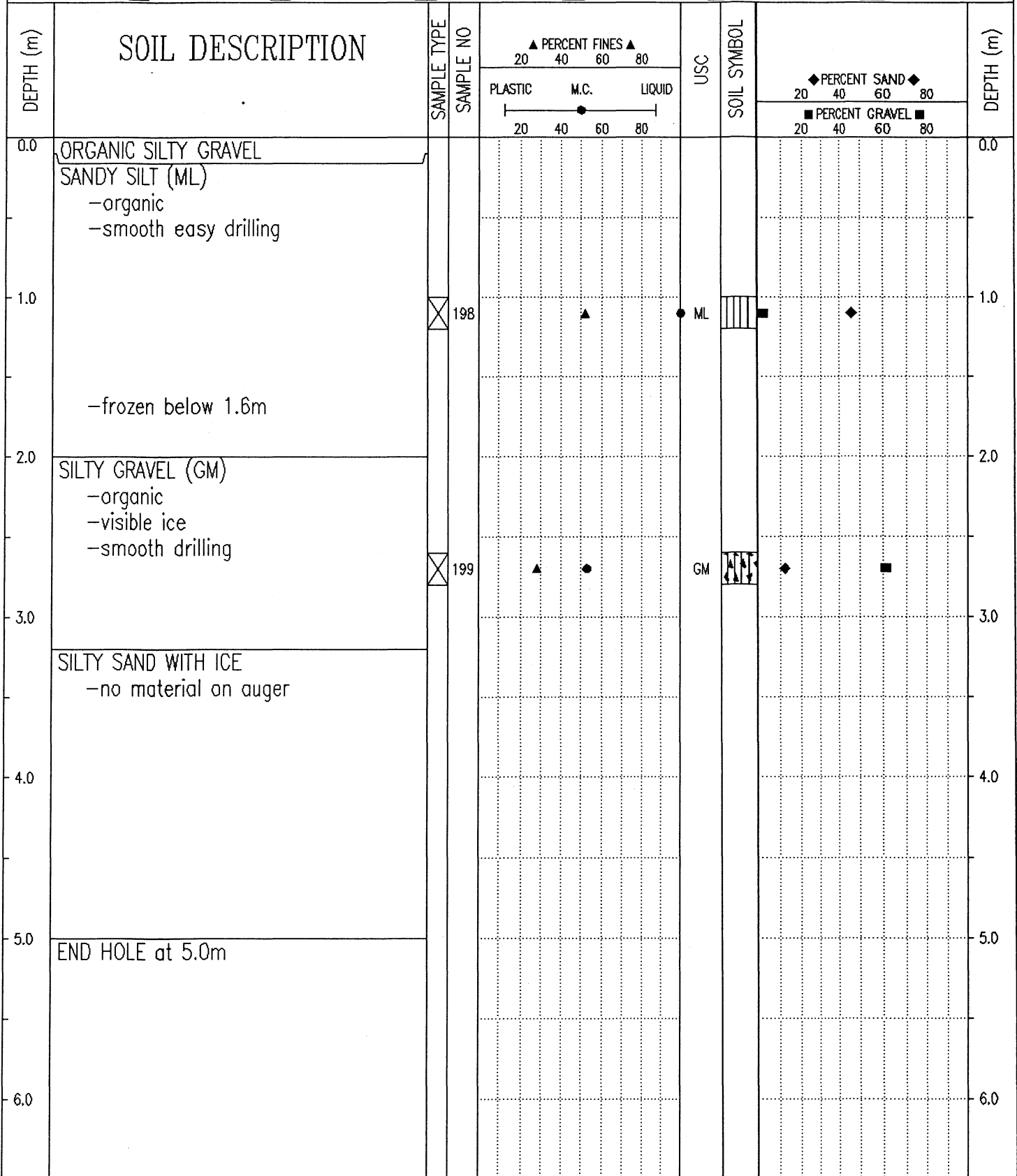


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LOGGED BY: DA  
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Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/07/11  
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|---|------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  | ALASKA HIGHWAY PRE-ENGINEERING     | TEST HOLE NO: 246-79        |
| SHAKWAK PROJECT   | SEGMENT 16                         | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER   | LOCATION: STA 1892+300 o/s 10m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                    |                             |



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COMPLETION DEPTH: 5.0 m

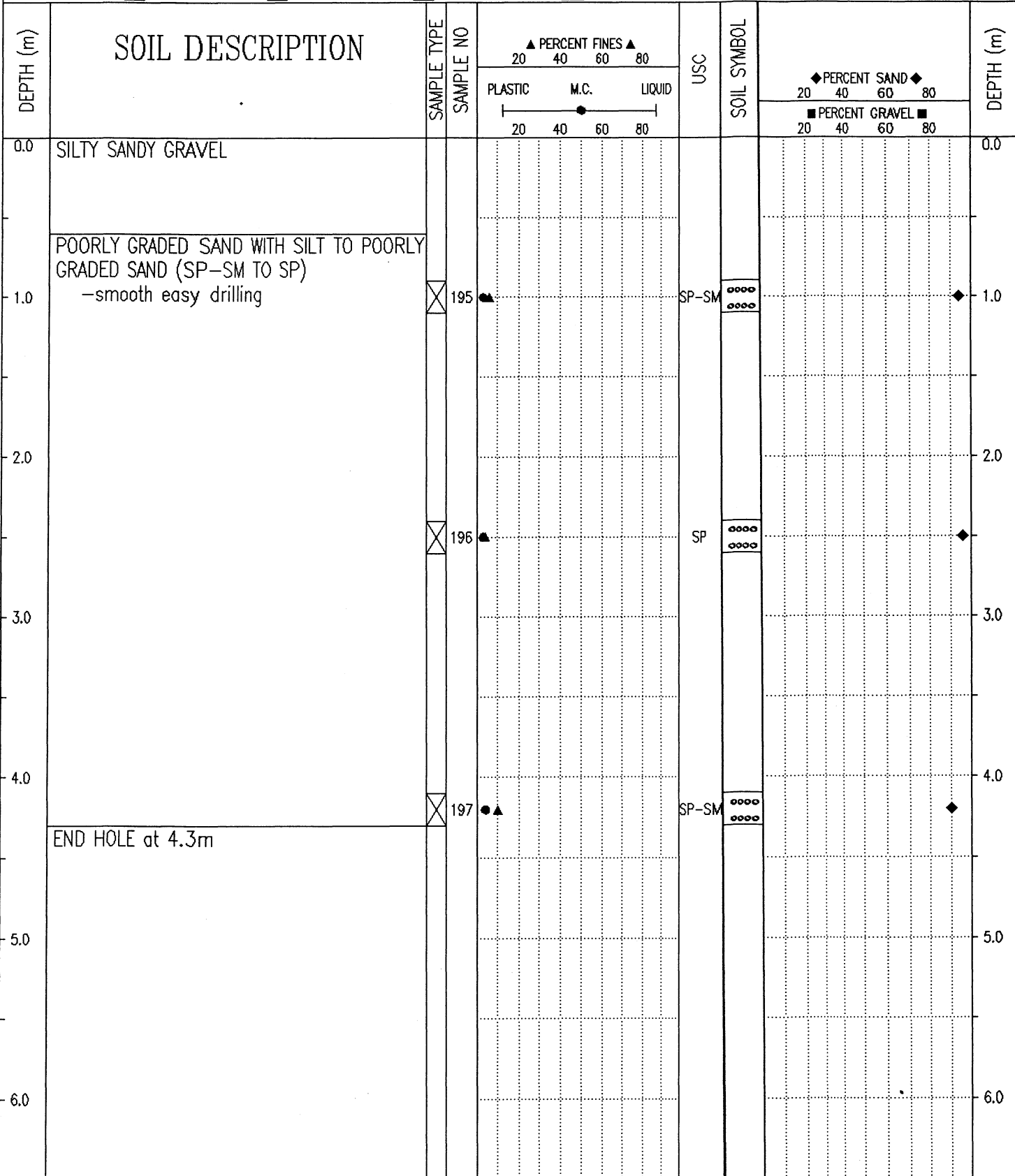
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COMPLETE: 93/09/16

Fig. No:

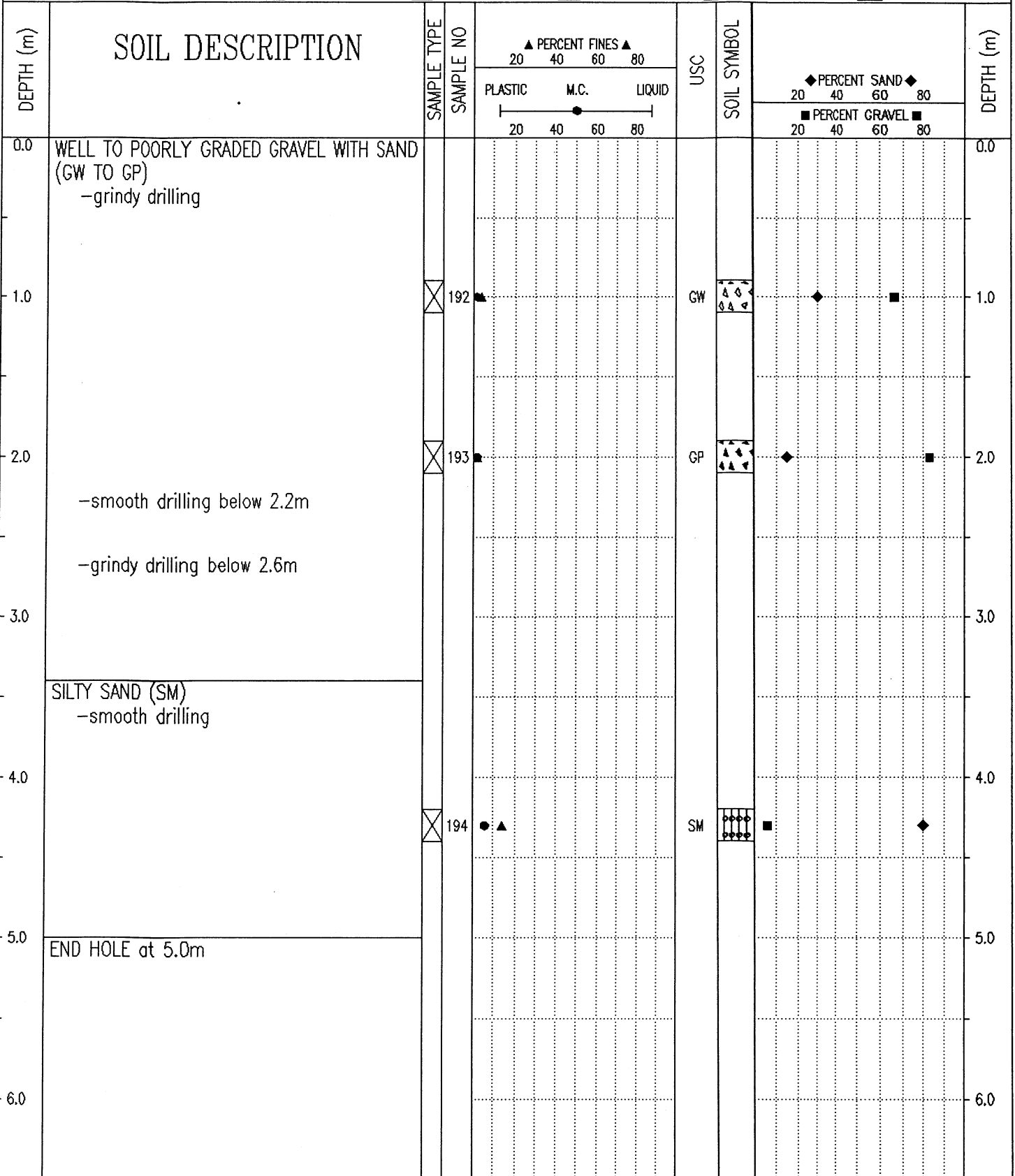
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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING    | TEST HOLE NO: 246-78        |
| SHAKWAK PROJECT  | SEGMENT 16                        | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: STA 1892+400 o/s 5m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                   |                             |



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|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 4.3 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/16      |
|   | Fig. No:      | Page 1 of 1             |

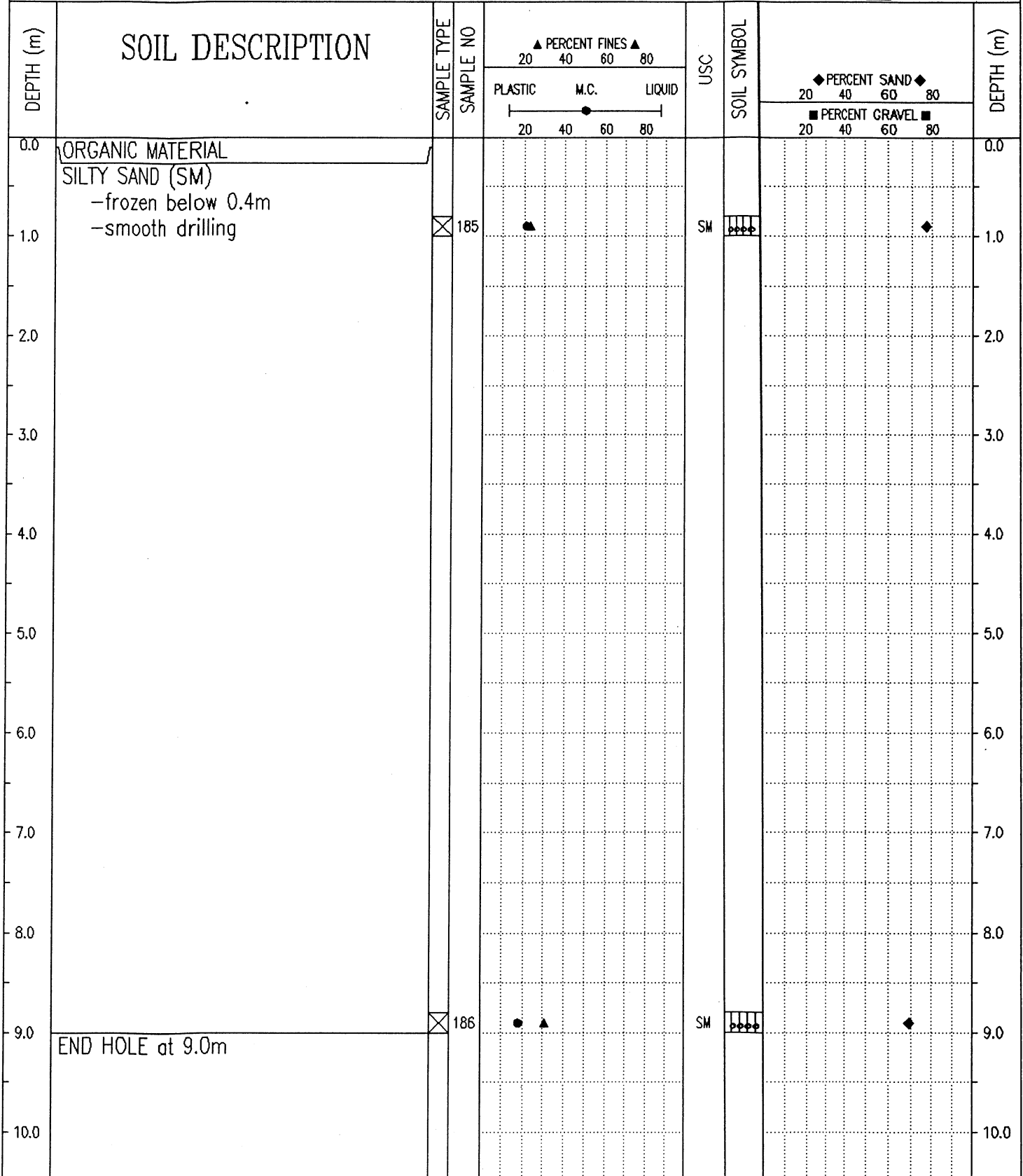
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|--|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 246-77        |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: STA 1892+500         | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |



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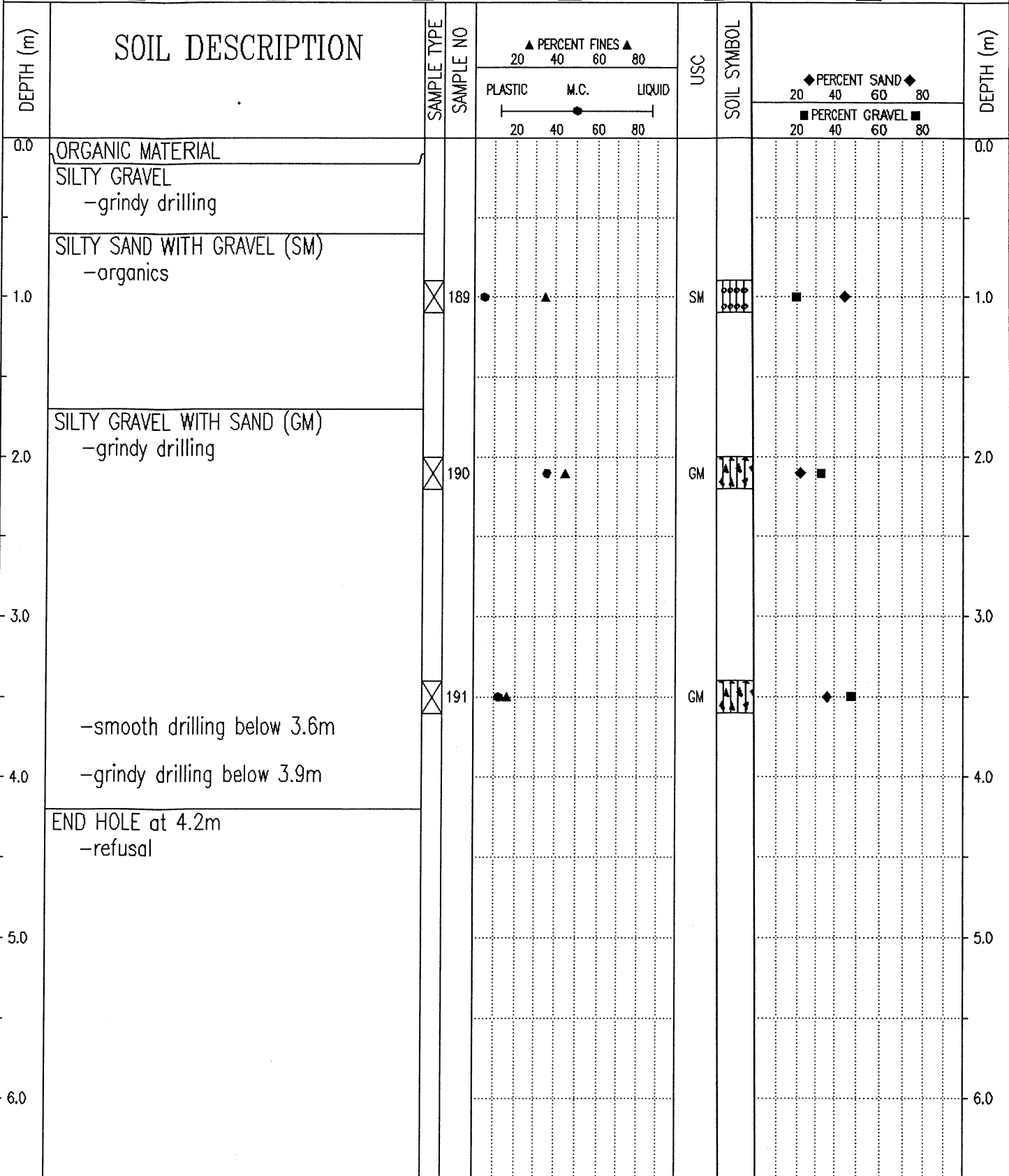
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| LOGGED BY: TF | COMPLETION DEPTH: 5.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/16      |
| Fig. No:      | Page 1 of 1             |

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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING     | TEST HOLE NO: 245-74        |
| SHAKWAK PROJECT  | SEGMENT 16                         | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: STA 1892+540 o/s 12m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                    |                             |



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| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 9.0 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/15      |
|   | Fig. No:      | Page 1 of 1             |

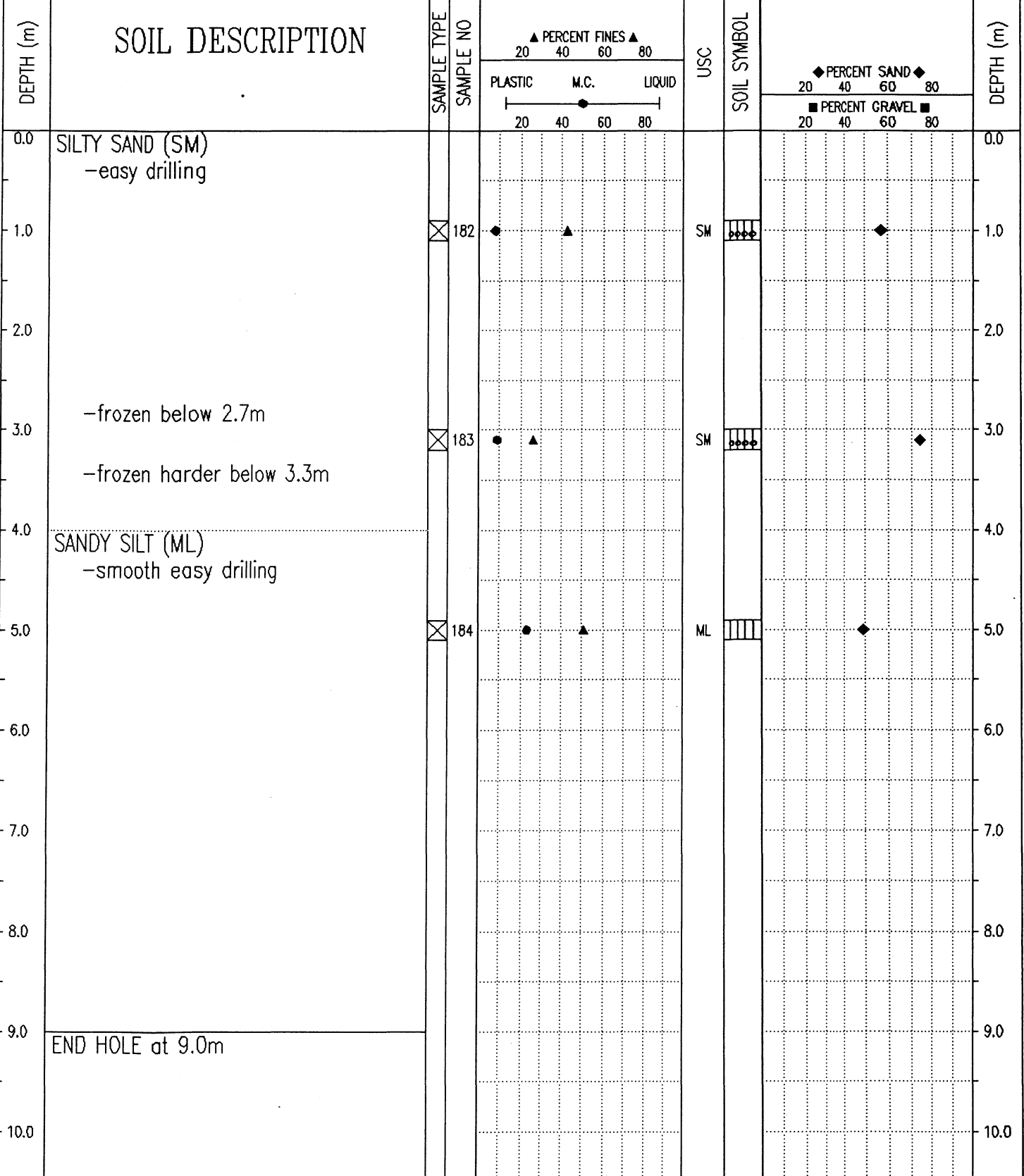
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|--|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 246-76        |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: STA 1892+590         | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |



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| LOGGED BY: TF | COMPLETION DEPTH: 4.2 m |
| REVIEWED BY:  | COMPLETE: 93/09/16      |
| Fig. No:      | Page 1 of 1             |

SAMPLE TYPE  RETURN     S.P.T.     AUGER     BULK     TUBE     CORE

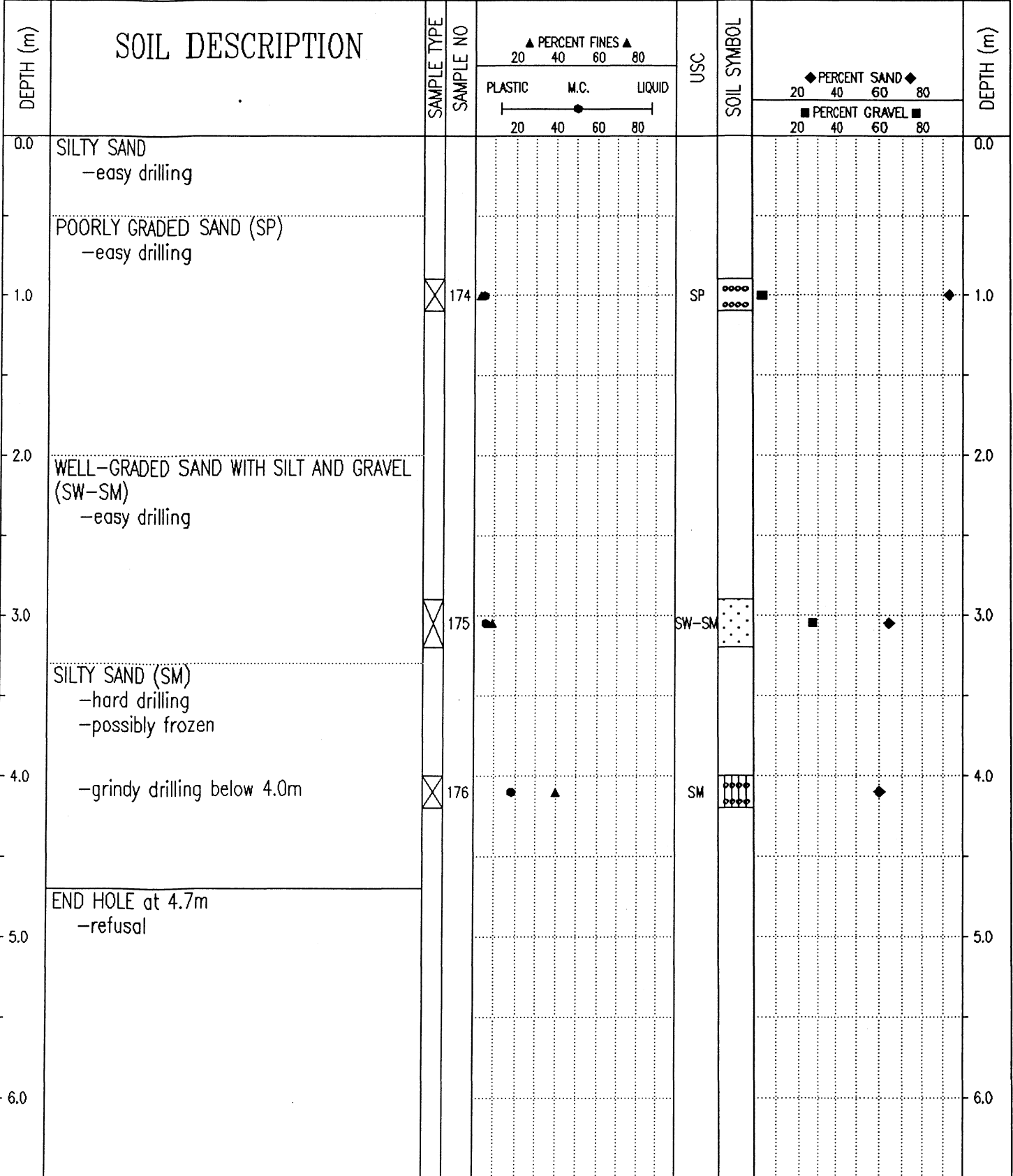


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| LOGGED BY: TF | COMPLETION DEPTH: 9.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/15      |
| Fig. No:      | Page 1 of 1             |

|   |                                    |                             |
|---|------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING     | TEST HOLE NO: 245-71        |
| SHAKWAK PROJECT                           | SEGMENT 16                         | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: STA 1892+650 o/s 25m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

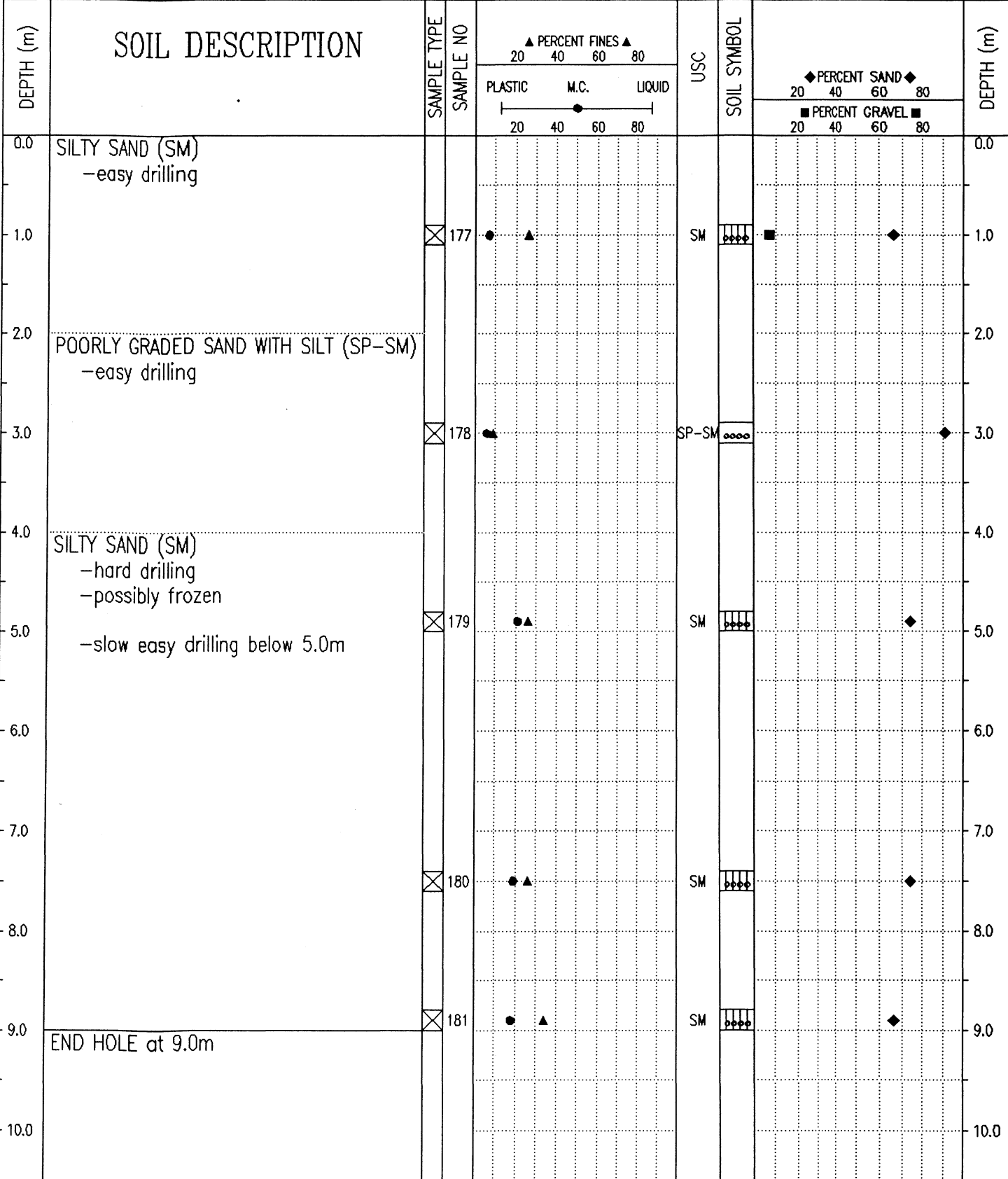


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| LOGGED BY: TF | COMPLETION DEPTH: 4.7 m |
| REVIEWED BY:  | COMPLETE: 93/09/15      |
| Fig. No:      | Page 1 of 1             |

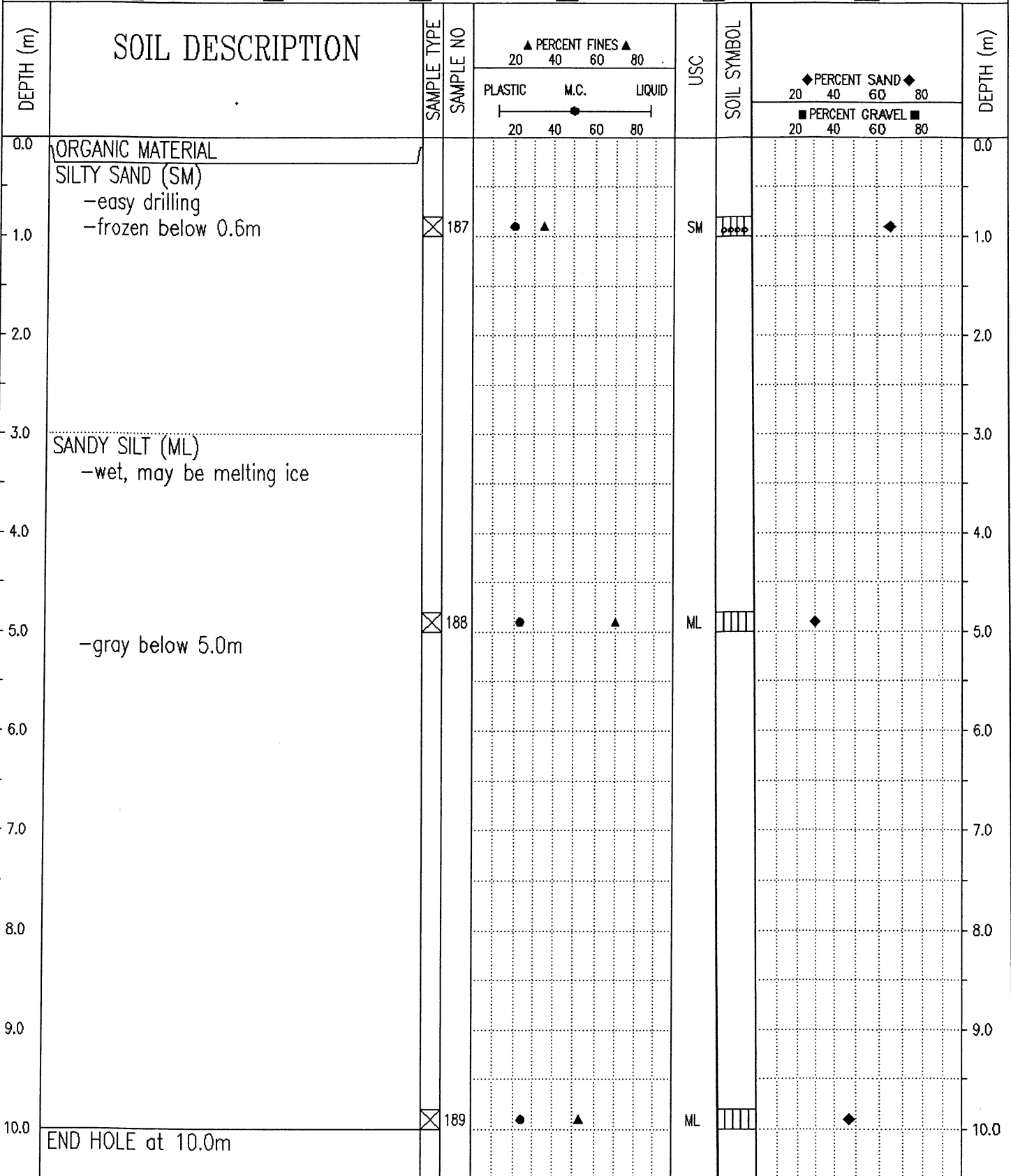
|   |                                    |                             |
|---|------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING     | TEST HOLE NO: 245-72        |
| SHAKWAK PROJECT                           | SEGMENT 16                         | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: STA 1892+675 o/s 15m Lt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 9.0 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/15      |
|   | Fig. No:      | Page 1 of 1             |

|  |                                    |                             |
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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING     | TEST HOLE NO: 246-75        |
| SHAKWAK PROJECT  | SEGMENT 16                         | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: STA 1892+690 o/s 10m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                    |                             |



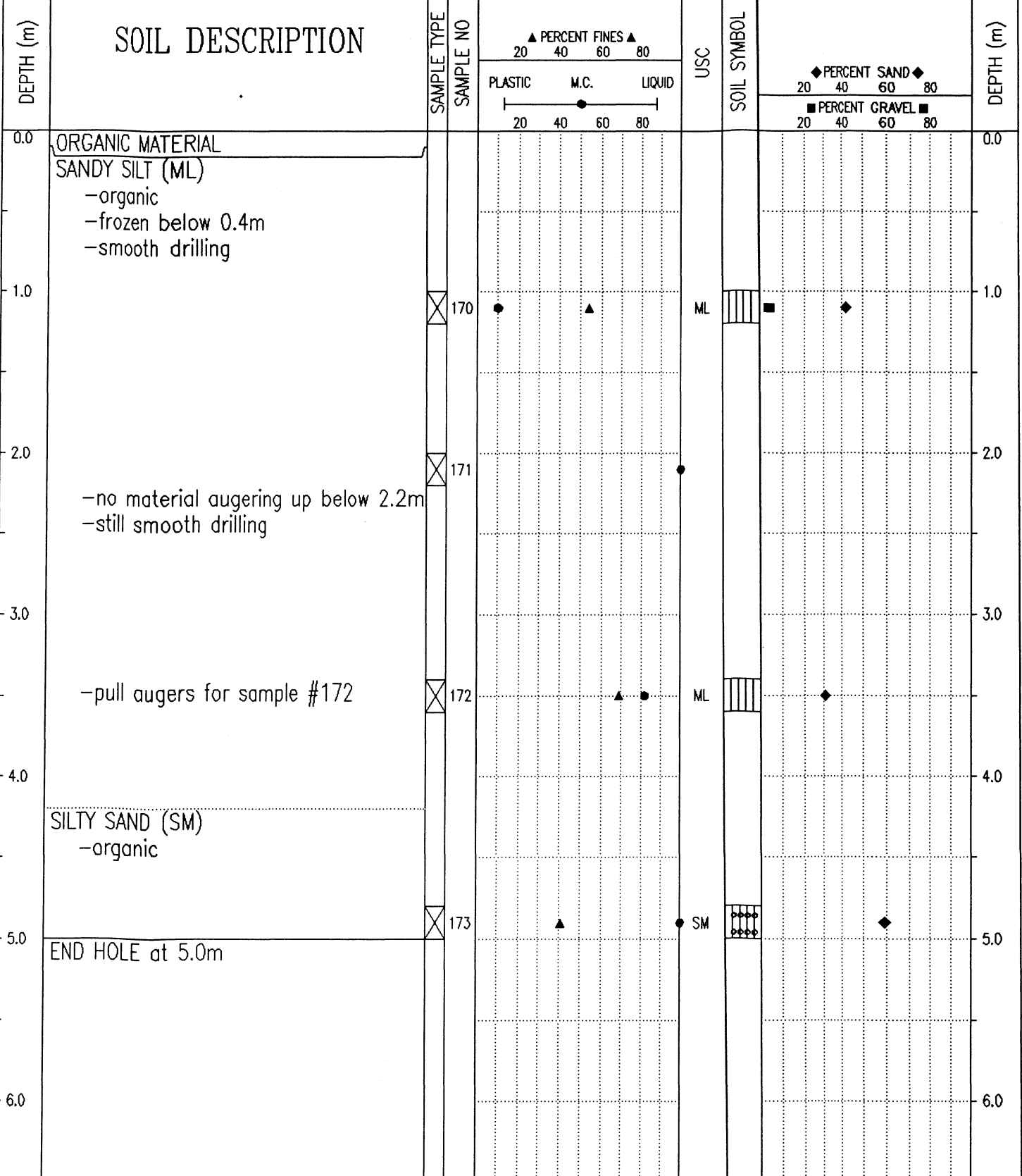
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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 10.0 m  
COMPLETE: 93/09/15

|   |                                |                             |
|---|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 245-70        |
| SHAKWAK PROJECT                           | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: STA 1892+825         | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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Fig. No:

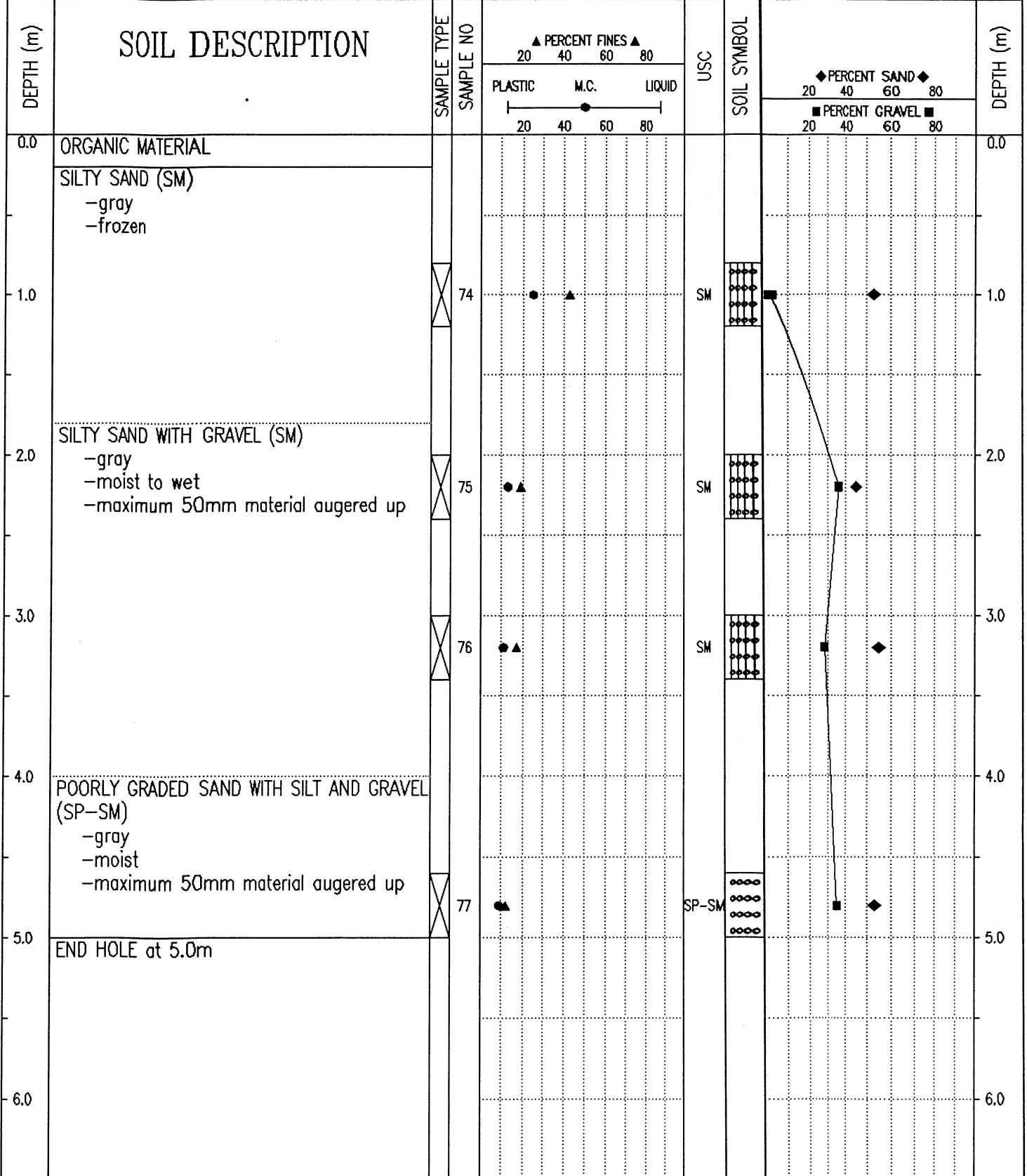
COMPLETION DEPTH: 5.0 m

COMPLETE: 93/09/15

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|--|--|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY RE-CONSTRUCTION                   | TEST PIT NO: 302-23         |
| SHAKWAK PROJECT                        | SEGMENT 16                                       | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan 1892+840 % 20m R <sub>t</sub> | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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Fig. No:

COMPLETION DEPTH: 5.0 m

COMPLETE: 94/07/11

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|---|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 245-69        |
| SHAKWAK PROJECT                           | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: STA 1892+900         | ELEVATION: 0.00 (m)         |

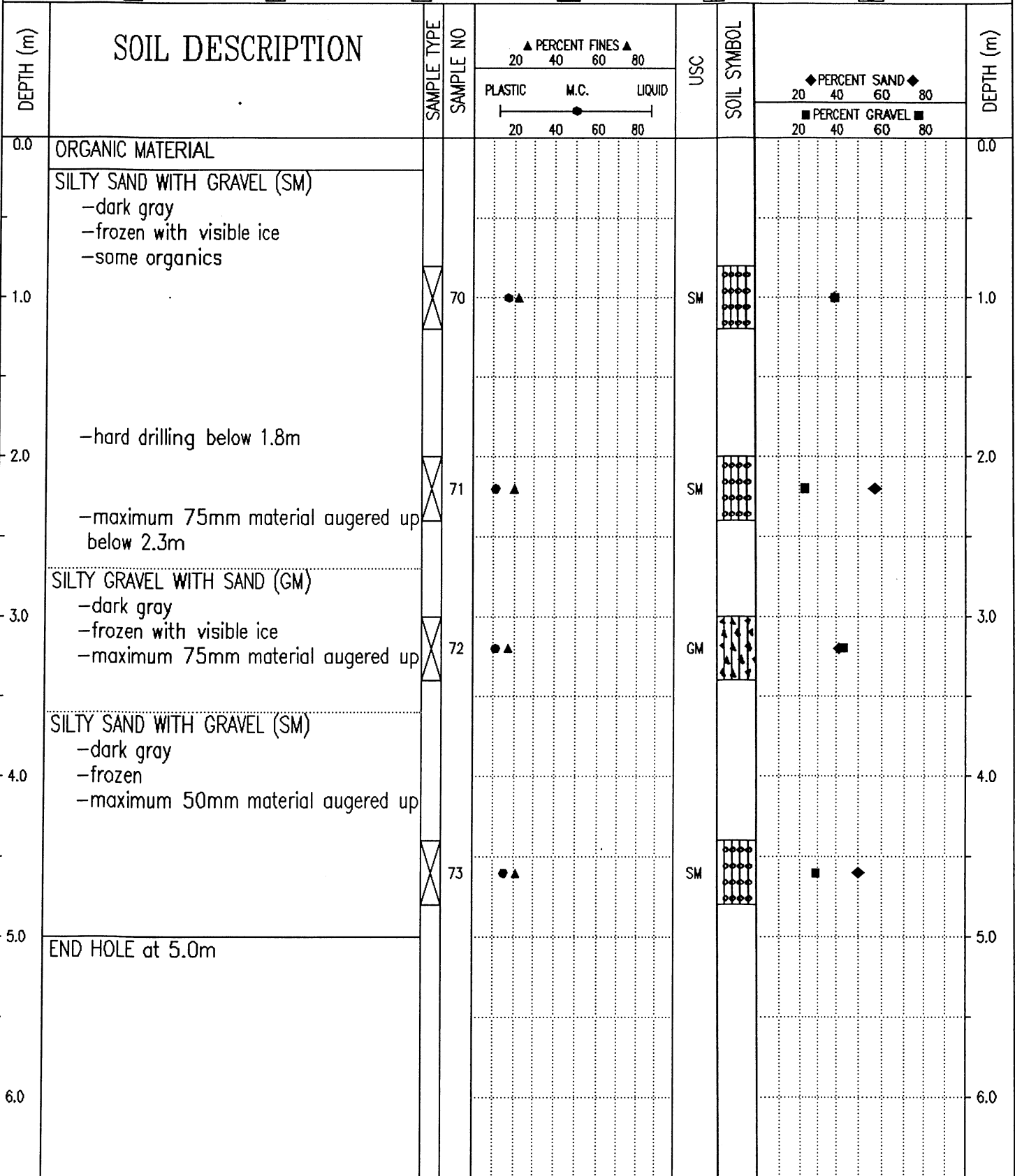
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

| DEPTH (m) | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES |      |        | USC | SOIL SYMBOL | PERCENT SAND |    | PERCENT GRAVEL |     | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|---------------|------|--------|-----|-------------|--------------|----|----------------|-----|-----------|
|           |   |                                     |           | PLASTIC       | M.C. | LIQUID |     |             | 20           | 40 | 60             | 80  |           |
| 0.0       | ORGANIC MATERIAL<br>SILTY GRAVEL WITH SAND (GM)<br>-organics<br>-grindy drilling    |                                     |           |               |      |        |     |             |              |    |                | 0.0 |           |
| 1.0       | ORGANIC MATERIAL<br>-frozen<br>-smooth drilling<br>SILTY GRAVEL<br>-grindy drilling | <input checked="" type="checkbox"/> | 169       | ▲             | ●    |        | GM  | ◄           | ▲            | ▲  | ■              | 1.0 |           |
| 2.0       |   |                                     |           |               |      |        |     |             |              |    |                | 2.0 |           |
| 3.0       | -boulders below 2.6m  |                                     |           |               |      |        |     |             |              |    |                | 3.0 |           |
| 4.0       | END HOLE at 3.2m<br>-refusal  |                                     |           |               |      |        |     |             |              |    |                | 4.0 |           |
| 5.0       |   |                                     |           |               |      |        |     |             |              |    |                | 5.0 |           |
| 6.0       |   |                                     |           |               |      |        |     |             |              |    |                | 6.0 |           |

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| LOGGED BY: TF | COMPLETION DEPTH: 3.2 m |
| REVIEWED BY:  | COMPLETE: 93/09/15      |
| Fig. No:      | Page 1 of 1             |

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| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY RE-CONSTRUCTION                   | TEST HOLE NO: 301-22                       |
| SHAKWAK PROJECT                        | SEGMENT 16                                       | Project No: 092-202101-0312                |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan 1092+940 % 27m R <sub>L</sub> | ELEVATION: 0.00 (m)                        |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN       | <input checked="" type="checkbox"/> S.P.T. |
|  | <input checked="" type="checkbox"/> AUGER        | <input type="checkbox"/> BULK              |
|  | <input type="checkbox"/> TUBE                    | <input type="checkbox"/> CORE              |

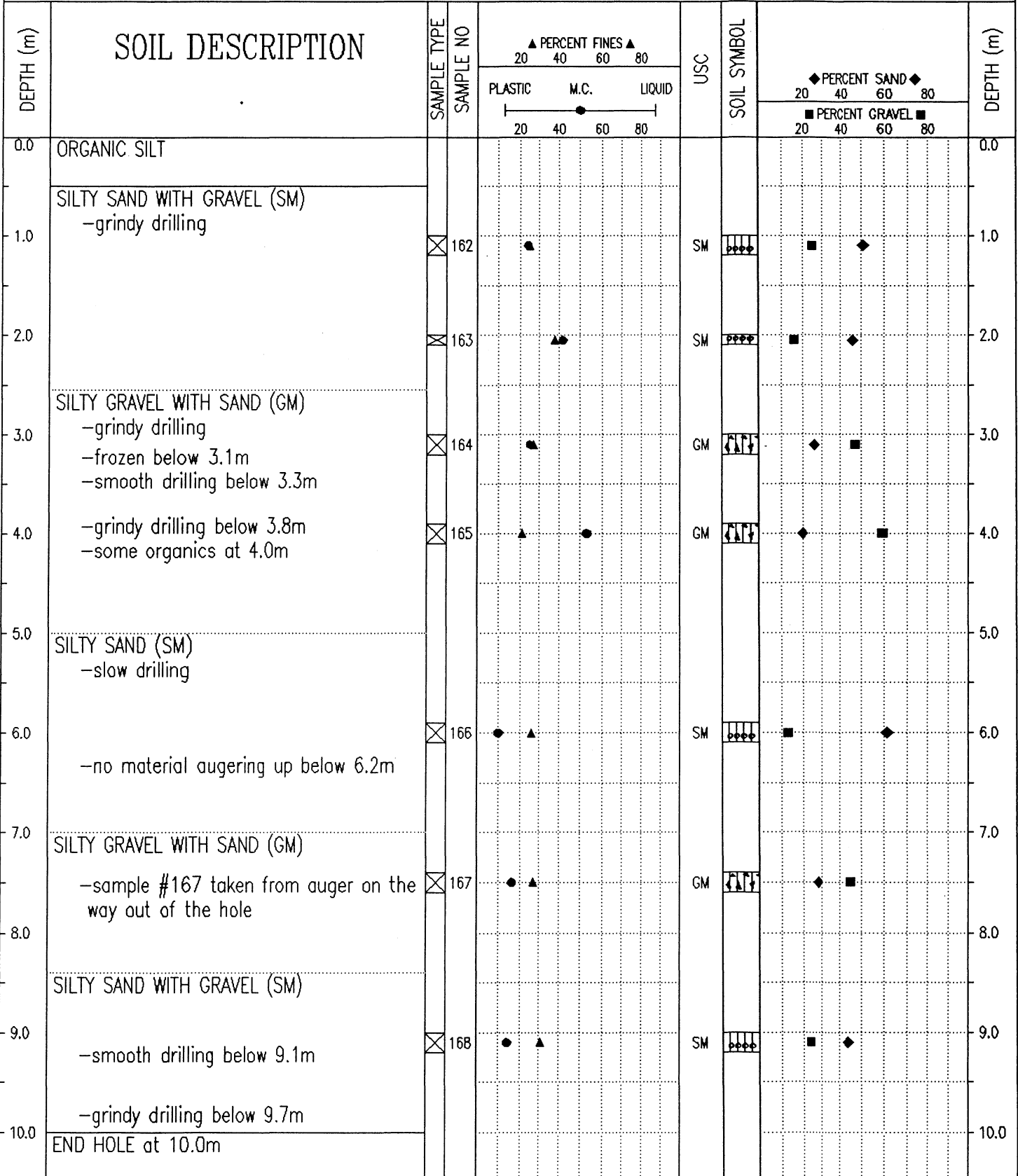


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 Transportation Engineering

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 Fig. No:

COMPLETION DEPTH: 5.0 m  
 COMPLETE: 94/07/11  
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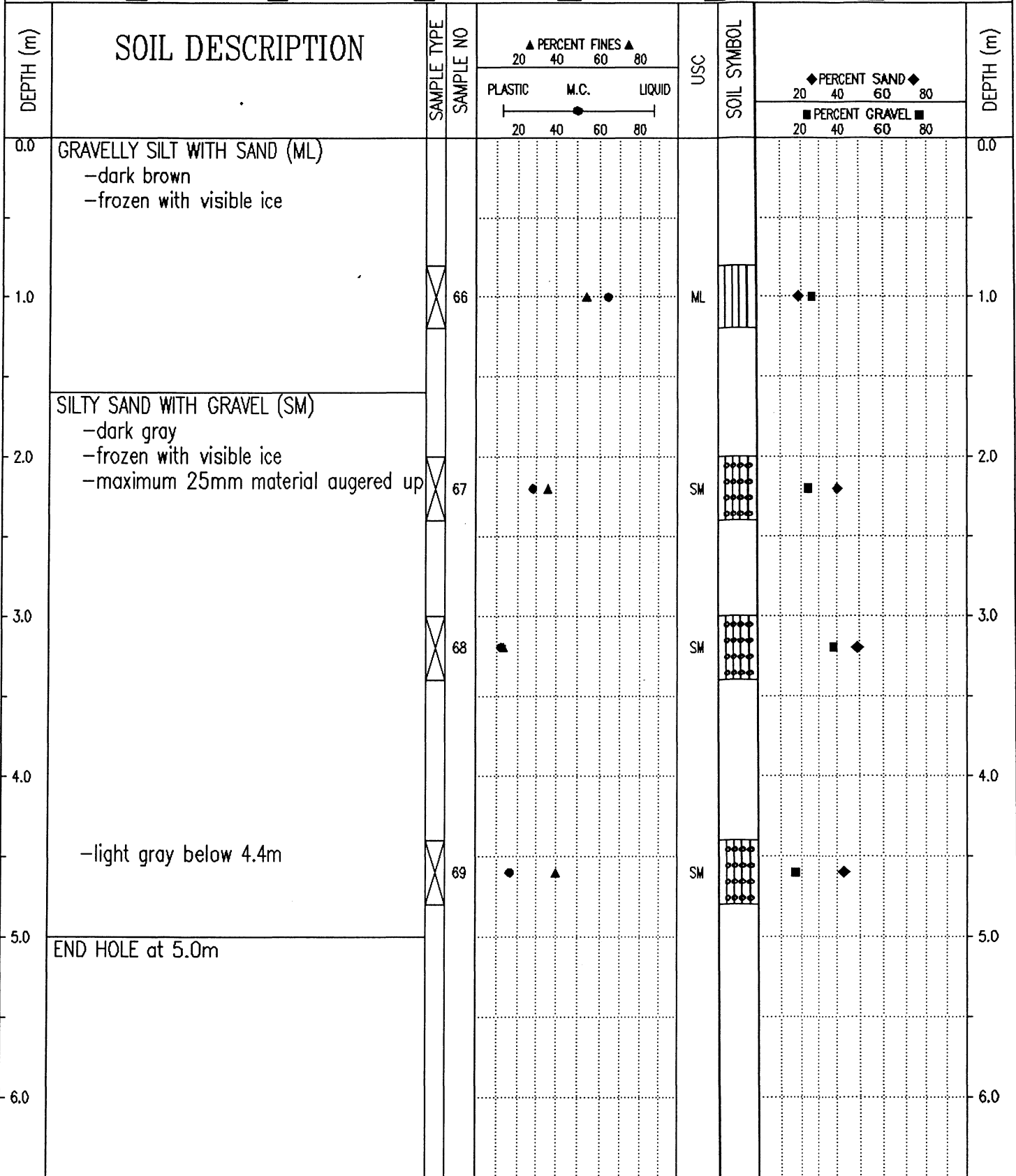
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|---|------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  | ALASKA HIGHWAY PRE-ENGINEERING     | TEST HOLE NO: 245-68        |
| SHAKWAK PROJECT   | SEGMENT 16                         | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER   | LOCATION: STA 1893+000 o/s 10m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                    |                             |



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| LOGGED BY: TF | COMPLETION DEPTH: 10.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/15       |
| Fig. No:      | Page 1 of 1              |

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| SUBSURFACE EXPLORATION AND TEST REPORT  | ALASKA HIGHWAY RE-CONSTRUCTION                    | TEST HOLE NO: 301-21        |
| SHAKWAK PROJECT   | SEGMENT 16  | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER  | LOCATION: See Plan 1893+040 % 15 m R <sub>L</sub> | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |   |                             |

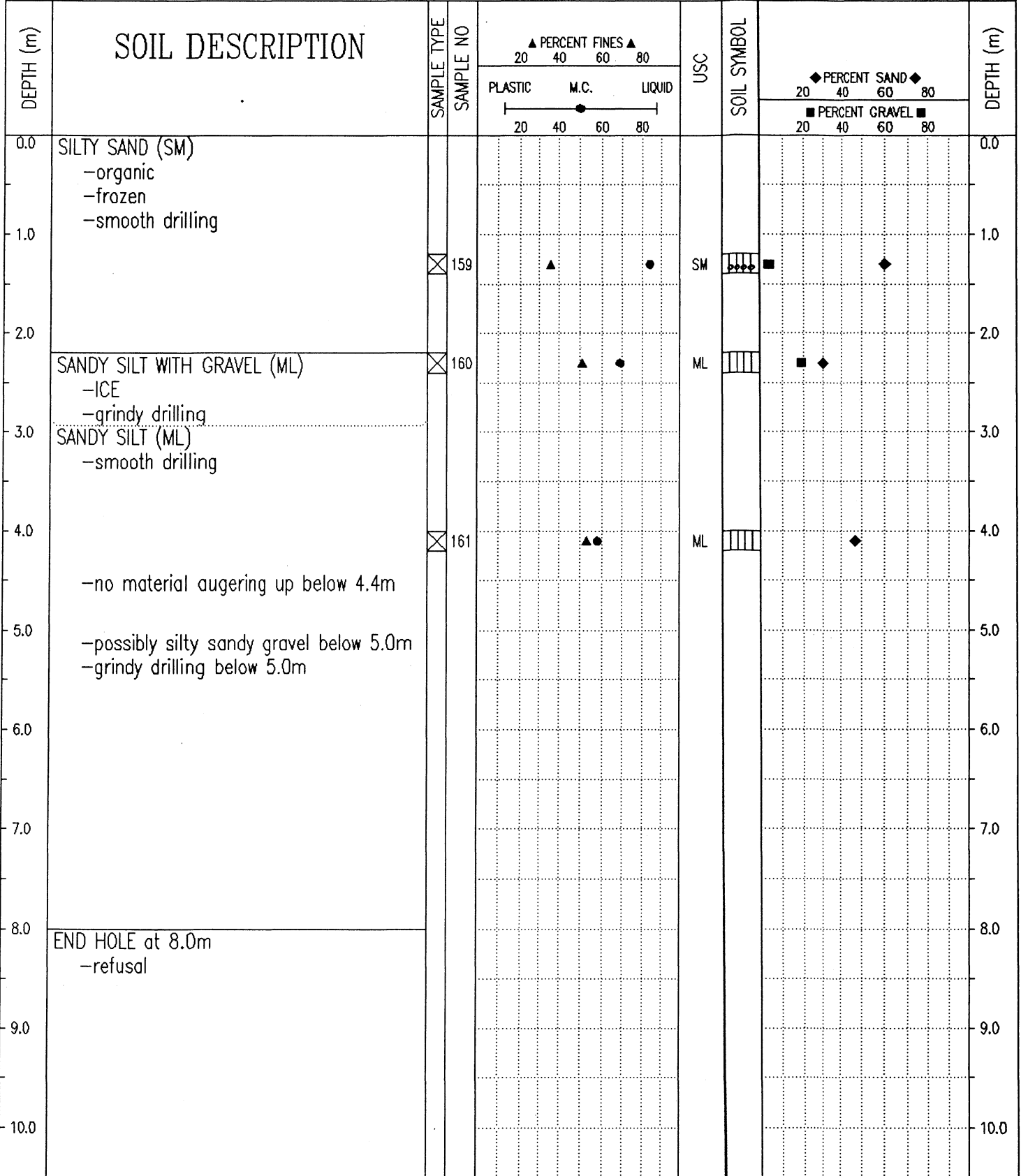


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LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/07/11

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| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING             | TEST HOLE NO: 245-67                       |
| SHAKWAK PROJECT                           | SEGMENT 16                                 | Project No: 202101-0312-193                |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: STA 1893+075 o/s Rt.             | ELEVATION: 0.00 (m)                        |
| SAMPLE TYPE                               | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. |
|   | <input checked="" type="checkbox"/> AUGER  | <input type="checkbox"/> BULK              |
|   | <input type="checkbox"/> TUBE              | <input type="checkbox"/> CORE              |



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LOGGED BY: TF

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 8.0 m

COMPLETE: 93/09/14

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| SUBSURFACE EXPLORATION AND TEST REPORT    |                                     | ALASKA HIGHWAY PRE-ENGINEERING |           | TEST HOLE NO: 245-66        |      |     |             |              |    |                |    |           |
|---|-------------------------------------|--------------------------------|-----------|-----------------------------|------|-----|-------------|--------------|----|----------------|----|-----------|
| SHAKWAK PROJECT                           |                                     | SEGMENT 16                     |           | Project No: 202101-0312-193 |      |     |             |              |    |                |    |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |                                     | LOCATION: STA 1893+150 o/s Rt. |           | ELEVATION: 0.00 (m)         |      |     |             |              |    |                |    |           |
| SAMPLE TYPE                               |                                     | RETURN                         |           | S.P.T.                      |      |     |             |              |    |                |    |           |
|   |                                     | AUGER                          |           | BULK                        |      |     |             |              |    |                |    |           |
|   |                                     |                                |           | TUBE                        |      |     |             |              |    |                |    |           |
|   |                                     |                                |           | CORE                        |      |     |             |              |    |                |    |           |
| DEPTH (m)                                 | SOIL DESCRIPTION                    | SAMPLE TYPE                    | SAMPLE NO | PERCENT FINES               |      | USC | SOIL SYMBOL | PERCENT SAND |    | PERCENT GRAVEL |    | DEPTH (m) |
|   |                                     |                                |           | PLASTIC                     | M.C. |     |             | 20           | 40 | 60             | 80 |           |
| 0.0                                       | ORGANIC MATERIAL                    |                                |           |                             |      |     |             |              |    |                |    | 0.0       |
|   | ORGANIC SILT                        |                                |           |                             |      |     |             |              |    |                |    |           |
|   | -frozen below 0.4m                  |                                |           |                             |      |     |             |              |    |                |    |           |
| 1.0                                       | SANDY SILT (ML)                     | ☒                              | 157       | ▲                           | ●    | ML  | ▨           | ■            | ◆  |                |    | 1.0       |
|   | -frozen                             |                                |           |                             |      |     |             |              |    |                |    |           |
|   | -slow drilling                      |                                |           |                             |      |     |             |              |    |                |    |           |
| 2.0                                       | SILT WITH SAND (ML)                 |                                |           |                             |      |     |             |              |    |                |    | 2.0       |
|   | -ice                                |                                |           |                             |      |     |             |              |    |                |    |           |
|   | -organic                            |                                |           |                             |      |     |             |              |    |                |    |           |
|   | -slow drilling                      |                                |           |                             |      |     |             |              |    |                |    |           |
| 3.0                                       |                                     |                                |           |                             |      |     |             |              |    |                |    | 3.0       |
| 4.0                                       |                                     | ☒                              | 158       | ▲                           | ●    | ML  | ▨           |              | ◆  |                |    | 4.0       |
|   | -grindy drilling below 3.6m         |                                |           |                             |      |     |             |              |    |                |    |           |
|   | -smooth drilling below 4.0m         |                                |           |                             |      |     |             |              |    |                |    |           |
| 5.0                                       |                                     |                                |           |                             |      |     |             |              |    |                |    | 5.0       |
|   | -grindy drilling below 4.9m         |                                |           |                             |      |     |             |              |    |                |    |           |
|   | -no material augering up below 5.0m |                                |           |                             |      |     |             |              |    |                |    |           |
| 6.0                                       |                                     |                                |           |                             |      |     |             |              |    |                |    | 6.0       |
| 7.0                                       |                                     |                                |           |                             |      |     |             |              |    |                |    | 7.0       |
| 8.0                                       |                                     |                                |           |                             |      |     |             |              |    |                |    | 8.0       |
| 9.0                                       | END HOLE at 8.4m                    |                                |           |                             |      |     |             |              |    |                |    | 9.0       |
| 10.0                                      |                                     |                                |           |                             |      |     |             |              |    |                |    | 10.0      |

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Fig. No:

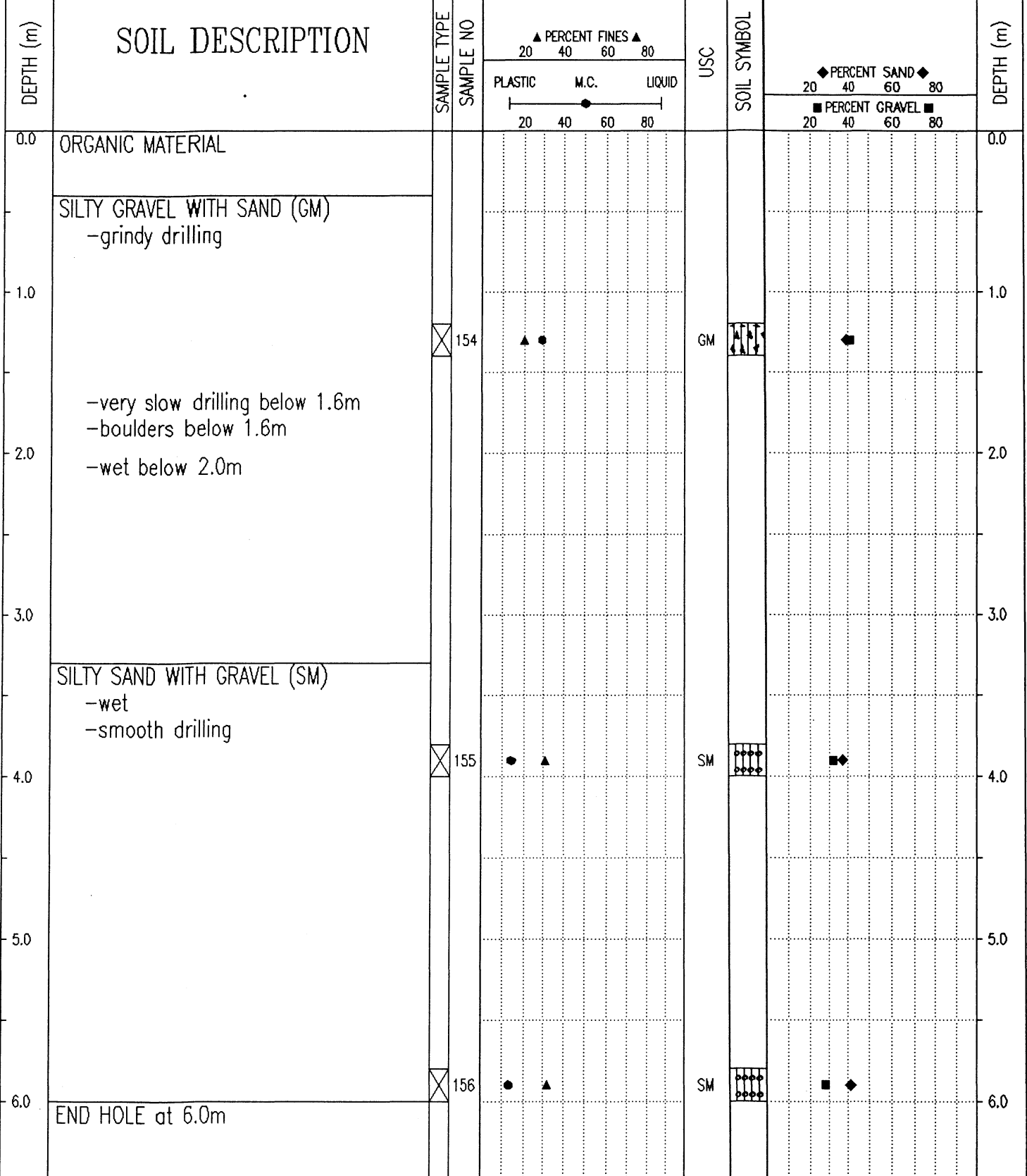
COMPLETION DEPTH: 8.4 m

COMPLETE: 93/09/12

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|   |                                |                             |
|---|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 245-65        |
| SHAKWAK PROJECT                           | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: STA 1893+225 o/s Rt. | ELEVATION: 0.00 (m)         |

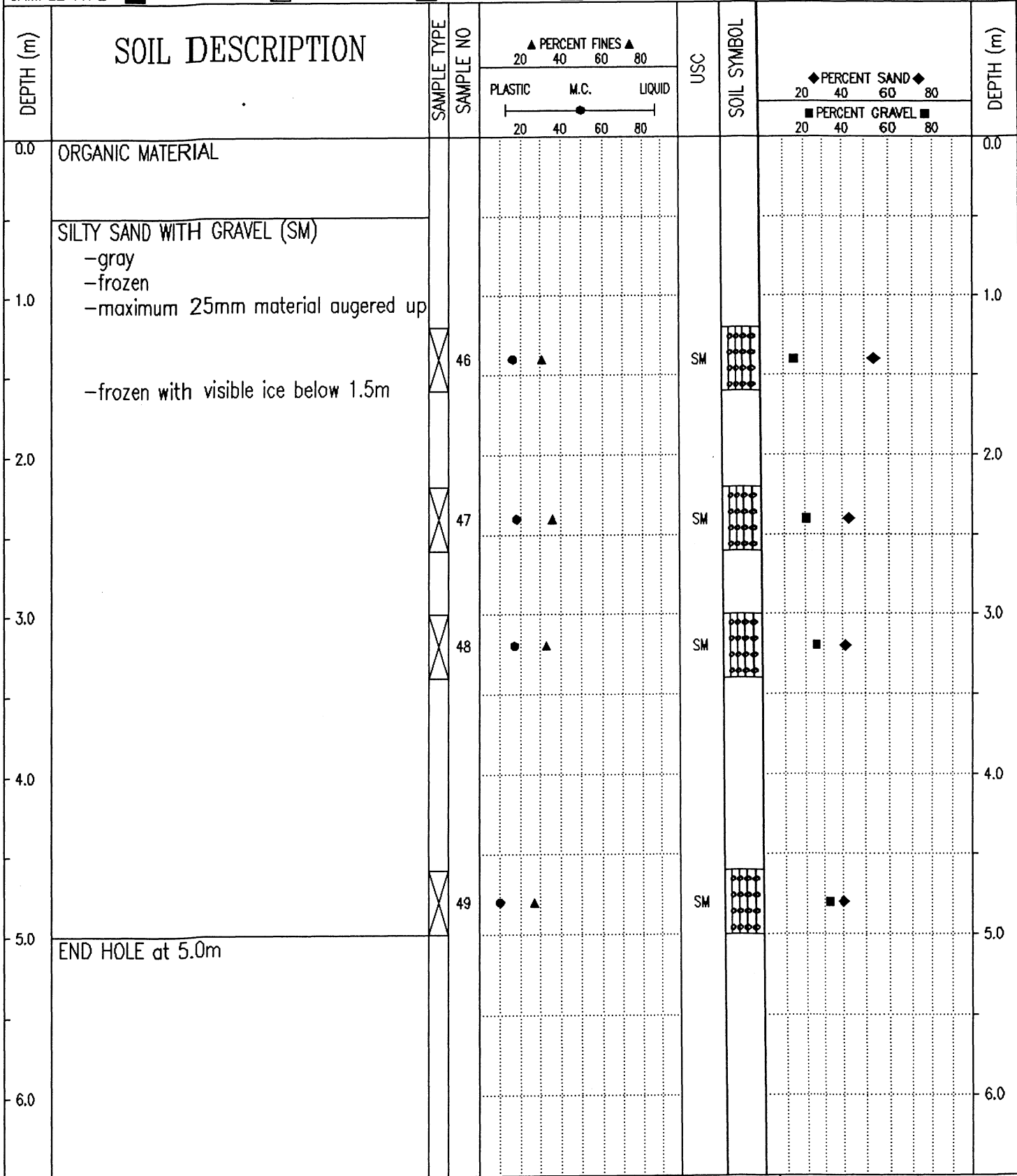
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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Fig. No:  
COMPLETION DEPTH: 6.0 m  
COMPLETE: 93/09/12  
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|  |                                      |                             |
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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY RE-CONSTRUCTION       | TEST HOLE NO: 301-14        |
| SHAKWAK PROJECT  | SEGMENT 16                           | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER   | LOCATION: See Plan 1893+240 % 23m Rt | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                      |                             |



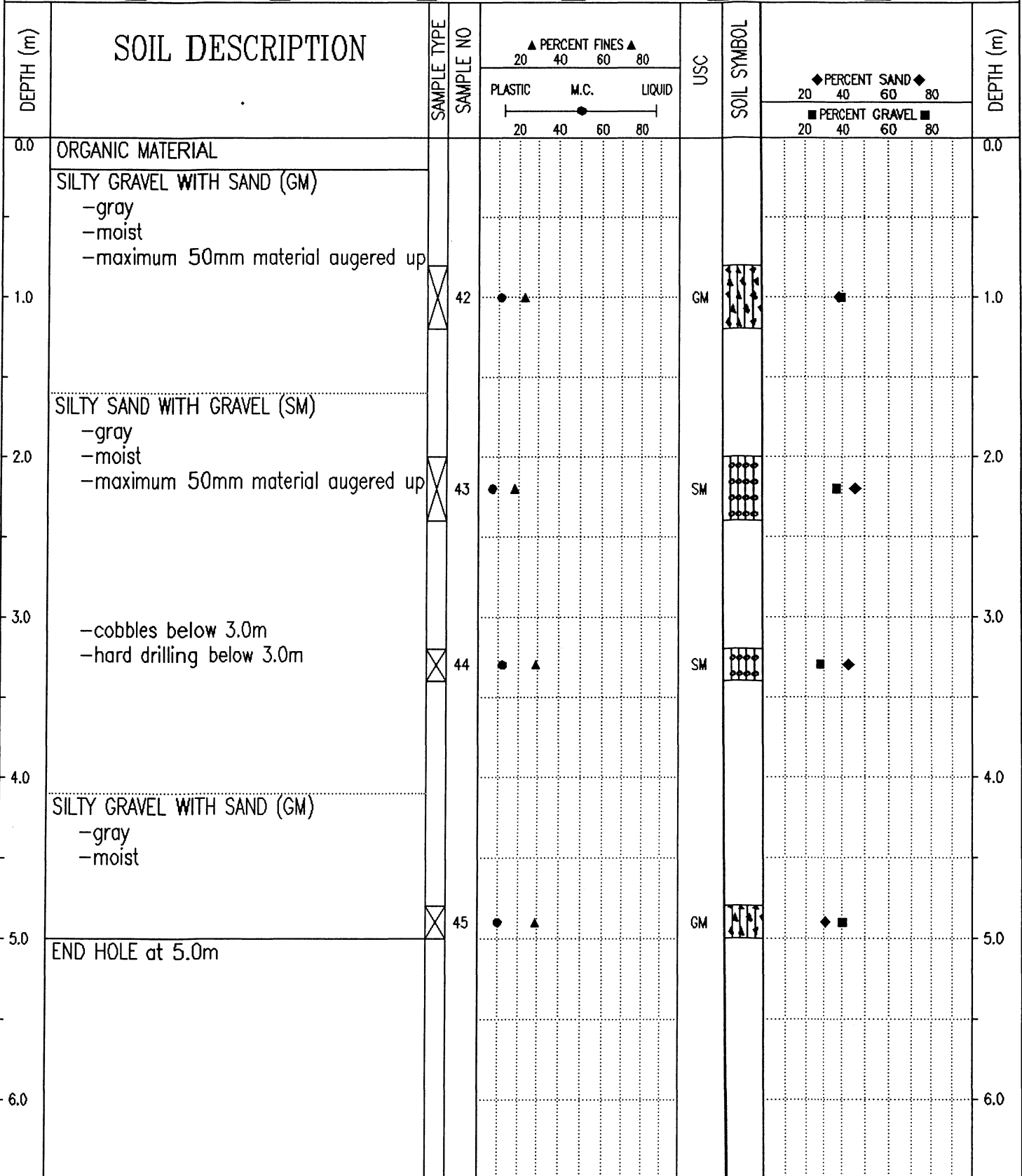
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 Fig. No:

COMPLETION DEPTH: 5.0 m  
 COMPLETE: 94/07/07  
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| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY RE-CONSTRUCTION             | TEST HOLE NO: 301-13                       |
| SHAKWAK PROJECT                        | SEGMENT 16                                 | Project No: 092-202101-0312                |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan 1893+290 % 22 m Rt      | ELEVATION: 0.00 (m)                        |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. |
|  | <input checked="" type="checkbox"/> AUGER  | <input type="checkbox"/> BULK              |
|  | <input type="checkbox"/> TUBE              | <input type="checkbox"/> CORE              |



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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/07/07

| SUBSURFACE EXPLORATION AND TEST REPORT   |   | ALASKA HIGHWAY PRE-ENGINEERING      |           | TEST HOLE NO: 245-63        |      |        |     |             |              |    |                |     |           |
|--|---|-------------------------------------|-----------|-----------------------------|------|--------|-----|-------------|--------------|----|----------------|-----|-----------|
| SHAKWAK PROJECT  |   | SEGMENT 16                          |           | Project No: 202101-0312-193 |      |        |     |             |              |    |                |     |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  |   | LOCATION: STA 1893+300              |           | ELEVATION: 0.00 (m)         |      |        |     |             |              |    |                |     |           |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |   |                                     |           |                             |      |        |     |             |              |    |                |     |           |
| DEPTH (m)  | SOIL DESCRIPTION  | SAMPLE TYPE                         | SAMPLE NO | PERCENT FINES               |      |        | USC | SOIL SYMBOL | PERCENT SAND |    | PERCENT GRAVEL |     | DEPTH (m) |
|  |   |                                     |           | PLASTIC                     | M.C. | LIQUID |     |             | 20           | 40 | 60             | 80  |           |
| 0.0  | ROAD FILL<br>-easy drilling                               |                                     |           |                             |      |        |     |             |              |    |                | 0.0 |           |
|  | ORGANIC SILT<br>-easy drilling                            |                                     |           |                             |      |        |     |             |              |    |                |     |           |
| 1.0  | SILTY SAND WITH GRAVEL (SM)<br>-organic<br>-easy drilling | <input checked="" type="checkbox"/> | 148       |                             |      |        | SM  |             |              |    |                | 1.0 |           |
| 2.0  |   |                                     |           |                             |      |        |     |             |              |    |                | 2.0 |           |
| 3.0  |   |                                     |           |                             |      |        |     |             |              |    |                | 3.0 |           |
| 4.0  | SILTY GRAVEL WITH SAND (GM)<br>-organic                   |                                     |           |                             |      |        |     |             |              |    |                | 4.0 |           |
| 5.0  | END HOLE at 5.0m  | <input checked="" type="checkbox"/> | 149       |                             |      |        | GM  |             |              |    |                | 5.0 |           |
| 6.0  |   |                                     |           |                             |      |        |     |             |              |    |                | 6.0 |           |

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COMPLETION DEPTH: 5.0 m

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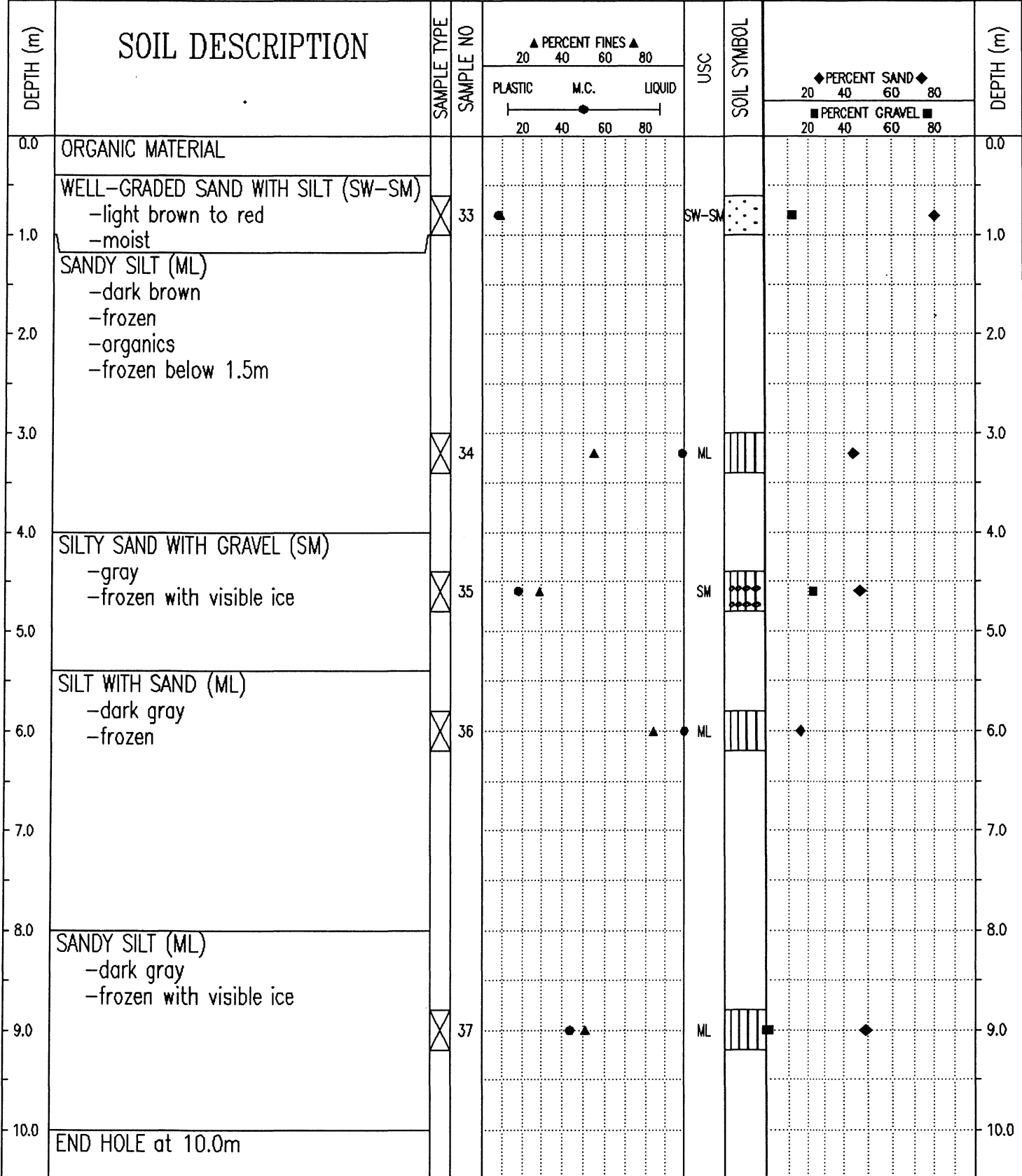
COMPLETE: 93/09/12

Fig. No:

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| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY RE-CONSTRUCTION | TEST HOLE NO: 301-11        |
| SHAKWAK PROJECT                        | SEGMENT 16                     | Project No: 092-202101-0312 |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan /893 + 400  | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

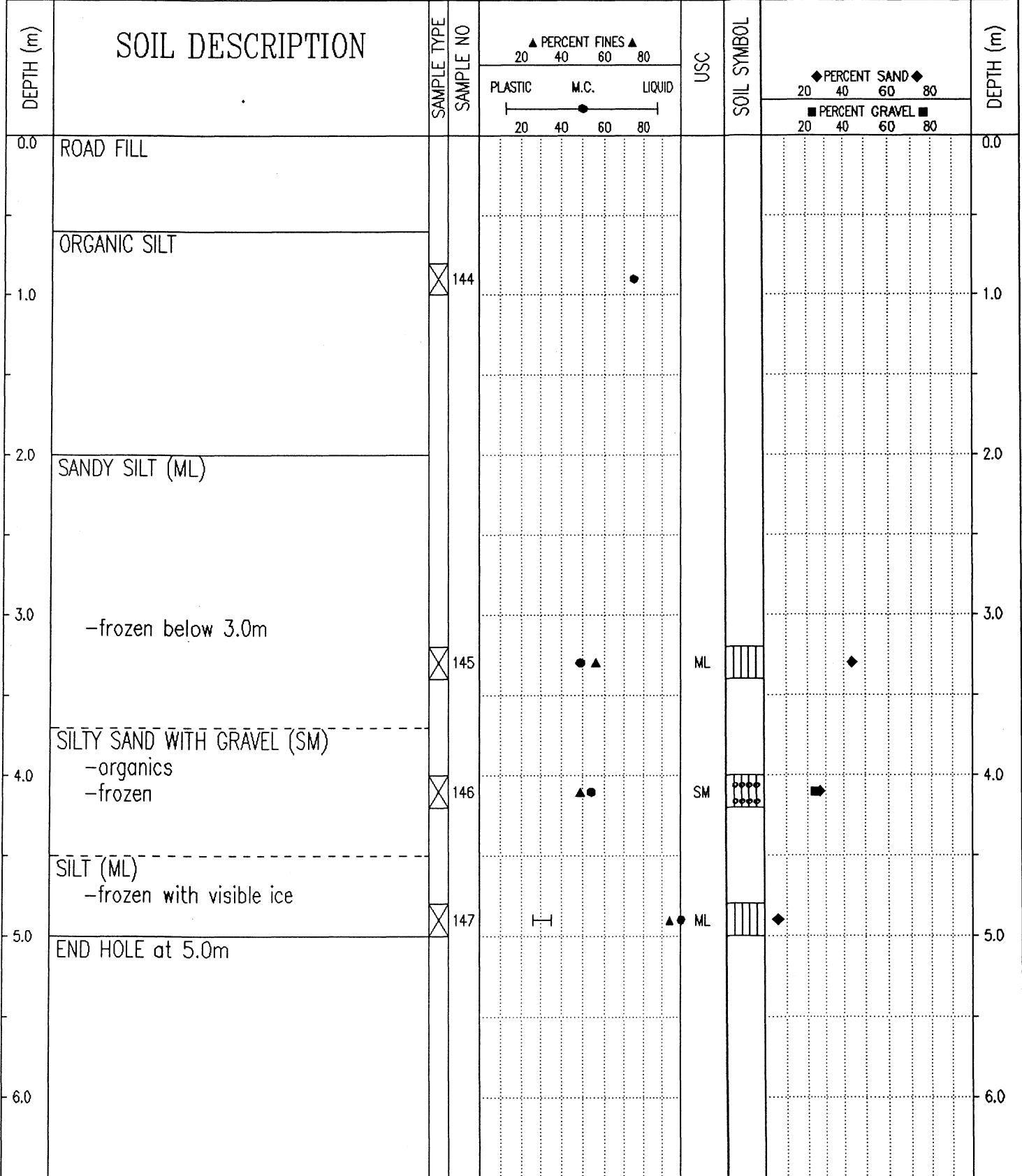


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 Fig. No:  
 COMPLETION DEPTH: 10.0 m  
 COMPLETE: 94/07/07  
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|---|------------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING     | TEST HOLE NO: 245-62        |
| SHAKWAK PROJECT                           | SEGMENT 16                         | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: STA 1893+400 o/s 10m Rt. | ELEVATION: 0.00 (m)         |

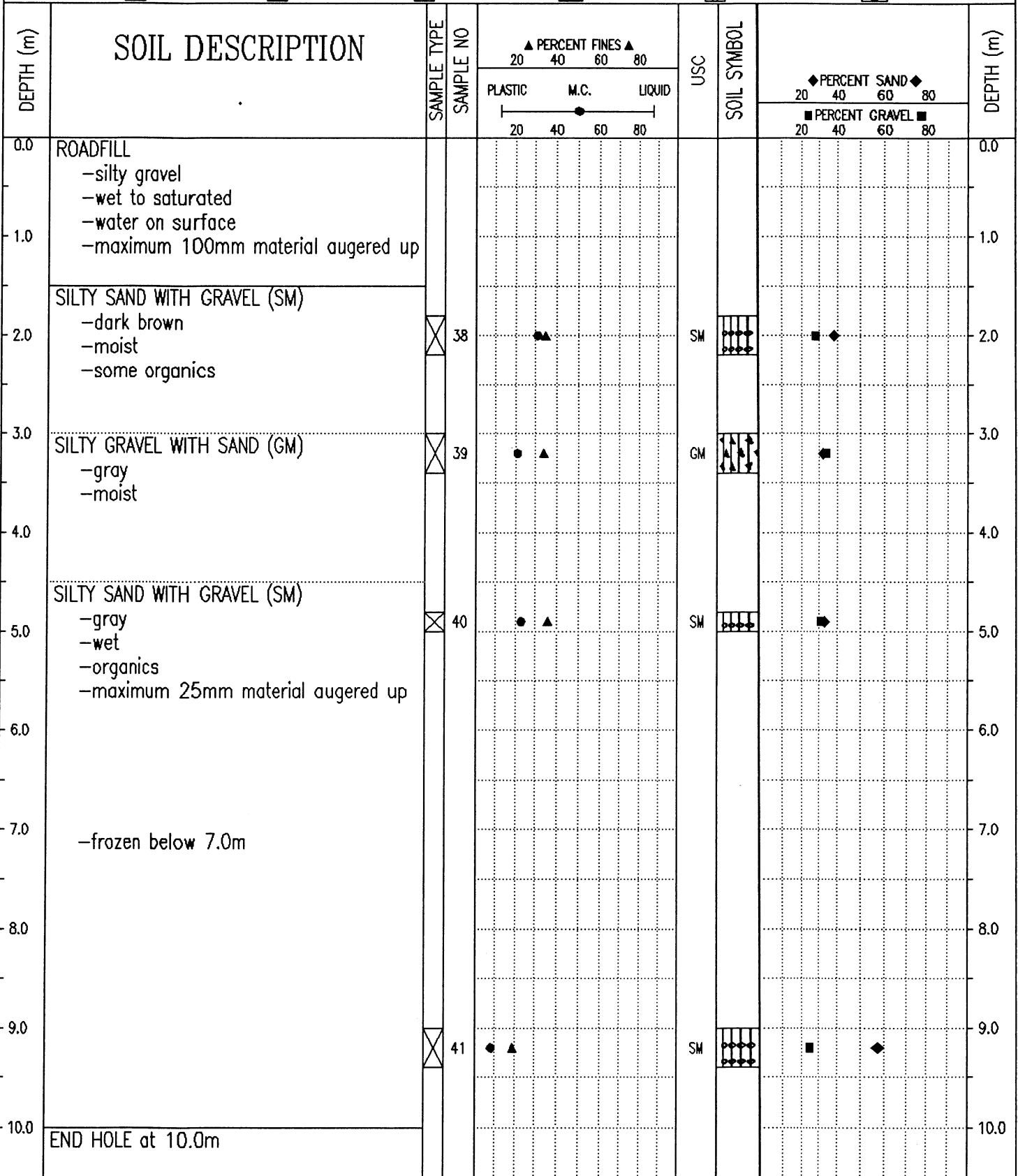
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 5.0 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/11      |
|   | Fig. No:      | Page 1 of 1             |

| SUBSURFACE EXPLORATION AND TEST REPORT            |  | ALASKA HIGHWAY RE-CONSTRUCTION |           | TEST HOLE NO: 301-10        |      |      |             |                         |    |                |    |           |
|---|--|--------------------------------|-----------|-----------------------------|------|------|-------------|-------------------------|----|----------------|----|-----------|
| SHAKWAK PROJECT                                   |  | SEGMENT 16                     |           | Project No: 092-202101-0312 |      |      |             |                         |    |                |    |           |
| DRILL: B40L 150mm SOLID STEM AUGER                |  | LOCATION: See Plan /893 + 420  |           | ELEVATION: 0.00 (m)         |      |      |             |                         |    |                |    |           |
| SAMPLE TYPE                                       |  | RETURN                         | S.P.T.    | AUGER                       | BULK | TUBE | CORE        |                         |    |                |    |           |
| DEPTH (m)   | SOIL DESCRIPTION   | SAMPLE TYPE                    | SAMPLE NO | PERCENT FINES               |      | USC  | SOIL SYMBOL | PERCENT SAND            |    | PERCENT GRAVEL |    | DEPTH (m) |
|   |  |                                |           | PLASTIC                     | M.C. |      |             | LIQUID                  | 20 | 40             | 60 |           |
| 0.0   | ORGANIC MATERIAL   |                                |           |                             |      |      |             |                         |    |                |    | 0.0       |
|   | SILT (ML)<br>-dark gray<br>-wet<br>-organics                               |                                |           |                             |      |      |             |                         |    |                |    |           |
| 1.0   | -frozen with visible ice below 1.3m  | X                              | 29        |                             |      |      | ML          |                         |    |                |    | 1.0       |
| 2.0   | SANDY SILT (ML)<br>-dark brown<br>-wet to frozen                           | X                              | 30        |                             |      |      | ML          |                         |    |                |    | 2.0       |
| 3.0   | SILT WITH SAND (ML)<br>-dark gray<br>-frozen with visible ice<br>-organics | X                              | 31        |                             |      |      | ML          |                         |    |                |    | 3.0       |
| 4.0   |  |                                |           |                             |      |      |             |                         |    |                |    | 4.0       |
| 5.0   |  |                                |           |                             |      |      |             |                         |    |                |    | 5.0       |
| 6.0   | SILTY SAND WITH GRAVEL (SM)<br>-light gray<br>-frozen                      | X                              | 32        |                             |      |      | SM          |                         |    |                |    | 6.0       |
|   | END HOLE at 6.0m<br>-refusal   |                                |           |                             |      |      |             |                         |    |                |    | 6.0       |
| Government of Yukon<br>Transportation Engineering |  |                                |           | LOGGED BY: DA               |      |      |             | COMPLETION DEPTH: 6.0 m |    |                |    |           |
|   |  |                                |           | REVIEWED BY:                |      |      |             | COMPLETE: 94/07/07      |    |                |    |           |
|   |  |                                |           | Fig. No:                    |      |      |             | Page 1 of 1             |    |                |    |           |

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| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY RE-CONSTRUCTION                  | TEST HOLE NO: 301-12                       |
| SHAKWAK PROJECT                        | SEGMENT 16                                      | Project No: 092-202101-0312                |
| DRILL: B40L 150mm SOLID STEM AUGER     | LOCATION: See Plan 1892+420% 30m R <sub>L</sub> | ELEVATION: 0.00 (m)                        |
| SAMPLE TYPE                            | <input checked="" type="checkbox"/> RETURN      | <input checked="" type="checkbox"/> S.P.T. |
|  | <input checked="" type="checkbox"/> AUGER       | <input type="checkbox"/> BULK              |
|  | <input type="checkbox"/> TUBE                   | <input type="checkbox"/> CORE              |

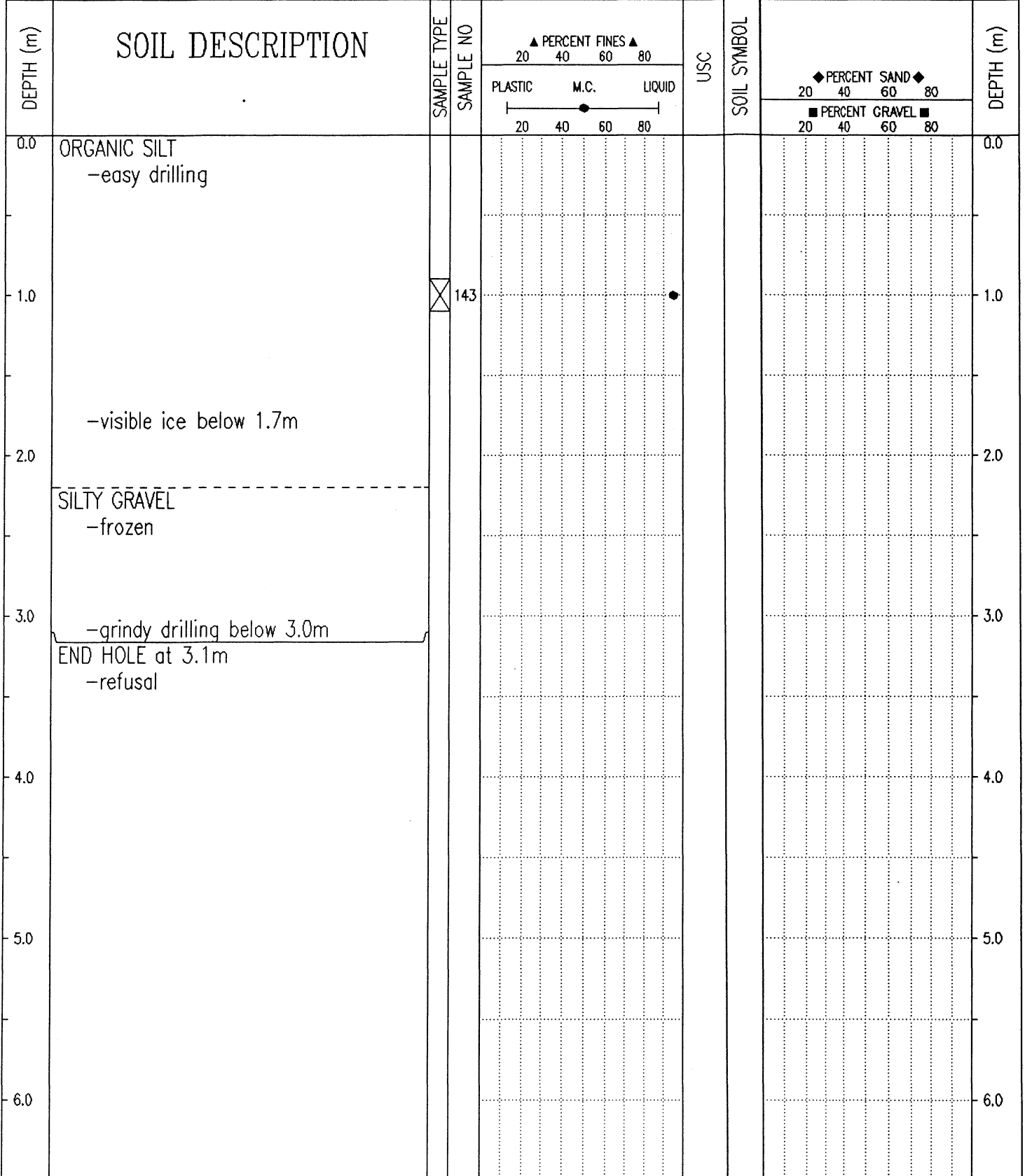


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Transportation Engineering

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| LOGGED BY: DA | COMPLETION DEPTH: 10.0 m |
| REVIEWED BY:  | COMPLETE: 94/07/07       |
| Fig. No:      | Page 1 of 1              |

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| SUBSURFACE EXPLORATION AND TEST REPORT    | ALASKA HIGHWAY PRE-ENGINEERING     | TEST HOLE NO: 245-61        |
| SHAKWAK PROJECT                           | SEGMENT 16                         | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER | LOCATION: STA 1893+500 o/s 10m Rt. | ELEVATION: 0.00 (m)         |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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|---|---------------|-------------------------|
| Government of Yukon<br>Transportation Engineering | LOGGED BY: TF | COMPLETION DEPTH: 3.1 m |
|   | REVIEWED BY:  | COMPLETE: 93/09/11      |
|   | Fig. No:      | Page 1 of 1             |

| SUBSURFACE EXPLORATION AND TEST REPORT    |  | ALASKA HIGHWAY PRE-ENGINEERING    |           | TEST HOLE NO: 245-60        |      |     |             |              |    |                |           |
|---|--|-----------------------------------|-----------|-----------------------------|------|-----|-------------|--------------|----|----------------|-----------|
| SHAKWAK PROJECT                           |  | SEGMENT 16                        |           | Project No: 202101-0312-193 |      |     |             |              |    |                |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |  | LOCATION: STA 1893+600 o/s 4m Rt. |           | ELEVATION: 0.00 (m)         |      |     |             |              |    |                |           |
| SAMPLE TYPE                               |  | RETURN                            |           | S.P.T.                      |      |     |             |              |    |                |           |
|   |  | AUGER                             |           | BULK                        |      |     |             |              |    |                |           |
|   |  |                                   |           | TUBE                        |      |     |             |              |    |                |           |
|   |  |                                   |           | CORE                        |      |     |             |              |    |                |           |
| DEPTH (m)                                 | SOIL DESCRIPTION                                   | SAMPLE TYPE                       | SAMPLE NO | PERCENT FINES               |      | USC | SOIL SYMBOL | PERCENT SAND |    | PERCENT GRAVEL | DEPTH (m) |
|   |  |                                   |           | PLASTIC                     | M.C. |     |             | 20           | 40 |                |           |
| 0.0                                       | ORGANIC MATERIAL<br>ORGANIC SILT<br>-easy drilling |                                   |           |                             |      |     |             |              |    |                | 0.0       |
| 1.0                                       | -frozen below 1.1m<br><br>-visible ice below 1.6m  |                                   | 140       |                             |      |     |             |              |    |                | 1.0       |
| 2.0                                       |  |                                   |           |                             |      |     |             |              |    |                | 2.0       |
| 3.0                                       | SILTY SAND (SM)<br>-visible ice<br>-easy drilling  |                                   | 141       |                             |      |     | SM          |              |    |                | 3.0       |
| 4.0                                       |  |                                   |           |                             |      |     |             |              |    |                | 4.0       |
| 5.0                                       | SILT (ML)<br>-visible ice                          |                                   | 142       |                             |      |     | ML          |              |    |                | 5.0       |
| 5.0                                       | END HOLE at 5.0m                                   |                                   |           |                             |      |     |             |              |    |                | 5.0       |
| 6.0                                       |  |                                   |           |                             |      |     |             |              |    |                | 6.0       |

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COMPLETION DEPTH: 5.0 m

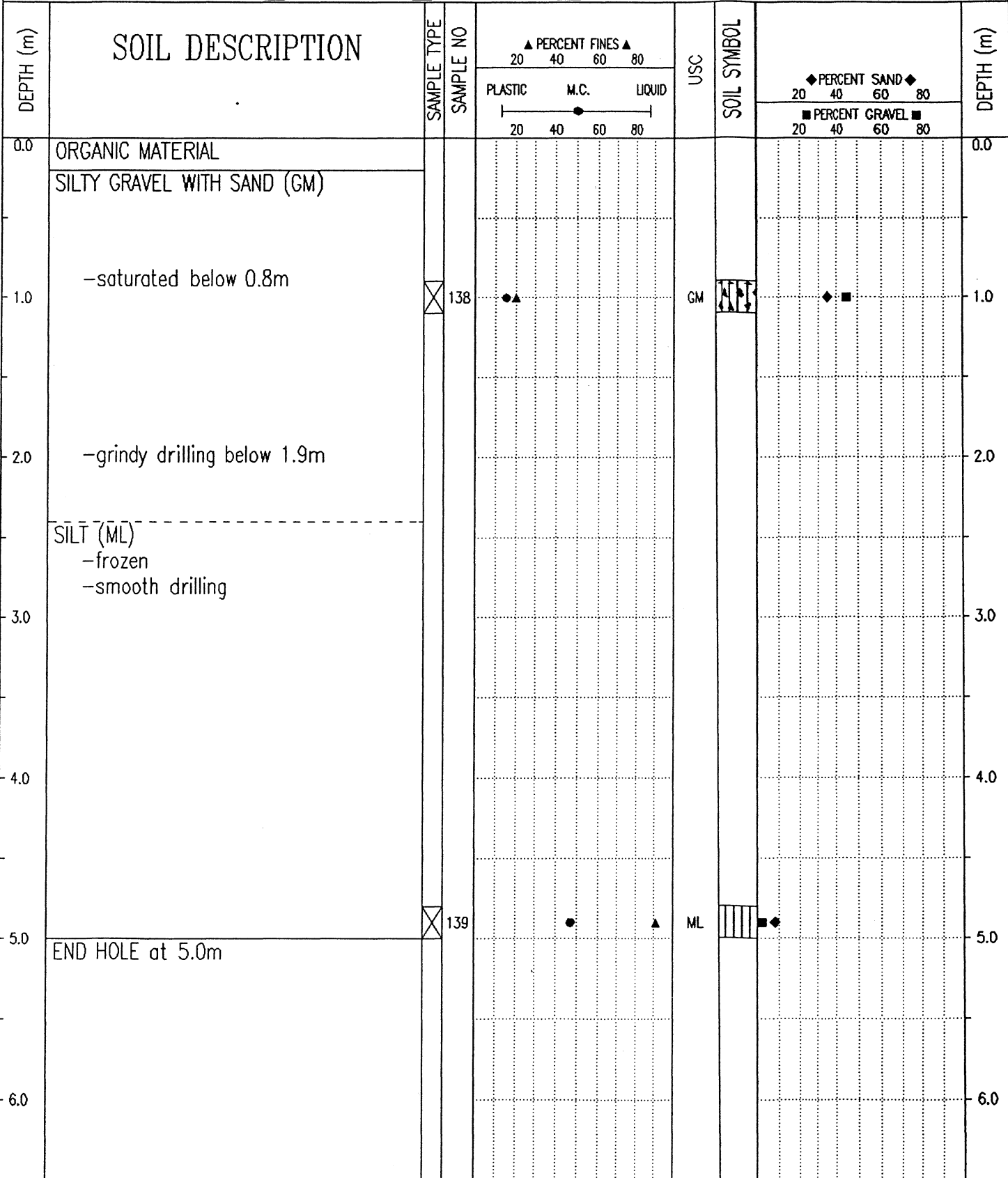
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COMPLETE: 93/09/11

Fig. No:

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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING    | TEST HOLE NO: 245-59        |
| SHAKWAK PROJECT  | SEGMENT 16                        | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: STA 1893+700 o/s 5m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                   |                             |

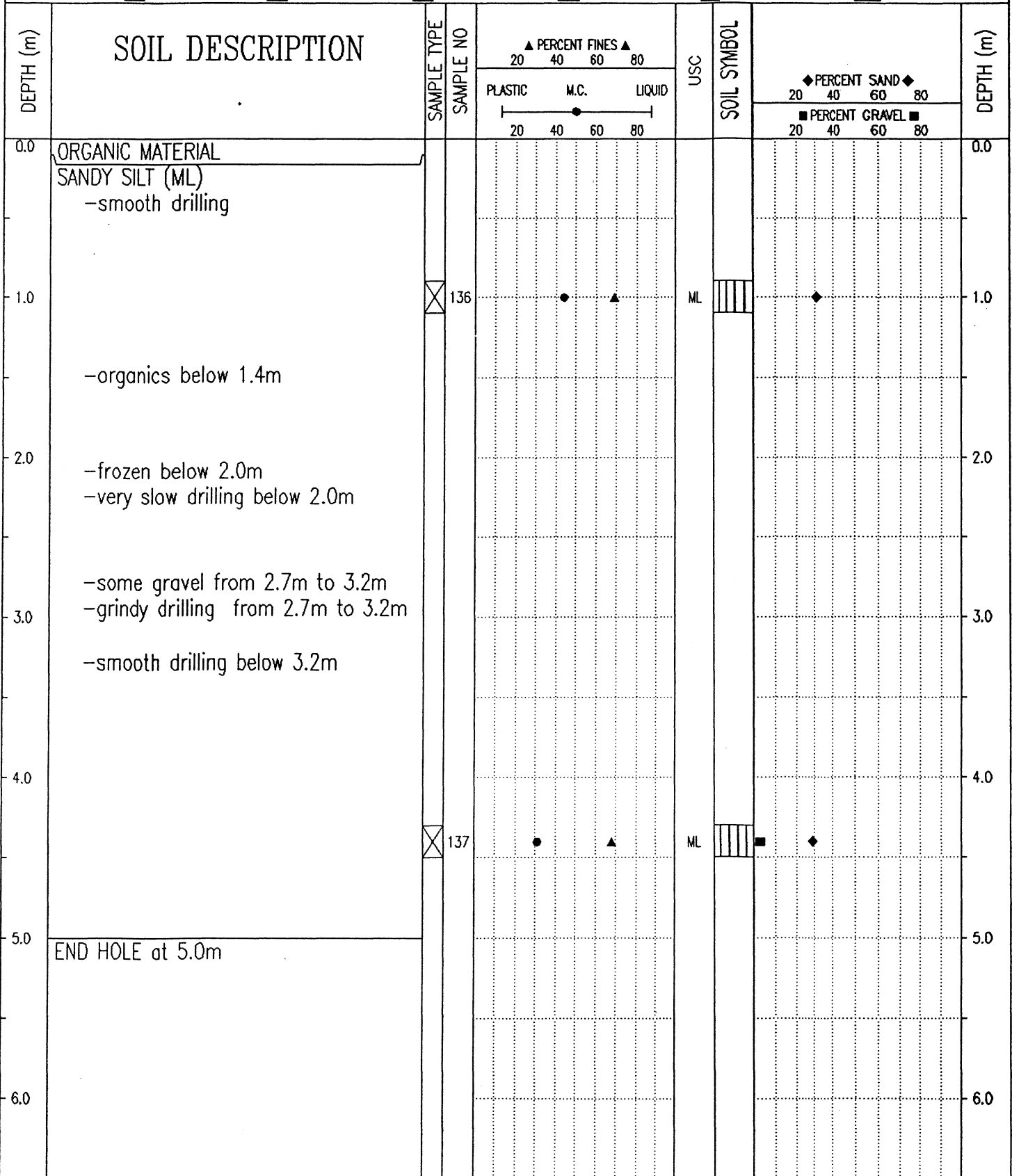


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COMPLETION DEPTH: 5.0 m  
COMPLETE: 93/09/11

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|---|-----------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT  | ALASKA HIGHWAY PRE-ENGINEERING    | TEST HOLE NO: 245-58        |
| SHAKWAK PROJECT   | SEGMENT 16                        | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER   | LOCATION: STA 1893+800 o/s 6m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                   |                             |

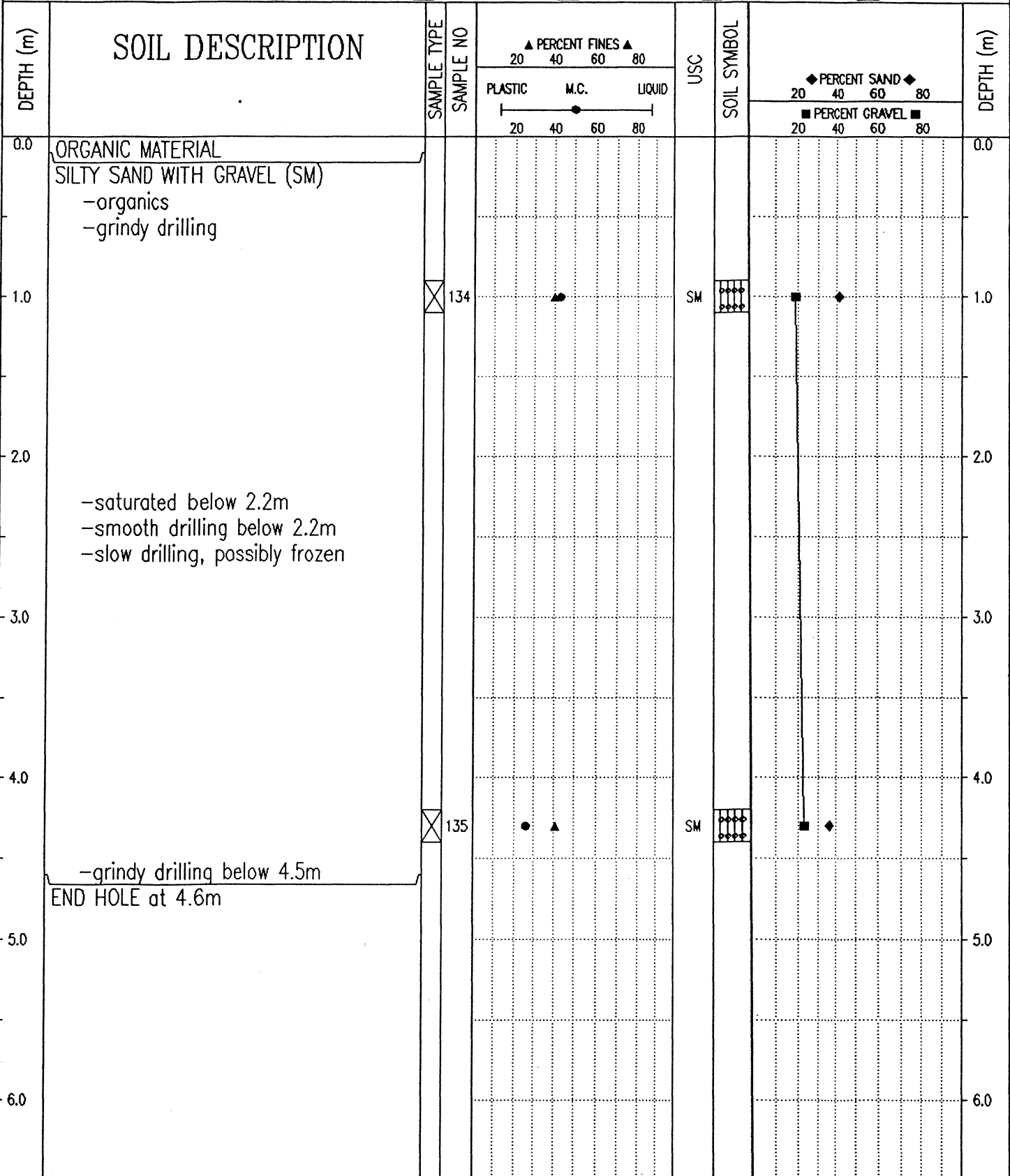


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Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 93/09/11

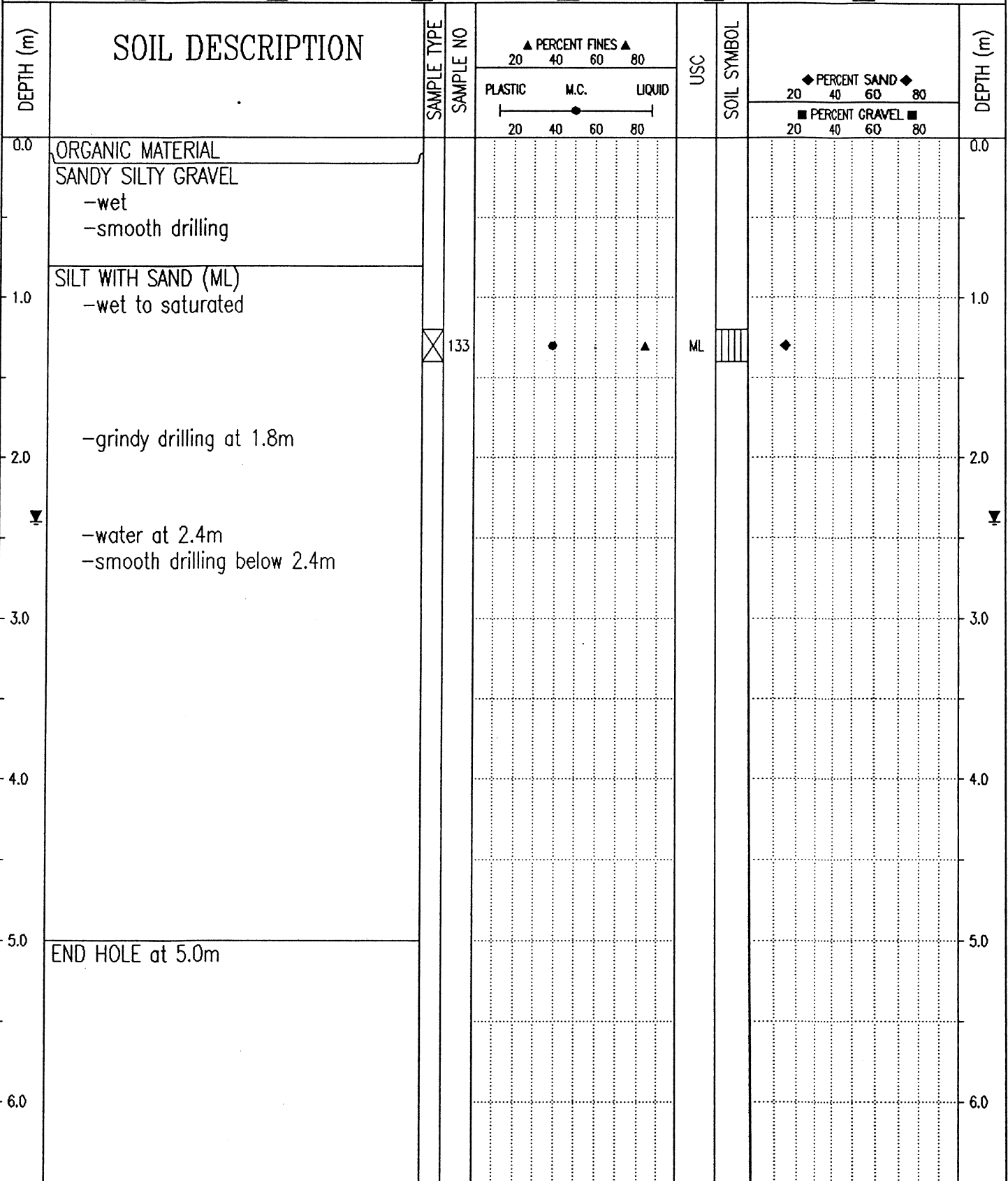
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| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING | TEST HOLE NO: 245-57        |
| SHAKWAK PROJECT  | SEGMENT 16                     | Project No: 202101-0312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: STA 1893+900         | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                |                             |



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| LOGGED BY: TF | COMPLETION DEPTH: 4.6 m |
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| Fig. No:      | Page 1 of 1             |

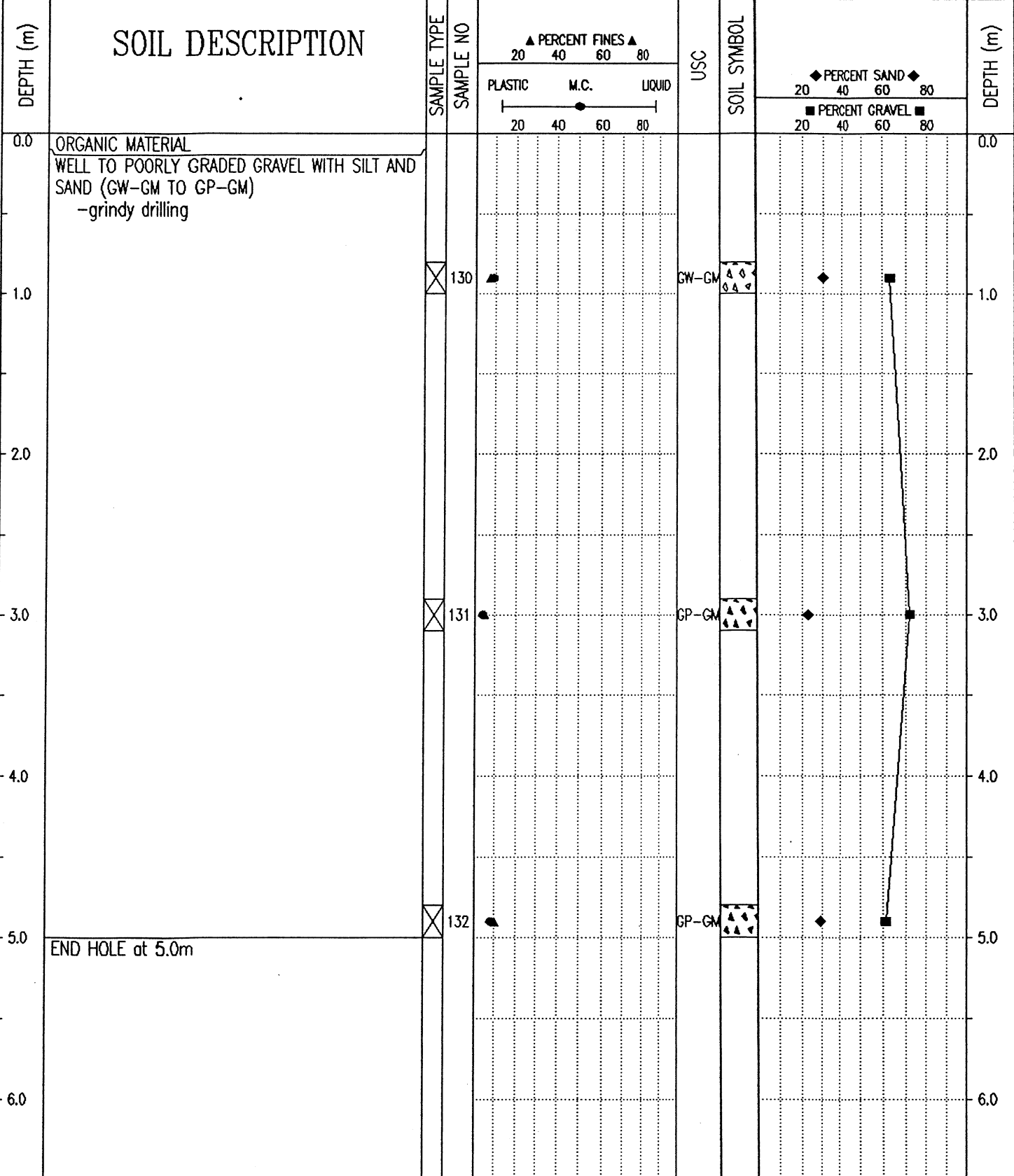
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|--|-----------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT   | ALASKA HIGHWAY PRE-ENGINEERING    | TEST HOLE NO: 245-56        |
| SHAKWAK PROJECT  | SEGMENT 16                        | Project No: 202101-Q312-193 |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER  | LOCATION: STA 1894+000 o/s 7m Rt. | ELEVATION: 0.00 (m)         |
| SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE |                                   |                             |



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| LOGGED BY: TF | COMPLETION DEPTH: 5.0 m |
| REVIEWED BY:  | COMPLETE: 93/09/11      |
| Fig. No:      | Page 1 of 1             |

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



93/11/05 12:09PM

| SUBSURFACE EXPLORATION AND TEST REPORT    |  | ALASKA HIGHWAY PRE-ENGINEERING    |           | TEST HOLE NO: 245-54        |      |        |       |             |                |    |    |           |
|---|--|-----------------------------------|-----------|-----------------------------|------|--------|-------|-------------|----------------|----|----|-----------|
| SHAKWAK PROJECT                           |  | SEGMENT 16                        |           | Project No: 202101-0312-193 |      |        |       |             |                |    |    |           |
| DRILL: CME 750 150mm Dia SOLID STEM AUGER |  | LOCATION: STA 1894+200 o/s 5m Rt. |           | ELEVATION: 0.00 (m)         |      |        |       |             |                |    |    |           |
| SAMPLE TYPE                               |  | RETURN                            |           | S.P.T.                      |      |        |       |             |                |    |    |           |
|   |  | AUGER                             |           | BULK                        |      |        |       |             |                |    |    |           |
|   |  | TUBE                              |           | CORE                        |      |        |       |             |                |    |    |           |
| DEPTH (m)                                 | SOIL DESCRIPTION   | SAMPLE TYPE                       | SAMPLE NO | PERCENT FINES ▲             |      |        | USC   | SOIL SYMBOL | PERCENT SAND ◆ |    |    | DEPTH (m) |
|   |  |                                   |           | PLASTIC                     | M.C. | LIQUID |       |             | 20             | 40 | 60 |           |
| 0.0                                       | ORGANIC MATERIAL<br>POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM)<br>-organics<br>-smooth drilling |                                   |           |                             |      |        |       |             |                |    |    | 0.0       |
| 1.0                                       | SILTY SAND (SM)<br>-grindy drilling  |                                   | 127       |                             |      |        | SP-SM |             |                |    |    | 1.0       |
| 2.0                                       |  |                                   | 128       |                             |      |        | SM    |             |                |    |    | 2.0       |
| 3.0                                       |  |                                   |           |                             |      |        |       |             |                |    |    | 3.0       |
| 4.0                                       | SILTY GRAVEL WITH SAND (GM)<br>-grindy drilling<br>-organics   |                                   |           |                             |      |        |       |             |                |    |    | 4.0       |
| 5.0                                       | END HOLE at 5.0m   |                                   | 129       |                             |      |        | GM    |             |                |    |    | 5.0       |
| 6.0                                       |  |                                   |           |                             |      |        |       |             |                |    |    | 6.0       |

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 93/09/11