DATE	DATE
07/20/00	07/20/00

PLOTTED BY	CHECKED BY
E. Garnica	A. Moore

PREPARED FOR STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DATE _____ ESAL _____ Traffic Index _____

STANDARD SOIL SURVEY SHEET

LIMITS _____

DIST	COUNTY	ROUTE	KILOMETER POSTS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Scl	87	0.0/8.2		

		NB11-4/5	NB11-4/14
DESCRIPTION	BORING/SAMPLE NO		
	TEST NUMBER	03-06-02	03-06-02
	DATE SAMPLED	54+89.6	54+89.6
	STATION	GMI	GMI
	LINE	Lt 10.8m	Lt 10.8m
	DISTANCE FROM LINE (RT or LT)		
	DEPTH OR ELEVATION (IN METERS)	CL/SC	SC
	TYPE OF MATERIAL		
SIEVE ANALYSIS	37.5 mm SQUARE OPENING	100	
	19 mm SQUARE OPENING		
	9.5 mm SQUARE OPENING	89	
	4.75 mm SQUARE OPENING	82	
	2.36 mm SQUARE OPENING	76	
	1.18 mm SQUARE OPENING	71	
	600 µm	65	
	300 µm	48	
	75 µm		
	5 µm		
	1 µm		
COMPACTION	IN-PLACE DENSITY (DRY WT-kN/m³)		
	IN-PLACE MOISTURE (PERCENT)		
	MAXIMUM DENSITY (DRY WT-kN/m³)		
	OPT MOISTURE (PERCENT)		
	RELATIVE COMPACTION (PERCENT)		
R-VALUE	MOISTURE		
	DENSITY		
	R-VALUE - STABILOMETER		
	R-VALUE BY EXPANSION		
	THICKNESS OF COVER REQUIRED		
	LIQUID LIMIT		43
	PLASTICITY INDEX		15

Jose Landazuri
REGISTERED GEOTECHNICAL ENGINEER

--/--/02
PLANS APPROVAL DATE

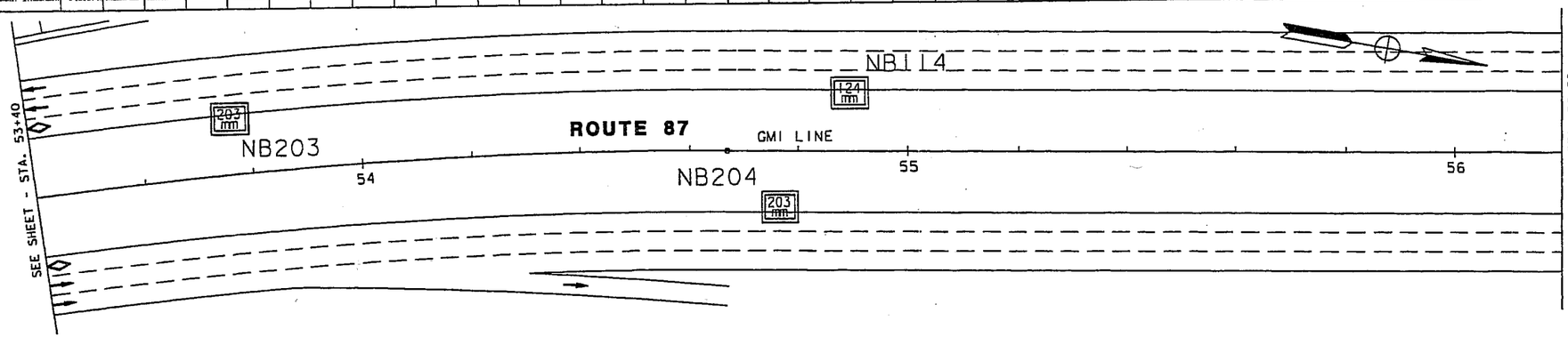
REGISTERED PROFESSIONAL ENGINEER — Jose Landazuri — No. — Exp. — GEOTECHNICAL — STATE OF CALIFORNIA

Caltrans Metric

All Dimensions are in Meters unless otherwise shown

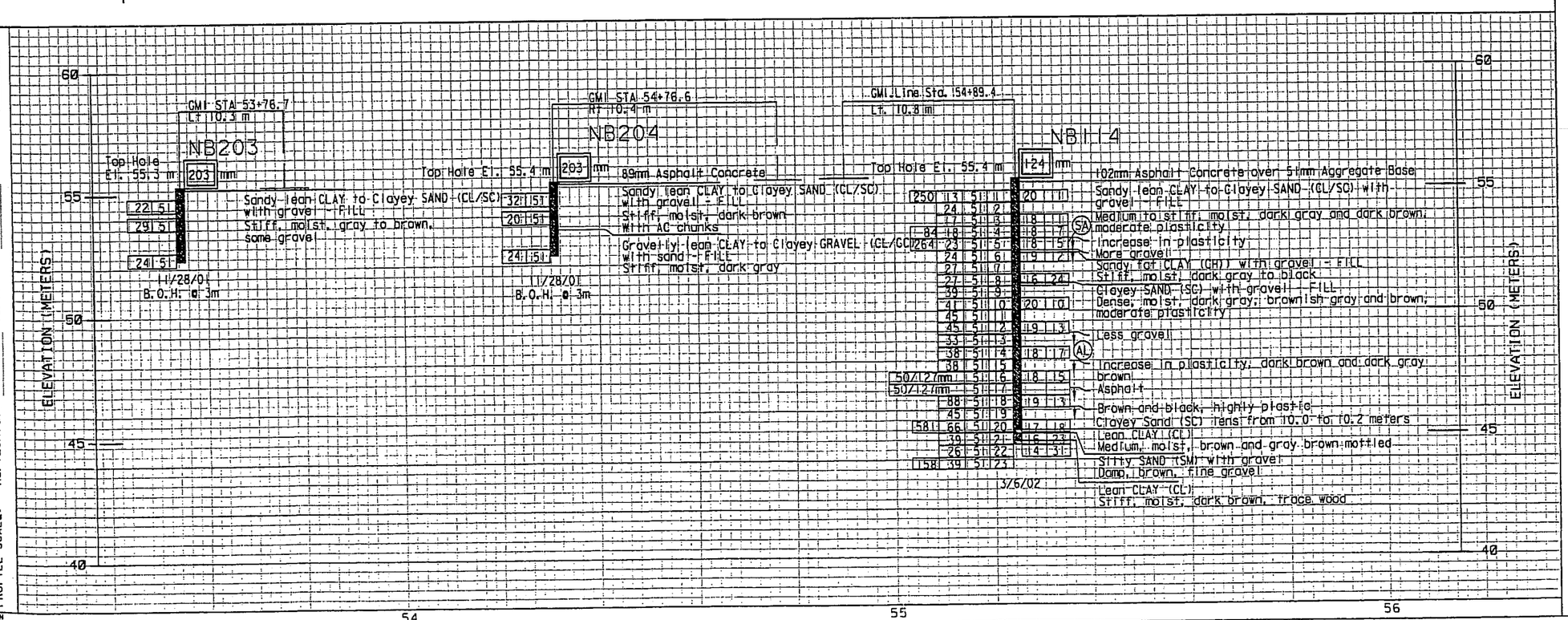
PLAN

SCALE Lateral: 1 : 500



PROFILE/LOG OF BORINGS

PROFILE SCALE: Horizontal: 1 : 500 Vertical: 1 : 100 Borings: 1 : 100



CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test

SPT N-Value (Blows/0.3 m)	Granular	SPT N-Value (Blows/0.3 m)	Cohesive
0-4	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-30	Medium Dense	5-8	Firm
31-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		>31	Hard

LEGEND OF EARTH MATERIALS

GRAVEL; SAND; SILT; CLAY; SANDY CLAY or CLAYEY SAND; SANDY SILT or SILTY SAND; SILTY CLAY; CLAYEY SILT; PEAT and/or ORGANIC MATTER; FILL MATERIAL; IGNEOUS ROCK; SEDIMENTARY ROCK; METAMORPHIC

EXPLORATION METHOD

57 mm CONE PENETROMETER; SAMPLE BORING (DRY); ROTARY SAMPLE BORING (WET); AUGER BORING (DRY); TEST PIT; DIAMOND CORE BORING; JET BORING; ELECTRONIC CONE PENETROMETER

NOTE: BORING SIZES ARE IN MILLIMETERS

LEGEND OF BORING OPERATIONS

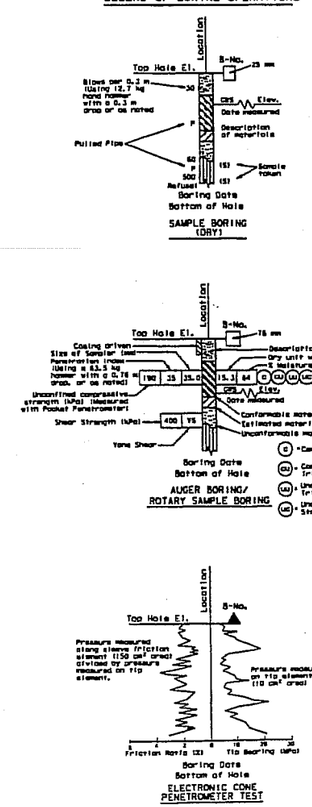


FIGURE 9

DATE 07/20/00 — E. Garnica — PLOTTED BY

DATE 07/20/00 — A. Moore — CHECKED BY

PREPARED FOR STATE OF:
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DATE ______ ESAL ______ Traffic Index ______

STANDARD SOIL SURVEY SHEET

LIMITS ______

DIST	COUNTY	ROUTE	KILOMETER POSTS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Scl	87	0.0/8.2		

Section	Item				
DESCRIPTION	BORING/SAMPLE NO	NB116/1	NB116/13	NB117/7	NB117/11
	TEST NUMBER				
	DATE SAMPLED	03-07-02	03-07-02	03-07-02	03-07-02
	STATION	78+95.8	78+95.8	80+21.3	80+21.3
	LINE	GMI	GMI	GMI	GMI
	DISTANCE FROM LINE (RT or LT)	Rt. 10.2m	Rt. 10.2m	Rt. 10.3m	Rt. 10.3m
	DEPTH OR ELEVATION (IN METERS)				
	TYPE OF MATERIAL	CL/CH	CL/SC	CL-CH/SC	CL-CH/SC
SIEVE ANALYSIS	37.5 mm SQUARE OPENING				
	19 mm SQUARE OPENING		100		100
	9.5 mm SQUARE OPENING				
	4.75 mm SQUARE OPENING		88		89
	2.36 mm SQUARE OPENING		81		80
	1.18 mm SQUARE OPENING		73		74
	600 µm		68		70
	300 µm		63		66
	75 µm		50		53
	5 µm				
	1 µm				
COMPACTION	IN-PLACE DENSITY (DRY WT-kN/m³)				
	IN-PLACE MOISTURE (PERCENT)				
	MAXIMUM DENSITY (DRY WT-kN/m³)				
	OPT MOISTURE (PERCENT)				
	RELATIVE COMPACTION (PERCENT)				
R-VALUE	MOISTURE				
	DENSITY				
	R-VALUE - STABILOMETER				
	R-VALUE BY EXPANSION				
	THICKNESS OF COVER REQUIRED				
	LIQUID LIMIT	43		46	
	PLASTICITY INDEX	22		26	

Jose Landazuri
REGISTERED GEOTECHNICAL ENGINEER

--/--/02
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Jose Landazuri — No. - — Exp. - — GEOTECHNICAL — STATE OF CALIFORNIA

Caltrans Metric

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CONSISTENCY CLASSIFICATION FOR SOILS

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LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY or CLAYEY SAND
- SANDY SILT or SILTY SAND
- SILTY CLAY
- CLAYEY SILT
- PEAT and/or ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC

EXPLORATION METHOD

- 57 mm CONE PENETROMETER
- SAMPLE BORING (DRY)
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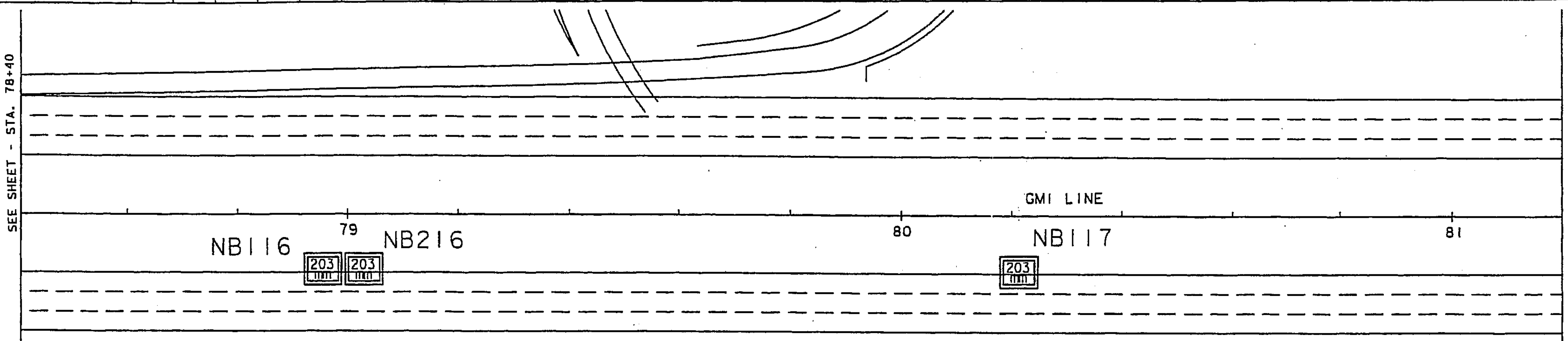
- AUGER BORING (DRY)
- TEST PIT
- DIAMOND CORE BORING
- JET BORING
- ELECTRONIC CONE PENETROMETER

NOTE : BORING SIZES ARE IN MILLIMETERS

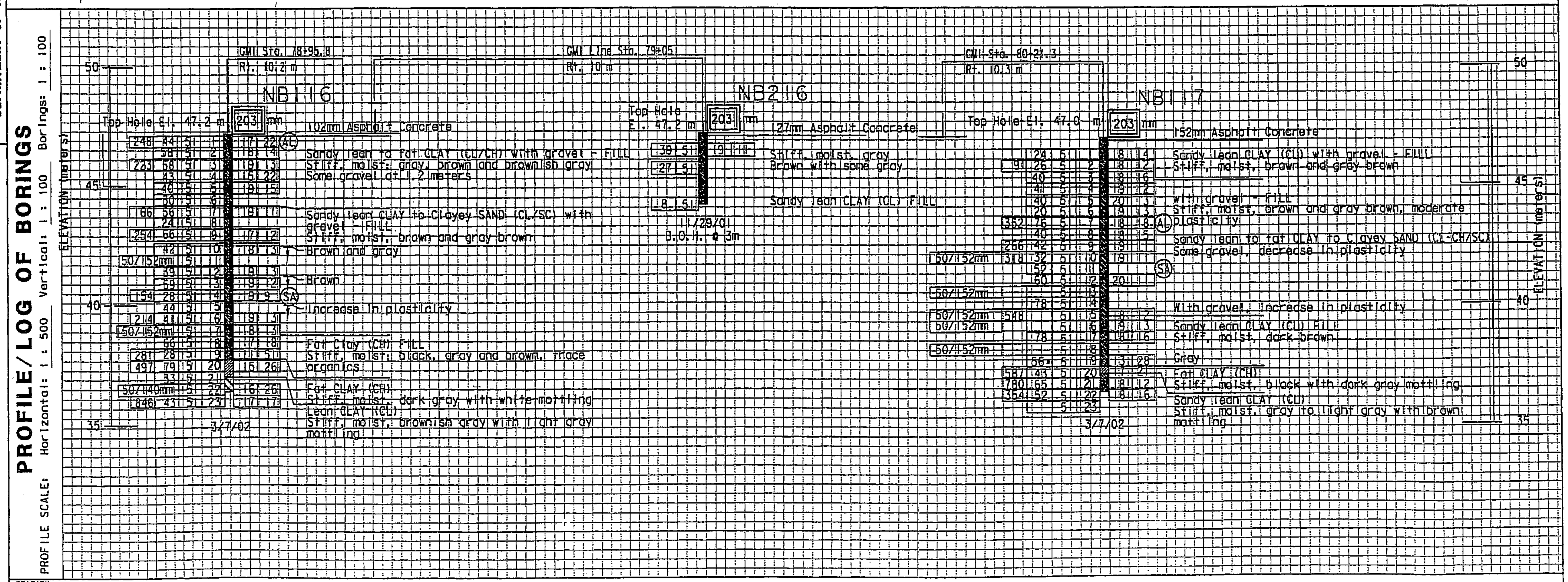
PLAN

SCALE Lateral: 1 : 500



PROFILE/LOG OF BORINGS

PROFILE SCALE: Horizontal: 1 : 500 Vertical: 1 : 100 Borings: 1 : 100



LEGEND OF BORING OPERATIONS

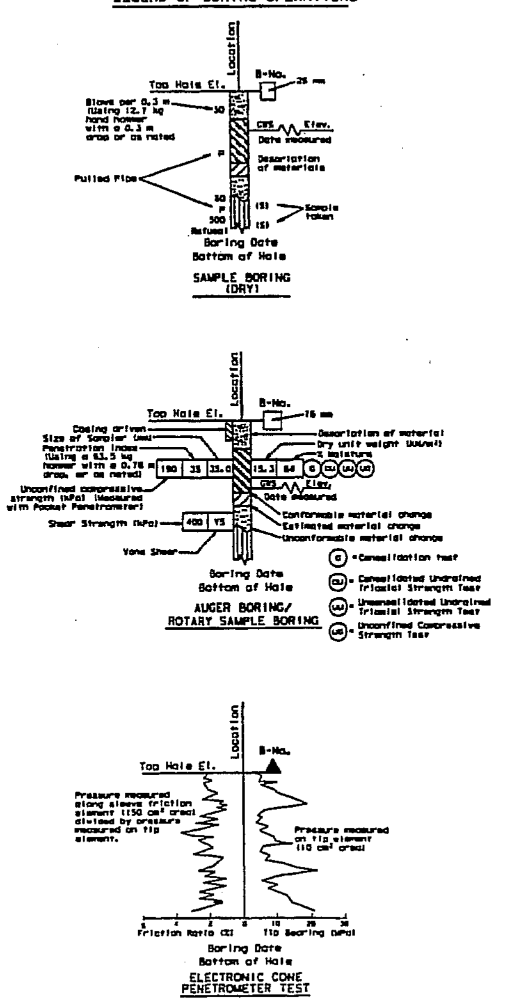


FIGURE 18