

2003 Prall Evaluation of Anchorage Pavement

Plus Ride 1986

Prall Abrasion Value: 14, 16

Mix Type: SMA (PG 64-28)
Prall Abrasion Value: 32
Rut Index = 2.5
Total Mix Cost: \$61.35 per ton

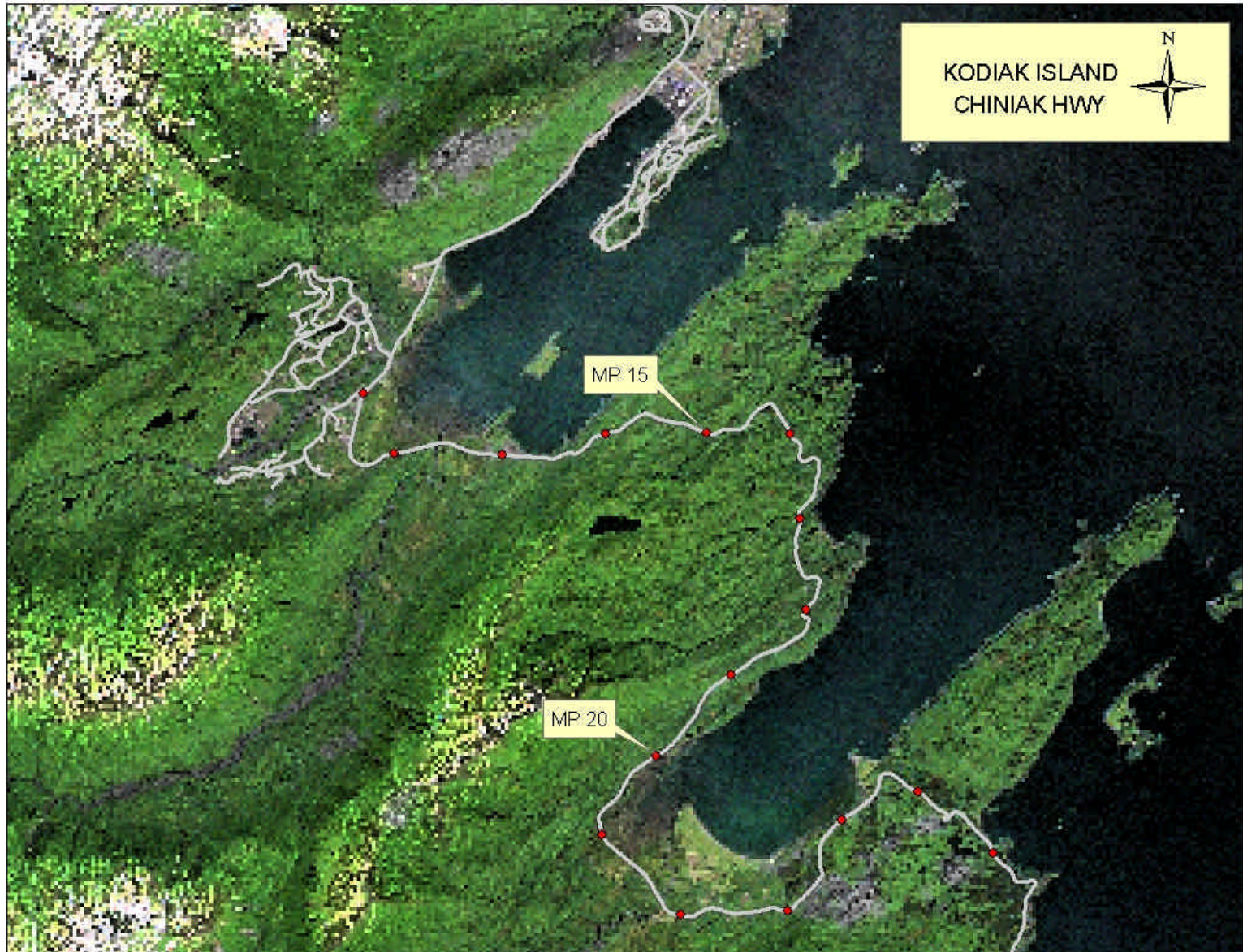
Mix Type: SMA (PG 64-28)
Prall Abrasion Value: 23
Rut Index = 2.5
Total Mix Cost: \$61.35 per ton

Mix Type: SMA (PG 58-28)
Prall Abrasion Value: 30
Rut Index = 3.8
Total Mix Cost: \$53.49 per ton

Mix Type: Super Pave Dense Graded
Asphalt Cement: PG 58-28
Prall Abrasion Value: 26
Rut Index = 2.6
Total Mix Cost: \$41.52 per ton



Kodiak Foamed Asphalt Project



Principle Parties

- US Army Corps of Engineers
- Project Manager: Dr. Mollie TeVrucht
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Tel: (907) 753-2695
- Jacobs Engineering: Project Manager
- Alaska Test Lab: Mix Design & Quality Control
- Kiewit Pacific: General Contractor
- Western Stabilization: Foamed Asphalt Subcontractor
- Alaska DOT&PF
- Alaska Department Environmental Conservation

Remediation Option

Soil Contaminated by Asphaltic & Diesel Range Compounds

- Barge to Super Fund Disposal Site
- Thermal Remediation
- Hot Mix From Asphalt Plant – ATB
- Cold Asphalt Emulsion Mix - ATB
- Cement Treatment – ATB
- Foamed/Expanded Asphalt Mix – ATB

Issues

- Kodiak Weather
- Cure Time
- Effect on Traffic
- Contaminated Runoff



Excavating contaminated material at the ADA site.

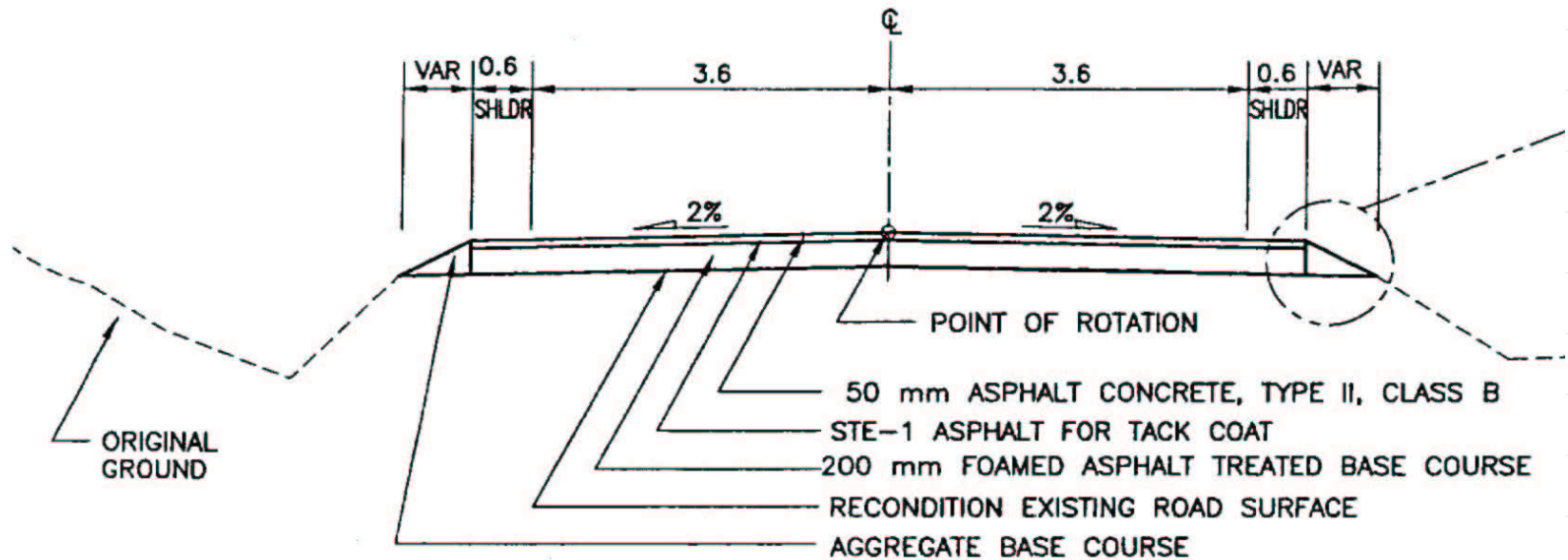


Thunderbird screening plant used to screen oversize materials from contaminated soils.

Crushing & Blending



QTY: Asphalt Concrete 8,900 Mg (Est. 2.371 Mg/m³)
 Foam ATB 28,400 Mg (Est. 2.045 Mg/m³)
 AC 1,091 Mg @ 4% Mix Wt
 Lime 546 Mg @ 2% Mix Wt



TYPICAL SECTION WITH FOAMED ATB

REZANOF HIGHWAY MP 15.0 TO APPROX MP 20.4

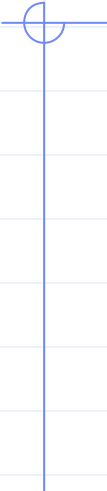


*Producing foamed ATB using stationary mixing plant,
July 2003.*

Dump & Spread









Placing foamed ATB near Mile 15 of the Rezanof Highway, July 2003.

Lay Down & Compaction







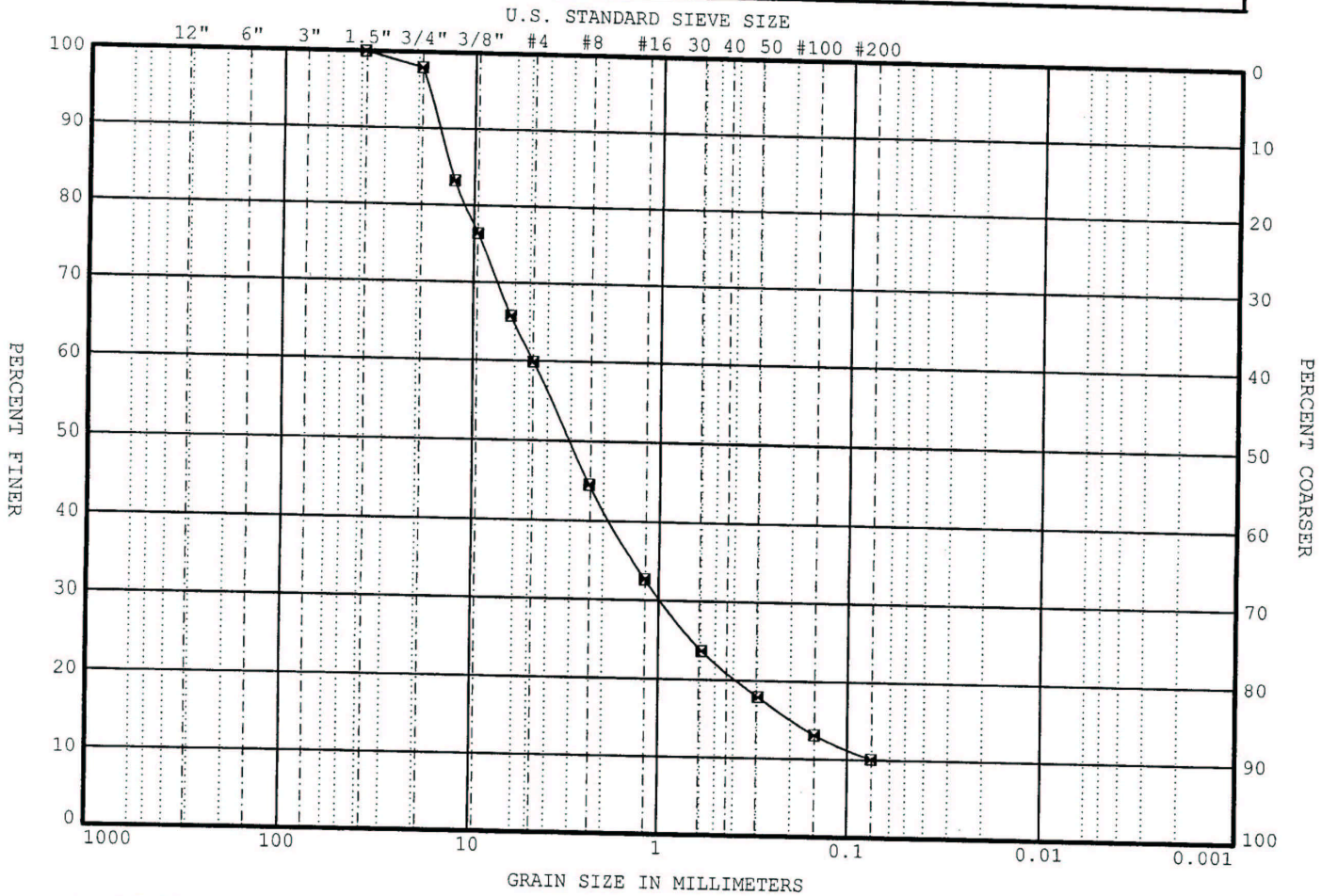


PROJECT NUMBER: 1910-029

PLATE NUMBER: 1

SYMBOL	LOCATION	DEPTH	UNIFIED CLASSIFICATION	DESCRIPTION
■	C	0.0'		ALASKA STOCKPILE SOIL

GRAIN SIZE DISTRIBUTION



BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		COARSE	FINE	COARSE	MEDIUM	FINE		

Mix Design Factors

- Leachability of DRO/RRO, BETX
- Unconfined Compressive Strength
- Dielectric Permittivity – Mechanical Suction
- Submerged Soak – Unconfined Compressive Strength 7d, 14d, 28d
- Submerged Soak + Freeze Thaw Cycles
- Minimum Split Tensile Strength of 100 kPa
- Field Density 98% of Test Strip
- Monitor in Place Moisture