Tinian Trommel Screen Salient Characteristics

Date: 11 August 2026

1. Overview

This document outlines the **Salient Characteristics** for a heavy-duty, mobile trommel screen. These specifications are established to meet rigorous material processing requirements while ensuring open competition among qualified manufacturers. The primary mission requirement is a high-capacity, mobile screening system capable of processing native timbers, roots, soil, and coral into distinct, usable material fractions.

2. Salient Characteristics

Requirement Category	Technical Specification Threshold	Mission Justification
Throughput Capacity	Minimum 180+ cubic yards per hour	Ensures high-volume processing to meet project timelines and prevent operational bottlenecks.
Power & Compliance	Minimum 134 HP engine, Tier 4 Final (T4F) compliant	Provides sufficient torque for heavy-duty material separation while meeting strict environmental standards.
Screening Drum Dimensions	Minimum 6.0-foot diameter x 20-foot length	Maximizes screening surface area to optimize separation quality and throughput of mixed raw materials.
Hopper Capacity	Minimum 9.1 cubic yards	High-capacity hopper minimizes feeding cycle times and accommodates large front-end loaders.
Product Sorting	Integrated 3-way split conveyor system	Enables the simultaneous separation and stockpiling of three distinct material sizes in a single pass.
Mobility & Setup	Wheeled/towable chassis with hydraulic jacklegs	Ensures rapid deployment, leveling, and relocation across variable, rugged terrain.

3. Delivery & Logistics

- **Requested Delivery Date:** 1 October 2026
- **Delivery Address:** 513th ERHS, Tinian MP, 96952
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