Appendix B

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Western Federal Lands Highway Division
610 E. 5th St. Vancouver, Washington 98661
FP-03 109.02(b)(2)

Date Stamp

Copy Stamp

Project Name: _____

Project Number: _____

Date: _____

Hauling Vehicle Volume Certification

Truck Number: _____

Owner: _____

Measurements & Calculations*:

*Attach additional sheets if necessary.

Unit of Measure

Measured Volume _____ _____

It is mutually agree to by _____ and Western Federal Lands Highway Division,

the above listed vehicle will be paid for at the above measured volume.

Both parties agree to the following condition: Western Federal Lands Highway Division has the right to reduce the volume accordingly, for trucks which are not loaded to the agreed upon volume.

For the Contractor	For Western Federal Lands Highway Division
Company Name _____	Computed By _____ Date _____
Signature _____	Approved
Print _____	Signature _____
Title _____	Title _____
Date _____	Date _____

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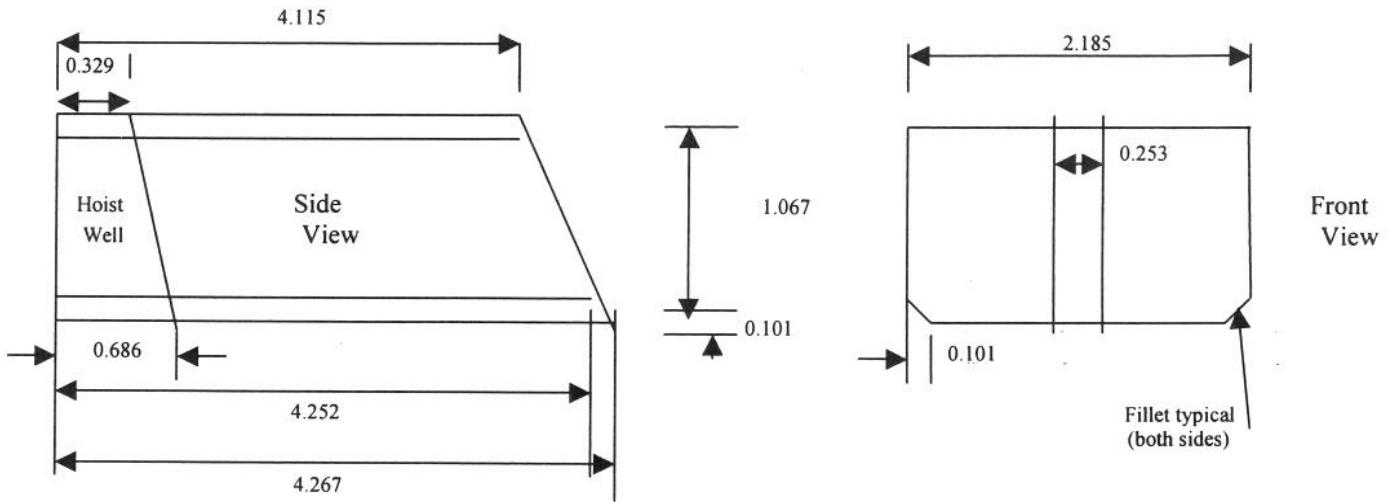
For the Contractor	For Western Federal Lands Highway Division
Company Name _____	Computed By _____ Date _____
Signature _____	Approved
Print _____	Signature _____
Title _____	Title _____
Date _____	Date _____

Truck Measurement Example

Truck No. ? (tractor)
Trailer No. ? (belly dump)
License No. XXXXXXX

(dimensions are meters unless otherwise noted)

Volume

$$\frac{4.115 + 4.267}{2} \times 2.185 \times 1.067 \qquad = \quad \textbf{9.771}$$

Less Hoist Well

$$\frac{0.686 + 0.329}{2} \times 0.253 \times 1.067 \qquad = \quad \textbf{-0.137} \ \text{(minus)}$$

Less Fillets

$$\frac{0.101 \times 0.101}{2} \times \frac{4.252 + 4.267}{2} \times 2 \qquad = \quad \underline{\textbf{-0.043}} \ \text{(minus)}$$

Total Volume $= \quad \textbf{9.591 m}^3$

NOTE
The above computations are for illustration only, and not necessarily part of survey notes. However, to ensure measurements are adequate, the surveyor might make at least rough computations for complicated shapes.
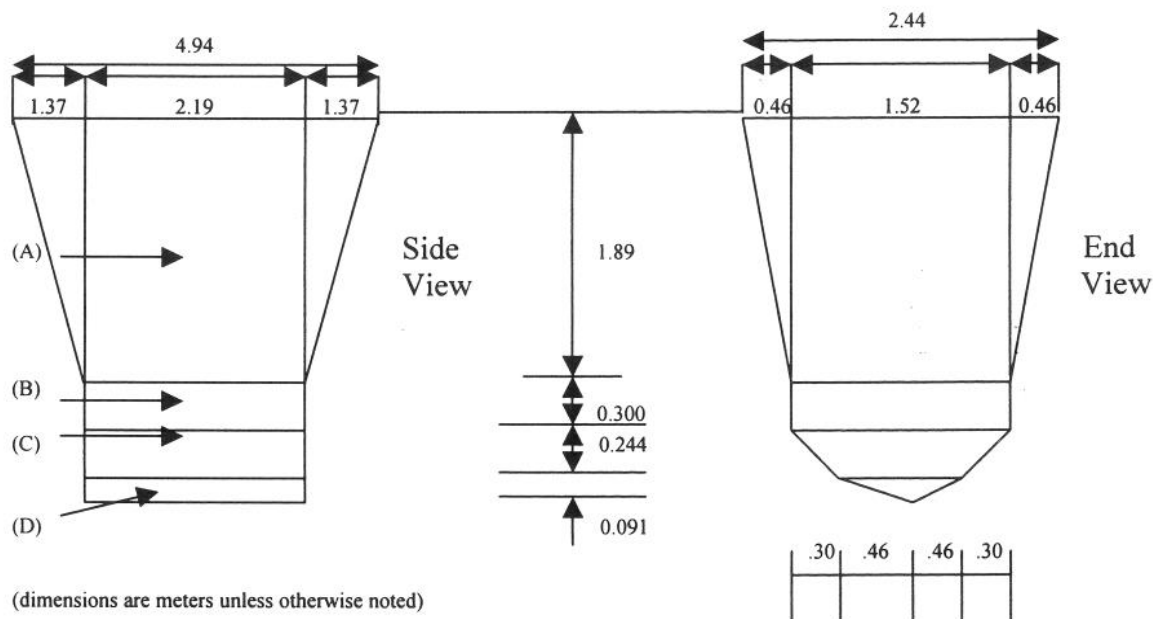
Composed By: _____   **Checked By:** _____

Side View

4.94

1.37   2.19   1.37

(A)

(B)

(C)

(D)

1.89

0.300

0.244

0.091

(dimensions are meters unless otherwise noted)

End View

2.44

0.46   1.52   0.46

.30 | .46 | .46 | .30

Volume (A)   (Use prismoidal formula, $V = \dfrac{h}{b} (A_1 + (4A_m + A_2)$ $h = 1.89$

$A_1 = 4.94 \times 2.44 = 12.05$ $A_2 = 2.19 \times 1.52 = 3.33$ $A_m = \dfrac{(4.94 + 2.19)}{2} \times \dfrac{(2.44 + 1.52)}{2} = 7.07$

$V = \dfrac{1.89}{b} (12.05 + (4 \times 7.07) + 3.33) = \mathbf{13.753}$

Volume (B)

$V = 2.19 \times 1.52 \times 0.30$ $= \mathbf{0.999}$

Volume (C)

$V = 2.19 \times \dfrac{1.52 + 0.92}{2} \times 0.244$ $= \mathbf{0.652}$

Volume (D)

$V = 2.19 \times \dfrac{0.92}{2} \times 0.091$ $= \underline{\mathbf{0.092}}$

Total Volume $= \underline{\mathbf{15.496 \ m^3}}$

Composed By: _____   **Checked By:** _____