Construction Accounting and Financial Management

Chapter 6 Analysis of Financial Statements

Construction Accounting & Financial Management, 3/e Steven Peterson

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Financial Ratios

- Affected by:
 - Method of depreciation
 - Retention
 - Timing of financial statements
- When comparing items on the balance sheet and income statement, use the average of the balance before and after the period covered by the income statement

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Quick Ratio

- Ability to pay current (short-term) liabilities with cash or other near cash assets
- Quick Ratio = (Cash + Accounts Receivable) Current Liabilities
- Accounts receivable-retention should not be included in the accounts receivable
- Ideal is 1.00 to 1

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Current Ratio

- Ability to use current assets to pay for current liabilities
- Current Ratio = <u>Current Assets</u>Current Liabilities
- Ideal is 2.00 to 1

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Current Liabilities to Net Worth Ratio

- Measurement of the risk that short-term creditors are taking by extending credit
- CL to NW = Current Liabilities/Net Worth
- Ideal is 67% for other industries
 - Construct exceeds this because of heavy use of trade financing

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Debt to Equity Ratio

- Risk in the company all creditors are taking compared to the risk the company's owners are taking
- Debt to Equity = Total Liabilities/Net Worth
- Ideal is less than 2.00 to 1

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Fixed Assets to Net Worth Ratio

- Measurement of the amount of the owner's equity that is tied up in fixed assets
- FA to NW = Net Fixed Assets/Net Worth

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Current Assets to Total Asset Ratio

- Measurement of how liquidity a construction company's assets are
- CA to TA = Current Assets/Total Assets
- Ideal is:
 - □ 0.55 to 0.65 for equipment intensive areas
 - □ 0.70 to 0.80 for all others

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Collection Period

- Measurement of the average time it takes a company to collect its accounts receivable
 - Exclude accounts receivable-retention
- Measurment of how long the company's capital is being used to finance client's construction projects
 - Include accounts receivable-retention

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Collection Period

- Coll. Period = <u>Accounts Receivable(365)</u> Revenues
- Ideal is less than 45 days

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Average Age of Accounts Payable

- Measure of how extensively a company is using trade financing
- AA of AP = <u>Accounts Payable(365)</u> (Materials + Subcontract)
- Assumes the bulk of the invoices that pass through the accounts payable are material and subcontract construction costs
- Ideal is less than 45 days

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Assets to Revenues Ratio

- Measurement of how efficiently the company is using its assets
- Assets to Revenues = <u>Total Assets</u> Revenues

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Working Capital Turns

- Measurement of how efficiently a company is using its working capital
- Working capital:
 - The working capital represents those funds available for future operations or for the reduction of long-term liabilities
 - □ WC = Current Assets Current Liabilities

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Working Capital Turns

- WCT = Revenues/Working Capital
- When payments pass through to subcontractors:
 - □ WCT = (Revenues Subcontractor)
 Working Capital

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Accounts Payable to Revenue Ratio

- Measurement of how much a company is using its suppliers and subcontractors as a source of funds
- AP to R = Accounts Payable/Revenue
- Includes accounts payable-retention

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Gross Profit Margin

- Percentage of the revenues left after paying construction costs and equipment costs
- Measure of what percentage of each dollar of revenue is available to cover general overhead expenses and provide the company with a profit
- Gross Profit Margin = Gross Profit/Revenue

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General Overhead Ratio

- Percentage of the revenues used to pay the general overhead expense
- General Overhead = General Overhead Revenue
- Ideal is less than 10% plus realtor fees

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Profit Margin

- Percentage of the revenues that becomes profit
- Pretax PM = <u>Net Profit Before Taxes</u> Revenues
 - □ Ideal is >5%
- After-tax PM = <u>Net Profit After Taxes</u> Revenues

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Return on Assets

- Measurement of how efficiently a construction company is using its assets
- Return on Assets = <u>Net Profit After Taxes</u> Total Assets

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Return on Equity

- Return the company's shareholders received on their invested capital
- Pretax ROE = <u>Net Profit Before Taxes</u>
 Equity
 - □ Ideal is >15%
- After-tax ROE = Net Profit After Taxes Equity

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Degree of Fixed Asset Newness

- Measurement of how new a company's assets are
- Affected by depreciation method
- D of FAN = <u>Net Fixed Assets</u> Total Fixed Assets
- Ideal is between 60 and 40%,

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Months in Backlog

- Measurement of work on hand
- Affected by depreciation method
- Mo in Backlog = <u>Uncomp Work on Hand x 12</u> Revenues for 12 mo

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