

# Column/Beam Alignment And Plumbness Checklist

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## Column Base and Footing Alignment

Verifies the alignment of columns to their foundation footings and establishes the initial plumbness.

### Column Base to Footing Offset (East-West)

### Column Base to Footing Offset (North-South)



### Column Base to Footing Offset (Vertical)

Enter a number...

### Footing Alignment Verification Method

- Tape Measure
- Laser Level
- Transit/Theodolite
- Other (Specify in Long Text)

### Detailed Description of Alignment Verification Process (if 'Other' selected above)

Write something...

### Tolerance for Base to Footing Offset (East-West)

Enter a number...

### Tolerance for Base to Footing Offset (North-South)

Enter a number...

### Tolerance for Base to Footing Offset (Vertical)

### Status of Alignment

- Aligned
- Minor Adjustment Required
- Major Adjustment Required

## Column Verticality (Plumbness)

Checks the verticality of columns using appropriate measurement techniques and tolerances.

### Column ID

### Verticality Deviation (at base)

### Verticality Deviation (at midpoint)

### Verticality Deviation (at top)

Enter a number...

### Measurement Method

- Plumb Bob
- Laser Level
- Spirit Level
- Total Station

### Within Tolerance?

- Yes
- No

### Notes / Observations

Write something...

### Plumbness Photo

 Upload File

### Tolerance Limit (inches/mm)

Write something...

## Column Head Alignment

Confirms the alignment of columns at the top, ensuring proper connection points for beams.

### Column Head Elevation (Relative to Datum)

Enter a number...

### Discrepancy from Design Elevation

Enter a number...

### Column Head Alignment Method

- Laser Level
- Spirit Level & Tape
- Plumb Bob

### Horizontal Offset from Design Line (Column A)

Enter a number...

### Horizontal Offset from Design Line (Column B)

Enter a number...

### Column Head Alignment Status

- Within Tolerance
- Outside Tolerance - Corrective Action Required

### Notes on Column Head Alignment (If Applicable)

Write something...

### Photo Evidence of Column Head Alignment

 Upload File

## Beam Alignment to Column

Checks the horizontal alignment of beams to the supporting columns. Focuses on ensuring proper seating and levelness.

### Column Line Offset (mm/inches)

Enter a number...

### Beam Centerline Offset from Column Face (mm/inches)

Enter a number...

### Beam Top Elevation Relative to Column Top (mm/inches)

Enter a number...

### Beam Seating Condition

- Proper Seat
- Minor Adjustment Required
- Significant Adjustment Required

### Beam Levelness Verification Method

- Spirit Level
- Laser Level
- Digital Level

### Notes on Alignment & Seating (if adjustments needed)

Write something...

### Inspector Signature

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# Beam Levelness

Verifies the beam's horizontal plane and overall levelness along its length.

**Levelness Check Point 1 - Elevation (ft/in)**

**Levelness Check Point 1 - Deviation from Design (in)**

**Levelness Check Point 2 - Elevation (ft/in)**

**Levelness Check Point 2 - Deviation from Design (in)**

**Maximum Allowable Deviation (in)**


### Levelness Within Tolerance?

- Yes
- No

### Notes/Corrective Actions (if applicable)

Write something...

### Supporting Photos/Level Readings

 Upload File

## Column/Beam Connection Alignment

Confirms the accurate alignment of column and beam connection points for proper bolting/welding.

### Column-Beam Intersection Offset (Horizontal)

Enter a number...

### Column-Beam Intersection Offset (Vertical)

Enter a number...

### **Bolt Hole Misalignment (Max. Allowed)**

Enter a number...

### **Welding Gap (If Applicable)**

Enter a number...

### **Connection Type**

- Bolted
- Welded
- Pinned

### **Bolt Pattern Verification**

- Correct
- Incorrect - Requires Adjustment

### **Notes on Connection Alignment**

Write something...

### **Inspector Signature**

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# Review of Survey Data & Reference Points

Ensures alignment and plumbness checks are performed relative to established survey points and reference lines.

## Survey Data Reviewed?

Yes

No

## Survey Point Elevation (Reference)

Enter a number...

## Grid North Deviation (if applicable)

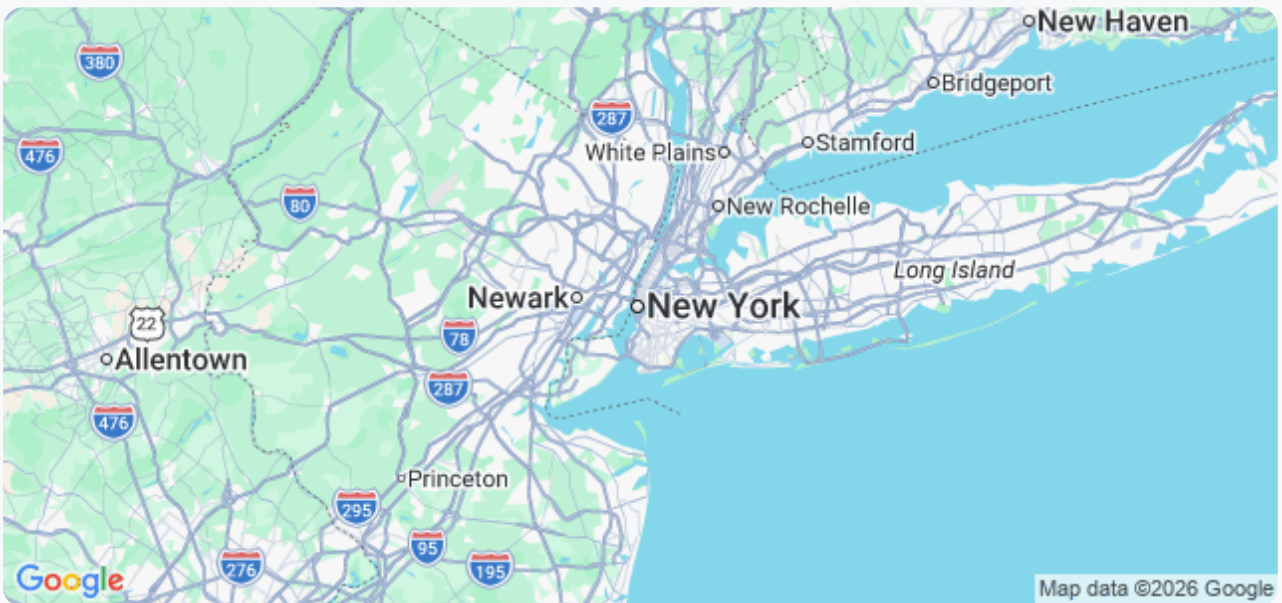
Enter a number...

## Description of Survey Data Used

Write something...

## Location of Survey Control Points

 [Set My Current Location](#)



## Date of Survey Data

Enter date...

# Corrections and Re-checks

Documents any corrective actions taken and subsequent re-checks to ensure compliance.

## Description of Correction(s) Required

Write something...

## Amount of Adjustment (mm/inches)

Enter a number...

## Date of Correction

Enter date...

## Time of Correction

Enter time...

## Method Used for Correction

Write something...

### Re-check Measurement (mm/inches)

Enter a number...

### Correction Status

- Complete
- Partial
- Not Yet Addressed

### Corrector's Signature