



MINEFAB CHECKPOINT

Drawing Review Agent · The Gate Before the Shop Floor

Feature Overview · June 2026

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REVIEW
LAYERS

HIGH/MED/ LOW

SEVERITY
CODING

Bluebeam

EDITABLE
REDLINES

RFI Ready

PRE-DRAFTED
FINDINGS

GA vs Shop

DUAL-SOURCE
REVIEW

AGENT CAPABILITIES

Layer 1 — Conformance Review

Differs GA drawings against detailed shop drawings — flagging dimensional discrepancies, member and spec mismatches, missing details, connection conflicts, revision/title-block inconsistencies, and code non-compliance.

Layer 2 — Constructability & Cost

Reads the GA as an experienced fabricator — flagging over-welded connections (CJP where fillet suffices), over-specified dimensions, labor-intensive field connections, and premium section waste with pre-drafted EOR RFIs.

Bluebeam-Ready Redlined PDF

Produces a redlined shop drawing PDF with yellow-highlighted verified dimensions, red-boxed flags and margin annotations — fully editable in Bluebeam Revu for the project team to review and mark up.

Drawing Review Register

Structured finding register with severity coding (HIGH / MED / LOW), flag category, source sheet, description, and recommended action — ready to transmit to the detailer or EOR with the redlined PDF.

Pre-Drafted RFI Package

Every flag above threshold generates a ready-to-send RFI draft in propose-and-confirm format: Subject / From-To / Observed Condition / Recommended Solution — routed to detailer or EOR as appropriate.

Weld Scope Review

Flags CJP welds called out where the GA does not require them, and missing seal welds on exposed elements — welds are where fabrication labour concentrates and over-specification is the most common real-world EOR comment.

AISC Knowledge Base Integration

Full AISC KB1 Rev4 (3,876 section weight lookups across W, HSS, C, MC, L, angles) powers stock-yield waste calculations and plate-fabrication alternate recommendations with dollar exposure estimates.

No Disposition Issued

MineFab AI is not an engineer and does not issue drawing dispositions. Checkpoint flags discrepancies and drafts RFIs for the EOR or project team to review, confirm, and action — the engineer makes the call.

Structural Steel — Pipe & Civil Expanding

Current release covers structural steel drawings. Pipe isometric and civil/concrete discipline review are actively expanding — contact us for roadmap details and early access.

OUTPUT DELIVERABLES

- Redlined Shop PDF (Bluebeam)
- Drawing Review Register
- Pre-Drafted Detailer RFIs
- Pre-Drafted EOR RFIs
- Constructability Flag List
- Cost Exposure Summary
- Weld Scope Review Notes
- Approval Sign-Off Block

APPLICABLE STANDARDS

- AISC 360
- AWS D1.1
- AISC SCM
- IBC
- ASTM A36/A572/A992
- AISC KB1 Rev4
- Project GA Drawings
- Project Specifications