READY TO INSPECT — FIELD CHECKLIST

Soil stabilization rough-in inspection checklist

Soil stabilization rough-in is the last time the work is fully visible. Once the cover inspection passes and the walls, ceilings and slabs close, every defect left behind becomes a demolition bill. This checklist walks the rough-in in the order the work goes in, with the photo each item needs before it gets buried. Work is commonly verified against the project geotechnical report and specifications. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The GC's superintendent or earthwork QC tech walking the section with the stabilization crew before compaction begins. When: After the subgrade is shaped and proof-rolled, once additive is spread and mixed but before the first compaction pass locks it in.

Design values and testing setup

- [ ] Stabilization design values on hand for this section
  Current geotechnical report and stabilization design at the field office, with additive percentage, mixing depth, moisture range and density target noted for the day's stations.
  No photo required

- [ ] Moisture-density curve for the treated soil on file
  Testing lab's curve run on the soil with the design additive in it, not the raw soil, so field density and moisture are compared to the right target.
  No photo required

Subgrade and proof-roll

- [ ] Subgrade shaped and proof-rolled before additive
  Section proof-rolled and any soft or pumping spots dug out and replaced, grade and cross-slope close to design before spreading starts.
  2 photos required

- [ ] Section limited to what can be mixed and compacted in the window
  Spread area sized to the crew's compaction capacity so no mixed soil sits and dries before it's rolled.
  1 photo required

- [ ] Mixer path walked for utilities and structures before cutting
  Valve boxes, manholes, shallow lines and irrigation marked and flagged out of the mixer's cut depth, with the super confirming locates are current.
  No photo required

- [ ] Geotextile or geogrid, where the design uses one, laid to the plan
  Product matches the approved submittal, rolls oriented and overlapped as the stabilization design shows, no wrinkles or tears before fill goes over it.
  No photo required

Additive and application rate

- [ ] Additive type matches the mix design
  Lime, cement or fly-ash matches what the geotechnical mix design calls for, delivery tickets photographed against the spec.
  2 photos required

- [ ] Spread rate verified against the design
  Application rate confirmed by bag count or spreader ticket over the measured area, compared to the pounds per square yard the design requires.
  2 photos required

- [ ] Spread uniformity checked across the spreader width
  Pans or tarps of known area laid in the spreader's path and the catch weighed by the testing lab or QC tech, or the distributor's rate check on slurry; streaks or bare lanes re-spread.
  1 photo required

- [ ] Spread additive mixed the same day, not left exposed
  Additive on the ground blended in before wind or rain can carry it off; no spread strips left overnight or washed into low spots.
  1 photo required

- [ ] Dust from spreading and mixing held on the section
  Observed from upwind and outside the spreading and mixing lanes: no additive drifting onto roads or adjacent work, spreading paused in gusty wind.
  1 photo required

Mixing and moisture

- [ ] Mixing depth checked in the section
  Mixer cut probed or dug to confirm the additive is blended to the full design depth, not just the top few inches.
  2 photos required
- [ ] Moisture conditioned into the compaction window
  Soil watered or aerated to the moisture range the design calls for before compaction, uniform color with no dry pockets or ponded water.
  1 photo required
- [ ] Pulverization checked after the mixing pass
  Mixed soil sampled by the testing lab and screened for clods larger than the specifications allow; extra mixer passes run until it meets the gradation.
  1 photo required
- [ ] Lab moisture reading taken before the first roller pass
  Testing lab's field moisture on the mixed soil compared to the range from the treated-soil curve, logged with the station and time.
  1 photo required