Pre-Pour Meeting and Inspection – Structural Elevated Deck

Purpose:

The purpose of this Standard Operating Procedure is to establish a consistent review process for concrete pre-pour meetings and inspections for Structural Deck.

Procedure:

1) Prior to checklist sign-off, a thorough review of all applicable drawings must be completed.
   A) Architectural
      i. Confirm slab dimensions reflect installed perimeter formwork.
      ii. Verify any blockouts or recesses required are accounted for and layout is accurate.
         (1) Consider blockouts in lieu of installing some fixtures such as floor sinks to prevent damage during construction.
         (2) Review flooring types, some may require recessed slabs in order for finish material to install as designed (ie: kitchen tiles, wood floors)
         (3) Confirm shower / tub design and if a recess is required.
      iii. Identify location of plumbing walls and verify wall size vs. pipe size.
      iv. Confirm curb locations and verify structural drawings reflect accurately.
      v. Confirm column locations match structural
      vi. Confirm any edge of slab leave outs or bumpouts are accurate (precast/tilt wall at windows/doors, brick ledges, etc.)

   B) During checklist verification, establish a system that works for you that will allow a productive and thorough inspection of all systems.

   C) MEP
      i. Plumbing
         (1) Drain types (consider block-outs for drains that could be damaged during construction)
            (a) Elevations of specific drain types
               (i) Area floor drains
               (ii) Floor Sinks
               (iii) Architectural Drains
         (2) Confirm recesses (if applicable, ie: trench drain) are accounted for and layout is accurate.
         (3) Confirm all local inspections have been completed
         (4) Review blockouts against penetration shop drawings (provided by sub, approved by AOR & EOR)
      ii. Electrical
         (1) Ensure all electrical conduits are accounted for and in-place.
            (a) Mass conduit runs must be spaced out and secured per structural specifications. Confirm EOR is accepting of in-slab rough-in.
         (2) Ensure any floor boxes are accounted for and layout is accurate.
         (3) Confirm all local inspections have been completed
         (4) Review blockouts against penetration shop drawings (provided by sub, approved by AOR & EOR)
      iii. Mechanical
         (1) Confirm all blockouts are sized and located correctly
         (2) Review blockouts against penetration shop drawings (provided by sub, approved by AOR & EOR)

D) Structural
   i. PT Cables
      (1) Verify PT shops are approved.
      (2) Review PT counts, spacings, and profiles to ensure correct installation.
      (3) Review PT cable support spacing to ensure correct installation
      (4) Review PT cable anchor details to ensure correct installation
   ii. Steel Reinforcing
      (1) Verify rebar shops are approved
         (a) Review rebar sizing, spacing, laps, and verify in field for correct installation.
         (b) Review added bar requirements to ensure correct installation.
         (c) Review stud rail sizes, qty, layout to ensure correct installation.
   iii. If thickened slabs are required, confirm subgrade is recessed to allow full depth of designed thickness.
   iv. Verify mix design with admixtures has been approved.
      (1) If project conditions require a change to approved mix design (weather, schedule, etc.) be sure to have new mix design approved prior to placement by EOR.
   v. Verify minimum / maximum slump specified
   vi. If weather, schedule requires change Verify special admixtures have been approved
   vii. Confirm local jurisdiction or 3rd party testing agency (if applicable) has approved all work-in-place.

E) Formwork
   i. Verify formwork is installed level (spot checking with a simple laser and tape measure will work). Best practices include laser verification during the pour. This will allow immediate notification of any formwork that may have the potential to blow-out, or may require adjustment of shoring to maintain an accurate thickness.
   ii. Verify formwork is installed square, plumb, straight.
   iii. Verify shoring below is installed per shoring plan. Proper sign-off by qualified inspector (usually provided by subcontractor) is imperative.
   iv. Confirm perimeter shores and reshores are tied off to prevent a falling object hazard.

F) Safety
   i. Prior to concrete placement, coordinate the following:
      (1) Proper cleanup around the placement area has been conducted
      (2) Light plant locations
      (3) Routing for concrete trucks is clear and well established.
         (a) Verify truck route is in solid condition
      (4) Verify pump truck location
         (a) Confirm reach
         (b) Confirm ground is in solid condition
            (i) If crane mats are required, confirm they are available and in good repair
      (5) If crane use is required, verify operator working hours does not exceed acceptable amount.
      (6) Verify all adjacent property owners, local jurisdictions (road closures) are aware of pour schedules.
         (a) If alternate routing for public vehicle and/or pedestrian traffic is required, verify safety measures are in place.

G) Inspection Form (see attached)
   i. All subcontractors, inspectors, and Crain employees associated with each SOG placement is required to sign the inspection form. This will relieve Crain Construction from *some* liability for any work improperly placed or changes that may occur.
   ii. Once completed and signed by all parties, save inspection form in appropriate Procore Jobsite folder and distribute.
      (1) This form can be found in the "Forms" folder within Procore.
      (2) Label each individual SOG placement with the following
         (a) Pour #
         (b) Date
         (c) Location