COORDINATING UNKNOWNS
MANAGING THE HUMAN SIDE OF A “VIRTUAL” TEAM

THOMAS FULDA
CONSTRUCTION TECHNOLOGY MANAGER
THE WALSH GROUP

@TheBigGreenW | #BIMForum19
OUR COMPANY

REGIONAL OFFICES / WORKFORCE

Atlanta, GA
Boston, MA
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Chesterfield, MO
Chicago, IL
Crown Point, IN
Detroit, MI
Irving, TX
Los Angeles, CA
Phoenix, AZ
Pittsburgh, PA
Raleigh, NC
Rutherford, NJ
San Diego, CA
Seattle, WA
Tampa, FL
Toronto, ON
Walnut Creek, CA
Washington, DC

6,000 Workforce
THIS IS A CRY FOR HELP.
TECHNOLOGY IS EASY. PEOPLE ARE HARD.
# Conference Call BINGO

<table>
<thead>
<tr>
<th>Mute your phone please</th>
<th>&quot;Is ____ on the call?&quot;</th>
<th>&quot;Ok, let's get started&quot;</th>
<th>(coughing)</th>
<th>Child or animal noise</th>
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<tr>
<td>5 seconds Awkward silence</td>
<td>People talking at the same time</td>
<td>&quot;This was shared ahead of time&quot;</td>
<td>Echo noise or feedback</td>
<td>Sound of someone typing</td>
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<td>&quot;Can you repeat that?&quot;</td>
<td>Sound of telephone ringing</td>
<td>FREE <strong>SPACE</strong></td>
<td>&quot;Can you share that by email?&quot;</td>
<td>Sound of background conversation</td>
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<td>&quot;...technical difficulties.&quot;</td>
<td>(sigh)</td>
<td>5th &quot;Thank you&quot;</td>
<td>&quot;Time is just about up&quot;</td>
<td>Powerpoint malfunction</td>
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<td>&quot;I was on mute.&quot;</td>
<td>&quot;Can you see my screen?&quot;</td>
<td>unintended interruption</td>
<td>&quot;____ can you comment?&quot;</td>
<td>&quot;I need to step out...&quot;</td>
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<td>&quot;Hi, who just joined?&quot;</td>
<td>&quot;Can you email that to everyone?&quot;</td>
<td>&quot;____ you're on mute&quot;</td>
<td>&quot;Uh, ____ you're still sharing your screen...&quot;</td>
<td>&quot;Sorry guys, I've got to jump to another call&quot;</td>
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<tr>
<td>&quot;Win-win&quot;</td>
<td>&quot;Is ____ on the call?&quot;</td>
<td>&quot;I think we're all on the same page&quot;</td>
<td>(super loud echo/feedback)</td>
<td>&quot;Sorry, go ahead&quot;</td>
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<td>&quot;I'm sorry you cut out there&quot;</td>
<td>&quot;Can we take this offline?&quot;</td>
<td>&quot;Hit the ground running&quot;</td>
<td>(crying baby or barking dog)</td>
<td>&quot;I think there's a lag&quot;</td>
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<td>&quot;I'm sorry, I was cut out of the call&quot;</td>
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**I'M SORRY; I WAS ON MUTE**
TIPS FOR VIRTUAL MEETINGS

AGENDA
- AGENDA-DRIVEN
- CONTROL THE SCREEN-SPACE
- SIGNALING
- SHARE AND SHARE ALIKE
- S-M-L-XL?
- MANAGE THE BACK-END
- THANK YOU NOTES
AGENDA

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**BIM Coordination**

### Meeting Agenda
November 9th, 2017

### Priority Coordination Issues

**MEP Coordination RFIs Returned This Week**

1. RFI #83, sanitary conflict with foundations - sleeves.
2. RFI #48, steel conflict with foundations - Memers.
3. RFI #69, add subgrade storm line for garage and planters - City of Dallas.
4. RFI #14, 8" fire protection water conflict - sleeves.
5. RFI #15, add subgrade storm line - storm load.
6. RFI #23, garage entry trench drain - eliminated from scope.
7. RFI #33, elevator pit dimensions.

### Outstanding MEP Coordination RFIs

1. RFI #21, relocate MS61 to Electrical Room #183.
2. RFI #22, lift station.
3. RFI #24, cooling tower core drill locations at Gadderd Garaje.
4. RFI #30, F20 light clarification (model number).
5. RFI #32, mechanical pipe and grade beam at building's northeast corner.
6. RFI #34, HVAC vault and planters, soil nail wall system.
7. RFI #35, move standpipe out of electrical closet.
8. RFI #36, subsoil drainage terminates into elevator pits. (DRAFT)

### General

1. ProCore uploading procedures.
   - a. Double check to make sure you’re uploading to your own folder.
   - b. Use file naming standard.
   - c. EP series drawings?
2. Coordinate control system.
3. Tower crane and boom pads.

### Mechanical

1. Grade beam conflict at northeast corner.

### Electrical

1. Ductbank and crane pad clashes.
2. Vault elevation.
3. Coordination of electrical fixtures, cabling between architectural and electrical drawings.

### Plumbing

1. Subgrade coordination with structural grade beams.
2. RFI queue.

### Fire Protection

1. Balcony conditions.
2. Standpipe locations.

### Clash Reports

Review This Week
1. Sub-grade, preliminary modeling.

### Technology

**Uploads/Downloads**

New and revised model files should finish uploading to the subfolder appropriate to each trade in the Procure (BIM/Coordination/Models) folder no later than 6am, Wednesday, November 15th.

**Remote Dial-In**

A standing GoToMeeting is available at https://global.gommeeting.com/pjor/889506365.
Dial (612) 240-3311 and use access code 986-459-596 to join the conference call and screen cast.
Model Coordination

Assess ASI #6 Impact

1. A1 – bathroom reconfiguration, freestanding cabinets revised to closet, laundry utility enlarged.
2. A2 – new kitchen wall. (1.10)
3. A3 – enlarged refrigerator nook. (L35)
5. A5 – kitchen shift, laundry/closet shifts.
   a. ASA – kitchen shift, remove bump-outs. (4 levels)
6. A5 - 1 – kitchen shift, laundry/closet shifts. (19)
7. A6 – kitchen shift, hallway/closet revision. (L3)
8. A7 – kitchen shift, remove bump-outs.
9. A8 – kitchen shift, hallway/kitchen and laundry reconfiguration.
10. A9 – kitchen shift, hallway/bump-outs.
12. B1 – FCI relaxation, master closet shifts, bathroom/laundry revision
    a. BIA – FCI relaxation, master closet shifts, bathroom/laundry revision. (3 levels)

This Week

14. B3 – narrower entry hall (space lost to bathroom of an adjacent unit).
17. B6 – enlarged refrigerator nook. (L10)
18. PH1 – hallway shifts, master closet alteration removed.
19. PH2 – ubiquitous minor partition shifts.
20. PH3/2A – kitchen shift, minor partition shifts.
21. PH4 – added closet partitions.
22. PH5 – bathroom/laundry reconfiguration.
23. PH6 – FCI relaxation, bathroom/laundry redesign.
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**Design Questions**

RFI Closed This Week

- #141. Unit #401/402 - ceiling of 7’-2”-acceptable? SCP to group RFI response with adjacent living area.
- #266. MRA, T10, conflict with beam (14”) out of plane per as built. IRC to EMMA to clear.
- #274, lights shifted per XIN, direction.
- #294, restrictions on shaving concrete off beams. TIP - T53 - OK in this specific instance. Add Paul to agenda mailing list.

**LL2 Issues**

1. FE Mano to verify west wall location of MECH SUPPORT #216, mechanical plans show it west of architectural plan location - if wall is per architectural, primary duct run will run directly over wall as designed.
2. FE Mano to VIF conditions in ELECTRICAL #205, issue RFI if duct is as shown, cannot run through electrical room.
3. Connelly to VIF MECHANICAL #210, confirm not enough electrical equipment to rate classification as ELECTRICAL.
4. Will north end of EM SWITCHGEAR ROOM #212 need to be partitioned off to separate existing duct and new storm from electrical? See PI L2.
5. Review changes to SWITCHBOARD #216 layout again for dual primary duct.
6. MDF Room #218, as server cabinets are typically 7’-2”, adding wall to room will not affect height.
7. Confirm location of electrical risers up from LL2 past wall into mechanical room will not conflict.
8. Ongoing discussions with ConEq.
9. O’Sullivan to provide sketches for sleeve penetrations in wall.
10. Review congestion in Corridor #219, explore options:
   a. Stair R Option #1 - fire-rated enclosed exit to stairway and floor.
   b. Stair R Option #2 - split Stair R into rooms and floor.
   c. Run piping on the floor.
11. Booster Pump #227 boxed in by primary mechanical block potential routing east.
12. Confirm parking overhead clearance past the 8’-2” AHU to allow for additional clearance.
13. Storage units - height, construction, MEP allowed to go up.
14. Pipe protection for risers in parking garage.

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**Supplemental Information**

**MEP Coordination RFIs Closed This Week**

1. RFI #75, dedicate Goddard garage connections for make-up water and expansion. Proposal accepted, issue credit.

**Outstanding MEP Coordination RFIs**

1. RFI #31, relocate M581 to Electrical Room #183. Close loop by resenting.
2. RFI #42, cooling tower core drill locations at Goddard Garage. Owner issue.
3. RFI #45, discrepancies in count/tape of light fixture between electrical and architectural sets. AMI’s BIC?
4. RFI #47, electrical closet doors alternate between 36” and 48”. Rooms will change only as needed for equipment.
5. RFI #48, additional standpipes. BIC to AV, follow-up with Genesis to draw up sketch and close out.
6. RFI #58, nitrogen dry sprinkler system. Verbal OK for idea, but owner BIC.
7. RFI #59, CL sink callout in coffee lounge. Own data, “CL” is a callout to centerline, BOD still owed.
8. RFI #70, plan details omitted… AS30 series. Nissou’s drawings pending, will remain open until then.
9. RFI #74, modify callout of Golf Simulator Room #111. Verbal OK, hand coordinate for diagonal tracing of covers.
10. RFI #75, eliminate vents in BOH-Hallway #183/173 by using air admittance valves. Expected review requested.
11. RFI #79, request for enlarged plumbing plans of residential areas.

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**Priority Coordination Issues**

**Architectural**

1. Paths of egress, coordination with standpipe design.
2. Confirm modeling errors – northeast stair, steel in east soffit per S-102 and S-404/I.
3. Curtainwall penetrations – assembled package of F2C, O4D, goes vent, etc.
4. Isolated soffit from pump room to main building.
5. 8’-4” van path, 7’-4” clear garage.
6. Design intent of folding partition hide-away by Catering #125.
7. Cove detail at Golf Simulator #171.

**General**

1. Shop drawings, subgrade.
WINDOWS-KEY + ← ↓ →
ALSO, MUSCLE MEMORY.
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If 93% of all communication is nonverbal...

How do you know that your message is coming across on an audio call?

When people speak to us, we absorb a mere 7% of what they are saying through the words they use.

- Words: 7%
- Body Language: 55%
- Tone & Inflections: 38%

We derive 55% of the meaning from their body language and posture and physical clues, and 38% from the tone and inflections of the words they present.
“ANYTHING ELSE YOU GUYS WANTED TO LOOK AT TODAY?”
“JOE, WAS THERE ANYTHING ON THE ELECTRICAL SIDE YOU WANTED TO COVER TODAY?”
REPEAT, REPEAT, REPEAT.

ALSO, REPEAT.
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<th>Name</th>
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<td>Richard Devere</td>
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My goodness, this article has been a mammoth job to put together. But I think you’ll be interested in the results of my tests. I was approached by the people at Reason8 to try their meeting transcription software, and together we decided the best test would be to do a market comparison and review similar tools. So we did. Reason8 were kind enough to pay for my time to do this piece of work, but all opinions are my own.

While no one denies that face-to-face meetings offer intrinsic benefits, sometimes it is just not practical. Work teams may be spread across the country or around the world, operating out of offices, hotel rooms, coffee shops or homes. At such times, technology can be a planner’s best friend.

Brett Weiss, an author, tech guru and self-described nerd IFT, points out that there are many virtual meeting solutions available—nearly all of which offer free or reasonably-priced versions. Next time you are planning an event and need to get feedback or input from others who are not in the near vicinity, consider organizing a virtual meeting with one of the following 12 tech tools:

CONFLICT RESOLUTION

SITUATION

- Modeler #1 had trouble dialing into web-meeting
- Working from home
- His girlfriend was visiting
- He wanted to show off
- Thought he’d put himself on mute
- Made fun of one of the other subcontractors’ work
- No way for me to boot him from the call, dial-in access

Message:

From: Fulda, Thomas
Sent: Friday, September 28, 2018 8:10 AM
To: XXX
Cc: XXX
Subject: XXX

XXX:

Not a command, just a suggestion for how to handle it...you might want to take the initiative and give XXX a call. To apologize personally for the muting thing yesterday. I know you didn’t mean anything by it, but it might be a good thing to take the initiative, admit your mistake (just FYI, that “yeah I was making fun of them” came through on the call loud and clear), let him know you appreciate all the help he’s been to you during the coordination process, and that you understand how difficult it must be for him to adapt and rework the plumbing engineer’s drawings in areas where they clearly didn’t think about ceiling transitions.

Here’s his contact info:
XXXXX
XXXXXX

Again, just a suggestion...it’s totally your call on what to do.

Thomas Fulda
Construction Technology Manager
The Walsh Group
900 West Adams Street
Chicago, IL 60607
Office: (312) 342-1488, Ext 306
Mobile: (312) 772-3677
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Thank You
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