

# I Can See Clearly Now...

Shawn Morrison, Gilbane Building Co. Jesus Castruita, ICI-Colorado Larry Kavanagh, Unified Works

Session # 24W1G

SURFING THE WAVE OF LEAN DESIGN AND CONSTRUCTION

Wednesday, October 23rd. 11:30 AM PT

Lutheran Hospital – Wheat Ridge, CO (Inter-Mountain Health)

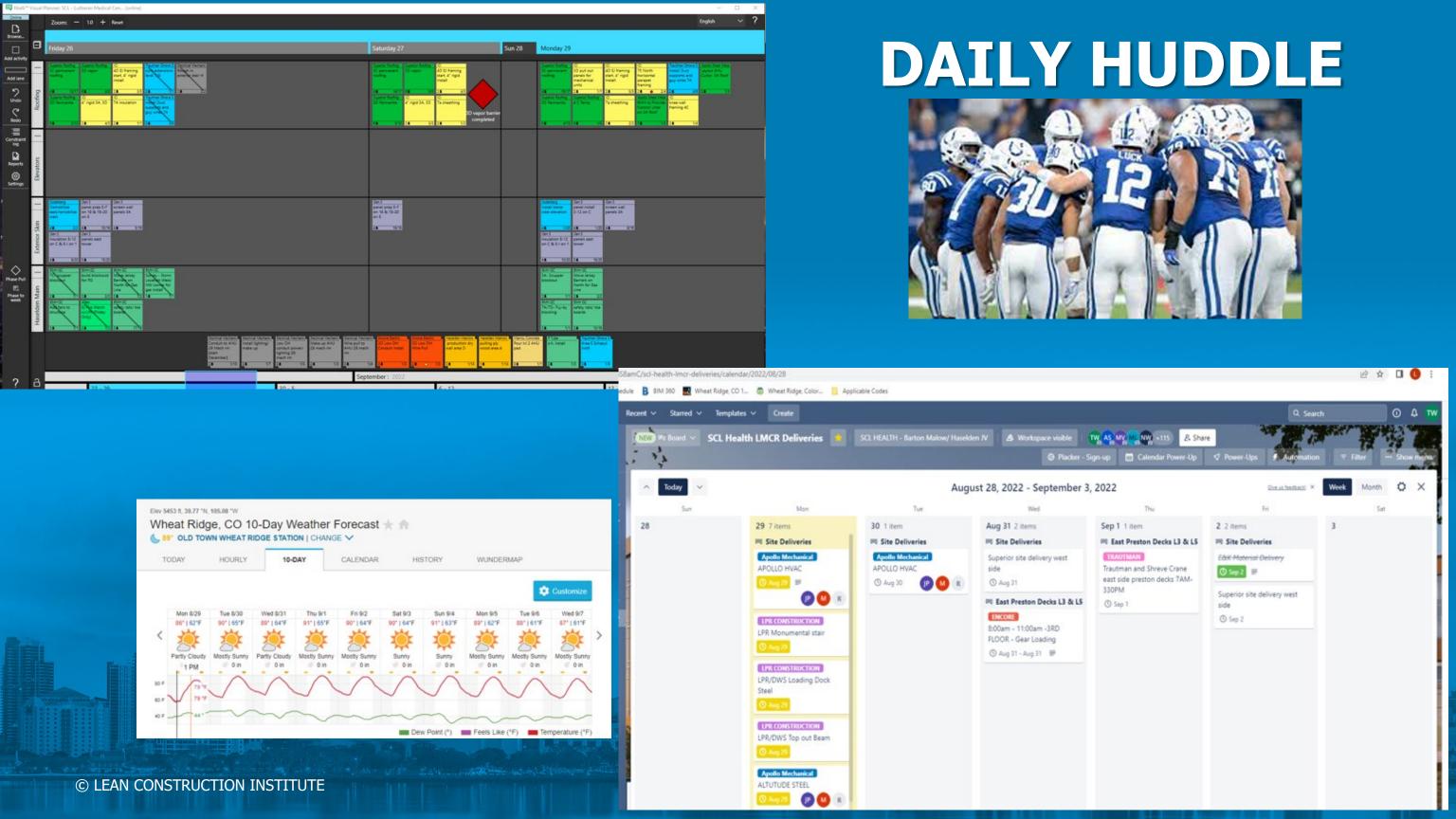


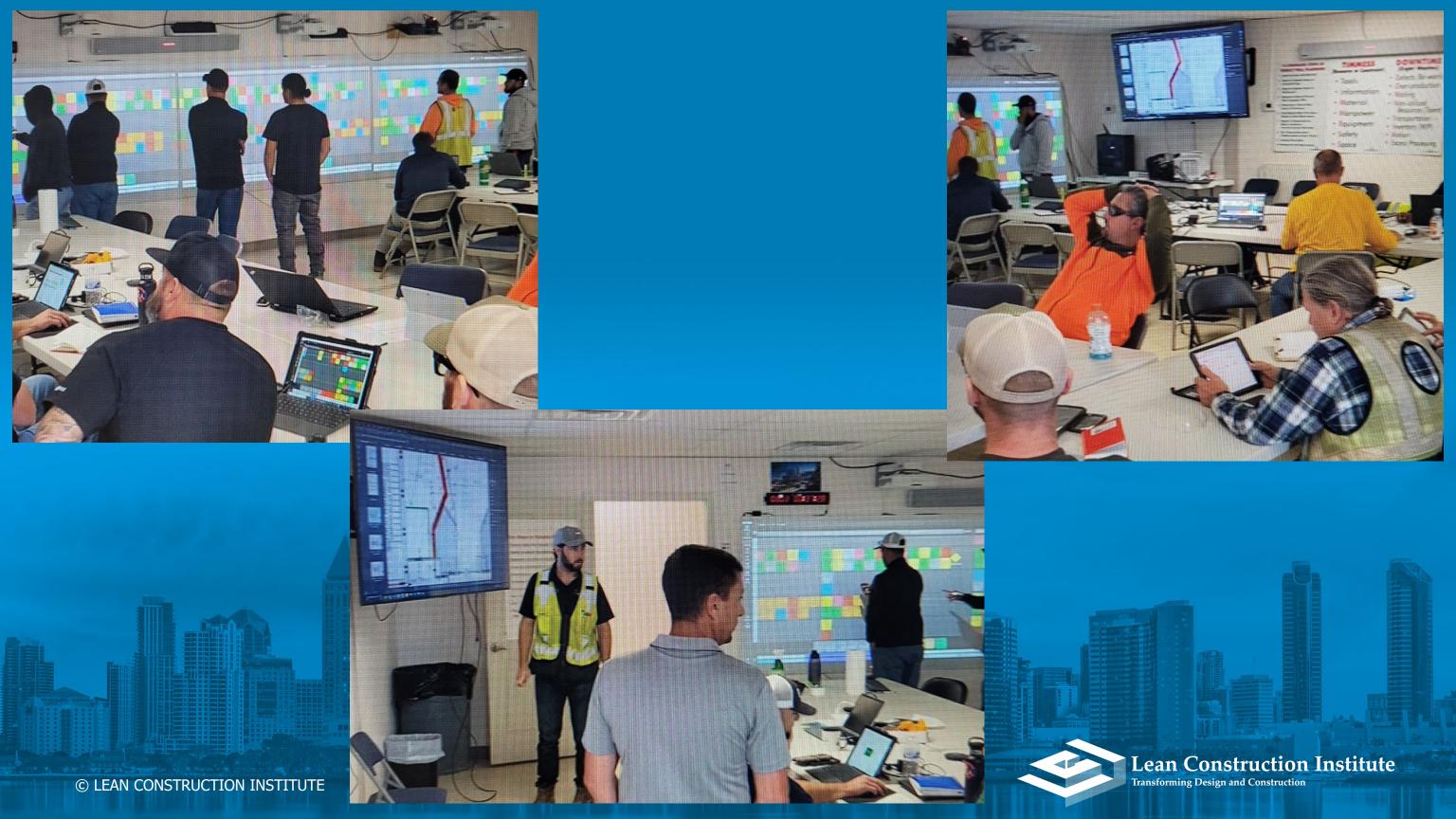
- \$450 mil. Ground Up
- 6-Floors
- 27 acres. 850,000 SF
- Fast Track Mission
- Occupancy 32-months





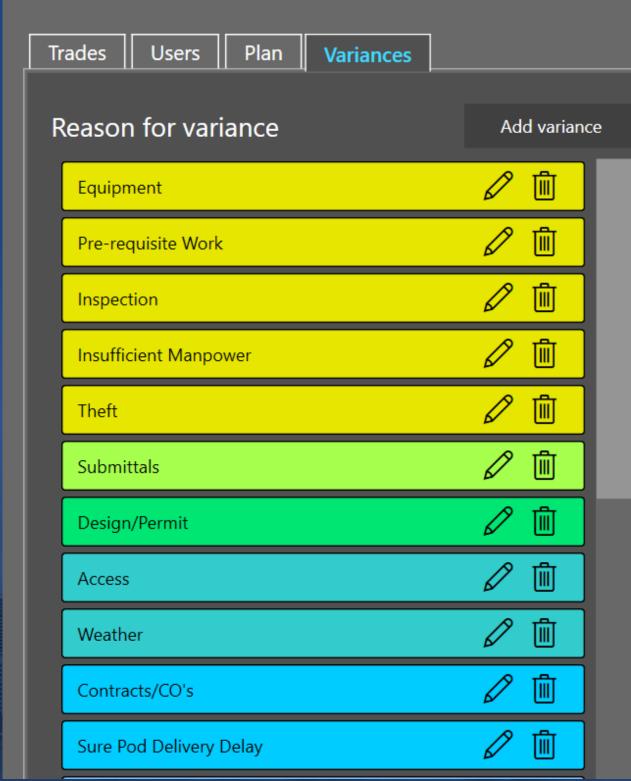




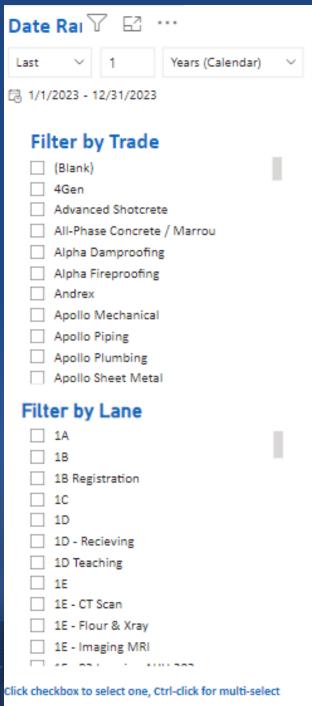


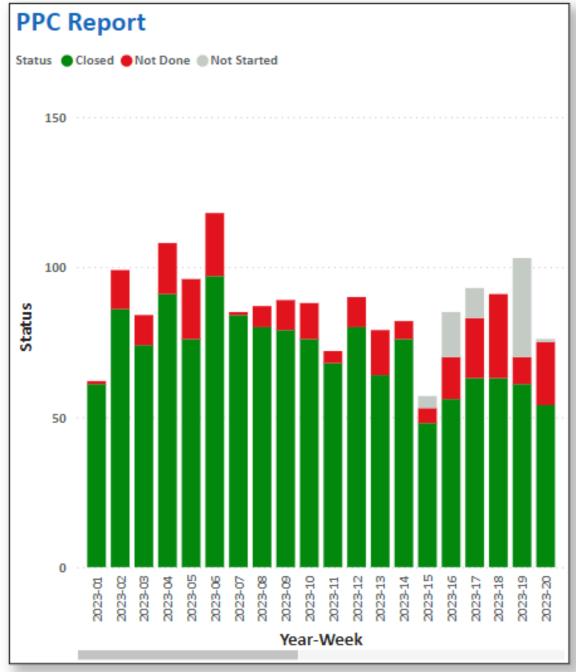


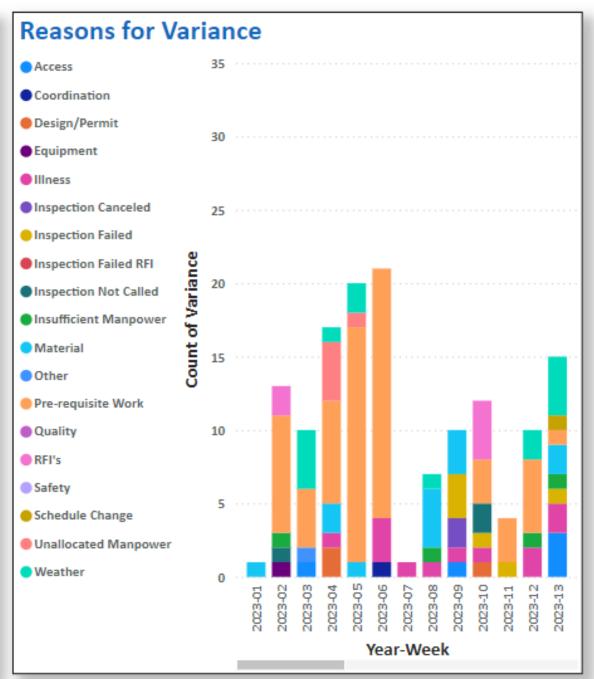
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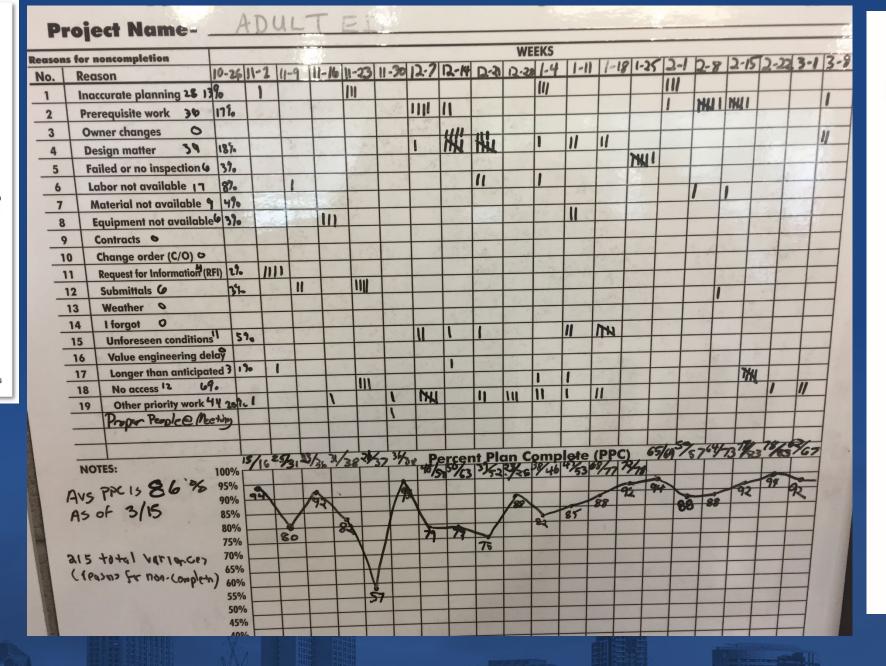




#### **DOWNTIME**

- Defects
- Over-production
- Waiting
- Non-utilized Resources/Talent
- Transportation
- Inventory
- Motion
- Excess Processing





### TIMMESS (Resource or Constraint)

- Tools
- Information
- Material
- Manpower
- Equipment
- Safety
- Space









#### Constraint Log Lean Construction Blog



**Project Name-**Individual Identifying Responsible Individual Constraint Date Date to be Date Description **Activity Constrained** Resolved for Resolving Resolved CO#91 Tin Man OH Ruff Corr. Onerous step 3a.

Step 3 Person Identifying Constraint: Responsible Person for Resolving: Date to be Resolved: Constraint #

## TIMMESS (Resource or Constraint)

- Tools
- Information
- Material
- Manpower
- Equipment
- Safety
- Space



roject Name- OLCH NICU Phase 2

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		Project	Name-	<u> </u>	1950	_	
Constraint	Date Identified	Individual Identifying Constraint	Description	Date to be Resolved	Activity Constrained	Responsible Individual for Resolving	Date Resolved
1	7/10	N.Dolan	Enabling Moves	813	Project Schedule	N. Dolan	8/3
2	8/31	A. Rotocs	IDF Closet Network	9/8	Phase 1 Construction & Prase	A. Rotch Noda	9/19
3	10/12	G. SLoniger	IDMH Occupancy Phase 1		Move in Phase I	G. Sloniger	11/22
4	11/14	N. Dolan	Supply Room Size	1/22	Ability to so to nxt phas	e N. Dolan	11/22
5	11/4	A. Bloom N. Dolan	Purchasir.g Equip. list	12/20		R. Baveman / N. Dolan	2/6
4	11/29	J. Silma 1 G. Sloniger	Redesign Support Space	12/20	Furniture plan for CD's	G. Sloniger / J. Silva	2/6
7	11/29	N. Dolan	IDPH Early Deno. Approval	12/20	Demolition of Phase 2/A	N.Dolan	12/06
8		- Charles Comment	150 150	,	***		
9	11/29	DarrinH/A Rotsch	Stanley KTLS Mtg. for		Mtg. contirmed for Jan. 10 by 12/17/2016	A. Rotsch	12/14
10	01/25	N.Dolan	Supply Chain Involvement		Project Involvement	N. Dolan	2/6
11	01/25	B.Mollen	IDPH Pkg Review & Stort Demo	3/22	Demolition start	G. sloniger	3/20
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### **SCL Constraint Log**

Date	Person Identifying	Project Name-	Responsible Party	Date to be resolved	Status
Date	Issue	Issue	nice /Carlos	4-1-22	oper
1	Phil	House Keeping Pal 330, Parel	- Ryan / Aich	41-1-22	open
201	The second secon	Elevator shart Tube Conflicte	JAMES/TAME / DYIN / CEM	The second secon	OPEN
-	pan.	- comes/ici/n. Thucking Prep	THE STREET CONTRACTOR STREET, STREET CONTRACTOR STREET, STREET	3-25-24	open
	Chad	Fire Line Inspection State / West putos Level & Elevator Machine Kora Sals	COMMENTS AND DESCRIPTION OF THE PARTY OF THE	3-79-22	Open
	Tylir	A'H R34 (RFI)	Tyler	4-4-22	oper
	1440	Cooling four Suport Steel (RFI)	Tules	3-29-22	open.
		Sality @ 2' Band in Malmin Sheft	James / J.m / Isac Dy/m/Mall / James	3- 36-37	open
	308	Binx Place Issues	Py/m/M11 /3000	3.25.2	01-
	-	Electric Room Openings	BMH/FMON/EOK/ICI	3.28.22	
1					
L			N. Comment	STATE SHARE	
1			ALTON TO THE REAL PROPERTY OF THE PERTY OF T		
			-/-	11 1 22	
	Encore (Tyler)	CUP UG - North Tonp stairwell	111	4-1-22	
-	The state of the s		000		
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-	No. of the last of		-		
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### Section Div

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Project Name-									
Constro		Date lentified	Individual Identifying Constraint	Description	Date to be Resolved	Activity Constrained	Responsible Individual for Resolving	Date Resolve	
47		0/23	GAVIN	PP3A-folds, caps, sig.	8/25	Start G1, G2 fnd's	AAI-Joyce		
bi		8/11	Jose	SHORMY DESIGN Agrama		INSTRUCT SHURING FOR GEY	MAI - JOYCE		
6	1	8/11	MATI H	MEP UG SU'S APPROVAL	8/25	WISTALL OF USUAB MEP	ARI- JOYCE	and the second	
71		8/18	BOB F.	ROCK MAT'L SUBMITTHE	8/25	Sog	AAI-JOYCE		
7	2	8/18	Tommy	EXPANSION JOINT DEM	1/1	ALL GEYSERS	AAI - Joyce		
5	6	7/20	STEVE O.	BULLETIN #1 (NOSA APPREVIAL)	9/11-	MSPECTIONS ON ALL UTILITIES	JAKEL. WT		
1	3	8/18	Merti H	SOUTHLAND REDOING	9/8	INSTALL OF UG	AAI - JOYCE		
7	14	8/18	Tommy	TW ANCHOR PROCUREME	Nr 9/1	WP INSTALL @ GRADE B'S	Tommy		
tracks.	15	8/18	DAN	SIGNED CONTRACT W/ ABB	TBO	WP INSPECTIONS	MARK C.		
	16	8/18	BOB F.	SHOTCRETE PANEL MU	9/15	SHOTCRETE (9/26)	MARK C.		
			-	1					
		4.4	1	Figure 4 and a second					
		1	-	7 7 -1 -1		44-	270.5		
P	-				-1 1			193	
	15	3/3/	17 STEVE-0 PP1	STORM DRUEN PUMP STRIFTED SUSSETTING	-7/59/1	Storm Drain Pump Station Install & Procurement	ext - MILLINE	Jaff	
1	-				-			-	
2	21	0 3/1	Oli7 ERIC	2 and a great of a large	Plie	111	SE-MARK		
4	1	ا ال	THI ENIC	PLAMIT FOR CUTING INTO LEVEE	0/25	4LL WEST PERM 18	or - Incilité		

Constraint Log

	•		Project I	Constru	aint L	<b>Pg</b>		INIFIE ORKS
	Constraint #	Date Identified	Individual Identifying Constraint	Description	Date to be Resolved	Activity Constrained	Responsible Individual for Resolving	Date
3	58	7121	Bob F.	Concrete Mix Design	911	Foundations/SOG	T.T.	Resolved
5	59	7121	Dennis (GFTG)	Leverfill Mat 1 Approval	8.125	Level fence / Storm	Kleinfelder	
				11			The same of the sa	
4	53	7/22	Gavin	Final W.P. drawings	8/11	WP END'S	AAI - JOYCE	
		71:0	200		,	3	THE COYCE	
					9	6.7		
				1 160	1	1		
	70		Bobr.	PILE MITIGATION FLAN	8/16	WATERPROOFING	Bod W WE	+
	62		MATT	HOPE PROCUREMENT	9/18	Temp fower @ GZ	DAN Grafin	
	68	8/11	MATT	TOWER CRANE TO SD	8/28	Contract of the	D. Gall	
				4 1			1 John John	
	-							
	100	11 3 6						



#### **CULTIVATED - High-Performing Team**

- (LK To Intro) One More Thing: Besides Delivery of Fast-Track Schedule
  - Created A High-Performing Team... Let's Get Personal!
  - High Morale. Professionally Fulfilled
  - Relationships Created and/or Strengthened



### "What's In It For Me?" (Today)

- Just Do It! (Regardless of proficiency in LPS practices...)
  - DAILY HUDDLES: Cohesion. Trade Flow. Meet Labor Budgets!

Maintain CONSTRAINT LOG: Uninterrupted Workflow.
 Leverage Brain Power

#### Contact Us

SHAWN MORRISON

Construction Executive

Gilbane Building Co.

smorrison@gilbaneco.com

LARRY KAVANAGH
Lean Coach
Unified Works, Inc.
larry@unified-works.com

JESUS CASTRUITA
Senior Superintendent

ICI - Colorado

jcastruita@icicolorado.com



Thank you for attending this presentation. Enjoy the rest of the 26<sup>th</sup> Annual LCI Congress!

