

Woodbury County Law Enforcement Center Authority

620 Douglas St., Room 104 Sioux City, Iowa 51101 Ron Wieck - Chair Dan Moore - Secretary Rocky De Witt - Treasurer

Agenda

November 8, 2022 3:00 p.m. First Floor Boardroom, County Courthouse

3:00 p.m. Call Meeting to Order

1. Approval of the agenda

712 - 279-6525

- 2. Approval of the minutes of the October 25, 2022 meeting
- 3. Approval of claims
- 4. Financial Update
- 5. Authority Visitation Policy Discussion
- 6. Report and discussion on incident from October 14, 2022
- 7. Update on Woodbury County LEC Main Project
- 8. Update on 28E Road Project
- 9. Commissioners concerns
- 10. Adjourn

ADJOURNMENT

Woodbury County Law Enforcement Center Authority

Minutes

October 25, 2022 3:00 p.m. First Floor Boardroom, County Courthouse

Attendance:

Members: Ron Wieck, Rocky De Witt, Dan Moore

- Staff: Karen James, Shane Albrecht, Baker Group, Kenny Schmitz, Building Services, Kevin Rost, Goldberg Group Architect
 - 1. Motion by De Witt, second by Moore to approve the agenda. Carried 3-0
- 2. Motion by De Witt, second by Moore, to approve the minutes of October 11, 2022 meeting. Carried 3-0
- 3. Motion by De Witt, second by Wieck to approve claims totaling \$1,749,637.80. Carried 3-0
- 4. Dennis Butler presented a financial update.
- Shane Albrecht, Baker Group gave an update on the Furniture Procurement Policy. Shane Albrecht recommend holding the process with Workspace until more information is received. Motion by De Witt, second by Wieck to hold the process with Workspace until more information is received. Carried 2-1
- 6. Motion by De Witt, second by Wieck to table approval of Workspace Design proposal until the LEC Authority receives more information. Carried 3-0
- 7. Shane Albrecht, Baker Group, gave an update on the 28E Road Project.
- 7. Shane Albrecht, Baker Group gave an update on Woodbury County LEC Main Project.
- 9. No Commissioners concerns.
- 10. Motion by Wieck, second by De Witt to adjourn. Carried 3-0

Dan Moore, Secretary

Expense Approval Report

By Segment (Select Below)

Post Dates 11/8/2022 - 11/8/2022

Woodbury County

Vendor Name	Account Number	Payable Number	Description (Item) Post Date	Amount
Office: 45 - Law Enforcement A	Authority			
Hausmann Construction, Inc.	4750-45-9111-000-61003	021-068-017	4750 - Jail project construction 11/08/2022	2,959,178.75
Hausmann Construction, Inc.	4750-45-9111-000-61013	021-068-017	4750 - Jail project change orders 11/08/2022	16,786.50
Hausmann Construction, Inc.	4750-45-9111-000-61023	021-068-017	4750 - Jail project alternates 11/08/2022	92,752.30
Baker Group	4750-45-9111-000-61002	232267	4750 - Jail project project mana 11/08/2022	30,000.00
Ahlers & Cooney PC	4750-45-9111-000-61004	831944	4750 - Jail project professional 11/08/2022	51.00
			Office 45 - Law Enforcement Authority Total:	3,098,768.55

Grand Total: 3,098,768.55

Report Summary

Fund 4750 - Justice Center Taxable B	onde	Expense Amount 3,098,768.55	Payment Amount 0.00
4750 - Justice Center Taxable B	Grand Total:	3,098,768.55	0.00
ŀ	Account Summary		
Account Number	Account Name	Expense Amount	Payment Amount
4750-45-9111-000-61002	Project Management	30,000.00	0.00
4750-45-9111-000-61003	Construction	2,959,178.75	0.00
4750-45-9111-000-61004	Misc/Administration	51.00	0.00
4750-45-9111-000-61013	Contingency/Change Orde	16,786.50	0.00
4750-45-9111-000-61023	Construction Alternates	92,752.30	0.00
	Grand Total:	3,098,768.55	0.00

Project Account Summary

Fund Summary

Project Account Key		Expense Amount	Payment Amount
4750-9111-ALTERNATES		92,752.30	0.00
4750-9111-CONSTRUCTION		2,959,178.75	0.00
4750-9111-CONTINGENCY		16,786.50	0.00
4750-9111-MISC/ADMINISTRATION		51.00	0.00
4750-9111-PROJECT MANAGEMENT		30,000.00	0.00
	Grand Total:	3,098,768.55	0.00



Ron Wieck, Chair Dan Moore, Secretary Rocky DeWitt, Treasurer Woodbury County Courthouse 620 Douglas Street, Room #104 Sioux City, Iowa 51101 712.279.6525

Woodbury County LEC Authority

Visitation Policy

The Authority Visitation Policy is the procedure that must be followed in order to visit the Woodbury County Law Enforcement Center site at 3701 28th St., Sioux City, IA 51104.

No visitors will be allowed without having completed the following:

- 1. All visitors are required to have OSHA 10-hour training.
- 2. All visitors are required to have Hausmann Construction site training.
- 3. All visitors are required to check in at the Hausmann trailer.
- 4. All visitors are required to be approved to visit by both the Authority and Hausmann Construction.

This report is required to be submitted within 24 hours to the Safety Department and HR Department for ALL Incidents.

Injury/Incident Period:	October	Project Address:		3701 28 th	Street	
Town:	Sioux City	Project Phone Number:				
Job Name:	Woodbury County LEC	Project Mgr./ Superintendent				
Job Number:	21-068	Foreman		-		
Incident Type:	Auto/Equipment/Property					
Incident Date:	10/14/2022	Incident Time (hh:mm)	3:15		P.M.	
Safety Basis (Ple	ase attach the incident photos at the	e bottom of the fo	orm prior to sub	omitting)		
Give a detailed F	Description ·					

On 10.14.2022 employees with Hausmann construction and Alliant building group were working on the ground floor in the control room and elevator shaft. Around 3:15 pm, employees with both companies heard a loud pop that came from Area A, employees observed a 44' x 10' x 8" uninsulated precast panel falling to the North. The precast panel then collided with the next row of panels and the following row. In total, 6 panels fell to the ground and 1 more panel was removed that was partially attached to the building due to safety concerns of it falling as well. Once the panels were on the ground, employees from Hausmann and Alliant did a roll call to make sure nobody was trapped under the debris. After everyone was accounted for, HCI site supervision informed the appropriate parties of the incident that took place. The area was danger taped off immediately.

The 1st panel that fell located on the Southwest corner of area A was secured using a Burke super 32 brace that was connected to the panel 25' from the ground and tied back to the footing 19' to the south of where panel was placed. The brace was secured at both ends using a $\frac{3}{4}$ " 4.5" long DeWalt / Hilti anchor bolt. The predrilled $\frac{3}{4}$ " hole in the panel was 4" deep. The bracing plan calls for a " $\frac{3}{4}$ " screw anchor Dayton Superior Bearcat bolt 5" or 7". Alliant building group admitted to not using the Dayton Superior Bearcat bolts while installing bracing for the panels.

Upon investigation, the 4.5" ¾" inch bolt was still in the precast panel with roughly 1 1/8" of the bolt out of the panel while on the ground. The bracket holding it to the panel measures 1" so it is assumed there was an 1/8" gap between the bolt and bracket at the time the panel tipped over. This means that 3" of the bolt was in the panel before it tipped over. Additionally, there was fresh metallic scrapes on the open-end keepers of the brace bracket indicating that the anchor had slowly worked its way loose inside of the panel until the brace bracket keepers could no longer secure the anchor bolt.

On 10.13 and 10.14.2022 wind gusts were reported over 35 mph from the North/Northwest. It was observed that panels were swaying in the wind but not enough to where it raised concern of tightening the anchor bolts.

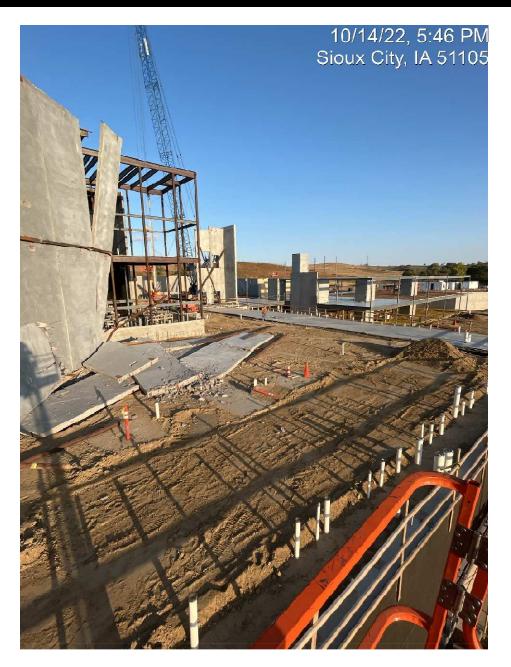
On 10.18.2022 Hausmann Construction requested to meet the structural engineer who designed the bracing plan for Alliant Building Group to obtain answers as to why this set up failed. It was determined that contributing factors were the re-use and improper selection of anchor bolts. Additionally, the engineer was unaware that there were panels standing for extended durations, and verbally stated that there should have been additional bracing/inspection for such panels. Also, noted was that the braces and anchors used required additional inspections whenever there was a wind event greater than 35 mph.

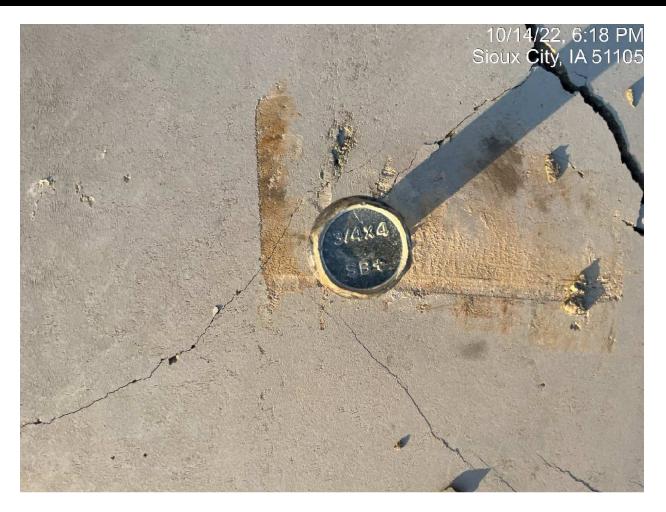
Physical Location of the	Area A		Incide	nt Occur On-S	ite or O	ff-Site?	On-site	
Incident:								
Contributing Factors: Caus	al Factors				,			
	Primary (Manda	itory)	Second	ary (Optional)		Tertiary	(Optional))
Following Procedures (Planning)	Failure to Identif	Failure to Identify Change		an item.		Choose	an item.	
Tools, Equipment & Vehicles	Choose an item.		Choose	an item.		Wrong s equipme	lection of ent	
Inattention/Lack of Awareness/Training	Choose an item.		Choose	an item.		Choose	an item.	
Use of Protective Methods and Systems	Choose an item.		Choose	an item.		Choose	an item.	
Work Exposure to	Choose an item.		High wi	nds		Choose	an item.	
Work Place Environment / Layout	Choose an item.		Choose	an item.		Choose	an item.	
Operational TaskNo Specific Activity/ Job TaskBracing precast panels.								
(What was the operation being performed?)								
Corrective Measures (How				-				
If changes occur, ensure pr Inspect bracing systems da Follow engineered plan and Fill out daily inspection log	ily and any time wind d manufacture recon	ds reach over 35 nmendations	imph to e	ensure proper		ins are m		nowed.
Causative agent involved (litions et	c):				
Duration of freestanding pa Improper anchor use.	anel w/o inspection/	revisions						
Equipment Type Involved	(if applicable):							
Burke Super 32 bracing	· · · · ·	-						
Is the involved party Intern External (Subcontractor)	nal (<mark>HCI</mark>) or	External	Cor	npany Name:	ame: Alliant			
Employee Details (Name I	Mandatory for all Ind	cidents and Nea	r Misses)					
Name of Injured/involved				ccupation:				
Employee ID (HCI Only)			Length	of Service	YRS	Mths	D	ays
Gender	Choose an item.		Time pr Job	resent on	Yrs	Mths	D	ays
Home Address:			Date of	Hire:	Click he	ere to ent	er a date.	
(HCI Only)Phone Number:			Time w	ork began?				
(HCI Only)Birthdate:								
Witnesses								

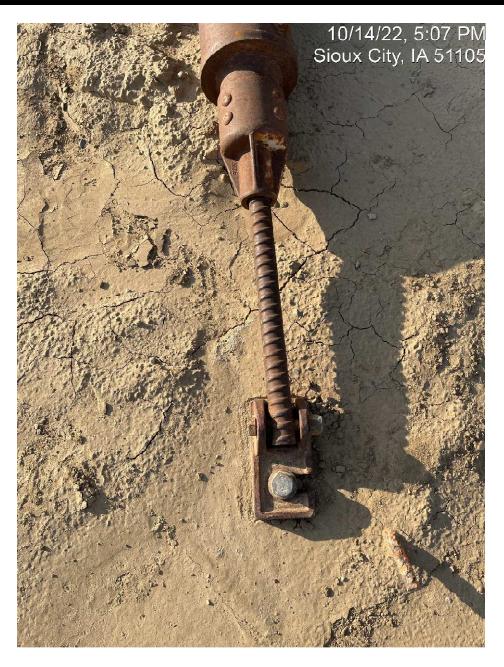
				•				
Name:				Employe	e?	Yes		
Address						Ph. Number		
Name:				Employe	e?	Choose an ite	em.	
Address						Ph. Number		
Incident/Inju	ury Details							
Did the emp	loyee require medical		Choo	ise an	Es	t. Days Away:		
attention?			item.	•				
Did employee return to work?			Choo	ise an	Es	t. Days		
			item.	•	Re	estricted:		
Cause of Inju	Iry: Choose an item.	If other	[,] pleas	se explain:				
Type of Injur	ry: Choose an item.	If other	pleas	se explain:				
Body Part In	jured:	Section	of Bo	ody Affecte	d:		Cho	ose an item.
If Arm:	Choose an item.	If Leg:		С	hoos	e an item.		
If Foot:	Choose an item.	If Torso):	С	hoos	e an item.	Back	
If Head:	Choose an item.	If Hand	:	С	hoos	e an item.	Res	piratory 🗌
What was th	e employee doing just			1				
before the ir	ncident occurred?							
Injury Quest	ions							
Was weathe		Choos	e an	If <mark>Yes</mark> , Exp	olain			
		item.						
Was this a Q	uality related issue?			If Yes , Exp	blain			
Was this a N	laintenance related			If Yes, Exp	blain			
issue?								
Medical Atte	ention Information							
Did the emp	loyee require medical a	attention?	No					
Was first aid	given?			If Give	en by	/ whom?		
What type o	f first aid was given?							
Did the emp	loyee see a healthcare	provider?	When did the emplo		ployee see	Click here to enter a date.		
			physician?					
Who accomp	panied the employee to	o the Physic	ian?					
Name of the	Physician or Healthcar	e provider?	•					
Did the emp	loyee return to		Date		e the employe	e return to	Click here to enter a date.	
work?					work			
Treated in El	R?				Hos	pitalized as in	-patient?	
	was given away from t	:he						
	here was it given?							
Submit Phot	os Here (Attach Photo	s of Inciden	t or N	lear Miss)				

1	





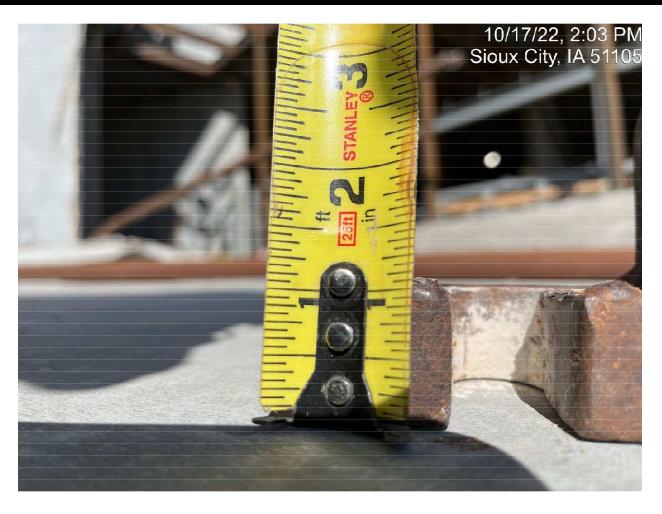




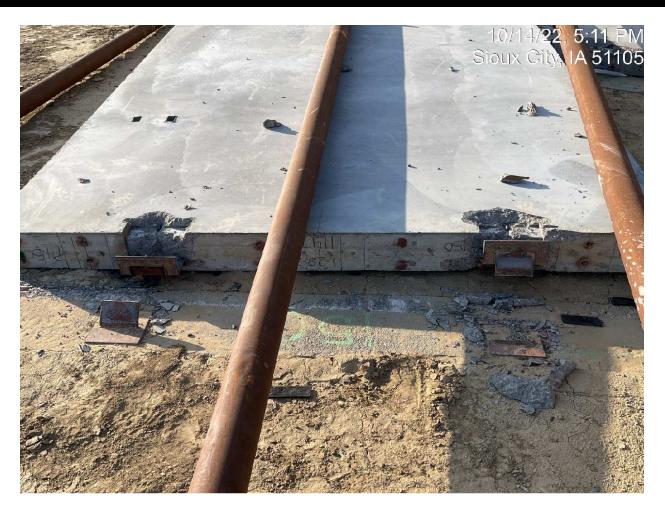




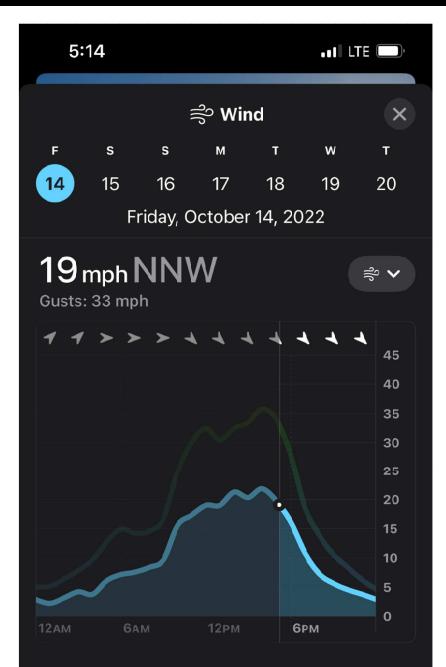








This report is required to be submitted within 24 hours to the Safety Department and HR Department for ALL Incidents.



Daily Summary

Wind is currently 19 mph from the north northwest. Today, wind speeds are 2 to 22 mph, with gusts up to 36 mph.

About Wind Speed and Gusts

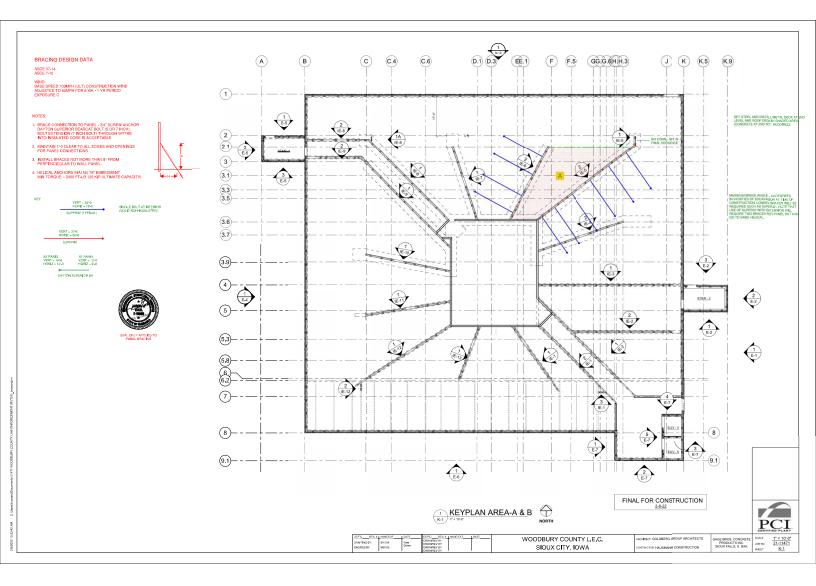
The wind speed is calculated using the average over a short period of time. Gusts

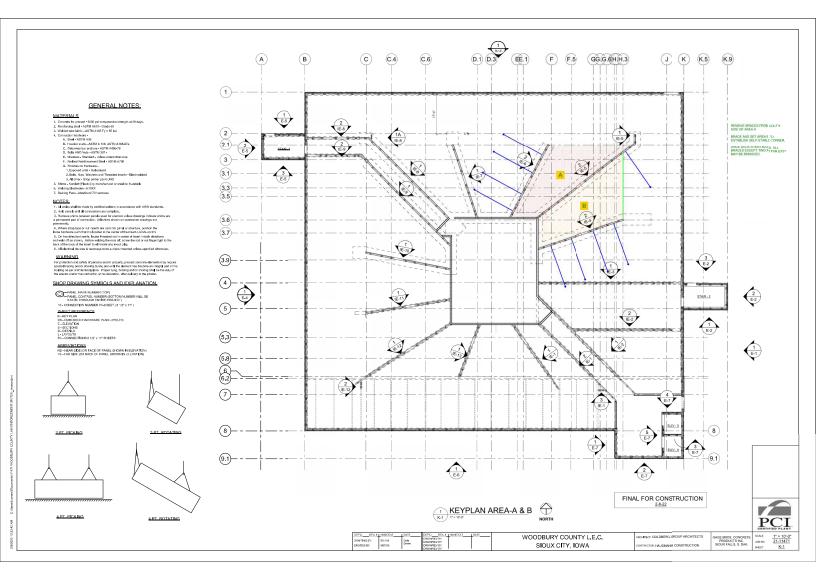
Safety Stand Down – Topics of Discussion

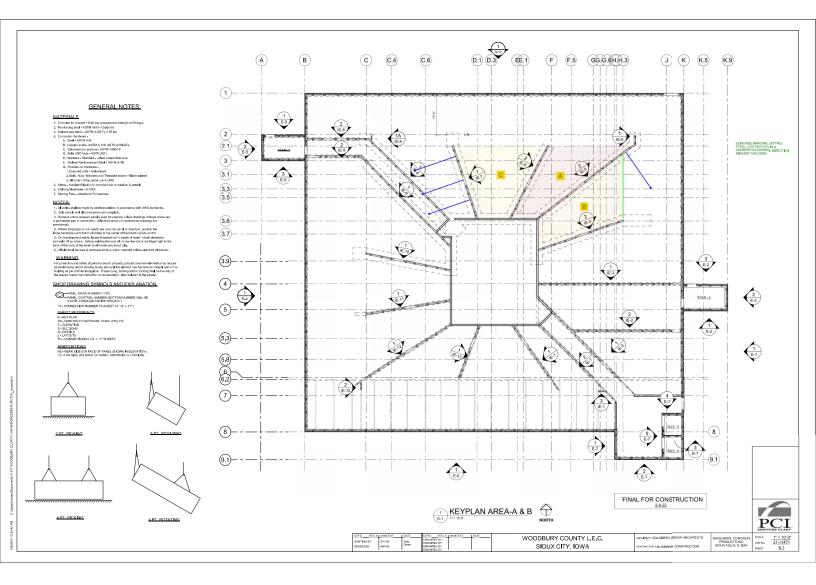
10.17.2022

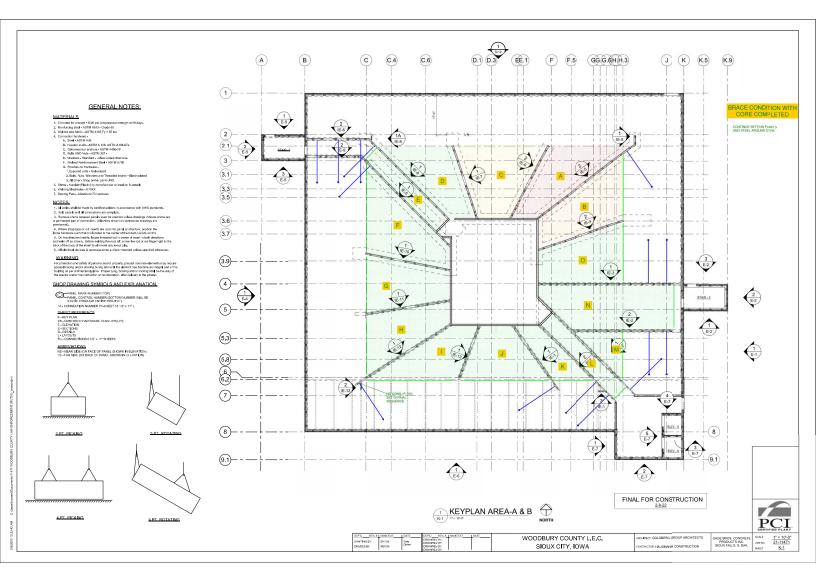
- Precast panel incident
- Do not go into the incident area until advised by Hausmann construction
- Steps going forward in precast areas to fix damages
- Importance of routine inspections by all trades
- Communication between trades
- Remind subs to be aware of all hazards while working on site

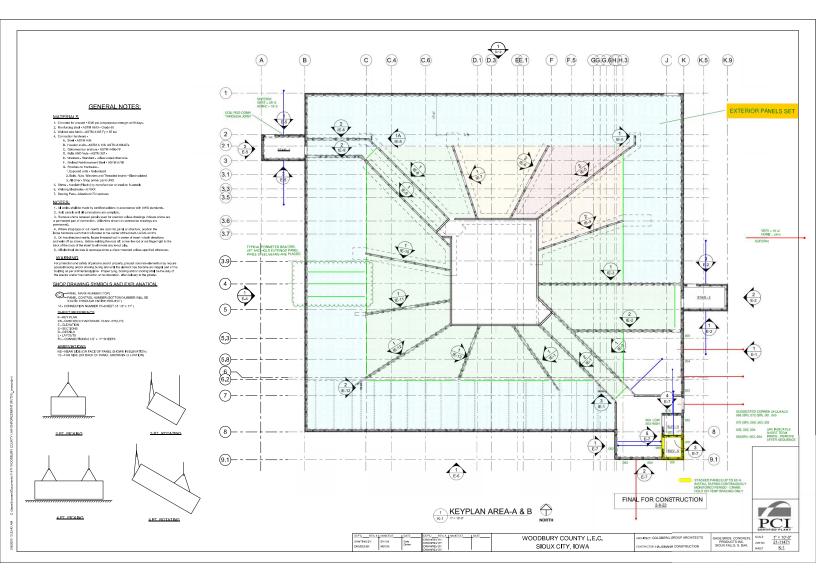
Safety Stand Down Sign-in Sheet Training Title: Precast Panels Project: Woodbury LEC Date: 10/17/2022 HAUSMANN construction Company Name (Printed) Signature 6

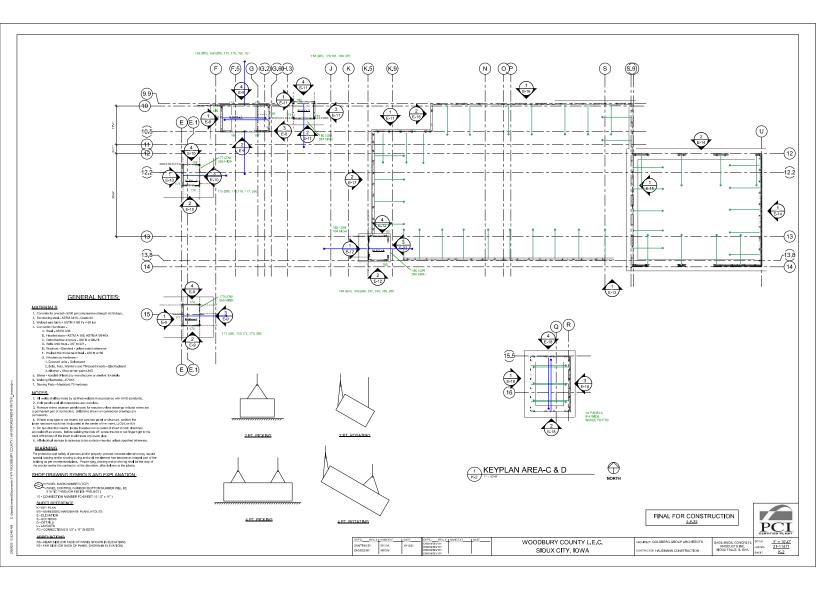














Tilt-Up

TECHNICAL DATA SHEET

DESCRIPTION

The Dayton Superior Single-Use Bearcat Bolt is a high strength drill-in screw anchor. This anchor utilizes a pre-drilled hole and self-taps into the concrete, creating a mechanical connection between the concrete and the anchor threads. This screw anchor, unlike other competitor screw anchors, was designed specifically for use in tilt-up construction applications. The high strength carbon steel allows for quick and easy installation. This one-time-use bolt is available in a blue electro galvanized zinc finish to prevent rust and corrosion.

APPLICATION

The primary use of the Single-Use Bearcat Bolt is for anchoring tilt-up wall braces to floor slabs during panel erection. Additional uses include lift brackets/plates as well as permanent or temporary fixation of racking, rails, guards, etc. Reuse of this bolt is not recommended or supported.



FEATURES

- High capacity to maximize brace system
- 5" and 7" bolt lengths
- Compatible with ¾" drilled holes
- Integrated cut-washer for anti-rotation

BENEFITS

- Quick and clear installation
- Works in a wide variety of applications
- Better bite into concrete
- No spinning or slipping in hole
- One-time-use eliminates the need to restock used bolts

TECHNICAL DATA

Bearcat Bolt Setting Detail	5" Bearcat Eolt	7'' Bearcat Bolt		
Maximum Mounting Plate Thickness ¹		1"		
Minimum Mounting Plate Hole Diameter	15	/16"		
Total Shank Length	5.25	7.25"		
Nominal Full Embedment ¹	4.25"	6.25"		
Minimum Edge Distance	10"	15"		
Over-drill Depth ²	0.	50"		
Nominal Drill Bit Diameter	3	3/4"		
Socket/Hex-head Size	1-	1/8"		
Setting Torque ³	200	ft-lbs.		

¹Ultimate capacities were obtained using a 1" plate thickness. Thicker plates will reduce the capacity.

²Over-drill depth is assuming full anchor embedment in the panel. With panels thinner than the nominal full embedment, the anchor will protrude through the back of the panel. Reference the loading chart for thin panel capacities.

³Over torquing can damage the anchor and/or reduce the capacities.

	Ultimate In-Concrete Single-Use Capacity ^{1,2,3}						
				oncrete Com		rength (psi)	
Screw	Concrete	2,5		4,0	00	6,0	00
Anchor Size	Thickness	Tension ⁴	Shear ⁵	Tension ⁴	Shear ⁵	Tension ⁴	Shear ⁵
		(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)
	4"	8,317	7,327	10,520	9,268	12,884	11,351
	5"	10,376	10,872	13,125	13,752	16,074	16,843
5" Bearcat	6"	12,012	11,909	15,194	15,064	18,609	18,449
Bolt	7"	12,012	12,863	15,194	16,271	18,609	19,927
Boit	8"	12,012	13,752	15,194	17,395	18,609	21,305
	9"	12,012	14,586	15,194	18,450	18,609	22,597
	10"	12,012	15,375	15,194	19,448	18,609	23,819
	6"	13,298	16,621	16,821	21,024	20,601	25,749
	7"	18,363	20,414	23,228	25,822	28,448	31,625
7" Bearcat	8"	20,374	21,823	25,772	27,604	31,564	33,808
Bolt	9"	20,374	23,147	25,772	29,279	31,564	35 <mark>,8</mark> 59
Boit	10"	20,374	24,399	25,772	30,863	31,564	37,799
	11"	20,374	25,590	25,772	32,369	31,564	39,644
	12"	20,374	26,728	25,772	33 <mark>,80</mark> 9	31,564	41,407

¹A safety factor of 2:1 should be applied to ultimate capacities for the tilt-up industry standard SWL.

²Linear interpolation of embedment depths and concrete strengths are not permitted.

³Ultimate capacities were obtained using a 1" mounting plate thickness.

⁴Tension testing was conducted in 4900 psi concrete.

⁵Shear values were obtained through ACI 318-14 Chapter 17 calculations and validated with in-concrete testing

TECHNICAL DATA



Tilt-Up

TECHNICAL DATA SHEET

INSTALLATION

- Drill a ³/₄" hole per the setting chart. These screw anchors can work in bottomless holes when it is necessary to drill through the thickness of the concrete. Caution must be taken when drilling through slabs to minimize blowout at the bottom of the hole. Blowout of the concrete at the back of the slab can reduce the SWL of the anchor.
- 2. Thoroughly clean the drilled hole with compressed air or suction to rid the hole of debris.
- Insert the Bearcat Bolt through the foot plate of the brace (or plate of the object to be anchored) and guide the tip of the bolt into the pre-drilled hole. Drive the anchor down until the integrated washer contacts the base plate.
- 4. Torque to 200 ft. lbs. to complete the install and ensure a secure connection. The base plate should be firmly in place. Be sure not to over-torque the bolt during installation once contact with the base plate is made, excessive torque could damage the threads cut into the concrete.

To Remove: Simply back the Single-Use Bearcat Bolt out with a wrench or impact drive.

ORDERING INFORMATION

BEARCAT™ BOLT - SINGLE-USE

Product Code	Description	Weight
101165	5" SINGLE-USE BEARCAT BOLT	0.91 LB
101166	7" SINGLE- USE BEARCAT BOLT	1.14 LB

MANUFACTURER

Dayton Superior Corporation 1125 Byers Road Miamisburg, OH 45342 Customer Service: 888-977-9600 Technical Services: 877-266-7732 Website: www.daytonsuperior.com

WARRANTY (ACCESSORIES)

Limited Warranty. Dayton warrants, for a period of 60 days from the date of shipment (three years from the date of shipment in the case of formwork, excluding any consumable Products included with such formwork), that Products and any associated application drawings and engineering services provided by Dayton ("Ancillary Services") will be free from defects in material and workmanship and, in the case of custom designed formwork, that the formwork will meet the specifications set forth in the design drawings approved by Dayton and Customer. Any claim under this warranty must be made in writing within such warranty period. If any Product and/or Ancillary Service covered by a timely claim are found to be defective, Dayton will, within a reasonable time, make any necessary repairs or corrections or, at Dayton's option, replace the Product. Unless pre-authorized by Dayton in writing, Dayton will not accept any charges for correcting defects or accept the return of any Product. This warranty will not apply to any Products that have been subjected to misuse, neglect, storage damage, misapplication, accident or any other damage caused by any person other than Dayton, or that have not been maintained in accordance with Dayton's specifications. THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES AS TO THE PRODUCTS AND ANCILLARY SERVICES. DAYTON MAKES NO OTHER WARRANTIES OR GUARANTEES, EXPRESS OR IMPLIED. INCLUDING ANY WARRANTY OF MERCHANTABILITY. FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE. THE REMEDIES SET FORTH IN THIS SECTION ARE CUSTOMER'S EXCLUSIVE REMEDY FOR BREACH OF WARRANTY.

It was brought to our attention that a precast panel collapsed last Friday (10/14/22) which in turn caused 3 other panels to fall. Site safety, the inspection of bracing, and the verifying the proper installation of the bracing is not in our scope of services. However, out of curiosity to the condition, we visited the site Tuesday (10/18/22). While on site, we noted several potentially unsafe conditions and wanted to alert you to these. We mentioned these conditions while on site and this email serves as written documentation.

- The screw anchor used to attach the wall panel to the brace was not that specified and does not have proper embedment in the panel.
- At the insulated wall panels, the connector is installed into the face panels. The erection bracing drawings we provided indicates for through panel connections at the joints.
- The erection sequence on site does not follow that provided in the bracing drawings. This can subject the braces and connectors to loads for which they were not designed.
- It was also noted that Dayton Superior, the brace supplier, recommends inspecting the anchors to the footing and wall panels after any wind event in excess of 35 mph. Based on conversations, it sounds like the site has indeed experienced such winds.

Company: AULANT		S 24.
Foreman	CHAUSMAN construction	N Project: WOODE Date: 101251
	Job Hazard Analys	Date: <u>/0/25/</u>
Job Task Description: STEEL		
Certification Needed? (Aerial/Scissor Lift, Fo Special Permits Required? (Critical Lift, Hot Special PPE Required? (Respiratory Protect	orklift, NCCCO, Rigger/Signaler, etc)	
List steps in order that task will be completed with brief description of activities)	Potential Hazard	YES NO What is needed? FALESHIE Hazard Controls (Benching, Fall Protection, Face Shield)
STEEL ERECTION - SORT STEEL - ANCHOR BOUTS/ELEVATIONS - SET STEEL	- PINCH POINTS - OVER HEAD LUADS - PIGGING - EUVATED - WEATHER WORK.	- STAM CUEARE OF SWINGTING SIEFL - INSPECT PLACTING, VSE PROPET SIGNALS,
	- STAY OUT FROM UNDER - KEEP OTHER UNDER TRADES CURAR OF SWING PADIUS.	- UFTS - 100% THE OFF
- LAMONT. - PILA PANELS - SIET PANELS BRATE	- PINGH POINTS - 121 GATING - WONTHER - OTHER TRADES	- TAUT LINE ON ALL LOADS - STAY OUT FROM UMPER LOADS - INSPECT PLACENNE
	- Waysing.	- USE THE LIMES AS MEDICO. - KETEP OTHER TRADES CUTAR OF WORK AREA. - USE PROPER LADDERS / LIFTS
		- 100% THE OFF IN BAJIGETS AND ABOVE W. - PAY ATTENTION TO SLANIFICAN WONTHER (WIND) - PROPER CRAME SLANALS.
DECIENNET - LAND BUNDLES - PUSHONT DECIENTE - WALD SCREW	- WIND - OVERATER LOADS - OTHER TRADES - WEDING/ WITING	- BE MINDFU OF UNATHER - WEED OTITUR TRADES ONT OF WORK AREA MALCE SURE COMBUSTABLES
	- ELEVATED WORK - SHAMP EDGTES	ANE DUAN OF WILL ANDA - 100% THE OFF TO PROPER PNUTURS. - WHAT GAME UNTITED GRAVES
		MITTO HANDLING DELENG.

If work exposes employees to a fall of 6 feet or greater, Fall Protection Plan on next page must be filled out.

Operation: STEEL PRECAST EXECTION	ON WORK PLAN Date:
Identify hazards in work area: - WM714WR - PINCH POINTS	-LADDERS
- MENDINUE EDGES - PLACHING - SUP/ TRIP HAZARDOS - WELDING (UTTING - SIMATUP EDGES - BOOM UETS / SU	SPATZIES - OTHER TRADES SOBULETS
Check method of fall prevention/protection to be used: Standard Guardrail (top, mid and toebcard) Anchorage point of 5000lb load/person Boom lift (designated operator required) Other (Specify)	Horizontal lifeline Vertical lifeline Retractable
Check equipment to be used: Full body harness Positioning lanyard	Rope/Cable grab
Describe procedure for assembly, maintenance, inspection an - VSE pruper FAU prutection For EAUL TO	d disassembly of system: TSK, = Potramers, Row Anuton, RETRACTARNES
Describe procedure for handling and securing tools, equipmen (ex: too boards, tool lanyards, etc.) - PRIMER TOOLS FOR LACH TASK, MAD TOOLS	
WOR LEAVE TOOLS ON PACAMUS, ON TOP OF	MARLS WHIT WOI IN USE,
Describe method for prompt, safe retrieval:	
1	



Tilt-up and Precast Concrete Panel Checklist

Project:	Site Superintendent:
Sub-Contractor:	Sub-Contractor Supervisor:
Engineering Company:	Engineer:
Date:	Panel Number(s):

It is the sub-contractor's responsibility to have all sections fully completed before task is completed. This checklist is to be completed **each day** when tilt-up or precast panels have been installed, or significant weather event has occurred.

This completed form(s) and all other items must be given to site supervision once completed.

Identify who is responsible for each item. The responsible party initials the appropriate section, or submits documentation, as evidence that each item has been inspected or actioned.

DESCRIPTION	 ACCEPTANCE CRITERIA Include approved drawings, relevant standards, engineer's instructions, client specifications and manufacturer's instructions. Attach any item-specific checklists to this form. 	INSPECTED BY: Name/Role
Drawings Required	 Drawings certified by a qualified person exist for the following: panel design: location of lifting anchors and bracing points, steel content, panel weight, panel dimensions, panel number, location of strongbacks (where applicable), concrete strength, rigging arrangement, required to suit lifting anchors erection and temporary bracing drawings: types of braces required (primary, knee, lateral, end), brace angles, levelling pads deadman (or floor slab) design: dimensions/depth, soil type, bearing capacity, terrain (wind) category, concrete strength, anchors required permanent supporting structure panel layout and erection sequence 	



DESCRIPTION	 ACCEPTANCE CRITERIA Include approved drawings, relevant standards, engineer's instructions, client specifications and manufacturer's instructions. Attach any item-specific checklists to this form. 	INSPECTED BY: Name/Role
Sub-contractors' documentation	 The following documentation has been provided before work begins: Tilt-up/precast panel Erection Contractor's Job Hazard Analysis (JHA) Crane/Rigging Contractor's Lift Plan/JHA showing: Crane set-up locations Location of obstacles, hazards, and existing structures in proximity to the crane (especially temporary braces) Rigging procedures and equipment Spotters' duties Method of communication between operator and rigger References to erection sequence Release of panels after braces installed 	
Other documentation	Other documentation providing evidence of the following:-Concrete strength tests-Casting dates-Anchor specifications for braces (panel, floor, deadman)-Brace type and specifications-Lifting anchor and clutch design-Pre-pour inspection of panels by competent person in accordance with design specifications.	
Qualifications	Crane operator and rigger have appropriate training and qualifications	
Pre-erection checks	 Concrete panels have achieved the correct strength for lifting as specified in the shop drawings. (Verification has been obtained from the builder or supplier) Deadmen and/or floor slab have achieved required concrete strength as specified in drawings. Panels have been identified and marked with casting date and panel numbers Spreader bar and/or rigging configuration used meets load requirements for type of panel. All lifting slings have working load limit and current inspection tags displayed Lifting anchors and clutches are compatible Ground conditions adequate for supporting crane (level and compacted surface, outriggers used) Site access is adequate Proximity of power lines considered, and appropriate action taken Controlled access zone is properly marked, and signage posted to keep non-essential personnel away Wind conditions are suitable for lifting 	



DESCRIPTION	ACCEPTANCE CRITERIA	
	 Include approved drawings, relevant standards, engineer's instructions, elignt engiliestions and manufacturer's 	
	instructions, client specifications and manufacturer's instructions.	INSPECTED BY: Name/Role
	 Attach any item-specific checklists to this form. 	
Panol Lifting and		
Panel Lifting and erection	 Back-up chains fitted when using a clamp arrangement to lift elements. Lift plan prevents side lifting or "suicide lifting" (lifting in such a way that if the rigging fails, the panel will strike the crane and/or operator). Ensure crane has plenty capacity Bond breakers, rolling blocks used (no jacking or shock loading when lifting to break panel from stack or trailer) Levelling pads installed and set at correct height and location as per design. Locating (dowel) pins and levelling shims installed as specified in design drawings. 	
Temporary bracing for panels and supporting structure	 Temporary bracing for the panels is in accordance with relevant drawings and specifications. Temporary bracing for the structure is in accordance with relevant drawings and specifications (knee, lateral and end braces and strongbacks installed where specified by designer/engineer Anchors used for fixing braces to the slab or deadman are an approved type. Minimum of two braces per panel or as otherwise specified in drawings. Only specified or calculated number of braces fitted to each deadman (where applicable) No mix and match braces (all braces must be of same type unless otherwise specified by a competent person). Brace angle does not exceed 5 deg. from perpendicular and is approximately 50-60 deg. From horizontal (or as otherwise specified in drawings). Panels released from crane only after temporary bracing has been properly installed Controlled access zones have been barricaded and signage posted to keep vehicles, equipment, personnel away from bracing and supporting structures. People, equipment and braces are kept clear/or at a safe distance when lifting, slewing and traveling with panels. 	
Permanent structure capable of supporting panels prior to removing support system	 All bracing or supporting structure fixing points have been installed and fixed as per shop drawings and engineering requirements The supporting structure is adequately braced or structurally sound. A competent person inspects and confirms that the structure can adequately support panel prior to release of temporary propping or support system. 	



DESCRIPTION	 ACCEPTANCE CRITERIA Include approved drawings, relevant standards, engineer's instructions, client specifications and manufacturer's instructions. Attach any item-specific checklists to this form. 	INSPECTED BY: Name/Role
Ongoing monitoring of panels and support systems	 Regular inspections of panels, support systems, and temporary isolation barriers (eg. safety inspections, observations, reviewing control measures to eliminate or minimize risk) Re-inspection at intervals and after weather events. (Significant weather events shall be detailed in engineers plan). 	
Grouting	 Grouting undertaken using specified product and within required timeframe. 	
Training, communication, and worker engagement	 Workers are adequately trained to work with tilt-up and precast concrete panels. Toolbox talk carried out with all relevant workers each day before work starts 	
Specify any additional requirements	 There are also other ways in place to engage with workers, share information, and support their participation in health and safety Workers identify health and safety risks and help manage them. Workers know how and when to report health and safety concerns. 	



Daily Bracing Inspection

Daily temporary bracing plan must be filled out **each day**. If there is a significant weather event during work hours, there must be an additional inspection after the event.

ITEM:	Yes	No	Comment
Temporary bracing for the panels is in accordance with relevant drawings and specifications.			
Temporary bracing for the structure is in accordance with relevant drawings and specifications (knee, lateral and end braces and strongbacks installed where specified by designer/engineer			
Anchors used for fixing braces to the slab or deadman are an approved type.			
Anchors used for fixing braces to the panel are installed per engineer plan and manufacture specification.			
Minimum of two braces per panel or as otherwise specified in drawings.			
Only specified or calculated number of braces fitted to each deadman (where applicable)			
No mix and match braces (all braces must be of same type unless otherwise specified by a competent person).			
Brace angle does not exceed 5 deg. from perpendicular and is approximately 50-60 deg. From horizontal (or as otherwise specified in drawings).			
Panels released from crane only after temporary bracing has been properly installed			
Controlled access zones have been barricaded and signage posted to keep vehicles, equipment, personnel away from bracing and supporting structures.			
People, equipment, and braces are kept clear/or at a safe distance when lifting, slewing and traveling with panels.			
Panels do not exceed manufacture/engineer deflection requirements.			
Erection sequence followed per engineer drawing (if changes are made, drawings must be updated)			
Deadman, footing, floor slab, and helical anchoring system is installed per manufacture/engineer design.			