



PREVENTION IN THE FIELD

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Proactive Approach

- Which trades are working in unique situations?
- Have all trades been educated about safety concerns for the given system?
- Has a Task Hazard Analysis been conducted?
- Has the area in which the system is being installed been inspected by safety supervisor?



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Sharing Lessons Learned

- Weekly safety meetings
- Daily Planner Discussions
- Task Hazard Analysis Reports
- Incident Reporting Forms
- Hazard Communication Program
- Sharing between trades
- Company Safety Resource Site
- Safety & Health Committee



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Communication

- Ensuring safety with a diverse workforce
- How are we communicating in the field?
- System specific signage
- Site safety policies

VEGETATED ROOF

THE FOLLOWING ITEMS ARE REQUIRED TO WORK ON THIS SYSTEM

**HARD HAT
SAFETY GLASSES
SAFETY VEST
FALL PROTECTION**

***SEE SITE SAFETY SUPERVISOR BEFORE BEGINNING WORK



TECHO VERDE

SE REQUIERE EL USO DE LOS SIGUIENTES ARTÍCULOS PARA TRABAJAR EN ESTE SISTEMA:

**CASCO PROTECTOR
GAFAS PROTECTORAS
CHALECO DE SEGURIDAD
PROTECCIÓN ANTI-CAÍDAS**

***VEA AL INSPECTOR DE SEGURIDAD DE CAMPO ANTES DE COMENZAR A TRABAJAR



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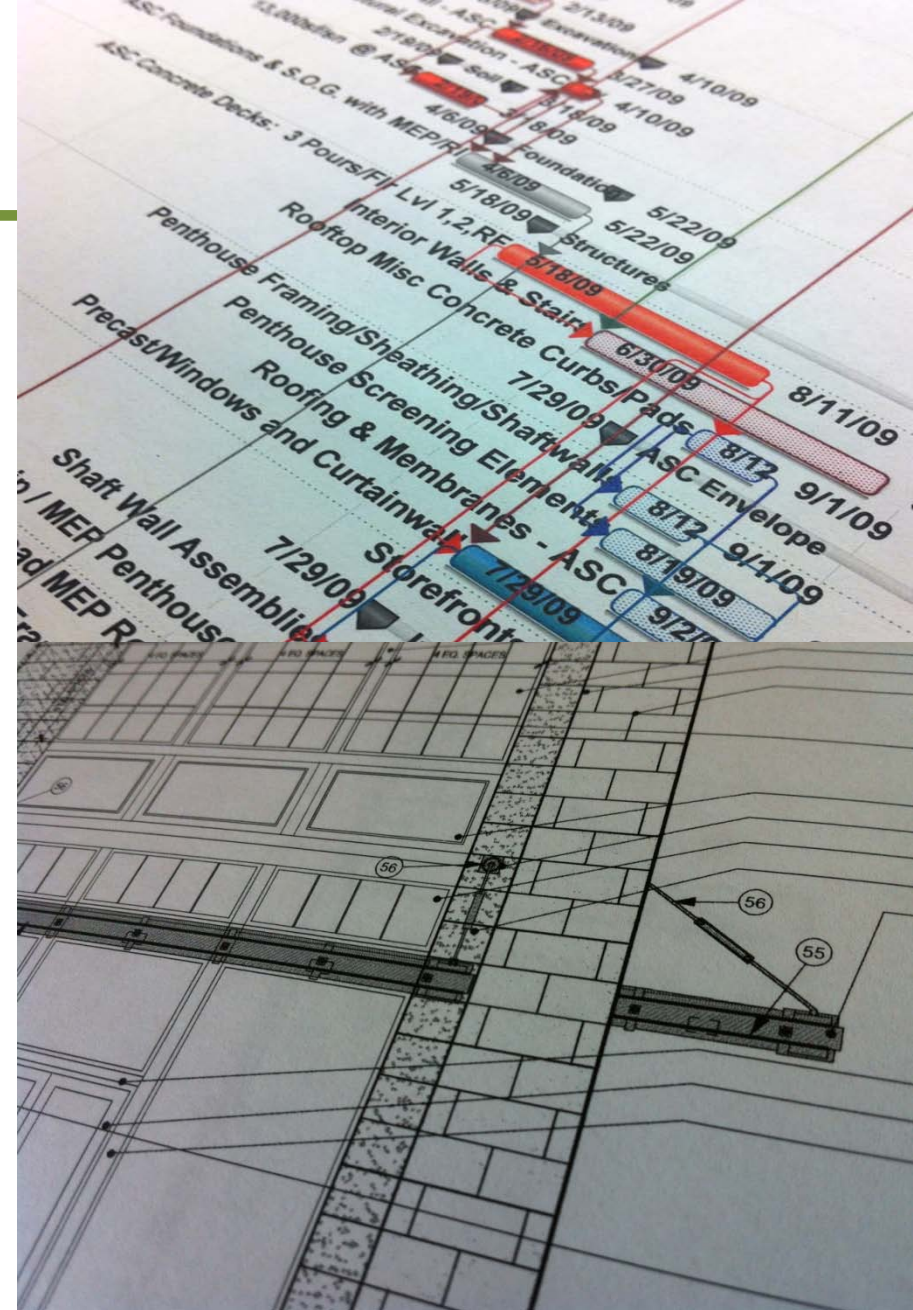
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- When will the system be installed?
- How is the system installed?
- What additional construction activities will occur during installation?
- What equipment will be required?
- What materials will be required?



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Sequencing for a Safer Site



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Trades Collaboration

- How are green building systems changing our ordinary tasks?
- Are there activities that may hinder certain trades from completing their work?
- How can different trades support others when installing a given green building system?



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COMPANY WIDE APPROACH

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Company-wide Accident Prevention Program



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Accident Prevention Program

Rules

General Rules

- [Accident Prevention](#) (WAC 296-800-140)

Rules for Specific Activities or Workplaces

- [Accident Prevention Program, First-Aid Requirements, for Agriculture](#) (WAC 296-307, Part B)
- [Construction APP Rules](#) (WAC 296-155-110)
- [Fire Fighters APP Rules](#) (WAC 296-305-01505)
- [Logging APP Rules](#) (WAC 296-54-515)
- [Longshore, Stevedore and Related Waterfront Operations APP Rules](#) (WAC 296-56-60009)
- [Sawmills APP Rules](#) (WAC 296-78-525)



Site Specific Safety Plan

- Site specific AHA forms
- Addresses:
 - All major jobsite activities
 - Associated Hazards
 - Associated Controls

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ACTIVITY / JOB HAZARD ANALYSIS

Brick Demolition / Shear Wall Prep

Activity	Hazard	Controls
General Safety Requirements all Steps	Personal Protective Equipment	PPE per site specific plan and Sellen's APP minimum PPE requirements

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ACTIVITY / JOB HAZARD ANALYSIS

Activity	Hazard	Controls
Parapet Demolition	Metal removal <ul style="list-style-type: none">• Use of power tools• Lacerations	Follow Accident Prevention plan and manufactures instructions – inspect tool before use Use gloves – during demo do not leave sharp metal exposed / tape edges – proper use of knives, saw blades and sharp or impact tools
	Strains / Sprains	Remove sections in manageable lengths - Utilize proper lifting techniques / Size up load before lifting - 2 man rule when lifting heavy items more than 50 lbs – be aware of body positioning
	Noise exposure	Hearing protection per Sellen APP – periodic noise readings – address as required
	Dust exposure	Filtered vacuum at source to minimize dust – good housekeeping and debris removal – dust mask / respirators use based on conditions
	Fall Hazards	100% fall protection as applicable – use of SRL's to existing roof davits – full guardrails and "catch platforms on exterior scaffolding – install guardrails on roof has parapet is removed – control zone around work area
	Weatherproofing <ul style="list-style-type: none">• Hot work	Burn Permit required – follow all listed precautions Charged water hose and extinguisher on site – inspect torch & propane cylinders – do not overheat torch down membrane & allow to drip down wall cavities – fire watch for 1 hour after operations & final inspection 4 hours after operations
Brick Demolition	Access	Perform all brick demo from green tagged and Hip Wrapped Peri scaffolding – use designated safe access points to scaffolding
	Falling object containment	Plywood enclosures constructed on scaffolding encompassing areas of brick demo, including 4 feet up on exterior guard rails & over decking – Hip Wrap on scaffolding to contain dust and debris – debris clean up on scaffolding as job progresses
	Fall from heights	100% fall protection when installing plywood enclosure were distance from scaffold planking to building exceeds 14" – scaffolding fully planked and guard railed
	Noise hazard	Hearing protection per Sellen's AAP and site requirements – noise level reading around hospital interfaces
	Dust Control <ul style="list-style-type: none">• Personnel• General	Full face respirators for employees removing brick Use HILTI dust control / vacuum saw for cutting brick – all work contained in Hip Wrapped areas – clean up debris as work progress – wet method if necessary
	Strains / Sprains	Remove sections in manageable lengths - Utilize proper lifting techniques / Size up load before lifting - 2 man rule when lifting heavy items more than 50 lbs – be aware of body positioning – close access to debris receptacles



New Hire Safety Orientation

- Safety Culture
- Accident Prevention Program
- Job Specific Safety Plan
- Daily Planner
- Activity Hazard Analysis
- Unique project considerations



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Weekly Safety Meetings




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Safety Checklist

- Any hazards identified?
- Were the hazards resolved?
- Jobsite trending
- Highlight positive practices



SAFETY INSPECTION CHECKLIST

PROJECT: _____ DATE OF INSPECTION: _____

NAME(S) OF THOSE PARTICIPATING IN THIS INSPECTION: _____

INDICATE EITHER: A = ACCEPTABLE/YES; U = UNACCEPTABLE/NO; N/A = NOT APPLICABLE
 *IF MARKED U/NO, LIST THE APPROPRIATE CORRECTIVE ACTION ON THE REVERSE SIDE

PERSONAL PROTECTIVE EQUIPMENT		TOOLS	
Safety glasses and/or goggles available & being used?		Portable circular saws equipped with protective guards?	
High visibility vests/class II vests where required?		Circular saw guards checked frequently to ensure they are operating properly and not fouled with debris?	
Face shield available for bulk liquid tasks? Grinding?		Pneumatic power tools have hoses secured?	
Hand protection used/worn as required?		Hand grinders have guards in place?	
Foot protection worn as required?		Table saws are properly guarded?	
Hearing protection worn where required?		Electric power tools are double insulated or grounded?	
Hard hats worn as required?		Compressed gas cylinders not in use have caps in place?	
		Compressed gas cylinders stored secured & upright?	
ELECTRICAL		FIRE	
Energized breaker panels have covers & breakers are labeled?		Flammable liquids are in metal safety cans?	
Cords are protected from damage such as vehicles?		Burn permits are completed and at the location of hot work operations?	
Electrical panel knockouts are in place?		Fire extinguisher readily available, accessible & inspected?	
Lockout tagout procedures are being followed?		Fire extinguishers inspected monthly/annually as needed?	
Light bulbs for illumination protected from breakage and have bulbs provided?		Flammable liquids storage containers labeled properly?	
		Combustible material and waste is removed from the building on a regular basis?	
CRANES/FORKLIFT		GENERAL SAFETY ISSUES	
Forklift and forklift attachment used properly		Required posting are posted on bulletin board?	
Mobile crane setup properly?		Subcontractor safety plans and MSDS are on site?	
Overhead hazards / power lines identified?		General housekeeping is neat and orderly?	
Tag lines are used during hoisting?		Exits and pathways are free from material and debris?	
Rigging is inspected for ware and damage?		Exit and route are clearly marked?	
Forklift and Crane inspections completed?		Public hazards evaluated?	
Forklift, Crane, Rigger, Signalperson training current?			

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- Hazards identified
- Corrective action
- Was the hazard addressed?
- How can we prevent these hazards in the future?

WEEKLY HAZARD OBSERVATION LOG

JOBSITE:

WEEK OF:

DATE/ TIME/ LOCATION	DESCRIPTION	CORRECTIVE ACTION
MONDAY		
TUESDAY		
WEDNESDAY		
THURSDAY		
FRIDAY		
DATE	SITE LIGHTING NOTES	HOUSEKEEPING NOTES


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Safety Daily Planner

- Responsible Party
- Tasks required for installation
- Task specific hazards
- Addressing hazards
- PPE Required
- Tools/Materials/Equipment



DAILY PLANNER

NAME: _____ OPERATION _____ DATE _____

TASKS:

1. _____	2. _____
3. _____	4. _____

HAZARDS:

<input type="checkbox"/> Falls Over 6'	<input type="checkbox"/> Pinch Points	<input type="checkbox"/> Eye Exposure
<input type="checkbox"/> Overhead Work	<input type="checkbox"/> Ladders	<input type="checkbox"/> Electrical cords
<input type="checkbox"/> Open Flame	<input type="checkbox"/> Confined Space	inspected and routed
<input type="checkbox"/> Heavy Lifting	<input type="checkbox"/> Excavation Over 4'	appropriately
<input type="checkbox"/> Loud Noises	<input type="checkbox"/> Concrete Exposure	
<input type="checkbox"/> Moving Machinery		

OTHER: _____

PRECAUTIONS:

1. _____	2. _____
3. _____	4. _____
5. _____	6. _____

PPE REQUIRED:

<input type="checkbox"/> Fall Protection	<input type="checkbox"/> Hearing
<input type="checkbox"/> Eye/Face	<input type="checkbox"/> Gloves
<input type="checkbox"/> Respirator	<input type="checkbox"/> _____

TOOLS/MATERIAL/EQUIPMENT NEEDED:

1. _____	2. _____
3. _____	4. _____
5. _____	6. _____

NOTES: _____

SIGNATURES

1. _____	2. _____
3. _____	4. _____
5. _____	6. _____
7. _____	8. _____

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Safety Award Program

- Recognizing safety leadership
- Highlighting innovative strategies for achieving safety

SAFETY AWARD PROGRAM

Sellen values the safety and health of all its employees. To reward employees who continuously demonstrate safe work habits, Sellen has developed a safety award program. Participants will be awarded based on work hours.

TEAM SAFETY LEADERSHIP AWARDS - recognizing the project team or teams who demonstrate commitment and achieve outstanding results in six specific categories.

Eligible Recipients: Foremen, Assistant Superintendents, Superintendents, Project Managers, Project Engineers, and Site Administrators (must have worked on the project a minimum of 300 hours)
Criteria: Outstanding performance in: safety planning; subcontractor safety controls; safety inspection processes; accident reporting; communications & attitude; and accident statistics
Timing: Calendar year
Award: \$750 for the project Superintendent; \$250 for other team members; and a limited edition Sellen Safety Leader T-shirt for everyone

INDIVIDUAL SAFETY PERFORMANCE AWARDS - recognizing our trades people for working 1800 hours in a calendar year without an injury or safety violation

Eligible Recipients: Trades people and Foremen with a crew of one or less
Criteria: No injuries or safety violations
Timing: 1800 hours in a calendar year
Award: \$200 and a limited edition Sellen Safety T-shirt

FOREMAN SAFETY MANAGEMENT AWARDS - recognizing our foremen for managing a crew for a calendar year without an injury or safety violation

Eligible Recipients: Foremen with crews of 2 or more
Criteria: No crew injuries or safety violations
Timing: Calendar year
Award: \$500 and a limited edition Sellen Safety jacket



Integrating Sustainability

- Learning from the safety culture's experience
- Developing tools that support safety and sustainability
- Integrating sustainability into safety procedures
- Thinking proactively about new systems and practices
- Creating a safe and sustainable culture



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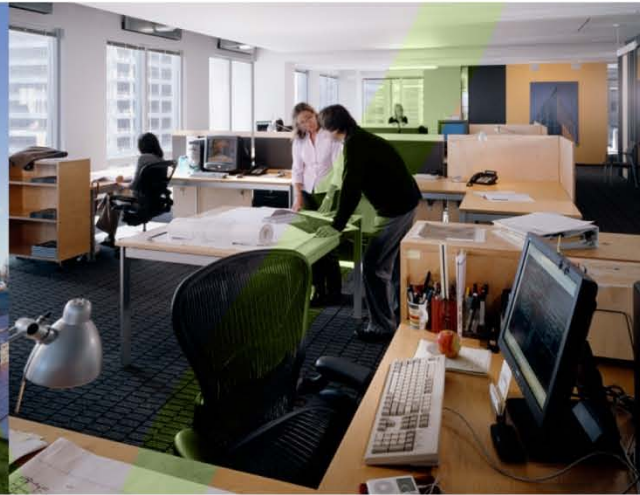
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QUESTIONS?



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TRAINING

CONSULTING