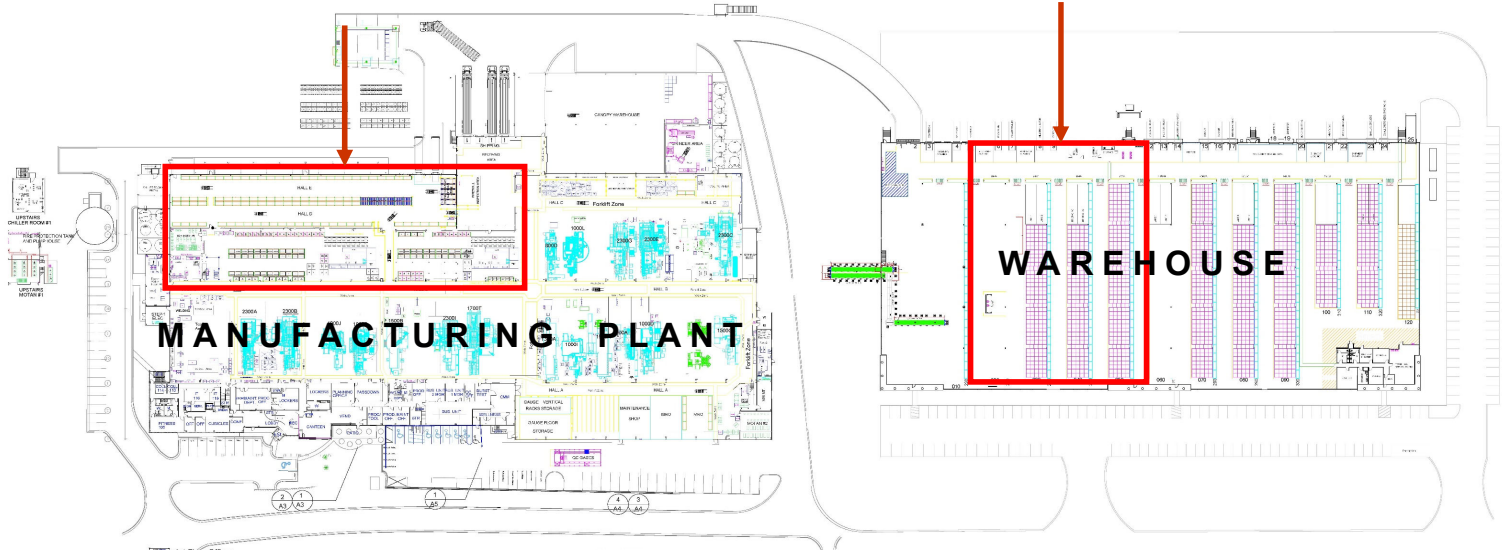


**PROPOSED NEW LOCATION OF COMPONENTS SUPER MARKET**

**CURRENT LOCATION OF COMPONENTS SUPER MARKET**



**LEGEND/LAYERS**

- - LAYER ON
  - - LAYER OFF
  - - MACHINES
  - - SECONDARY
  - - OFFLINE
  - - EQUIP
  - - TOTES
  - - LANES
  - - TOOLING
  - - MOTAR
  - - CRANES
  - - HVAC-ROOF
  - - BUILDING
  - - OFFICE
  - - KAIZEN
  - - EVACUATION ROUTE
  - - FIRE EXTINGUISHER
  - - FIRE ALARM
- |                              |  |
|------------------------------|--|
| Plant Sq/Ft                  | -135,288 (To Convert Square Inches To Square Feet Multiple Square Inches by 0.0069444) |
| Warehouse (RLC) Sq/Ft        | -125,495   |
| Canopy/Grinder Sq/Ft         | -15,593  |
| Office Space (1st Flr) Sq/Ft | -15,987  |
| Office Space (2nd Flr) Sq/Ft | -15,035  |
| Office Space (3rd Flr) Sq/Ft | -4,203   |
| Plant (2nd Flr) Office Sq/Ft | -1,388   |
| Total Sq/Ft                  | -187,494 (No Including Warehouse (RLC))  |
| Total Acreage                | -11.71   |

I would like to consider one of my strengths is project management. What is a project? According the Project Management Institute it is defined as: "A project is a set of tasks that must be completed within a defined timeline to accomplish a specific set of goals. These tasks are completed by a group of people known as the project team, which is led by a project manager, who oversees the planning, scheduling tracking and successful completion of projects".

For me a successful project is well thought out in terms of planning and scheduling and staying 'focused' 'focused', 'focused'. Some project are scaled in terms of size and capital monetary investment involved This project I would consider small in terms of money, materials, labor and time to bring it to fruition from the building blocks of any project of Concept, Planning, Scheduling, Realization and Evaluation phases Cost, Budgets, Timing, Labor, Milestones, Reviews and there is the alphabet soap of acronyms of sometimes a SWOT analysis is conducted, project goals need to be SMART and members of the project core team have to fall within RACI with their involvement.

This is a drawing that I made of a plant of a company that I was working for at the time and I was the Project Manager/Leader for a \$250,000 direct components supermarket design and installation. I designed all the drawings for the selective pallet racks and drive-in storage racks and made all the specifications and calculations for the entire loading capacity for all minimum, maximum containers and re-order point for the project. The project location is in the red rectangle in the drawing.

# Project Management Institute

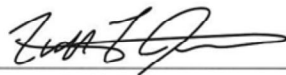
THIS IS TO CERTIFY THAT

## Fredrick Webberking

HAS BEEN FORMALLY EVALUATED FOR DEMONSTRATED KNOWLEDGE, SKILL AND THE UNDERSTANDING OF THE PROCESSES AND TERMINOLOGY AS DEFINED IN THE *PMBOK*® GUIDE THAT ARE NEEDED FOR EFFECTIVE PROJECT MANAGEMENT AND IS HEREBY BESTOWED THE GLOBAL CREDENTIAL

### Certified Associate in Project Management (CAPM)®

IN TESTIMONY WHEREOF, WE HAVE SUBSCRIBED OUR SIGNATURES UNDER THE SEAL OF THE INSTITUTE



Trell L. Jones  
Chair, Board of Directors



Jevishnu Marimuthu  
President and Chief Executive Officer



**CAPM® Number:** 2437639.5  
**CAPM® Original Grant Date:** 9 September 2020  
**CAPM® Expiration Date:** 8 September 2025



I am not designing a and putting together a multi-million or multi-billion dollar project, I'm not building a skyscraper or road tunnel or a suspension bridge and really don't want that level of stress, so I only am a Certified Associate in Project Management (ACPM)® from The Project Management Institute.

The main purpose, reason and gist of moving these components from the warehouse to plant supermarket was to seriously reduce the transportation waste that the fork lift truck operators had to cover every shift of every day driving down to the warehouse and bring components back up to the plant and put them line-side. There was also a lot of searching waste and waiting time lost to stockouts because the top consuming components had to wait for a fork lift truck material handler to become available to retrieve and re-supply the production lines and the warehouse is detached from the plant.

I have not held the job title of Project Manager, but I have been involved in and I have been responsible for my part involvement with many multiple million-dollar capital installment projects in the Automotive Food and Non-wovens industries. My involvement has typically been with physical asset life cycle costs in Design Qualification, Installation Qualification, Operation Qualification and Performance Qualification verification and validation protocols. I have been involved in and in some cases been the leader for equipment, machine and process PFMEA and FMEA. I have planned documented procedures in project management using various project management tools such as network scheduling, ganatt charts, work breakdown structure, project evaluation review technique and critical path method. As a member of a project team, I rely on my core engineering sciences, drafting and electrical mechanical aptitude.

Project Viewer 365 - Components Relocation Storage Racks Installation.mpp

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WBS	Task Mode	Task Name	Duration	Start	Finish
1		Initialization Phase	125 days	Thu 6/1/23 8:00	Wed 11/22/23
2		Start (Initiation Phase)	0 days	Thu 6/1/23 8:00	Thu 6/1/23 8:00
3		Define Project Vision, Project Reason, Business Case, Project Scope, Deliverables, Objectives, Team Development, Stakeholder Engagement, Conceive Project life cycle, Quality Assurance, Communications, Client Management, Resources Needed, Milestone Plan,	10 days	Thu 6/1/23 8:00	Wed 6/14/23
4		Strategize material components flow from RLC to plant	5 days	Thu 6/15/23 8:00	Wed 6/21/23
5		Design in AutoCAD concept drawings to reflect future state of components storage	5 days	Thu 6/22/23 8:00	Wed 6/28/23
6		Survey requirements Develop materials and resources required and develop a materials list as a request for quote	3 days	Thu 6/29/23 8:00	Mon 7/3/23 5:00
7		Submit request for quote to three vendors (Industrial Handling Solutions, ESS Industrial, Griffin Services LLC)	1 day	Tue 7/4/23 8:00	Tue 7/4/23 5:00
8		Contractors makes up and submits quotes - Lead Time	12 days	Wed 7/5/23 8:00	Thu 7/20/23 5:00
9		Receive quotes and remit quotes for internal cost evaluation to stake holders, sponsors and financial control for approval	0 days	Thu 7/20/23 5:00	Thu 7/20/23 5:00
10		Cost of project rejected. Need to bring cost below \$200,000.00 re-evaluate tasks 1 - 10 and re-submit amended request for quotes to contractors for them to re-quote - Lead Time	30 days	Thu 7/27/23 8:00	Wed 9/6/23 5:00
11		Receive quotes and remit quotes for internal cost evaluation to stake holders, sponsors and financial control for approval	5 days	Thu 9/7/23 8:00	Wed 9/13/23
12		Enter BANF	1 day	Thu 9/14/23 8:00	Thu 9/14/23 8:00
13		BANF approval - Lead Time	5 days	Fri 9/15/23 8:00	Thu 9/21/23 5:00
14		Send purchase order to contractor - Lead Time	1 day	Fri 9/22/23 8:00	Fri 9/22/23 5:00
15		Contractor receives purchase order	1 day	Mon 9/25/23 8:00	Mon 9/25/23 8:00
16		Contractor submits invoice for 40% advancement down payment	5 days	Tue 9/26/23 8:00	Mon 10/2/23
17		Enter goods received receipt	1 day	Tue 10/3/23 8:00	Tue 10/3/23 5:00
18		Accounts payable remits advance down payment to contractor - Lead Time	5 days	Wed 10/4/23 8:00	Tue 10/10/23
19		Contractor receives advancement down payment and orders materials - Lead Time	30 days	Wed 10/11/23 8:00	Tue 11/21/23
20		Contact John Ford and let him know that the address to ship the materials to will be 245 Parkway East and not 265 Parkway East	1 day	Wed 11/22/23 8:00	Wed 11/22/23 8:00
21		Finish (Initiation Phase)	0 days	Wed 11/22/23 8:00	Wed 11/22/23 8:00
22		Planning Phase	60 days	Thu 11/23/23 8:00	Mon 2/19/24
23		Start (Planning Phase)	0 days	Thu 11/23/23 8:00	Thu 11/23/23 8:00
24		Find a place space to receive the new pallet racks uprights, beams, wire decks, spacers and cordon that area off with and install a new concrete curb area to separate off and seal result to the address off	1 day	Thu 11/23/23 8:00	Thu 11/23/23 8:00

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My choice for a scheduling software package is Microsoft Project as my scheduling software to management my projects and I have used MS Project since 2000.

Project management is to coordinate and manage a project goals, costs, time, resources, due dates, milestones and activities in an efficient and successful oriented way.

Each project has essentially 4 project phases:-

- Start phase
- Planning phase
- Realization phase
- Evaluation phase



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22		Planning Phase	60 days	Thu 11/23/23 8:00	Mon 2/19/24
23		Start (Planning Phase)	0 days	Thu 11/23/23 8:00	Thu 11/23/23 5:00
24		Find a place space to receive the new pallet racks uprights, beams, wire decks, spacers and cordon that area off with and install a new concrete curb on the perimeter of the area and seal the curb with a sealant.	1 day	Thu 11/23/23 8:00	Thu 11/23/23 5:00

## Start Phase:

Project goals need to be S-M-A-R-T

- Specific
- Measurable
- Ambitious
- Realistic
- Timely structured

For some projects it makes sense to think about the critical success factors of the project. Therefore, a SWOT- analysis can be used. The project leader list down all the Strengths Weaknesses, Opportunities and Threats of the project. Each opportunity and threat can be classified by its impact on the project (small, medium or high) and its likeliness (uncertain, possible or certain). Concentrate on factors which are certain and have a high impact on the project and define necessary actions if they have can have a negative impact on the project.



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21		Finish (Initiation Phase)	0 days	Wed 11/22/23	Wed 11/22/23
22		Planning Phase	60 days	Thu 11/23/23 8:00	Mon 2/19/24
23		Start (Planning Phase)	0 days	Thu 11/23/23 8:00	Thu 11/23/23 8:00
24		Find a place space to receive the new pallet racks uprights, beams, wire decks, spacers and cordon that area off with and install a new partition wall to separate off and seal off the area off	1 day	Thu 11/23/23 8:00	Thu 11/23/23 8:00

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## Planning Phase:

The size and complexity of the project determines if the project leader can handle all activities by himself or if he needs to include the support from other project team members. Each project team member needs to be informed about the goals and time frame of the project and about his/her role. Clarification of tasks and providing information is necessary to motivate the team. The project leader's responsibility is to create the project plan. MS Project is a good software program for managing projects. Each main activity needs a clear description with responsibility, start-end date and if required necessary resources. The project plan can be organized chronologically or by sub-projects.

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1		Initialization Phase	125 days	Thu 6/1/23 8:00	Wed 11/22/23
2		Start (Initiation Phase)	0 days	Thu 6/1/23 8:00	Thu 6/1/23 8:00
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24		Find a place space to receive the new pallet racks uprights, beams, wire decks, spacers and cordon that area off with and install a new concrete curb area to separate off and seal result to the address off	1 day	Thu 11/23/23 8:00	Thu 11/23/23 5:00

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## Realization Phase:

The project leader's responsibility is to oversee the status of the project and to check critical deviations between what was planned and what has been achieved. Therefore, he schedules project meetings and reviews the project plan with the team. If necessary, new activities need to be scheduled and/or additional resources added to meet the plan. Meeting notes help to track decisions made by the team. A-priorities must be addressed by using the software. The project leader creates reports and informs his/her team and his/her management about the project status. This includes:

- Reporting period
- Planned activities (milestones)
- Accomplished activities
- Next steps and changes to the plan
- Impact of critical success factors
- Explanations for milestones and budget deviations

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Calendar	WBS	Task Mode	Task Name	Duration	Start	Finish
1	1		Initialization Phase	125 days	Thu 6/1/23 8:00	Wed 11/22/23
2	1.1		Start (Initiation Phase)	0 days	Thu 6/1/23 8:00	Thu 6/1/23 8:00
3	1.2		Define Project Vision, Project Reason, Business Case, Project Scope, Deliverables, Objectives, Team Development, Stakeholder Engagement, Conceive Project life cycle, Quality Assurance, Communications, Client Management, Resources Needed, Milestone Plan,	10 days	Thu 6/1/23 8:00	Wed 6/14/23
4	1.3		Strategize material components flow from RLC to plant	5 days	Thu 6/15/23 8:00	Wed 6/21/23
5	1.4		Design in AutoCAD concept drawings to reflect future state of components storage	5 days	Thu 6/22/23 8:00	Wed 6/28/23
6	1.5		Survey requirements Develop materials and resources required and develop a materials list as a request for quote	3 days	Thu 6/29/23 8:00	Mon 7/3/23 5:00
7	1.6		Submit request for quote to three vendors (Industrial Handling Solutions, ESS Industrial, Griffin Services LLC)	1 day	Tue 7/4/23 8:00	Tue 7/4/23 5:00
8	1.7		Contractors makes up and submits quotes - Lead Time	12 days	Wed 7/5/23 8:00	Thu 7/20/23 5:00
9	1.8		Receive quotes and remit quotes for internal cost evaluation to stake holders, sponsors and financial control for approval	0 days	Thu 7/20/23 5:00	Thu 7/20/23 5:00
10	1.9		Cost of project rejected. Need to bring cost below \$200,000.00 re-evaluate tasks 1 - 10 and re-submit amended request for quotes to contractors for them to re-quote - Lead Time	30 days	Thu 7/27/23 8:00	Wed 9/6/23 5:00
11	1.10		Receive quotes and remit quotes for internal cost evaluation to stake holders, sponsors and financial control for approval	5 days	Thu 9/7/23 8:00	Wed 9/13/23
12	1.11		Enter BANF	1 day	Thu 9/14/23 8:00	Thu 9/14/23
13	1.12		BANF approval - Lead Time	5 days	Fri 9/15/23 8:00	Thu 9/21/23
14	1.13		Send purchase order to contractor - Lead Time	1 day	Fri 9/22/23 8:00	Fri 9/22/23 5:00
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21	1.20		Finish (Initiation Phase)	0 days	Wed 11/22/23	Wed 11/22/23
22	2		Planning Phase	60 days	Thu 11/23/23 8:00	Mon 2/19/24
23	2.1		Start (Planning Phase)	0 days	Thu 11/23/23 8:00	Thu 11/23/23 8:00
24	2.2		Find a place space to receive the new pallet racks uprights, beams, wire decks, spacers and cordon that area off with and install a new concrete curb area to separate off and seal result to the address off	1 day	Thu 11/23/23 8:00	Thu 11/23/23 8:00

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## Evaluation Phase:

Experiences made during each project should be used for further projects. After completion of a project a summary must be completed and should include:

- Fulfillment of origin goals
- Achievement of milestones
- Evaluation of final cost
- Impact of critical success factors
- Evaluation of used time and resources
- Overall estimation of project
- Improvement possibilities for future projects

The project leader is responsible for creating a closing report for his/her team and his/her management.



Mat 7 digit Description	SOP	EOP	Customer	Vendor name	Count	Material	Material Description	Material Type	Material group Description	Commodity Group	Plant-dep. mat.	Unit of meas
Water Separation Box w/ climate VS-30	01.08.2018	30.11.2030	Mercedes-Benz	A. Raymond GmbH & Co. KG	DE	109113700	Metal clip Incapsulation SP	KAUF	Fastening mat. metal	FUNCCOMP	Active part	PCE
Clean Air B48	01.04.2023	31.12.2027	BMW	Advantage Forms & Supplies	US	115711200	ETICHETTA 18X18 MM	KAUF	Labels	FUNCCOMP	Active part	PCE
Resonator B48 -- G05/G06/G07/G09	01.04.2023	31.12.2027	BMW	Advantage Forms & Supplies	US	115711200	ETICHETTA 18X18 MM	KAUF	Labels	FUNCCOMP	Active part	PCE
Raw Air Intake B58	01.08.2022	28.02.2029	BMW	Advantage Forms & Supplies	US	115711200	ETICHETTA 18X18 MM	KAUF	Labels	FUNCCOMP	Active part	PCE
Clean Air B58	01.08.2022	28.02.2029	BMW	Advantage Forms & Supplies	US	115711200	ETICHETTA 18X18 MM	KAUF	Labels	FUNCCOMP	Active part	PCE
Resonator Air B58	01.08.2022	28.02.2029	BMW	Advantage Forms & Supplies	US	115711200	ETICHETTA 18X18 MM	KAUF	Labels	FUNCCOMP	Active part	PCE
Active Grill Shutter P33A MY24 -- Nissan	01.01.2024	31.12.2028	Nissan	Advantage Forms & Supplies	US	115585700	Label 2" X 1" L21B Nissan	KAUF	Labels	FUNCCOMP	Active part	PCE
Resonator Large B47 (PP) G01/G02	01.08.2017	30.11.2025	BMW	Advantage Forms & Supplies	US	113888100	Label 2"x0.5"	KAUF	Labels	FUNCCOMP	Active part	PCE
Resonator (B57) G01/G02	01.08.2017	30.11.2025	BMW	Advantage Forms & Supplies	US	113888100	Label 2"x0.5"	KAUF	Labels	FUNCCOMP	Active part	PCE
Water Separation Box w/ climate VS-30	01.08.2018	30.11.2030	Mercedes-Benz	Advantage Forms & Supplies	US	113888100	Label 2"x0.5"	KAUF	Labels	FUNCCOMP	Active part	PCE
Air Intake B47 Upper/Lower G01/G05	01.02.2019	30.06.2025	BMW	Advantage Forms & Supplies	US	113888100	Label 2"x0.5"	KAUF	Labels	FUNCCOMP	Active part	PCE
MCA Active Grill Shutter THR HONDA	01.06.2020	31.12.2027	Honda	Advantage Forms & Supplies	US	113888100	Label 2"x0.5"	KAUF	Labels	FUNCCOMP	Active part	PCE
MCA Stationary Grill Assembly THR HONDA	01.06.2020	30.11.2024	Honda	Advantage Forms & Supplies	US	113888100	Label 2"x0.5"	KAUF	Labels	FUNCCOMP	Active part	PCE
Housing Only THR HONDA	01.06.2020	30.11.2024	Honda	Advantage Forms & Supplies	US	113888100	Label 2"x0.5"	KAUF	Labels	FUNCCOMP	Active part	PCE
Small Resonator B57TÜ2 BMW	01.08.2020	30.06.2025	BMW	Advantage Forms & Supplies	US	113888100	Label 2"x0.5"	KAUF	Labels	FUNCCOMP	Active part	PCE
AGS TYA MDX Honda	01.03.2021	31.10.2026	Honda	Advantage Forms & Supplies	US	113888100	Label 2"x0.5"	KAUF	Labels	FUNCCOMP	Active part	PCE
AGS Honda Pilot	01.11.2022	31.12.2028	Honda	Advantage Forms & Supplies	US	113888100	Label 2"x0.5"	KAUF	Labels	FUNCCOMP	Active part	PCE
SCR Tank BR167 Daimler	01.04.2018	31.12.2023	Mercedes-Benz	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
Assy Air Intake (B48) -- G01/G02	01.08.2017	29.02.2028	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
Assy Air Intake (B47) -- G01/G02	01.08.2017	30.11.2025	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
Renator Large B48 (PP) G01/G02	01.08.2017	30.11.2025	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
SCR Tank Gen 3 G05/G06	01.08.2018	31.03.2028	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
SCR Tank Gen 3 G07	01.12.2018	31.07.2027	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
Upper Filler Tube G05/G06	01.08.2018	31.03.2028	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
Upper Filler Tube G07	01.12.2018	31.07.2027	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
Wheelhouse Liner Fr/Fr LH -- G07	01.12.2018	31.07.2027	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
Wheelhouse Liner Fr/Fr RH -- G07	01.12.2018	31.07.2027	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
Wheelhouse Liner Fr/Fr LH -- G07	01.12.2018	31.07.2027	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
Wheelhouse Liner Fr/Fr RH -- G07	01.12.2018	31.07.2027	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
Wheelhouse Liner Fr/Fr LH -- G08	01.08.2019	31.03.2028	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
Wheelhouse Liner Fr/Fr RH -- G08	01.08.2019	31.03.2028	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
Wheelhouse Liner Fr/Fr LH -- G05	01.08.2018	31.07.2028	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
Wheelhouse Liner Fr/Fr RH -- G05	01.08.2018	31.07.2028	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
LH WHL Front/Rear G05	01.08.2018	31.07.2028	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
RH WHL Front/Rear G05	01.08.2018	31.07.2028	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
SCR Tank Gen 4+ VS30 Daimler	01.01.2022	31.12.2035	Mercedes-Benz	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
SCR Tank Gen 4 G05/G06	01.08.2020	31.03.2028	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
SCR Tank Gen 4 G07	01.08.2020	31.07.2027	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
SCR Tank GEN4+ BR167 Daimler	01.01.2022	31.12.2029	Mercedes-Benz	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
G05 AKMK LCI RH	01.04.2023	31.07.2026	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
G06 AMOEK LCI MPA RH	01.04.2023	31.03.2028	BMW	Advantage Forms & Supplies	US	114482500	Label 25mm x 30mm BMW	KAUF	Labels	FUNCCOMP	Active part	PCE
Active Grille Shutter 1.6L SP C520	01.06.2012	31.12.2999	Ford	Advantage Forms & Supplies	US	108714900	Label 75X20mm	KAUF	Labels	FUNCCOMP	Active part	EA
Wheel House Liner Front LH Volvo	01.09.2018	31.10.2027	Volvo	Advantage Forms & Supplies	US	108714900	Label 75X20mm	KAUF	Labels	FUNCCOMP	Active part	EA
Wheel House Liner Front RH Volvo	01.09.2018	31.10.2027	Volvo	Advantage Forms & Supplies	US	108714900	Label 75X20mm	KAUF	Labels	FUNCCOMP	Active part	EA
AGS H61P Frontier Nissan	01.12.2022	31.07.2027	Nissan	Advantage Forms & Supplies	US	108714900	Label 75X20mm	KAUF	Labels	FUNCCOMP	Active part	EA
Clean Air B48	01.04.2023	31.12.2027	BMW	ANHUI NINGGUO XINKAI RUBBER	CN	116555800	Sealing of QC	KAUF	Rubber parts. all ru	FUNCCOMP	Active part	PCE
AGS H61P Frontier Nissan	01.12.2022	31.07.2027	Nissan	Anziplast Tavernier NV	BE	112843002	Actuator fixing Bracket SP	KAUF	Inj. Molded Parts	FUNCCOMP	spare part	PCE
Air Duct with Flap Assembly Daimler	01.04.2018	31.12.2025	Mercedes-Benz	Atlas Precision, Inc	US	113654901	Air Duct with Flap Assembly	KAUF	Inj. Molded Parts	FUNCCOMP	Active part	PCE
Active Grill Shutter Non-ACC SP C520 MCA	01.02.2018	31.12.2999	Ford	Atlas Precision, Inc	US	112493701	Drive Vane Assist C520 MCA	KAUF	Inj. Molded Parts	FUNCCOMP	spare part	PCE
Expansion Tank PA00 F15/F10	01.09.2015	31.12.9999	BMW	Atlas Precision, Inc	US	107338401	Float w. Magnet for Washer System E70	KAUF	Inj. Molded Parts	FUNCCOMP	Active part	EA
Air Bellows Upper 3 BR167	01.10.2018	31.12.2029	Mercedes-Benz	Atlas Precision, Inc	US	113443500	Frame for the Bellow Assembly	KAUF	Inj. Molded Parts	FUNCCOMP	Active part	PCE
Air Bellow Upper BR167 Daimler	01.06.2021	31.12.2025	Mercedes-Benz	Atlas Precision, Inc	US	113443500	Frame for the Bellow Assembly	KAUF	Inj. Molded Parts	FUNCCOMP	Active part	PCE
Air Bellow Upper 3 BR167 Daimler	01.04.2022	31.12.2025	Mercedes-Benz	Atlas Precision, Inc	US	113443500	Frame for the Bellow Assembly	KAUF	Inj. Molded Parts	FUNCCOMP	Active part	PCE

I first began by conducting a components inventory of all the components in their current location in the warehouse to where they were currently stored making an A, B, C analysis. Then calculating all the minimum and maximum reorder points of all two-hundred-fifty (250) line items of components. I also calculated the EOQ (economic order quantity) for the min, max, reorder points and reorder quantities for each product component family.

















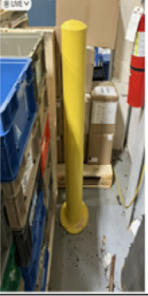
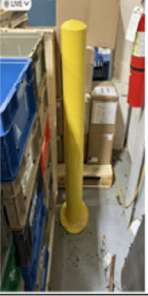
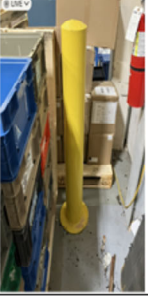
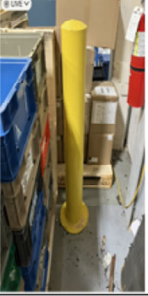
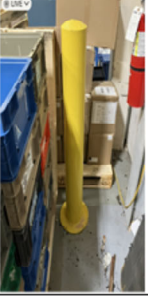
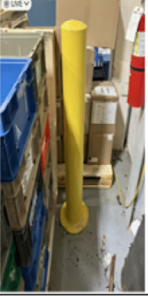
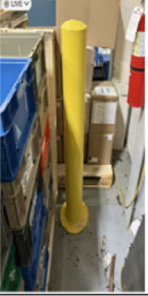
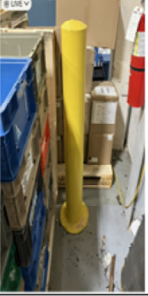
The next – my favorite part – thing was measuring the myriad of every single components' cardboard box tote, container, gaylord, pallet, receptacle, skid its length, width and height that they came in – over a thousand stock keeping units (SKUs) – it was quite the task. This was important to know later how the different heights of the levels of the selective pallet racks would have to be for each product component family.



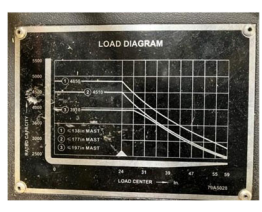



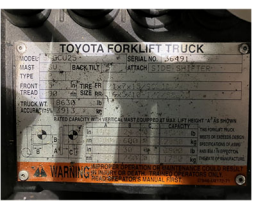


The chosen area that could hold all the selective pallet racks and the drive-in rack system was a mess of a dumping ground for all and anything that operations could use it for doing re-work, inspections to an over-flow for production over-runs. I had to get this place cleaned of there – and that wasn't easy coordinating that let me tell you – because one thing that I have learned whenever I carried out a 5S Sort when you create a space some joker will take it upon themselves to fill it back in with junk...

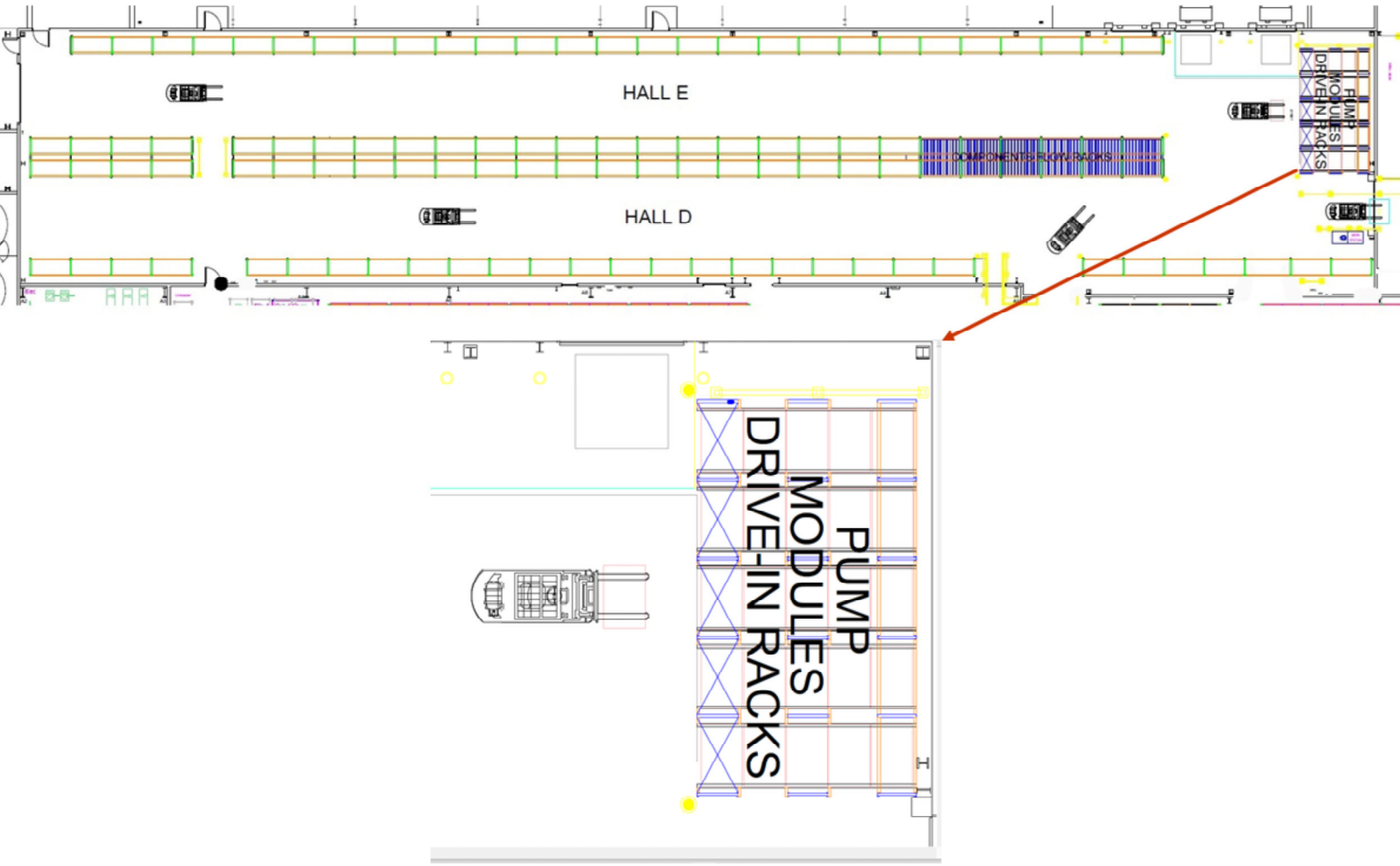


<p><b>SPECIFICATION</b> 100% IN SET LONG 1/4" X 3/8" BEAMS WITH INTERNAL SPRING ACTION. LOCKING PIN OR DROP IN CYCLE CONSOLE</p>  <p>IN TOTAL BEAM INSTALLING 800 STORAGE LOCATIONS WITH 14 LEVELS PER EACH STORAGE LOCATION (EXCEPT 13 LOCATIONS THAT IS 18 BEAMS OUT AT THE FRONT AND ONE AT THE BACK 14 - 8 800 STORAGE LOCATIONS - 800 BEAMS TIME AND LABOR TO INSTALL</p>	<p>12" X 3" UPRIGHTS GIVEN TO BE INSTALLED UNDER THE METAL ROLL UPDOWN IN WALL</p> <p>TIME AND LABOR TO INSTALL</p> 	<p>UPRIGHT SPECIFICATION 100% IN SET LONG 1/4" X 3/8" BEAMS WITH INTERNAL SPRING ACTION. LOCKING PIN OR DROP IN CYCLE CONSOLE</p> 	<p>UPRIGHT SPECIFICATION 100% IN SET LONG 1/4" X 3/8" BEAMS WITH INTERNAL SPRING ACTION. LOCKING PIN OR DROP IN CYCLE CONSOLE</p> 	<p>UPRIGHT SPECIFICATION 100% IN SET LONG 1/4" X 3/8" BEAMS WITH INTERNAL SPRING ACTION. LOCKING PIN OR DROP IN CYCLE CONSOLE</p> 	<p>UPRIGHT SPECIFICATION 100% IN SET LONG 1/4" X 3/8" BEAMS WITH INTERNAL SPRING ACTION. LOCKING PIN OR DROP IN CYCLE CONSOLE</p> 	<p>UPRIGHT SPECIFICATION 100% IN SET LONG 1/4" X 3/8" BEAMS WITH INTERNAL SPRING ACTION. LOCKING PIN OR DROP IN CYCLE CONSOLE</p> 	<p>UPRIGHT SPECIFICATION 100% IN SET LONG 1/4" X 3/8" BEAMS WITH INTERNAL SPRING ACTION. LOCKING PIN OR DROP IN CYCLE CONSOLE</p> 
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<p>TIME AND LABOR TO REMOVE ROLLERS TO MAKE ROOM FOR SELECTIVE PALLET RACKS TO GO IN THEIR PLACE. IT LOOKS LIKE THESE ROLLERS WOULD BE REMOVED IF SO JUST PAINT OUT AND REMOVAL AT BASE</p> 	<p>UPRIGHT SPECIFICATION 100% IN SET LONG 1/4" X 3/8" BEAMS WITH INTERNAL SPRING ACTION. LOCKING PIN OR DROP IN CYCLE CONSOLE</p> 	<p>UPRIGHT SPECIFICATION 100% IN SET LONG 1/4" X 3/8" BEAMS WITH INTERNAL SPRING ACTION. LOCKING PIN OR DROP IN CYCLE CONSOLE</p> 	<p>UPRIGHT SPECIFICATION 100% IN SET LONG 1/4" X 3/8" BEAMS WITH INTERNAL SPRING ACTION. LOCKING PIN OR DROP IN CYCLE CONSOLE</p> 	<p>UPRIGHT SPECIFICATION 100% IN SET LONG 1/4" X 3/8" BEAMS WITH INTERNAL SPRING ACTION. LOCKING PIN OR DROP IN CYCLE CONSOLE</p> 	<p>UPRIGHT SPECIFICATION 100% IN SET LONG 1/4" X 3/8" BEAMS WITH INTERNAL SPRING ACTION. LOCKING PIN OR DROP IN CYCLE CONSOLE</p> 	<p>UPRIGHT SPECIFICATION 100% IN SET LONG 1/4" X 3/8" BEAMS WITH INTERNAL SPRING ACTION. LOCKING PIN OR DROP IN CYCLE CONSOLE</p> 	<p>UPRIGHT SPECIFICATION 100% IN SET LONG 1/4" X 3/8" BEAMS WITH INTERNAL SPRING ACTION. LOCKING PIN OR DROP IN CYCLE CONSOLE</p> 

Once I knew all the components and the various sizes of containers that they came in with the minimum and maximum holding and re-ordering points calculated I had to set about designing the required selective pallet racks and accommodating them into the chosen area making use of as much vertical space as I could with a thirty-foot high bay area. It was now time to solicit request for quotes from three vendors with my attached request for proposal. Making out my list of hardware requirements every nut and bolt.

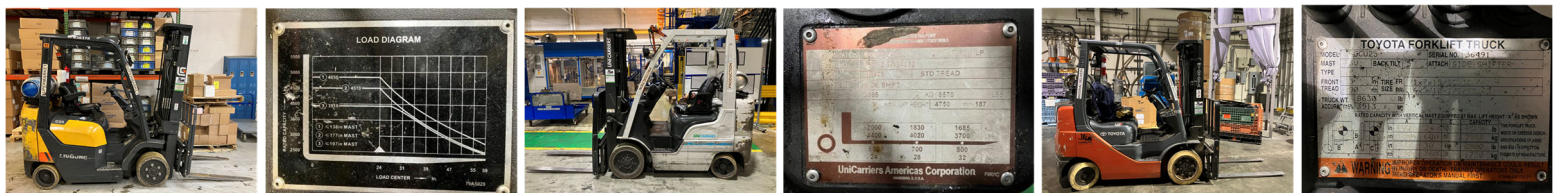
					
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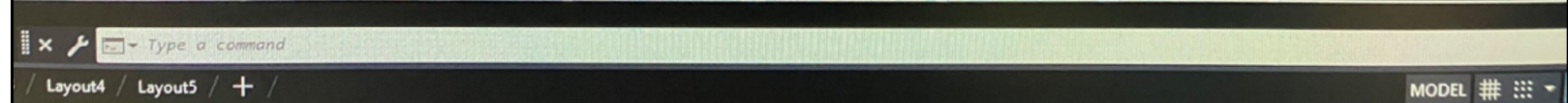
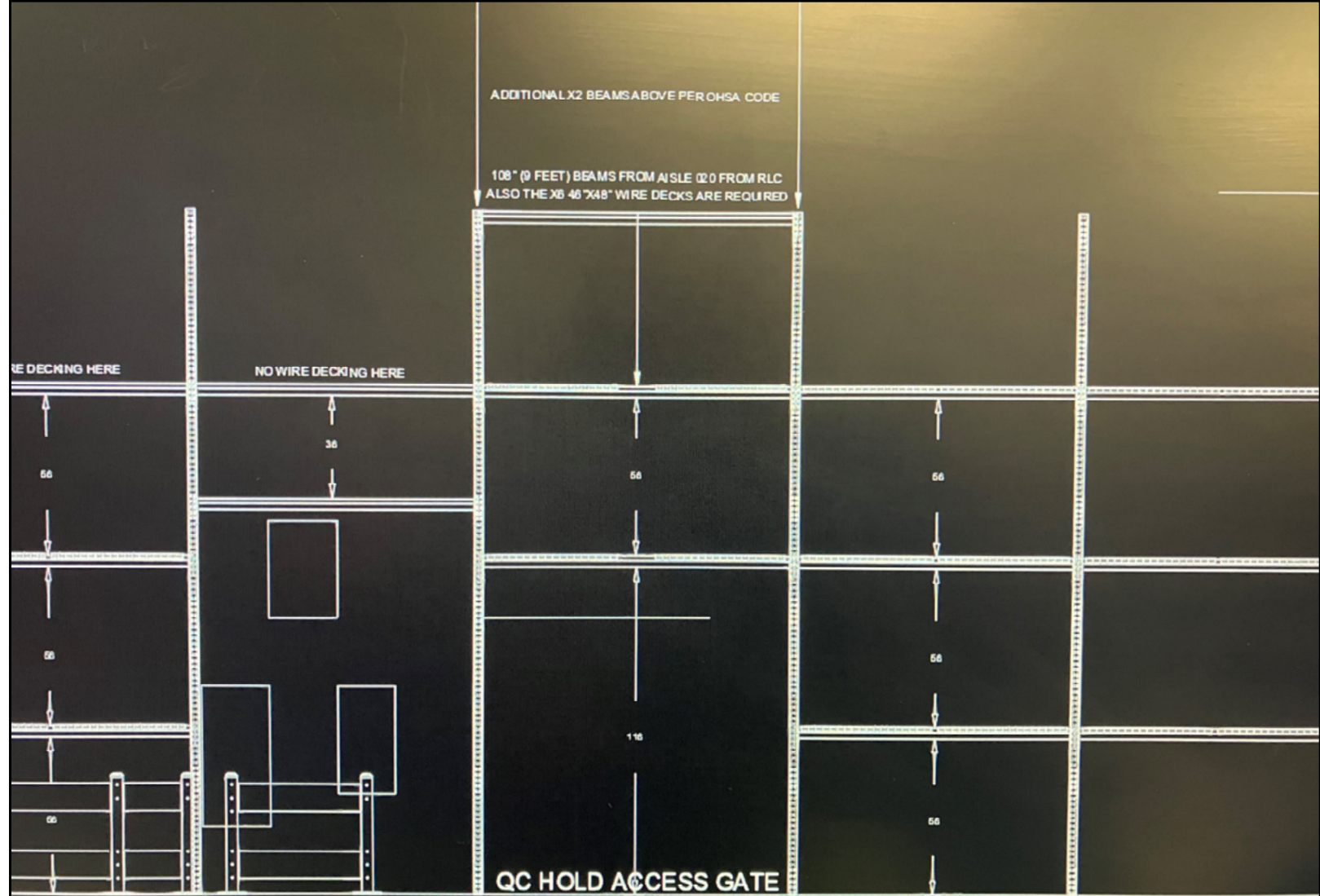




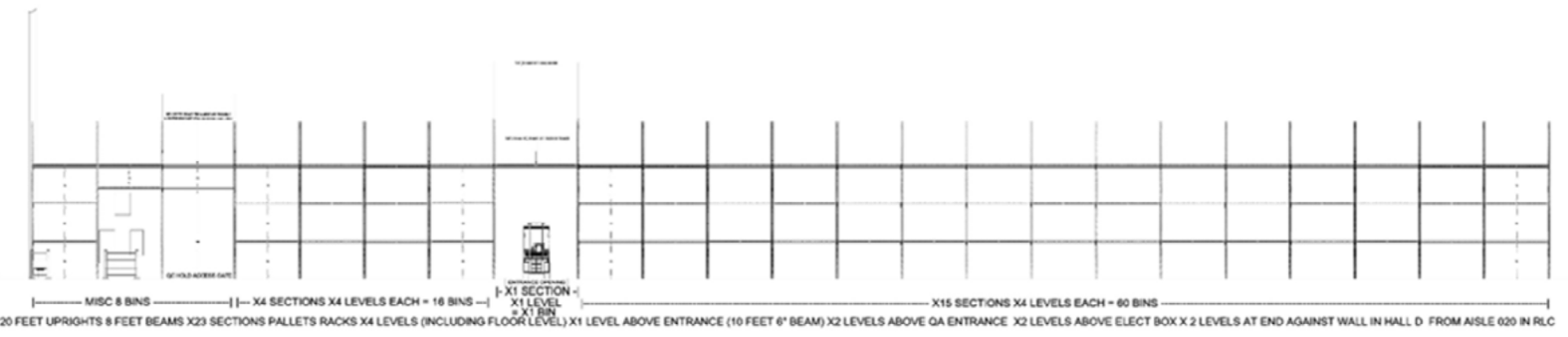
Once I knew all the components and the various sizes of containers that they came in with the minimum and maximum holding and re-ordering points calculated I had to set about designing the required selective pallet racks and accommodating them into the chosen area making use of as much vertical space as I could with a thirty-feet high bay area.

What you see about above is my AutoCAD drawing of the design and sized selective pallet racks that I used which was 48" (four feet) X 240" (twenty-feet) uprights with 96" (eight-feet) beams with wire decking. I also had to bring in a material handling specialist to design for me a drive-in racking system to store these special purpose pump module pallets to hold one-hundred-twenty (120) of these boxes that contained fifteen (15) boxes of pump module with twelve modules in each with each pallet weighing five-hundred-seventy (570) pounds each. Not something I could do myself with weight certification design. This required some legwork on behave getting all the relevant information such as forklift truck information make sure that they would fit into the rack.



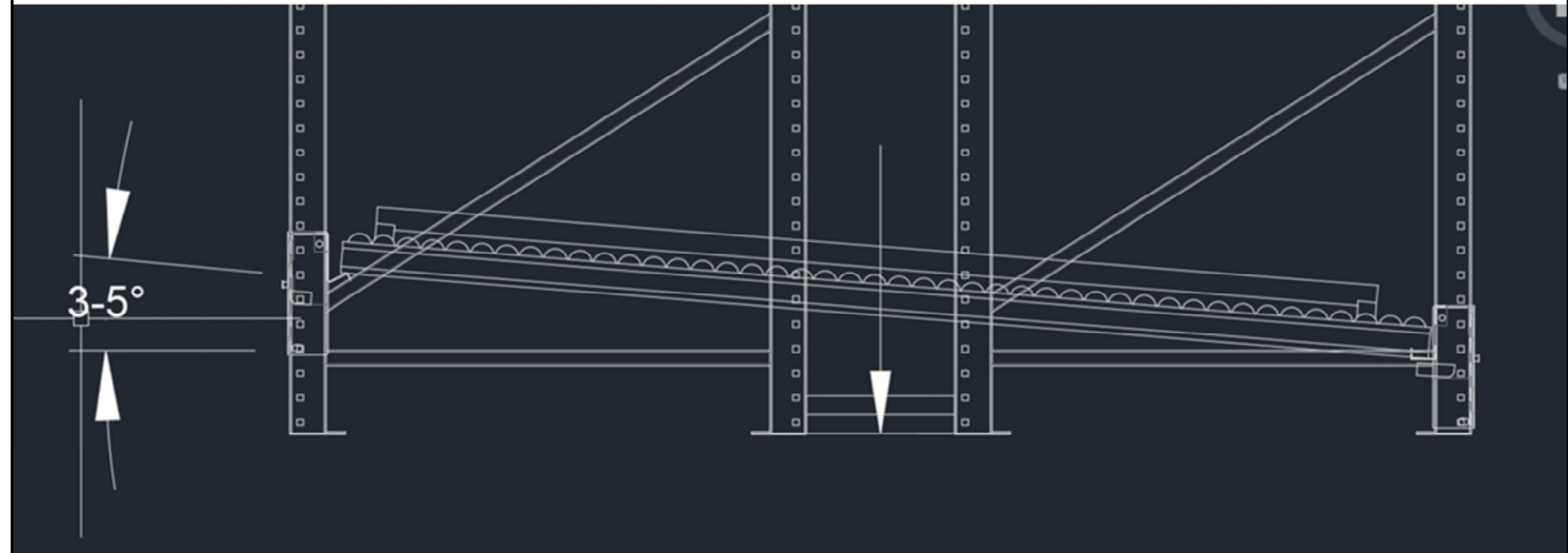


I designed and made not only a plane view of the selective pallet racks but also an elevation drawing as an installation design to instruct the contracting installers exactly where everything should go. (the contracted installation company that did the installation work later told me it was the best guided plan of work and play book that they had ever had).



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For the gravity flow racks I have to decide on what would be the best incline for the boxes and container to flow and this is the illustration to the installers to the degree of incline I needed.



This was the select area for the drive-in rack. I had to have an overhead gas space heater removed in preparation.





Arrival and storage of gravity roller wheel skates rolling racks.





Arrival of temporary staging of the uprights, decking, and protectors and as you can see trying to stop people from dumping stuff in your laydown area is a task in and of itself as you can see with the cardboard boxes and pallets just trashed there.





Staged the drive-in rack system in the area that it's going – CORDONED OFF – KEEP OUT!





Preparation for the installation.





Progressive installation slide 1. The rest of the slides in this presentation show the progression of installation of the racking system.



Progressive installation slide 2.





Progressive installation slide 3.





Progressive installation slide 4.





Progressive installation slide 5.





Progressive installation slide 6.





Progressive installation slide 7.





Progressive installation slide 8. Flow rack installation completion.





Progressive installation slide 9.





Progressive installation slide 10.





Progressive installation slide 11. Foreground is the gravity flow rack.





Progressive installation slide 12. Installation of drive-in racking system.





Progressive installation slide 13. Installation of drive-in racking system completed.





Progressive installation slide 14. Finished installation of the drive-in racking system. Bar coded signs installed.





Progressive installation slide 15. Pedestrian guard rails installation.



Progressive installation slide 16. Pedestrian epoxy floor painting instruction.





Progressive installation slide 17. Installation of drive-in racking system.



Progressive installation slide 18. Designing and making taxonomy convention scheme for the identification of the both the physical and warehouse system management locations using XYZ coordinates.





Progressive installation slide 19. Designing and making taxonomy convention scheme for the identification of the both the physical and warehouse system management locations using XYZ coordinates.

**113443000**

**10 mm X 25 mm Pump Metal Bushing**

**\*113443000\***



Progressive installation slide 20. Making the bar code signs for the gravity flow racks.



**BACKGROUND**  
 THE PURPOSE OF THIS ONE POINT LESSON IS TO DEMONSTRATE THE CORRECT METHODS AND SAFE WORKING INSTRUCTIONS FOR THE LOADING AND UNLOADING OF THE DRIVE-IN STORAGE RACKS IN THE PLANT COMPONENTS SUPERMARKET.

**AFFECTED OPERATION:** PLANT COMPONENTS SUPERMARKET

**THIS ONE POINT LESSON APPLIES TO THE DRIVE-IN STORAGE RACKS IN THE PLANT COMPONENTS SUPERMARKET ONLY!**

**AFFECTED PRODUCTS:** ALL SCR TANKS PUMP MODULE PALLETS – AS SUPPLIED BY VENDOR / ACTUATORS – AS SUPPLIED BY VENDOR

**AFFECTED PERSONNEL:** SUPERMARKET COORDINATOR/WAREHOUSE SPECIALIST/MERCH HANDLERS – ONLY! – NO PROXIES! – NO DEPUTATIONS!

**EXPIRATION RANGE FROM:** 03/11/2024 **TO:** INDEFINITE

**TOOLS REQUIRED:** NONE

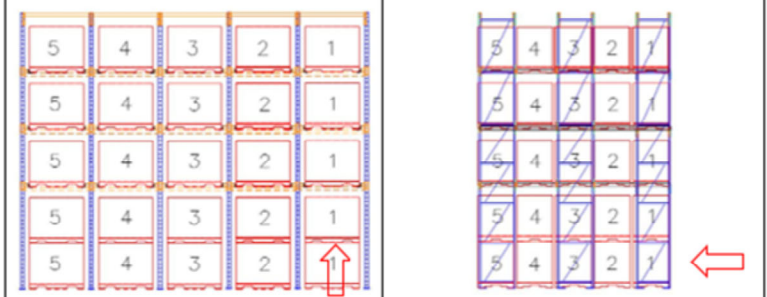
**FAILURE TO FOLLOW THE WORK INSTRUCTIONS OF THIS ONE POINT LESSON CAN RESULT IN SERIOUS INJURY OR DEATH!**

THIS DRIVE-IN STORAGE RACK WAS INITIALLY DESIGNED BUILT AND INSTALLED TO EXCLUSIVELY STORE THE SCR PUMP MODULE PALLETS AS THE PUMP MODULES ARE SUPPLIED BY THE MANUFACTURER VENDOR SUPPLIER ON THE EUROPE EPAL 1200MM L X 800MM W X 144MM H (47-1/4" L X 31-1/2" W X 5-1/2" H) WOODEN PALLETS. THE RACK HAS A STORAGE CAPACITY OF 125 PALLETS. AS THE SCR TANK BUSINESS PHASES OUT AT THE DUNCAN PLANT (MED TO LATE 2025) THIS DRIVE-IN STORAGE RACK CAN BE USED FOR THE STORAGE OF PALLETS. AS THE SCR PUMP MODULES ARE PHASED OUT THE RACK CAN ALSO BE USED FOR THE STORAGE OF ACTUATORS.

**ONLY PERSONNEL TRAINED TO THIS SINGLE POINT LESSON CAN PERFORM THIS OPERATION!**

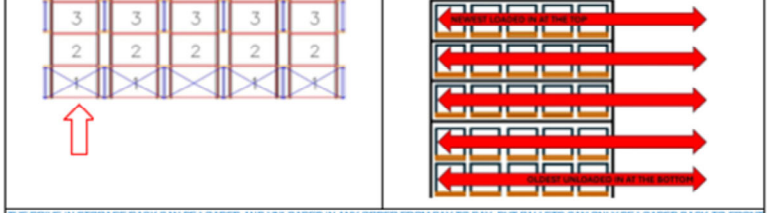
**INSTRUCTIONS**

THE FIRST LEVEL CAN STORE ONE PALLET ON TOP OF ANOTHER PALLET X5 DEEP WITH A LIFT HEIGHT OF 4". THE SECOND LEVEL CAN STORE X1 PALLET X5 DEEP WITH A LIFT HEIGHT OF 7". THE THIRD LEVEL CAN STORE X1 PALLET X5 DEEP WITH A LIFT HEIGHT OF 7". THE FOURTH LEVEL CAN STORE X1 PALLET X5 DEEP WITH A LIFT HEIGHT OF 12".

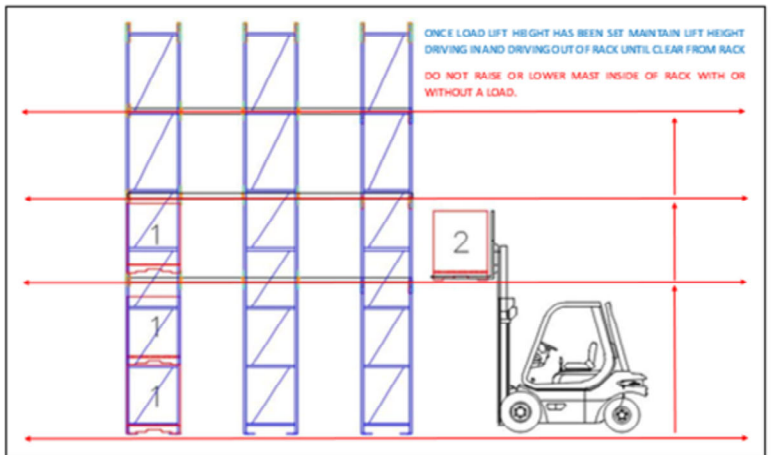


**FIRST IN FIRST OUT (FIFO) MANAGEMENT**

THE PUMP MODULE PALLETS AND ACTUATOR PALLETS WILL BE RECEIVED AND BOOKED INTO THE SUPERMARKET ACCORDING TO THE MANUFACTURER'S BUILT DATE AS SHOWN ON THE MANUFACTURER'S PALLET LABEL. WE WILL THEN MANAGE A FIFO SYSTEM BY LOADING THE NEWEST LOT IN AT THE TOP LEVEL AND UNLOADING DOWN TO THE BOTTOM LEVEL AS SHOWN FOR A SINGLE BAY IN THE DIAGRAM BELOW.



THE DRIVE-IN STORAGE RACK CAN BE LOADED AND UNLOADED IN ANY ORDER FROM BAY TO BAY BUT PALLETS CAN ONLY BE LOADED BACK-TO-FRONT AND TOP-TO-BOTTOM AND UNLOADED FRONT-TO-BACK AND BOTTOM-TO-TOP OR FIFO (FIRST-IN LAST-OUT) IT IS PHYSICALLY IMPOSSIBLE TO DO IT ANY OTHER WAY AS YOU WILL NOT BE ABLE TO DRIVE THE FORKLIFT TRUCK INTO THE RACK. HOW THE SEQUENCE OF LOADING AND UNLOADING IS UP TO THE MATERIAL HANDLER DEPENDING ON THE PART REQUIRED AND AMOUNT.



ONCE LOAD LIFT HEIGHT HAS BEEN SET MAINTAIN LIFT HEIGHT DRIVING IN AND DRIVING OUT OF RACK UNTIL CLEAR FROM RACK. DO NOT RAISE OR LOWER MAST INSIDE OF RACK WITH OR WITHOUT A LOAD.

**I KEEP ALL BODY PARTS INSIDE THE OVERHEAD GUARD AND CAGE!**

SLOWLY DRIVE THE LOAD INTO THE DRIVE-IN RACK TO THE BACK OF THE FIRST LEVEL BAY AND LOWER THE LOAD TO THE GROUND. SHIFT THE LOAD LEFT OR RIGHT TO CENTER IT TO THE BAY. PICK THE FORKS UP JUST ENOUGH AND OR TLT FORWARD OR TLT BACKWARDS THE FORKS JUST ENOUGH SO AS TO NOT DRAG THE FORKS ON THE PALLET. REVERSE OUT OF THE DRIVE-IN RACK KEEPING THE FORKS AT THAT SAME HEIGHT UNTIL YOU ARE CLEAR FROM THE DRIVE-IN RACK. DO NOT RAISE OR LOWER TLT FORWARD OR BACKWARDS THE FORKS ANYMORE THAN WHAT IS NEEDED TO PREVENT THE FORKS FROM DRAGGING ON THE PALLET.

**DO NOT RAISE OR LOWER THE MAST OF THE FORKLIFT TRUCK WHILE INSIDE THE DRIVE-IN RACK!** PICK UP A SINGLE PALLET. AS LONG AS YOU ARE NOT TRAVELING A LONG DISTANCE TO THE DRIVE-IN RACK IT WILL NOT BE NECESSARY TO TLT THE LOAD BACKWARDS. WITH THE LOAD LEVEL, APPROACH THE DRIVE-IN RACK CENTERED TO THE SAME BAY. RAISE OR LOWER AND ADJUST THE HEIGHT OF THE LOAD TO THE BOTTOM OF THE PALLET IS ABOUT 1" ABOVE THE ANGLED SHELFING BRACKET SHIFTING THE LOAD LEFT OR RIGHT TO HAVE EQUAL.



DISTANCE ON THE ANGLED SHELFING BRACKET. SLOWLY DRIVE THE LOAD INTO THE DRIVE-IN RACK TO THE BACK OF THE FIRST LEVEL BAY AND LOWER THE LOAD TO THE ANGLED SHELFING BRACKET. BRACK OFF. ADJUST AS NEEDED TO CENTER THE PALLET EQUAL DISTANCE LEFT OR AT IS WHAT NEEDED TO PREVENT THE FORKS FROM DRAGGING ON THE PALLET. SLOWLY DRIVE OUT OF THE DRIVE-IN RACK MAINTAINING THE FORKS AT THE SAME HEIGHT UNTIL YOU ARE CLEAR OF THE DRIVE-IN RACK. THEN YOU CAN LOWER THE FORKS.

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SIGNATORY	DOCUMENT/FORM AUTHOR	DOCUMENT VALIDATION
NAME	FRED WEBBERKING	MIKE MCCLINE
JOB TITLE	CPEX SPECIALIST AMERICAS	SUPERMARKET COORDINATOR
DEPARTMENT	CPEX	OPERATIONS/LOGISTICS/PRODUCTION
DATE	03/11/2024	03/11/2024
SIGNATURE		
		ANGELA RAMBUSH HSE MANAGER

Lastly, I wrote single point lesson on how to 'safely' load and unload the pallets of the pump modules into and out of the drive in racking system while at the same time maintaining some semblance of FIFO (First In – Last Out).