

Arcosa, Inc.  
500 N. Akard St. Suite 400  
Dallas, TX 75201  
arcosa.com

**ARCOSA**

December 13, 2024

Submitted to EEC Electronic Forms Website

Kentucky Department for Environmental Protection  
Division of Air Quality  
200 Fair Oaks Lane, 1<sup>st</sup> Floor  
Frankfort, KY 40601

RE: Application for Renewal of Title V Operating Permit No. V-19-026  
Arcosa Marine Products, Inc.  
700 Terrace Lane  
Paducah, KY 42003

The purpose of this correspondence is to seek renewal of the Title V Air Permit issued to Arcosa Marine Products, Inc. facility referenced above. Please find enclosed a completed DEP7007AI Form, DEP7007N Form, Facility Process Flow Diagram, Facility Site Plan, and Construction Drawings for Upgrade to Ventilation System. The upgraded ventilation system will be constructed in December 2024/January 2025.

The DEP Forms 7007B (Manufacturing or Processing Operations) and 7007J (Volatile Liquid Storage) are not included as there aren't any changes in the nature of the emissions from the facility since the initial issuance of the permit.

Should you have any questions regarding this matter or need further information, please contact Jeri Shull at 615-792-8288.

Regards,



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Glenn Hatfield  
Plant Manager

cc: Jeri Shull – Arcosa, Inc.

Division for Air Quality

300 Sower Boulevard

Frankfort, KY 40601

(502) 564-3999

### DEP7007AI

#### Administrative Information

- Section AI.1: Source Information
- Section AI.2: Applicant Information
- Section AI.3: Owner Information
- Section AI.4: Type of Application
- Section AI.5: Other Required Information
- Section AI.6: Signature Block
- Section AI.7: Notes, Comments, and Explanations

**Additional Documentation**

Additional Documentation attached

**Source Name:** ARCOSA MARINE PRODUCTS, INC

**KY EIS (AFS) #:** 21- 145-00040

**Permit #:** V-19-026

**Agency Interest (AI) ID:** AI 3069

**Date:** 12/13/2024

Section AI.1: Source Information					
Physical Location Address:	Street:	700 TERRACE LANE			
	City:	PADUCAH	County:	MCCRACKEN	Zip Code: 42003
Mailing Address:	Street or P.O. Box:	700 TERRACE LANE			
	City:	PADUCAH	State:	KY	Zip Code: 42003

#### Standard Coordinates for Source Physical Location

**Longitude:** 37.017588 N (decimal degrees)      **Latitude:** 88.492279 W (decimal degrees)

**Primary (NAICS) Category:** ALL OTHER PLASTICS PRODUCT MANUF.      **Primary NAICS #:** 326199

<b>Classification (SIC) Category:</b>	<u>RUBBER AND MISC PLASTICS PRODUCTS</u>	<b>Primary SIC #:</b>	<u>3089</u>
<b>Briefly discuss the type of business conducted at this site:</b>	<u>MANUFACTURE FIBERGLASS COVERS FOR BARGES</u>		
<b>Description of Area Surrounding Source:</b>	<input type="checkbox"/> Rural Area <input type="checkbox"/> Industrial Park <input checked="" type="checkbox"/> Residential Area <input type="checkbox"/> Urban Area <input type="checkbox"/> Industrial Area <input type="checkbox"/> Commercial Area	<b>Is any part of the source located on federal land?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Approximate distance to nearest residence or commercial property:</b>	<u>300 FT</u>	<b>Property Area:</b>	<u>51.55 ACRE</u>
		<b>Is this source portable?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>What other environmental permits or registrations does this source currently hold or need to obtain in Kentucky?</b>			
<b>NPDES/KPDES:</b>	<input checked="" type="checkbox"/> Currently Hold <input type="checkbox"/> Need <input type="checkbox"/> N/A		
<b>Solid Waste:</b>	<input type="checkbox"/> Currently Hold <input type="checkbox"/> Need <input checked="" type="checkbox"/> N/A		
<b>RCRA:</b>	<input checked="" type="checkbox"/> Currently Hold <input type="checkbox"/> Need <input type="checkbox"/> N/A		
<b>UST:</b>	<input type="checkbox"/> Currently Hold <input type="checkbox"/> Need <input checked="" type="checkbox"/> N/A		
<b>Type of Regulated Waste Activity:</b>	<input type="checkbox"/> Mixed Waste Generator <input checked="" type="checkbox"/> Generator <input type="checkbox"/> Recycler <input type="checkbox"/> Other: _____		
	<input type="checkbox"/> U.S. Importer of Hazardous Waste <input type="checkbox"/> Transporter <input type="checkbox"/> Treatment/Storage/Disposal Facility <input type="checkbox"/> N/A		

## Section A1.2: Applicant Information

**Applicant Name:** ARCOSA MARINE PRODUCTS, INC

**Title:** (if individual) \_\_\_\_\_

**Mailing Address:** **Street or P.O. Box:** 700 TERRACE LANE  
**City:** PADUCAH **State:** KY **Zip Code:** 42003

**Email:** (if individual) \_\_\_\_\_

**Phone:** 270-898-7303

### Technical Contact

**Name:** JERI SHULL

**Title:** VP - ENVIRONMENT

**Mailing Address:** **Street or P.O. Box:** 1050 TRINITY ROAD  
**City:** ASHLAND CITY **State:** TN **Zip Code:** 37015

**Email:** JERI.SHULL@ARCOSA.COM

**Phone:** 615-792-8288

### Air Permit Contact for Source

**Name:** JEFF BROOKS

**Title:** EHS COORDINATOR

**Mailing Address:** **Street or P.O. Box:** 700 TERRACE LANE  
**City:** PADUCAH **State:** KY **Zip Code:** 42003

**Email:** JEFFERY.BROOKS@ARCOSA.COM

**Phone:** 469-418-2776

**Section AI.3: Owner Information**

**Owner same as applicant**

**Name:** ARCOSA MARINE PRODUCTS, INC

**Title:** \_\_\_\_\_

**Mailing Address:** **Street or P.O. Box:** 500 N AKARD STREET, SUITE 400  
**City:** DALLAS **State:** TX **Zip Code:** 75201

**Email:** JERI.SHULL@ARCOSA.COM

**Phone:** 615-792-8288

**List names of owners and officers of the company who have an interest in the company of 5% or more.**

Name	Position
<u>ARCOSA, INC</u>	<u>100%</u>
_____	_____
_____	_____

**Section AI.4: Type of Application**

**Current Status:**       Title V    Conditional Major       State-Origin                       General Permit                       Registration                       None

**Requested Action:**       Name Change       Initial Registration       Significant Revision                       Administrative Permit Amendment  
*(check all that apply)*       Renewal Permit       Revised Registration       Minor Revision                       Initial Source-wide Operating Permit  
                                   502(b)(10)Change       Extension Request       Addition of New Facility                       Portable Plant Relocation Notice  
                                   Revision                       Off Permit Change                       Landfill Alternate Compliance Submittal       Modification of Existing Facilities  
                                   Ownership Change       Closure

**Requested Status:**       Title V    Conditional Major       State-Origin       PSD       NSR                       Other: \_\_\_\_\_

**Is the source requesting a limitation of potential emissions?**                       Yes       No

<p><b>Pollutant:</b>                      <b>Requested Limit:</b></p> <p><input type="checkbox"/> Particulate Matter                      _____</p> <p><input type="checkbox"/> Volatile Organic Compounds (VOC)                      _____</p> <p><input type="checkbox"/> Carbon Monoxide                      _____</p> <p><input type="checkbox"/> Nitrogen Oxides                      _____</p> <p><input type="checkbox"/> Sulfur Dioxide                      _____</p> <p><input type="checkbox"/> Lead                      _____</p>	<p><b>Pollutant:</b>                      <b>Requested Limit:</b></p> <p><input type="checkbox"/> Single HAP                      _____</p> <p><input type="checkbox"/> Combined HAPs                      _____</p> <p><input type="checkbox"/> Air Toxics (40 CFR 68, Subpart F)                      _____</p> <p><input type="checkbox"/> Carbon Dioxide                      _____</p> <p><input type="checkbox"/> Greenhouse Gases (GHG)                      _____</p> <p><input type="checkbox"/> Other                      _____</p>
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**For New Construction:**

**Proposed Start Date of Construction:**                      **Proposed Operation Start-Up Date:** *(MM/YYYY)*

*(MM/YYYY)*                      \_\_\_\_\_                      \_\_\_\_\_

**For Modifications:**

**Proposed Start Date of Modification:**                      **Proposed Operation Start-Up Date:** *(MM/YYYY)*

*(MM/YYYY)*                      \_\_\_\_\_                      \_\_\_\_\_

**Applicant is seeking coverage under a permit shield.**                       Yes       No                      **Identify any non-applicable requirements for which permit shield is sought on a separate attachment to the application.**

## Section AI.5 Other Required Information

Indicate the documents attached as part of this application:

- |                                                                                            |                                                                                   |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <input type="checkbox"/> DEP7007A Indirect Heat Exchangers and Turbines                    | <input type="checkbox"/> DEP7007CC Compliance Certification                       |
| <input type="checkbox"/> DEP7007B Manufacturing or Processing Operations                   | <input type="checkbox"/> DEP7007DD Insignificant Activities                       |
| <input type="checkbox"/> DEP7007C Incinerators and Waste Burners                           | <input type="checkbox"/> DEP7007EE Internal Combustion Engines                    |
| <input type="checkbox"/> DEP7007F Episode Standby Plan                                     | <input type="checkbox"/> DEP7007FF Secondary Aluminum Processing                  |
| <input type="checkbox"/> DEP7007J Volatile Liquid Storage                                  | <input type="checkbox"/> DEP7007GG Control Equipment                              |
| <input type="checkbox"/> DEP7007K Surface Coating or Printing Operations                   | <input type="checkbox"/> DEP7007HH Haul Roads                                     |
| <input type="checkbox"/> DEP7007L Mineral Processes                                        | <input type="checkbox"/> Confidentiality Claim                                    |
| <input type="checkbox"/> DEP7007M Metal Cleaning Degreasers                                | <input type="checkbox"/> Ownership Change Form                                    |
| <input checked="" type="checkbox"/> DEP7007N Source Emissions Profile                      | <input type="checkbox"/> Secretary of State Certificate                           |
| <input type="checkbox"/> DEP7007P Perchloroethylene Dry Cleaning Systems                   | <input checked="" type="checkbox"/> Flowcharts or diagrams depicting process      |
| <input type="checkbox"/> DEP7007R Emission Offset Credit                                   | <input type="checkbox"/> Digital Line Graphs (DLG) files of buldings, roads, etc. |
| <input type="checkbox"/> DEP7007S Service Stations                                         | <input checked="" type="checkbox"/> Site Map                                      |
| <input type="checkbox"/> DEP7007T Metal Plating and Surface Treatment Operations           | <input type="checkbox"/> Map or drawing depicting location of facility            |
| <input type="checkbox"/> DEP7007V Applicable Requirements and Compliance Activities        | <input type="checkbox"/> Safety Data Sheet (SDS)                                  |
| <input type="checkbox"/> DEP7007Y Good Engineering Practice and Stack Height Determination | <input type="checkbox"/> Emergency Response Plan                                  |
| <input type="checkbox"/> DEP7007AA Compliance Schedule for Non-complying Emission Units    | <input checked="" type="checkbox"/> Other: _____                                  |
| <input type="checkbox"/> DEP7007BB Certified Progress Report                               |                                                                                   |

## Section AI.6: Signature Block

I, the undersigned, hereby certify under penalty of law, that I am a responsible official\*, and that I have personally examined, and am familiar with, the information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the information is on knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false or incomplete information, including the possibility of fine or imprisonment.



Authorized Signature

GLENN HATFIELD

Type or Printed Name of Signatory

12/13/2024

Date

PLANT MANAGER

Title of Signatory

\*Responsible official as defined by 401 KAR 52:001.



Division for Air Quality

300 Sower Boulevard  
Frankfort, KY 40601  
(502) 564-3999

**DEP7007N**

Source Emissions Profile

- Section N.1: Emission Summary
- Section N.2: Stack Information
- Section N.3: Fugitive Information
- Section N.4: Notes, Comments, and Explanations

Additional Documentation

Complete DEP7007AI

Source Name: [ARCOSA MARINE PRODUCTS, INC](#)

KY EIS (AFS) #: 21- 145-00040

Permit #: [V-19-026](#)

Agency Interest (AI) ID: [AI 3069](#)

Date: [12/13/2024](#)

**N.1: Emission Summary**

Emission Unit #	Emission Unit Name	Process ID	Process Name	Control Device Name	Control Device ID	Stack ID	Maximum Design Capacity (SCC Units/hour)	Pollutant	Uncontrolled Emission Factor (lb/SCC Units)	Emission Factor Source (e.g. AP-42, Stack Test, Mass Balance)	Capture Efficiency (%)	Control Efficiency (%)	Hourly Emissions		Annual Emissions	
													Uncontrolled Potential (lb/hr)	Controlled Potential (lb/hr)	Uncontrolled Potential (tons/yr)	Controlled Potential (tons/yr)
EU01	COATING ROOM	1	BULK RESIN MECH	FILTER	FILTER	001	0.081	PM	28.9	401 KAR 59:010	70.00%	70.00%	2.34	0.702	10.25	3.07
EU01	COATING ROOM	1	BULK RESIN MECH	FILTER	FILTER	001	0.081	STYRENE (HAP)	80.7	SUBPART WWWW	0.00%	0.00%	6.53	6.53	28.62	28.62
EU01	COATING ROOM	1	BULK RESIN MECH	FILTER	FILTER	001	0.081	VOC	80.7	SUBPART WWWW	0.00%	0.00%	6.53	6.53	28.62	28.62
EU01	COATING ROOM	2	AROPOL 7241	FILTER	FILTER	001	0.081	PM	28.9	401 KAR 59:010	70.00%	70.00%	2.34	0.702	10.25	3.07
EU01	COATING ROOM	2	AROPOL 7241	FILTER	FILTER	001	0.081	STYRENE (HAP)	111.4	SUBPART WWWW	0.00%	0.00%	9.03	9.03	39.54	39.54
EU01	COATING ROOM	2	AROPOL 7241	FILTER	FILTER	001	0.081	VOC	111.4	SUBPART WWWW	0.00%	0.00%	9.03	9.03	39.54	39.54
EU01	COATING ROOM	3	DERAKANE 470	FILTER	FILTER	001	0.081	PM	28.9	401 KAR 59:010	70.00%	70.00%	2.34	0.702	10.25	3.07
EU01	COATING ROOM	3	DERAKANE 470	FILTER	FILTER	001	0.081	STYRENE (HAP)	70.6	SUBPART WWWW	0.00%	0.00%	5.72	5.72	25.05	25.05
EU01	COATING ROOM	3	DERAKANE 470	FILTER	FILTER	001	0.081	VOC	70.6	SUBPART WWWW	0.00%	0.00%	5.72	5.72	25.05	25.05

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**DEP7007N**

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													Uncontrolled Potential (lb/hr)	Controlled Potential (lb/hr)	Uncontrolled Potential (tons/yr)	Controlled Potential (tons/yr)
EU01	COATING ROOM	4	DERAKANE 411	FILTER	FILTER	001	0.081	PM	28.9	401 KAR 59:010	70.00%	70.00%	2.34	0.702	10.25	3.07
EU01	COATING ROOM	4	DERAKANE 411	FILTER	FILTER	001	0.081	STYRENE (HAP)	105.2	SUBPART WWWW	0.00%	0.00%	8.52	8.52	37.31	37.31
EU01	COATING ROOM	4	DERAKANE 411	FILTER	FILTER	001	0.081	VOC	105.2	SUBPART WWWW	0.00%	0.00%	8.52	8.52	37.31	37.31
EU01	COATING ROOM	6	GEL COAT G325	FILTER	FILTER	001	0.030	PM	78.0	401 KAR 59:010	70.00%	70.00%	2.34	0.702	10.25	3.07
EU01	COATING ROOM	6	GEL COAT G325	FILTER	FILTER	001	0.030	STYRENE (HAP)	259.0	SUBPART WWWW	0.00%	0.00%	7.77	7.77	34.03	34.03
EU01	COATING ROOM	6	GEL COAT G325	FILTER	FILTER	001	0.030	VOC	259.0	SUBPART WWWW	0.00%	0.00%	7.77	7.77	34.03	34.03
EU01	COATING ROOM	7	GEL COAT G220	FILTER	FILTER	001	0.030	PM	78.0	401 KAR 59:010	70.00%	70.00%	2.34	0.702	10.25	3.07
EU01	COATING ROOM	7	GEL COAT G220	FILTER	FILTER	001	0.030	STYRENE (HAP)	430.9	SUBPART WWWW	0.00%	0.00%	12.93	12.93	56.62	56.62
EU01	COATING ROOM	7	GEL COAT G220	FILTER	FILTER	001	0.030	VOC	430.9	SUBPART WWWW	0.00%	0.00%	12.93	12.93	56.62	56.62

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**DEP7007N**

Source Emissions Profile

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Additional Documentation

Complete DEP7007AI

Source Name: [ARCOSA MARINE PRODUCTS, INC](#)

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Date: [12/13/2024](#)

**N.1: Emission Summary**

Emission Unit #	Emission Unit Name	Process ID	Process Name	Control Device Name	Control Device ID	Stack ID	Maximum Design Capacity (SCC Units/hour)	Pollutant	Uncontrolled Emission Factor (lb/SCC Units)	Emission Factor Source (e.g. AP-42, Stack Test, Mass Balance)	Capture Efficiency (%)	Control Efficiency (%)	Hourly Emissions		Annual Emissions	
													Uncontrolled Potential (lb/hr)	Controlled Potential (lb/hr)	Uncontrolled Potential (tons/yr)	Controlled Potential (tons/yr)
EU01	COATING ROOM	8	TOOLING GEL COAT	FILTER	FILTER	001	0.030	PM	78.0	401 KAR 59:010	70.00%	70.00%	2.34	0.702	10.25	3.07
EU01	COATING ROOM	8	TOOLING GEL COAT	FILTER	FILTER	001	0.030	STYRENE (HAP)	422.6	SUBPART WWWW	0.00%	0.00%	12.68	12.68	55.53	55.53
EU01	COATING ROOM	8	TOOLING GEL COAT	FILTER	FILTER	001	0.030	VOC	422.6	SUBPART WWWW	0.00%	0.00%	12.68	12.68	55.53	55.53
EU01	COATING ROOM	10	POLY INITIATOR	FILTER	FILTER	001	2.2	PM	0.0034	MASS BALANCE	70.00%	70.00%	0.007	0.002	0.03	0.01
EU01	COATING ROOM	10	POLY INITIATOR	FILTER	FILTER	001	2.2	2-BUTANONE PEROXIDE	2.9	MASS BALANCE	0.00%	0.00%	6.27	6.27	27.46	27.46
EU01	COATING ROOM	10	POLY INITIATOR	FILTER	FILTER	001	2.2	VOC	8.2	MASS BALANCE	0.00%	0.00%	18.06	18.06	79.11	79.11
EU01	COATING ROOM	14	ISOPHTHALIC RESIN	FILTER	FILTER	001	0.081	PM	28.9	401 KAR 59:010	70.00%	70.00%	2.34	0.702	10.25	3.07
EU01	COATING ROOM	14	ISOPHTHALIC RESIN	FILTER	FILTER	001	0.081	STYRENE (HAP)	92.6	SUBPART WWWW	0.00%	0.00%	7.50	7.50	32.85	32.85
EU01	COATING ROOM	14	ISOPHTHALIC RESIN	FILTER	FILTER	001	0.081	VOC	92.6	SUBPART WWWW	0.00%	0.00%	7.50	7.50	32.85	32.85

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**DEP7007N**

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**N.1: Emission Summary**

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													Uncontrolled Potential (lb/hr)	Controlled Potential (lb/hr)	Uncontrolled Potential (tons/yr)	Controlled Potential (tons/yr)
EU01	COATING ROOM	15	DERAKANE 441	FILTER	FILTER	001	0.081	PM	28.9	401 KAR 59:010	70.00%	70.00%	2.34	0.702	10.25	3.07
EU01	COATING ROOM	15	DERAKANE 441	FILTER	FILTER	001	0.081	STYRENE (HAP)	89.5	SUBPART WWWW	0.00%	0.00%	7.25	7.25	31.74	31.74
EU01	COATING ROOM	15	DERAKANE 441	FILTER	FILTER	001	0.081	VOC	89.5	SUBPART WWWW	0.00%	0.00%	7.25	7.25	31.74	31.74
EU01	COATING ROOM	16	BULK RESIN MANUAL	FILTER	FILTER	001	0.081	PM	28.9	401 KAR 59:010	70.00%	70.00%	2.34	0.702	10.25	3.07
EU01	COATING ROOM	16	BULK RESIN MANUAL	FILTER	FILTER	001	0.081	STYRENE (HAP)	80.7	SUBPART WWWW	0.00%	0.00%	6.53	6.53	28.62	28.62
EU01	COATING ROOM	16	BULK RESIN MANUAL	FILTER	FILTER	001	0.081	VOC	80.7	SUBPART WWWW	0.00%	0.00%	6.53	6.53	28.62	28.62
EU01	COATING ROOM	17	TOOLING RESIN	FILTER	FILTER	001	0.081	PM	28.9	401 KAR 59:010	70.00%	70.00%	2.34	0.702	10.25	3.07
EU01	COATING ROOM	17	TOOLING RESIN	FILTER	FILTER	001	0.081	STYRENE (HAP)	55.6	SUBPART WWWW	0.00%	0.00%	4.51	4.51	19.74	19.74
EU01	COATING ROOM	17	TOOLING RESIN	FILTER	FILTER	001	0.081	VOC	55.6	SUBPART WWWW	0.00%	0.00%	4.51	4.51	19.74	19.74

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## DEP7007N

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													Uncontrolled Potential (lb/hr)	Controlled Potential (lb/hr)	Uncontrolled Potential (tons/yr)	Controlled Potential (tons/yr)
COMB	SPACE HEATERS	N/A	N/A	N/A	N/A	N/A	0.033	CO2	12500	AP-42, 1.5-1	0.00%	0.00%	409.87	409.87	1795.25	1795.25
COMB	SPACE HEATERS	N/A	N/A	N/A	N/A	N/A	0.033	CO	7.5	AP-42, 1.5-1	0.00%	0.00%	0.25	0.25	1.08	1.08
COMB	SPACE HEATERS	N/A	N/A	N/A	N/A	N/A	0.033	NO2	13	AP-42, 1.5-1	0.00%	0.00%	0.43	0.43	1.87	1.87
COMB	SPACE HEATERS	N/A	N/A	N/A	N/A	N/A	0.033	PM	0.7	AP-42, 1.5-1	0.00%	0.00%	0.02	0.02	0.1	0.1
COMB	SPACE HEATERS	N/A	N/A	N/A	N/A	N/A	0.033	SO2	0.44	AP-42, 1.5-1	0.00%	0.00%	0.01	0.01	0.06	0.06
COMB	SPACE HEATERS	N/A	N/A	N/A	N/A	N/A	0.033	VOC	1	AP-42, 1.5-1	0.00%	0.00%	0.03	0.03	0.14	0.14

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Agency Interest (AI) ID: AI 3069

Date: 12/13/2024

#### N.1: Emission Summary

Emission Unit #	Emission Unit Name	Process ID	Process Name	Control Device Name	Control Device ID	Stack ID	Maximum Design Capacity (SCC Units/hour)	Pollutant	Uncontrolled Emission Factor (lb/SCC Units)	Emission Factor Source (e.g. AP-42, Stack Test, Mass Balance)	Capture Efficiency (%)	Control Efficiency (%)	Hourly Emissions		Annual Emissions	
													Uncontrolled Potential (lb/hr)	Controlled Potential (lb/hr)	Uncontrolled Potential (tons/yr)	Controlled Potential (tons/yr)
STOR01	RESIN TANK 1	1	WORKING LOSS	N/A	N/A	N/A	0.035	HAP	0.0504	MASS BALANCE	0.00%	0.00%	0.0018	0.0018	0.0078	0.0078
STOR01	RESIN TANK 1	1	WORKING LOSS	N/A	N/A	N/A	0.035	VOC	0.1144	MASS BALANCE	0.00%	0.00%	0.004	0.004	0.0177	0.0177
STOR01	RESIN TANK 1	2	BREATH LOSS	N/A	N/A	N/A	0.00062	HAP	0.327	MASS BALANCE	0.00%	0.00%	0.0002	0.0002	0.0009	0.0009
STOR01	RESIN TANK 1	2	BREATH LOSS	N/A	N/A	N/A	0.00062	VOC	0.744	MASS BALANCE	0.00%	0.00%	0.0005	0.0005	0.002	0.002
STOR02	RESIN TANK 2	1	WORKING LOSS	N/A	N/A	N/A	0.0312	HAP	0.0514	MASS BALANCE	0.00%	0.00%	0.0016	0.0016	0.007	0.007
STOR02	RESIN TANK 2	1	WORKING LOSS	N/A	N/A	N/A	0.0312	VOC	0.0514	MASS BALANCE	0.00%	0.00%	0.0016	0.0016	0.007	0.007
STOR02	RESIN TANK 2	2	BREATH LOSS	N/A	N/A	N/A	0.0005	HAP	0.337	MASS BALANCE	0.00%	0.00%	0.0002	0.0002	0.0008	0.0008
STOR02	RESIN TANK 2	2	BREATH LOSS	N/A	N/A	N/A	0.0005	VOC	0.756	MASS BALANCE	0.00%	0.00%	0.0004	0.0004	0.002	0.002

Division for Air Quality

300 Sower Boulevard  
Frankfort, KY 40601  
(502) 564-3999

### DEP7007N

#### Source Emissions Profile

- Section N.1: Emission Summary
- Section N.2: Stack Information
- Section N.3: Fugitive Information
- Section N.4: Notes, Comments, and Explanations

#### Additional Documentation

Complete DEP7007AI

Source Name: ARCOSA MARINE PRODUCTS, INC

KY EIS (AFS) #: 21- 145-00040

Permit #: V-19-026

Agency Interest (AI) ID: AI 3069

Date: 12/13/2024

#### N.1: Emission Summary

Emission Unit #	Emission Unit Name	Process ID	Process Name	Control Device Name	Control Device ID	Stack ID	Maximum Design Capacity (SCC Units/hour)	Pollutant	Uncontrolled Emission Factor (lb/SCC Units)	Emission Factor Source (e.g. AP-42, Stack Test, Mass Balance)	Capture Efficiency (%)	Control Efficiency (%)	Hourly Emissions		Annual Emissions	
													Uncontrolled Potential (lb/hr)	Controlled Potential (lb/hr)	Uncontrolled Potential (tons/yr)	Controlled Potential (tons/yr)
STOR03	RESIN TANK 3	1	WORKING LOSS	N/A	N/A	N/A	0.019	HAP	0.0506	MASS BALANCE	0.00%	0.00%	0.001	0.001	0.004	0.004
STOR03	RESIN TANK 3	1	WORKING LOSS	N/A	N/A	N/A	0.019	VOC	0.115	MASS BALANCE	0.00%	0.00%	0.002	0.002	0.01	0.01
STOR03	RESIN TANK 3	2	BREATH LOSS	N/A	N/A	N/A	0.00034	HAP	0.333	MASS BALANCE	0.00%	0.00%	0.0001	0.0001	0.0005	0.0005
STOR03	RESIN TANK 3	2	BREATH LOSS	N/A	N/A	N/A	0.00034	VOC	0.756	MASS BALANCE	0.00%	0.00%	0.0003	0.0003	0.001	0.001
STOR04	RESIN TANK 4	1	WORKING LOSS	N/A	N/A	N/A	0.016	HAP	0.0514	MASS BALANCE	0.00%	0.00%	0.0008	0.0008	0.004	0.004
STOR04	RESIN TANK 4	1	WORKING LOSS	N/A	N/A	N/A	0.016	VOC	0.1168	MASS BALANCE	0.00%	0.00%	0.0018	0.0018	0.008	0.008
STOR04	RESIN TANK 4	2	BREATH LOSS	N/A	N/A	N/A	0.0003	HAP	0.34	MASS BALANCE	0.00%	0.00%	0.00009	0.00009	0.0004	0.0004
STOR04	RESIN TANK 4	2	BREATH LOSS	N/A	N/A	N/A	0.0003	VOC	0.773	MASS BALANCE	0.00%	0.00%	0.0002	0.0002	0.0009	0.0009

**Section N.2: Stack Information**

**UTM Zone:**

Stack ID	Identify all Emission Units (with Process ID) and Control Devices that Feed to Stack	Stack Physical Data			Stack UTM Coordinates		Stack Gas Stream Data		
		Equivalent Diameter <i>(ft)</i>	Height <i>(ft)</i>	Base Elevation <i>(ft)</i>	Northing <i>(m)</i>	Easting <i>(m)</i>	Flowrate <i>(acfm)</i>	Temperature <i>(°F)</i>	Exit Velocity <i>(ft/sec)</i>
001	EU01 - COATING ROOM COMB	2.83	32.5		4097939.33	367128.66	16,000	AMBIENT	47.5
002	EU01 - COATING ROOM COMB	2.83	32.5		4097945.53	367115.32	16,000	AMBIENT	47.5
003	EU01 - COATING ROOM COMB	2.83	32.5		4097950.59	367104.28	16,000	AMBIENT	47.5
004	EU01 - COATING ROOM COMB	2.83	32.5		4097953.04	367096.84	16,000	AMBIENT	47.5
005	EU01 - COATING ROOM COMB	2.83	32.5		4097959.81	367082.17	16,000	AMBIENT	47.5
006	EU01 - COATING ROOM COMB	2.83	32.5		4097965.80	367068.21	16,000	AMBIENT	47.5

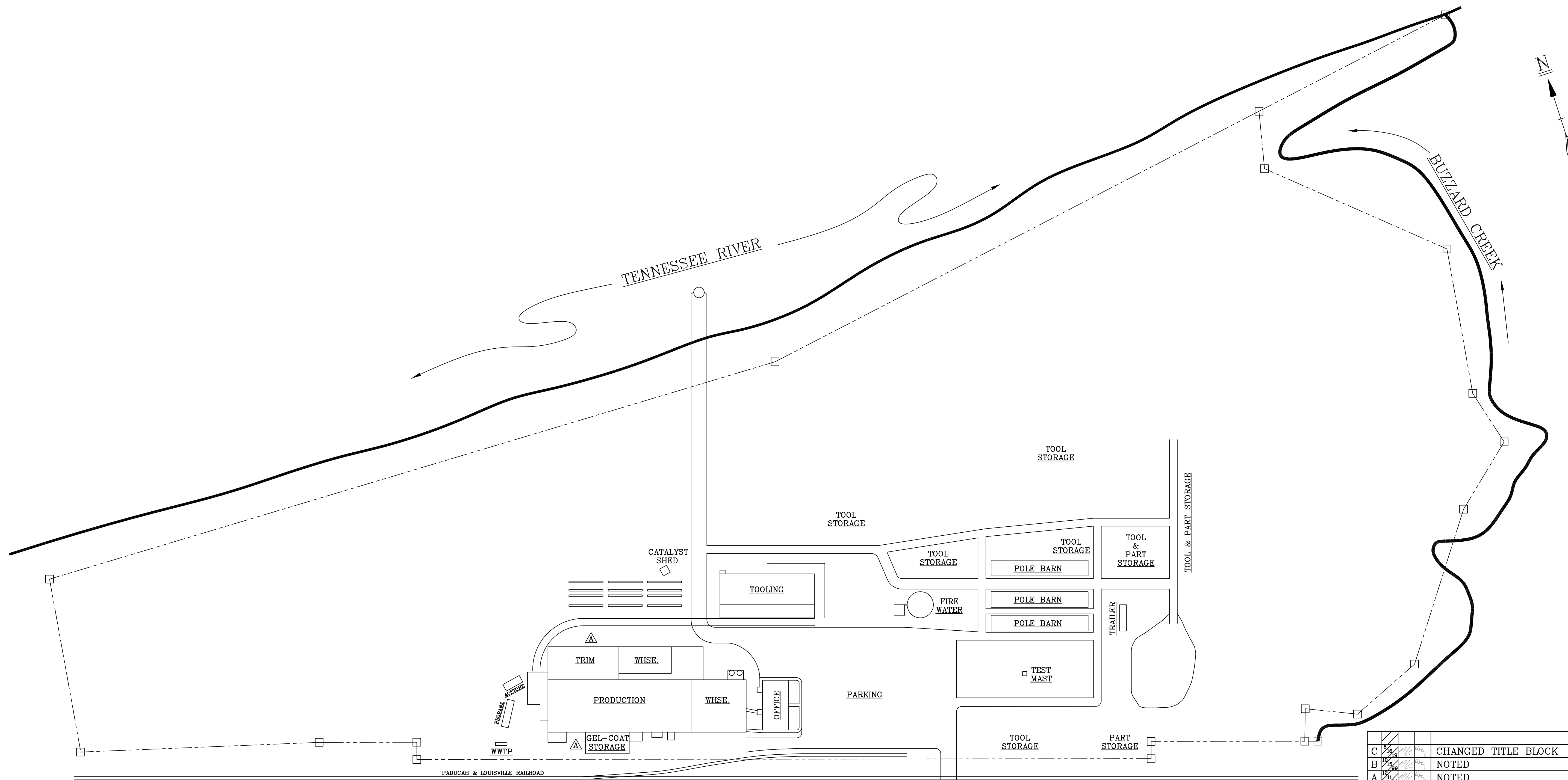
**Section N.3: Fugitive Information****UTM Zone:**

Emission Unit #	Emission Unit Name	Process ID	Area Physical Data		Area UTM Coordinates		Area Release Data	
			Length of the X Side (ft)	Length of the Y Side (ft)	Northing (m)	Easting (m)	Release Temperature (°F)	Release Height (ft)
STOR01	RESIN TANK 1	WORKING LOSS	30	32	4097951.50	367159.37	AMBIENT	14
STOR01	RESIN TANK 1	BREATHING LOSS	30	32	4097951.50	367159.37	AMBIENT	14
STOR02	RESIN TANK 2	WORKING LOSS	30	32	4097951.50	367159.37	AMBIENT	14
STOR02	RESIN TANK 2	BREATHING LOSS	30	32	4097951.50	367159.37	AMBIENT	14
STOR03	RESIN TANK 3	WORKING LOSS	30	32	4097951.50	367159.37	AMBIENT	11
STOR03	RESIN TANK 3	BREATHING LOSS	30	32	4097951.50	367159.37	AMBIENT	11
STOR04	RESIN TANK 4	WORKING LOSS	30	32	4097951.50	367159.37	AMBIENT	9
STOR04	RESIN TANK 4	BREATHING LOSS	30	32	4097951.50	367159.37	AMBIENT	9



## ATTACHMENT 1

### PROCESS DIAGRAM AND FACILITY MAP

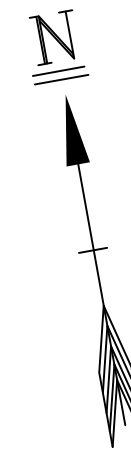


PROPERTY PLAN

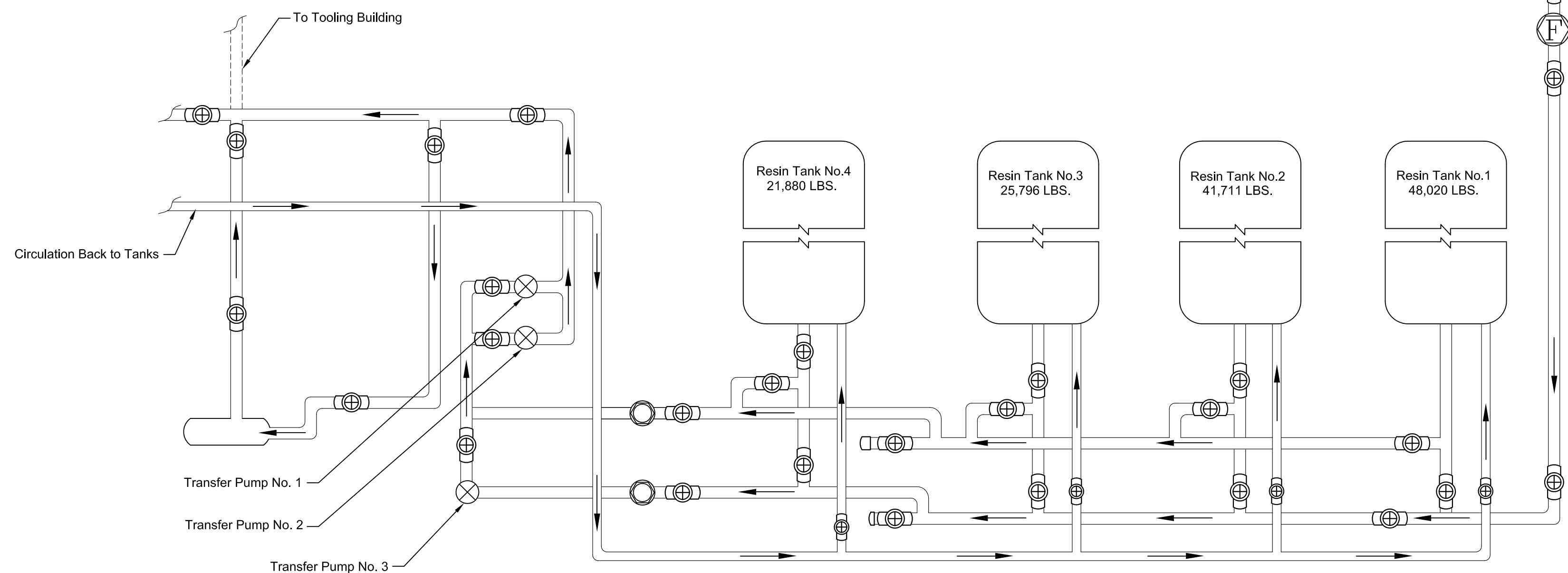
- NOTES:  
 1. DRAWING IS FOR GENERAL REFERENCE ONLY.  
 2. TOTAL PROPERTY AREA IS APPROXIMATELY 51.55 ACRES.

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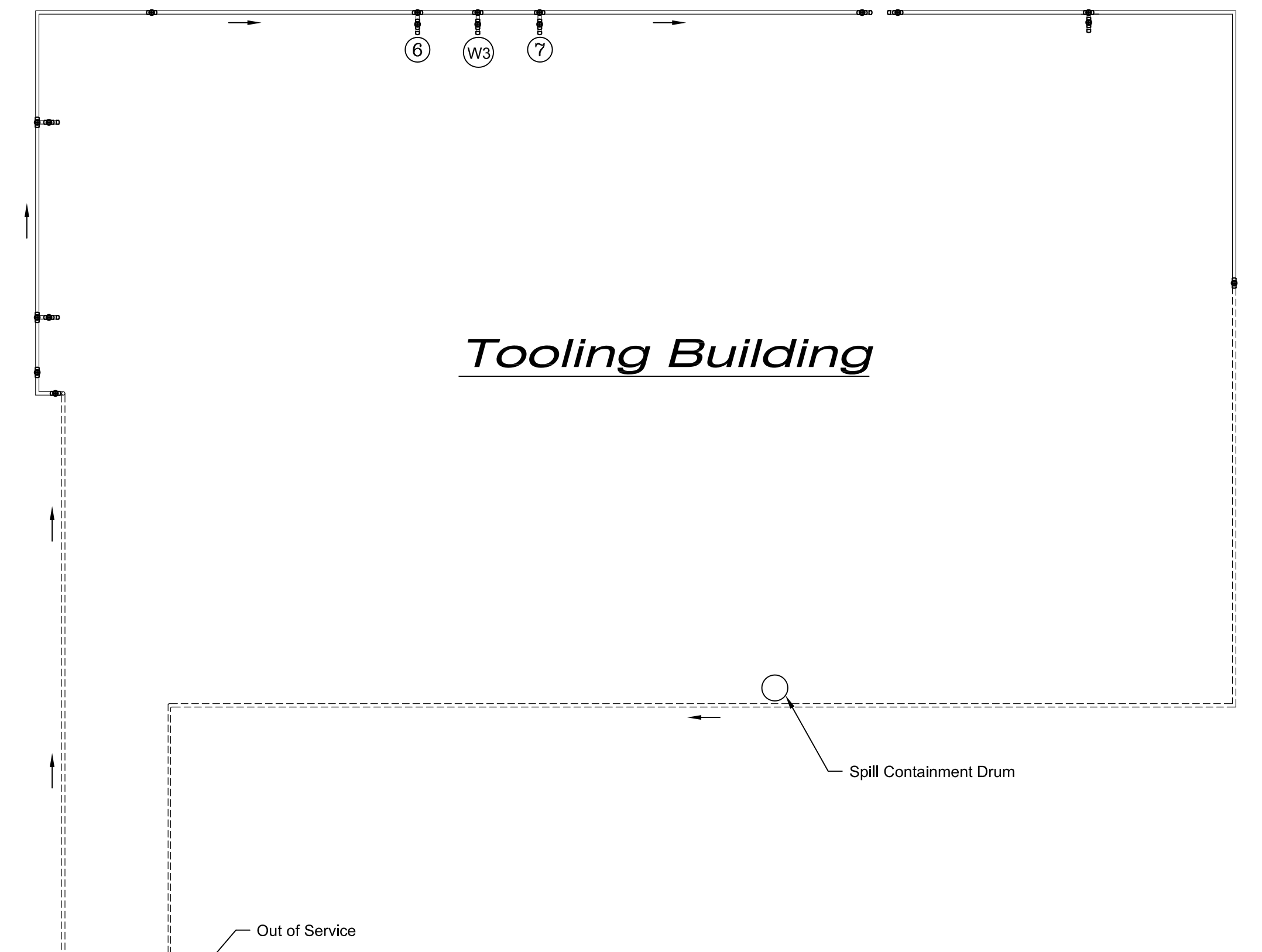
C	10/18/13	CHANGED TITLE BLOCK		
B	10/18/13	NOTED		
A	10/18/13	NOTED		
Rev.	Date	By	Appd.	Description
<b>ARCOSA</b> MARINE COMPOSITES GROUP 700 Terrace Lane Paducah, KY 42003 Ph: (270) 898-7303 Fax: (270) 898-7306				
Title				
PLANT #245 PADUCAH FACILITY GENERAL LAYOUT				
Drawn	Scale	Date Issued		
<i>MLC</i>	NONE	7-13-95		
Approved	Drawing No.	Sheet	Sheet	Rev.
<i>FW</i>	D105-000-18	1 of 1	C	



Tennessee River

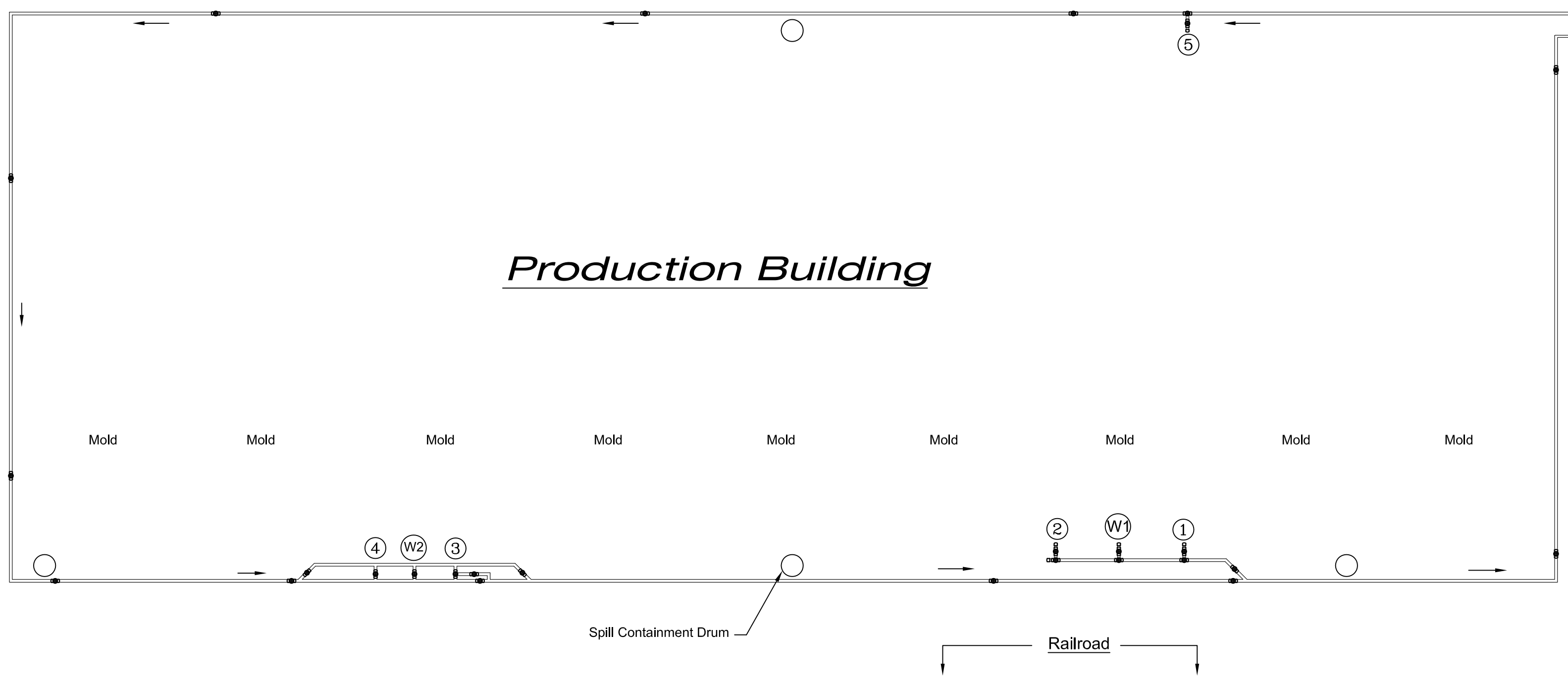


**Detail "A - A"**  
Resin Storage Area



**Tooling Building**

- ① ② ③ ④ ⑤ ⑥ ⑦ — Chopper Gun Pumps
- Ⓜ ① ② ③ — Wet Out Pumps
- Resin Flow Line
- ⊕ — Cut-Off Valve
- Ⓧ — Entry Filter
- — Underground Resin Flow Line
- ⊙ — In-Line Filter
- ⊗ — Transfer Pump
- ▭ — Heater / Cooler (Resin)



**Production Building**

See Detail "A - A"

- Note:
1. All storage tanks are vented to the atmosphere.
  2. Standard piping system running pressure - 100 lbs.
  3. Maximum piping system pressure - 300 lbs.

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B		Updated Piping	
A		Changed Title Block	
Rev.	Date	By	App'd
<b>ARCOSA MARINE</b>			
COMPOSITES GROUP			
700 Terrace Lane		Paducah, KY 42003	
		Ph: (270) 898-7303	
		Fax: (270) 898-7306	
<b>Process Flow Diagram</b>			
Plant No. 1245			
General Arrangement & Details			
Drawn	Scale	Date Issued	
<i>[Signature]</i>	None	5 - 01 - 96	
Approved	Drawing No.	Sheet	Rev.
<i>[Signature]</i>	D105 - 000 - 17	1 of 1	B

## ATTACHMENT 2

# CONSTRUCTION DRAWINGS FOR UPDATE TO VENTILATION SYSTEM

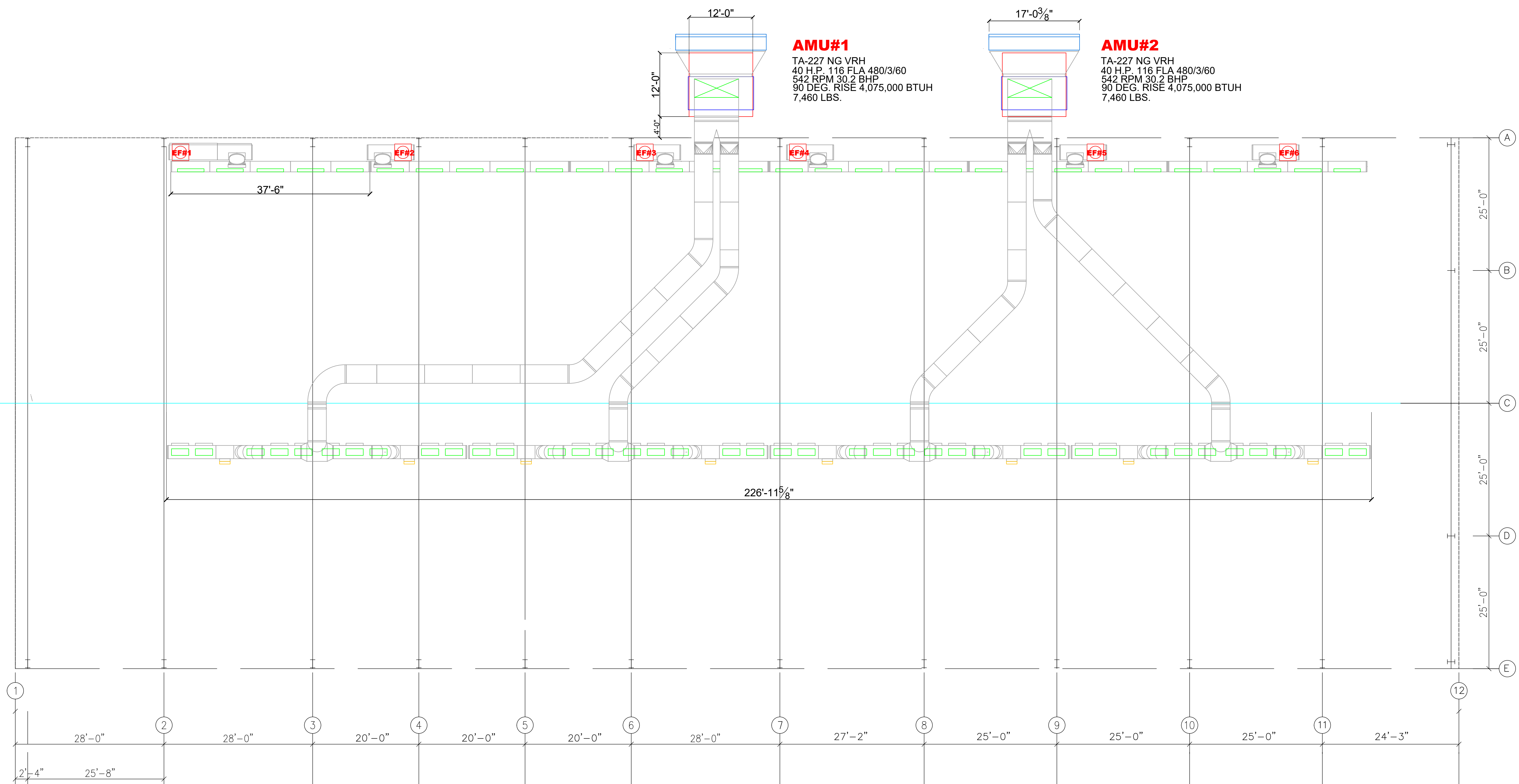
# SOUTH

## AMU#1

TA-227 NG VRH  
40 H.P. 116 FLA 480/3/60  
542 RPM 30.2 BHP  
90 DEG. RISE 4,075,000 BTUH  
7,460 LBS.

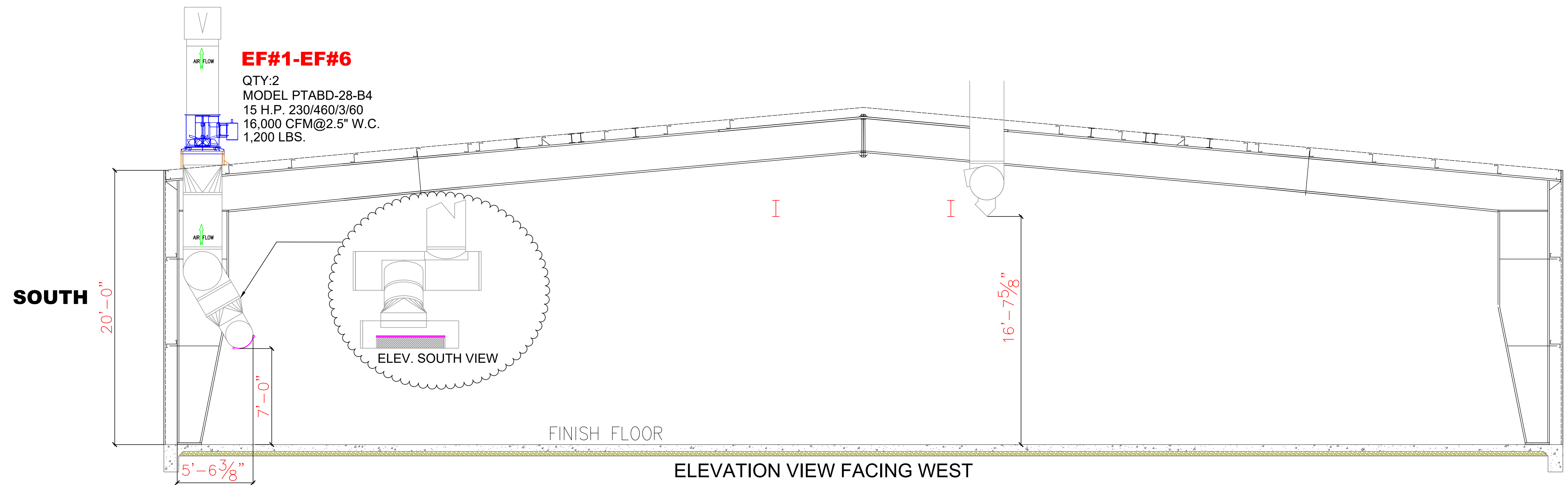
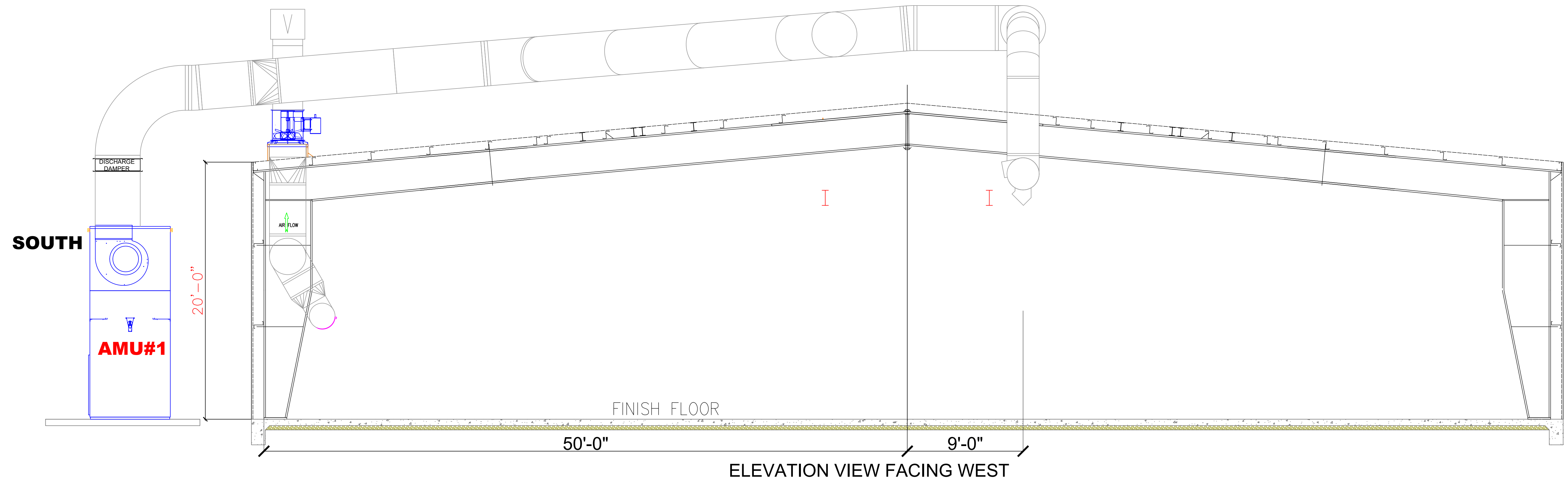
## AMU#2

TA-227 NG VRH  
40 H.P. 116 FLA 480/3/60  
542 RPM 30.2 BHP  
90 DEG. RISE 4,075,000 BTUH  
7,460 LBS.



280'-0" OUT TO OUT OF STEEL

# NORTH



**EF#1-EF#6**

QTY:2  
 MODEL PTABD-28-B4  
 15 H.P. 230/460/3/60  
 16,000 CFM@2.5" W.C.  
 1,200 LBS.