

D	Project Name	VERONA GENE SILENCING/GENE THERAPY MANUFACTURING BLDG .			PEC Activity Diagram	
	Industry Code	13 Pharmaceutical & Biotech		Project Type	Plant Expansion	
	TIV (USD)	160,000,000				
	SIC Code	2836 Biological Products, Except Diagnostic Substances		Sector	Final Formulation (Oral, Solid, Parenteral, Topical, etc.)	
	SIC Product	2836*0035 Cellular and Gene Therapy Products				
	Status	Active	Last Update	21-Mar-2022	Initial Release	25-Oct-2021
	Environmental	Air (A) Land (L) Water (W)		Construction Labor Preference	Union, Non-Unio	
			Operations Labor Preference	Unconfirmed		
	Square Footage	New Sq. Ft. 164,000 Sq. Ft.				
	Plant Owner	Arrowhead Pharmaceuticals Incorporated			Plant Parent	Arrowhead Pharmaceuticals Incorporated
Plant Name	Verona RNA Chemistries/Gene Silencing/Gene Therapies			Unit Name		
Plant ID	3481810					
Location	1080 Arrowhead Way,Connecting John P. Livesey Boulevard & Kettle Moraine Trail			Phone	+1 626 304 3400	
City/State	Verona, Wisconsin 53593 U.S.A.			Zone/County	WI*02, Dane	
Project Responsibility	Project Company			Project Contact		
Project Director	Arrowhead Pharmaceuticals Incorporated 502 South Rosa Road Madison, Wisconsin 53719-1256 U.S.A.			Fred Fleitz Group Vice President, Chemistry, Manufacturing & Controls (CMC) [Tel.] +1 608 316 3890 x3958 [E-Mail] ffleitz@arrowheadpharma.com ; [LinkedIn] fred-fleitz-80a51022		
Project Manager	Arrowhead Pharmaceuticals Incorporated 502 South Rosa Road Madison, Wisconsin 53719-1256 U.S.A.			Jacob Griffin Scientist & Facilities Manager [Tel.] +1 608 316 3890 x3899 [E-Mail] jgriffin@arrowheadpharma.com ; [LinkedIn] jacob-griffin-76a91733		
A&E	DPS Group 1020 Spring Mill Avenue Building F Suite 101 Conshohocken, Pennsylvania 19428 U.S.A.			Michael Martin Director Project Management [Tel.] +1 267 201 6334 [E-Mail] michael.martin@dpsgroupglobal.com ; [LinkedIn] michael-martin-66789031		
G/C	Vogel Brothers Building Company 5460 Fen Oak Drive Madison, Wisconsin 53718 U.S.A.			Ryan Mears Project Manager [Tel.] +1 608 241 5454 / [Alt.] +1 608 843 7391 (Mobile) [E-Mail] rmears@vogelbldg.com		
PEC® Timing	P1			PEC® Activity Detailed Design		
Project Probability	Medium (70-80%)					
Scope	Arrowhead Pharmaceuticals Incorporated with DPS Global and Vogel Brothers Building Company performs Detailed Design for Gene Silencing/Gene Therapy Manufacturing Building Addition ("Project Veneto"-Phase 1B). DETAILS: On approximately 13-acre site, within Verona Technology Park, as Phase 1B of a 2-phase project (Phase 1A-108,000 sqft laboratory/administrative building #300737292), construct 2-story, approximately 164,000 sqft building and equip for the production of gene silencing and gene therapy products and related therapeutics plus tank farm. REQUIRES: Building, Building Automation Systems (BAS), Building Management Systems (BMS), Temperature and Humidity Controls, Fire and Security System, Voice/Data/Wireless System, Air/Gas Vacuum System, Industrial Gas Supply and Storage, Single-Use Bioreactors, Aseptic Filling Equipment, Cell Culture Tanks, Purification Equipment, Cell Banking Equipment, Clarification Equipment, Cleanrooms (ISO 5-8/Class 100-100,000), Controls (PLC/DCS), Ultrafiltration Equipment, Chromatography Equipment, Clean Steam Generators, Flow Filtration Equipment, Bar Coding/Scanning/Labeling Equipment, Cryopreservation Equipment, Refrigeration, Freezers, Electrical Distribution, Water Purification System, NGF Boiler, Chiller, Heat Exchangers, Tank Farm, Conveyors (Roller/Belt), Packaging Equipment, Emergency Generators, Uninterrupted Power Supply, Pumps, Motors, Valves. ENVIRONMENTAL: (A) HEPA Filtration System, Scrubbers, Dust Collectors; (L) Containment; (W) Pre-Wastewater Treatment System, Stormwater Drainage System.					
Schedule	Arrowhead Pharmaceuticals Incorporated with DPS Global and Vogel Brothers Building Company continues with Detailed Design through 1Q22 (Apr-May). Overlapping Phase 1A-laboratory building, Arrowhead with Vogel releases any remaining Equipment RFQs plus Subcontractor Bid Documents 2Q22 (Apr)-3Q23 (Sep). Construction Kick-Off 2Q22 (Jun). Project Completion 1Q24 (Feb).					
Project Milestones	AFE 202204	Sub Bid Doc 202204	Completion 29-Feb-2024	Precision YEAR		
	Equip RFQ 202204	Kick-Off 202206	Kickoff Slippage 1 Months	Duration 21 Months		
Engineering						
Contracting	Civil	Electrical	Environmental HVAC	Instrumentation Mechanical Structural		
Project Key Needs	Civil/Site	Structural		Process Equip Heat Transfer		
	Instrumentation	Electrical	Mechanical HVAC	Storage		

	Piping/Fittings Communications	Insulation/Coatings	Environmental Utilities Batch Process	Valves Packaging
Matter Phase		Material Handling		
Energy		Liquid Boiler		Solid Generator
Buy				
Sell				

Plant Standard Contacts

Functional/Actual Title	Contact Name/E-mail	Telephone/On-site	QC Date/LinkedIn ID
Plant Manager	Jacob Griffin	[Phn.] +1 608 316 3890 x3899	Oct-2021
Scientist & Facilities Manager	jgriffin@arrowheadpharma.com	No	jacob-griffin-76a91733

Historical Reports

Project Name	Report Date	TIV	Phase
VERONA GENE SILENCING/GENE THERAPY MANUFACTURING BLDG ADD (PROJECT VENETO-PH 1B)	25-Oct-2021	120,000,000 USD	Detailed Design (P1 -
VERONA GENE SILENCING/GENE THERAPY MANUFACTURING BLDG ADD (PROJECT VENETO-PH 1B)	21-Dec-2021	145,000,000 USD	Detailed Design (P1 -
VERONA GENE SILENCING/GENE THERAPY MANUFACTURING BLDG ADD (PROJECT VENETO-PH 1B)	21-Mar-2022	160,000,000 USD	Detailed Design (P1 -

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