

# Galesville Fire Station

<b>Category:</b>	Fire and Police Stations	<b>Project ID #:</b>	1004517958
<b>Street Address:</b>	4680 Muddy Creek Road, Galesville MD 20765	<b>Staff Estimate Value</b>	\$3,000,000.00
<b>County:</b>	Anne Arundel	<b>Stage:</b>	BIDDING - Bid Date Set
<b>Bid Date:</b>	11/7/2017, 01:30PM		
<b>Architect:</b>	Bignell Watkins Hasser Architects (BWH)		
<b>Documents Available:</b>	Plans, Specs available in Insight		Plans available from County of Anne Arundel
<b>Last Update:</b>	10/16/2017		Bay Engineering was added as Civil Engineer

## Personal Notes

User	Note	Update Date	Private?
Adam Sweet	40,000 GALLON SW FRP UST FIRE PUMP SUCTION TANK/WATER STORAGE TANK	10/16/2017	False

## Project Events

Event	Date	Details
Bid Date	11/7/2017, 01:30PM	Sealed bids, addressed to Anne Arundel County, Bid No. F563501, for Galesville Fire Station for the Department of Public Works will be received until 1:30 P.M. local time, Tuesday, November 7, 2017, at the Office of the Purchasing Agent, 3rd Floor, Heritage Office Complex, 2660 Riva Road, Annapolis, Maryland 21401, after which they will be publicly opened and read in the Patuxent Conference Room, located on the same floor.
End Date	5/3/2019	
Pre-Bid Meeting	10/17/2017, 09:00AM	at the existing Galesville Fire Station (954 Galesville Rd)
Start Date	1/8/2018	Actual Start Date

## Notes

**Scope**  
 Site work and new construction of a fire / police facility in Galesville, Maryland. Completed plans call for the construction of a fire / police facility; and for site work for a 129,386-square-foot fire / police facility. Cost estimate is above \$3 million. Construct 3 drive-thru bays fire station. Includes apparatus bays, offices, lockers, sleeping areas, kitchen, gear room. and other areas. Includes parking, drive-ways, concert apron, well, septic, BGE, etc. The Work includes the following major items: Construct 3 drive-thru bays fire station, which includes apparatus bays, offices, lockers, sleeping area, kitchen, gear room and other supportive areas. The site work includes, parking, drive-ways, concrete apron, well, septic, BGE etc. in accordance to contract documents.

**Notes**  
 Pre-Bid Meeting: 10/17/2017 09:00AM at the existing Galesville Fire Station (954 Galesville Rd) Bid Date: 11/07/2017 01:30PM Sealed bids, addressed to Anne Arundel County, Bid No. F563501, for Galesville Fire Station for the Department of Public Works will be received until 1:30 P.M. local time, Tuesday, November 7, 2017, at the Office of the Purchasing Agent, 3rd Floor, Heritage Office Complex, 2660 Riva Road, Annapolis, Maryland 21401, after which they will be publicly opened and read in the Patuxent Conference Room, located on the same floor. Development include(s): Site Work, New Construction

**Details**  
 [Division 2]: Building Demolition, Clearing, Dewatering, Shoring, Underpinning, Earthwork, Grading, Paving & Surfacing, Water Systems, Wells, Sewerage & Drainage, Irrigation, Fences & Gates, Landscaping. [Division 3]: Concrete Formwork, Concrete Reinforcement, Structural Concrete, Structural Precast Concrete. [Division 4]: Concrete Unit Masonry, Granite. [Division 5]: Metal Joists, Metal Decking, Cold Formed Metal Framing, Metal Fabrications, Metal Stairs, Metal Railings. [Division 6]: Rough Carpentry, Finish Carpentry, Architectural Woodwork, Custom Casework, Plastic Fabrications. [Division 7]: Insulation, Firestopping, Roofing Tiles, Manufactured Roofing & Siding. [Division 8]: Metal Doors, Wood Doors, Sectional Overhead Doors, Entrances & Storefronts, Metal Windows, Hardware, Glass & Glazing. [Division 9]: Lath & Plaster, Drywall/Gypsum, Tile, Terrazzo, Acoustical Ceilings, Resilient Flooring, Carpet, Painting. [Division 10]: Visual Display Boards, Louvers & Vents, Wall & Corner Guards, Flagpoles, Directories, Interior Signs, Lockers, Partitions, Toilet & Bath Accessories. [Division 11]: Vehicle Service Equipment. [Division 12]: Window Treatment. [Division 13]: Pre-Engineered Structures. [Division 14]: Material Handling Systems. [Division 15]: Mechanical Insulation, Fire Protection Systems, Plumbing Fixtures, Water Heaters, Boilers, Cooling Towers, Air Handling, Ductwork, Testing & Balancing. [Division 16]: Service/Distribution, Interior Lighting, Exterior Lighting, Emergency Lighting, Standby Power Generator Systems, Lightning Protection Systems, Alarm & Detection Systems, Electric Radiant Heaters.

## Additional Details

<u>Listed On:</u>	10/10/2017	<u>Floor Area:</u>	129,386 Square Feet
<u>Contract Type:</u>		<u>Work Type:</u>	New
<u>Stage Comments 1:</u>		<u>Floors Below Grade:</u>	
<u>Stage Comments 2:</u>		<u>Owner Type:</u>	County
<u>Bid Date:</u>	11/7/2017	<u>Mandatory Pre Bid Conference:</u>	
<u>Invitation #:</u>	F563501	<u>Commence Date:</u>	1/8/2018
<u>Structures:</u>	2	<u>Completion Date:</u>	5/3/2019
<u>Single Trade Project:</u>		<u>Site Area:</u>	
<u>Floors:</u>		<u>LEED Certification Intent:</u>	
<u>Parent Project ID:</u>		<u>Units:</u>	
<u>Parking Spaces:</u>			

## Project Participants

Company Role	Company Name	Contact Name	Address	Phone	Email	Fax
Architect	Bignell Watkins Hasser Architects (BWH)	Gregory Gilbert	1 Park Pl. Ste. 250, Annapolis, MD 21401	(301) 261-8228	<a href="mailto:ggilbert@bigwaha.com">ggilbert@bigwaha.com</a>	(410) 224-4443
Civil Engineer	Bay Engineering	Nelson Arocho	190 Admiral Cochrane Dr. Ste 175, Annapolis, MD 21401	(410) 897-9290	<a href="mailto:narocho@BayEngineering.com">narocho@BayEngineering.com</a>	(410) 897-9295
Owner	County of Anne Arundel	Rajan Nigam	229 Hanover St., Annapolis, MD 21401	(410) 224-1267	<a href="mailto:pwniga01@aacounty.org">pwniga01@aacounty.org</a>	
Consultant	EBL Engineers	Stephen Smith	8005 Harford Road, Baltimore, MD 21234	(410) 668-8000	<a href="mailto:ssmith@eblengineers.com">ssmith@eblengineers.com</a>	(410) 668-8001
Structural Engineer	Skarda & Associates Inc.	Timothy Sibol	2439 North Charles St., Baltimore, MD 21218	(410) 366-9384	<a href="mailto:tsibol@skardaengineers.com">tsibol@skardaengineers.com</a>	(410) 366-9389
Mechanical and Electrical Engineer	RMF Engineering - York	William Pitz	75 Acco Dr. Ste. A-10, York, PA 17402	(717) 814-5498		(717) 814-5499

## Bidders

Company Name	Contact Name	Added Date	Address	Phone	Email	Bidding Role	Bid Rank	Bid Value	Fax Number
Mid-Atlantic General Contractors, Inc.	Shannon Johnson	10/11/2017	12216 Distribution Place, Beltsville, MD 20705	(301) 937-9003	<a href="mailto:dave@midatlanticgc.com">dave@midatlanticgc.com</a>	Prospective Bidder - General Contractor			(301) 937-9004
FiberPlus Inc.	Susan Green	10/11/2017	8240 Preston Ct. Suite C, Jessup, MD 20794	(301) 317-3300	<a href="mailto:sgreen@fiberplusinc.com">sgreen@fiberplusinc.com</a>	Prospective Bidder - General Contractor			(301) 317-8585
Baltimore Contractors, Inc	Gaile Ricketts	10/11/2017	890 Airport Park Road Suite 100, Glen Burnie, MD 21061	(410) 276-2800	<a href="mailto:info@baltimorecontractors.com">info@baltimorecontractors.com</a>	Prospective Bidder - General Contractor			(410) 276-2821
Keller Brothers	Sarah Mouradian	10/11/2017	1012 Rising Ridge Rd., Mount Airy, MD 21771	(301) 607-9300	<a href="mailto:smouradian@kellerbrothers.com">smouradian@kellerbrothers.com</a>	Prospective Bidder - General Contractor			(301) 607-8577
William F. Klingensmith, Inc.	Marlene Kenney	10/11/2017	7307 Baltimore Ave. Ste. 209, College Park, MD 20740	(301) 699-6070	<a href="mailto:marleneg@wfklingensmith.com">marleneg@wfklingensmith.com</a>	Prospective Bidder - General Contractor			(301) 699-6074
Lewis Contractors	Sean Amberman	10/11/2017	55 Gwynns Mill Court, Owings Mills, MD 21117	(410) 356-4200	<a href="mailto:samberman@lewiscontractors.com">samberman@lewiscontractors.com</a>	Bidder - General Contractor			(410) 356-7732
Scheibel Construction		10/10/2017	115 Prospect Dr., Huntingtown, MD 20639	(301) 855-7900	<a href="mailto:bids@scheibelconstruction.com">bids@scheibelconstruction.com</a>	Bidder - General Contractor			(301) 855-6072
W.L. Gary Co., Inc.	Wade Hale	10/11/2017	225 Vine St., Washington, DC 20012	(202) 723-0676	<a href="mailto:wadeh@wlgary.com">wadeh@wlgary.com</a>	Bidder - General Contractor			(202) 723-4710
E. Pikounis	Caitlin Laverty	10/11/2017	1600 Eastern	(410) 522-	<a href="mailto:info@epcci.co">info@epcci.co</a>	Prospective			(410) 522-

Construction Company, Inc. (EPCCI)		017	Ave., Baltimore, MD 21231	0022	<a href="#">m</a>	Bidder - General Contractor			0708
North Point Builders Inc.	Valerie Pinder	10/11/2017	4210 North Point Blvd., Baltimore, MD 21222	(410) 477-8541	<a href="mailto:VPinder@npbi.com">VPinder@npbi.com</a>	Prospective Bidder - General Contractor			(410) 477-9258
Tech Contracting Co., Inc.	Anna Lamky	10/11/2017	4000 Hudson St., Baltimore, MD 21224	(410) 522-7117	<a href="mailto:alamky@techcontractingco.com">alamky@techcontractingco.com</a>	Prospective Bidder - General Contractor			(410) 276-0217
Mullan Contracting Company	Jennifer Schildtknecht	10/11/2017	2330 W. Joppa Road Ste. 210, Lutherville, MD 21093	(410) 494-9200	<a href="mailto:jschildtknecht@mullanej.com">jschildtknecht@mullanej.com</a>	Prospective Bidder - General Contractor			(410) 494-9688
Concrete Pipe & Precast, LLC	Joe Lynch	10/11/2017	210 Stone Spring Road, Harrisonburg, VA 22801	(800) 999-2278		Prospective Bidder - General Contractor			(540) 434-3364
H & H Contractors	Ray Harris	10/11/2017	1421 Sulphur Spring Rd. P O Box. 7479, Halethorpe, MD 21227	(410) 737-8222	<a href="mailto:hhcontr@aol.com">hhcontr@aol.com</a>	Prospective Bidder - General Contractor			(410) 737-0303
Rainbow Construction Corp.	Kim Guntow	10/11/2017	65 Industrial Park Dr Ste. 100, Waldorf, MD 20601	(301) 843-1018	<a href="mailto:info@rainbowconstructs.com">info@rainbowconstructs.com</a>	Prospective Bidder - General Contractor			(301) 645-8102
Gelberg Signs		10/11/2017	6511 Chillum Place NW, Washington, DC 20012	(202) 882-7733		Prospective Bidder - General Contractor			(202) 882-1580
Alpha Corporation	Brittany Bradley	10/11/2017	21351 Ridgetop Circle Suite 200, Dulles, VA 20166	(703) 450-0800		Prospective Bidder - General Contractor			(703) 450-0043
J. Villa Construction Inc.	Humberto Villa	10/11/2017	2924 Jessup Rd, Jessup, MD 20794	(443) 755-8918	<a href="mailto:estimating@jvillaconstruction.com">estimating@jvillaconstruction.com</a>	Prospective Bidder - General Contractor			(410) 799-1462
D&A Contractors, Inc.	Demetre Ventouris	10/11/2017	8655 Cherry Lane, Laurel, MD 20707	(301) 498-4304	<a href="mailto:office@dacontractors.com">office@dacontractors.com</a>	Prospective Bidder - General Contractor			(301) 498-4307
Ardent Company		10/11/2017	1307 Dolley Madison Blvd, McLean, VA 22101	(703) 288-3250		Prospective Bidder - General Contractor			
Protec Construction Inc.	Vik Singh	10/11/2017	1314 8th St NW, Washington, DC 20001	(202) 232-0080	<a href="mailto:vik@protecconstructioninc.net">vik@protecconstructioninc.net</a>	Prospective Bidder - General Contractor			(202) 232-0092
Dynamic Contracting	Carlos Saldana	10/11/2017	1001 4th St. NW, Washington, DC 20005	(202) 408-5009	<a href="mailto:saldanac@dynamiccontracting.com">saldanac@dynamiccontracting.com</a>	Prospective Bidder - General Contractor			(202) 408-5006
R&S Construction Company Inc	Monica Siopa	10/11/2017	18605 Central Ave, Bowie, MD 20716	(301) 430-0171	<a href="mailto:monica@rscconstructionco.com">monica@rscconstructionco.com</a>	Prospective Bidder - General Contractor			(301) 430-0172
A & S Unlimited Construction	Amel Rustemovic	10/11/2017	15004 Marlboro Pike, Upper Marlboro, MD 20772	(301) 710-4267		Prospective Bidder - General Contractor			

## Planholders

Company Name	Contact Name	Address	Phone	Email	Fax
CT Electrical Corporation	Bob Bell	2500 Coxshire Ln., Davidsonville, MD 21035	(301) 261-3341		
Mark-Lang Inc.	Allison Taylor	6201 Robinwood Rd, Brooklyn, MD 21225	(410) 636-2244	<a href="mailto:ataylor@marklang.com">ataylor@marklang.com</a>	(410) 636-7048

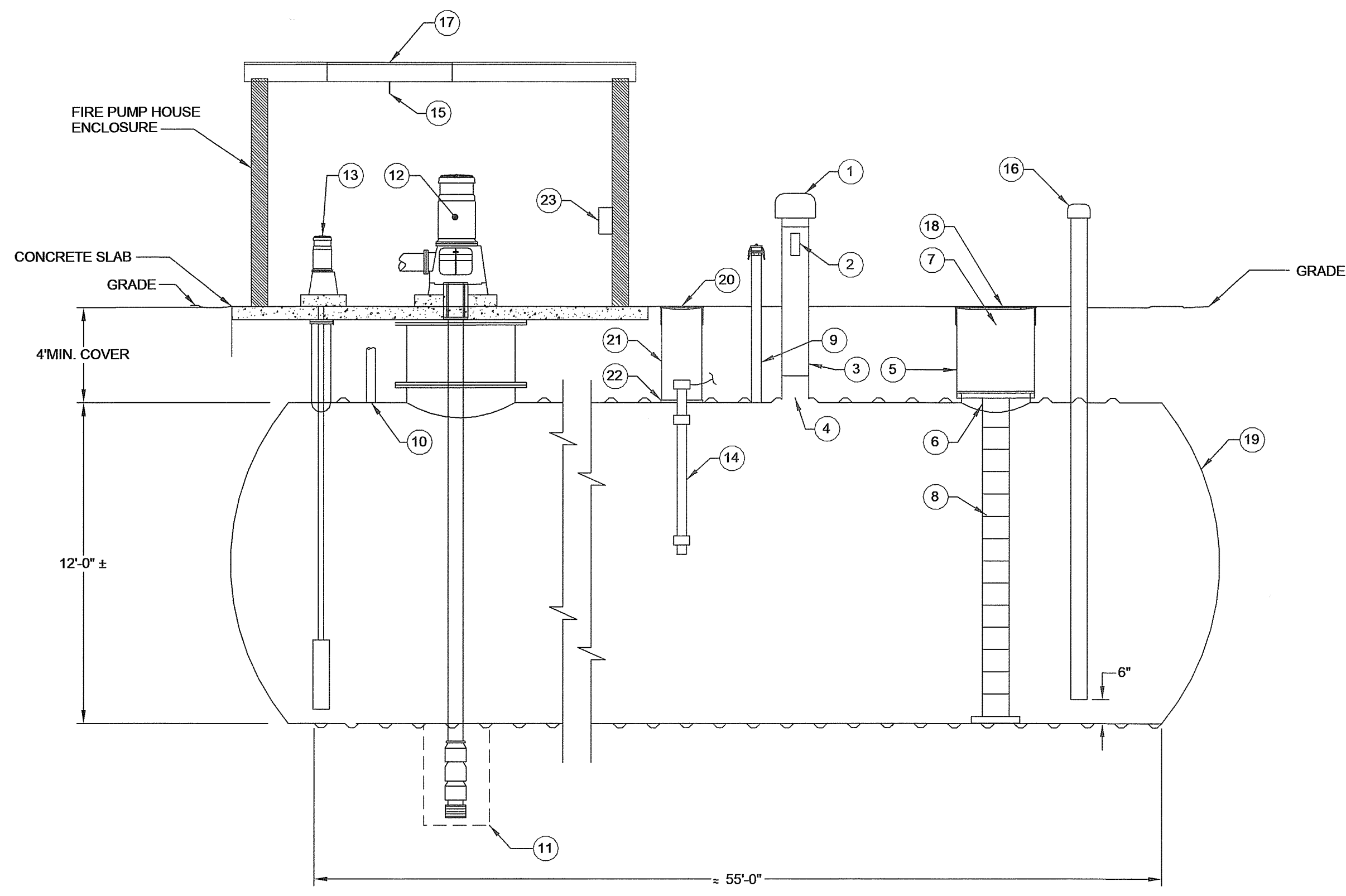
Landmark Science & Engineering	John Gonzales	100 W. Commons Blvd. Ste. 301, New Castle, DE 19720	(302) 323-9377	<a href="mailto:johng@landmark-se.com">johng@landmark-se.com</a>	(302) 323-9461
Davis Bowen & Friedel Inc. - Salisbury	C Coleman	601 E. Main St. Ste. 100, Salisbury, MD 21804	(410) 543-9091	<a href="mailto:dbf@dbfinc.com">dbf@dbfinc.com</a>	(410) 543-4172
Rommel Construction, Inc.		4833 Orange Blossom Ln., Chino, CA 91710	(562) 552-1978		(909) 342-9536
Hardin-Kight Associates, Inc.		Main Office 7524 WB&A Road Suite 100 Glen Burnie,, Glen Burnie, MD 21061	(410) 553-0802	<a href="mailto:ptil@hardin-kightassociates.com">ptil@hardin-kightassociates.com</a>	(410) 553-0808
Walter-Higgins Contracting Inc	Daniel Raines	201 Benton Ave Suite 205, Linthicum, MD 21090	(410) 255-7604	<a href="mailto:info@walter-higgins.com">info@walter-higgins.com</a>	(410) 255-7605
Tyco Integrated Security		9310 Kirby Drive, Houston, TX 77054	(713) 364-0920		

## Contracts

Classification	Conditions	Bonding	Bid Date	Bids To	Bid Type
General Contractor		Bid:5.00%	11/7/2017	Owner	Open Bidding

## History

User	Viewed	First Viewed Date	Currently Tracked?	Date Tracked
Adam Sweet	True	10/16/2017	True	10/16/2017



**FIRE PUMP SUCTION TANK ACCESSORIES AND DETAIL**

NO SCALE

**GENERAL NOTES:**

1. LOW WATER LEVEL ALARM AND THE PUMP BUILDING LOW TEMPERATURE SENSOR TO BE MONITORED BY FIRE ALARM SYSTEM.
2. CONTRACTOR SHALL TEST TANK IN ACCORDANCE WITH THE TANK MANUFACTURER'S REQUIREMENTS PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL PRESSURE TEST TANK AND FITTINGS AFTER INSTALLATION TO A MAXIMUM OF 5 PSI IN ACCORDANCE WITH TANK MANUFACTURER'S REQUIREMENTS.
4. CONTRACTOR SHALL CONDUCT A COMPLETE OPERATIONAL TEST OF THE COMPLETED INSTALLATION IN THE PRESENCE OF THE ANNE ARUNDEL COUNTY FIRE DEPARTMENT PRIOR TO ACCEPTANCE.
5. REFER TO CIVIL/STRUCTURAL DRAWINGS FOR REQUIRED HOLD DOWN SYSTEM, FOUNDATION AND BACKFILL INFORMATION.
6. STRUCTURAL FOUNDATION SYSTEM OF THE PUMP HOUSE SHALL NOT LOAD THE TANK SUCH THAT THE TANK WILL BE DAMAGED. REFER TO STRUCTURAL ENGINEER OF RECORD FOR INFORMATION.
7. CONTRACTOR SHALL VERIFY DRAFT CONNECTION THREAD TYPE WITH ANNE ARUNDEL COUNTY FIRE DEPARTMENT PRIOR TO INSTALLATION OF DRAFT CONNECTION.
8. CONTRACTOR SHALL COORDINATE ALL OUT GRADE OR BELOW GRADE TANK CONNECTION WITH THE FINAL "FINISHED" GRADE.

**DRAWING NOTES:** (APPLIES TO SUCTION TANK ACCESSORIES AND DETAIL ONLY)

- 1 12" PVC VENT CAP WITH SCREEN.
- 2 TANK WATER LEVEL SITE PORT
- 3 8" PVC SCHEDULE 40 COMBINATION TANK VENT AND LEVEL INDICATING DEVICE.
- 4 8" FLANGED AND GUSSETED CONNECTION (FACTORY INSTALLED)
- 5 FLANGED MANWAY (FACTORY INSTALLED)
- 6 FLANGED FIBERGLASS MANWAY EXTENSION PER TANK MANUFACTURER SPECIFICATIONS.
- 7 30" MANWAY RISER PER TANK MANUFACTURER SPECIFICATIONS.
- 8 12" ALUMINUM LADDER (FACTORY INSTALLED).
- 9 4" FILL CONNECTION ASSEMBLY (FACTORY INSTALLED), EXTEND TO 30" ABOVE GRADE AND PROVIDE 2"-2" HOSE CONNECTION.
- 10 2" COPPER (TYPE K) TANK FILL (FACTORY INSTALLED) (FOR REFILL AFTER TEST). 2" FILL SUPPLY FROM WELL HOUSE.
- 11 30" FIBER REINFORCED PLASTIC FLANGED BOTTOM SUMP.
- 12 VERTICAL TURBINE FIRE PUMP. SEE FIRE PUMP SCHEDULE. SIZE SHAFT PER MANUFACTURER'S RECOMMENDATIONS.
- 13 JOCKEY PUMP ASSEMBLY. SEE FIRE PUMP SCHEDULE. SIZE SHAFT PER MANUFACTURER'S RECOMMENDATIONS.
- 14 LOW WATER LIQUID LEVEL FLOAT SWITCH. SIMILAR TO PNEUMATORIC LS600. CONNECTED TO WATER LEVEL TANK MODULE IN THE PUMP HOUSE.
- 15 PUMP BUILDING LOW TEMPERATURE SENSOR CONNECTED TO FACP.
- 16 DRAFT HYDRANT. FIELD COORDINATE.
- 17 PUMP HOUSE ROOF HATCH MINIMUM 4'x8'. CENTER OVER FIRE AND JOCKEY PUMP.
- 18 PROVIDE A HINGE AND LOCKABLE MANWAY COVER. EXTEND ABOVE FINISHED GRADE.
- 19 40,000 GALLON FIBERGLASS WATER STORAGE TANK.

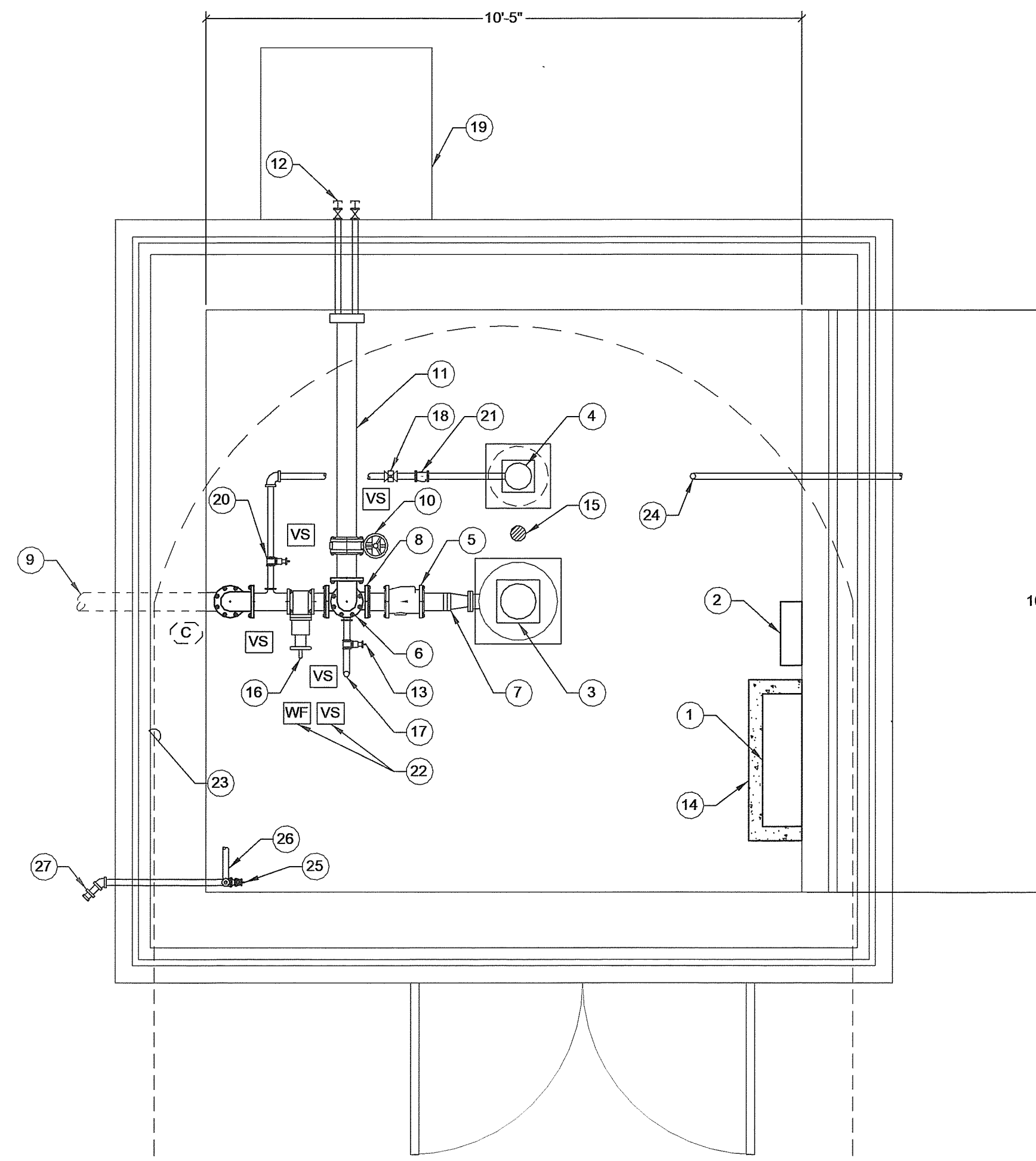
**DRAWING NOTES**

**(CONT.):** (APPLIES TO SUCTION TANK ACCESSORIES AND DETAIL ONLY)

- 20 18" DIAMETER WATER TIGHT MANHOLE COVER PLATE BY FAIRFIELD INDUSTRIES.
- 21 18" DIAMETER MANWAY BY FAIRFIELD INDUSTRIES.
- 22 18" DIAMETER MANHOLE COVER WITH 4" OPENING ATTACHED TO TANK BY FAIRFIELD INDUSTRIES.
- 23 WATER LEVEL CONTROL PANEL SIMILAR TO PNEUMATORIC LC1000. CONNECT TO THE FIRE ALARM SYSTEM.

**FIRE SUPPRESSION UNDERGROUND WATER STORAGE TANK:**

1. THE UNDERGROUND FIRE SUPPRESSION WATER STORAGE TANK SHALL BE USED TO SUPPLY THE NEW BUILDING FIRE PUMP/FIRE SPRINKLER SYSTEMS AND THE FIRE DEPARTMENT SUPPRESSION OPERATIONS.
2. PROVIDE A COMPLETE AND OPERATIONAL UNDERGROUND FIRE PROTECTION WATER STORAGE TANK SYSTEM PER NFPA 22.
3. THE UNDERGROUND FIRE SUPPRESSION WATER STORAGE TANK INSTALLER SHALL PROVIDE ALL EXCAVATION, BACKFILL MATERIALS, INSTALLATION, AND TESTING PER THE TANK MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS, AHJ REQUIREMENTS, AND NATIONALLY RECOGNIZED CODES AND STANDARDS.
4. THE UNDERGROUND FIRE SUPPRESSION WATER STORAGE TANK INSTALLER SHALL PROVIDE THE ANCHORING SYSTEM AS REQUIRED FOR THE TANK AND AS REQUIRED BY THE FIRE SUPPRESSION WATER TANK MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS, AHJ REQUIREMENTS, AND NATIONALLY RECOGNIZED CODES AND STANDARDS.
5. THE UNDERGROUND FIRE SUPPRESSION WATER STORAGE TANK AND ASSOCIATED ANCHORING SYSTEM DESIGN, PROVIDED BY THE TANK MANUFACTURER, SHALL BE SEALED BY A STATE OF MARYLAND LICENSED ENGINEER. A BUOYANCY REQUEST FORM SHALL BE OBTAINED AND COMPLETED BY THE TANK INSTALLER AND SUBMITTED TO THE TANK MANUFACTURER FOR THEIR DESIGN OF THE UNDERGROUND FIRE SUPPRESSION WATER STORAGE TANK ANCHORING SYSTEM, (I.E. DEADMEN, CABLES, ETC.).
6. DEADMEN ANCHORS SHALL BE PROVIDED IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTIONS DESIGN STANDARDS.
7. THE UNDERGROUND FIRE SUPPRESSION WATER STORAGE TANK INSTALLER SHALL OBTAIN ALL REQUIRED PERMITS (I.E. SHIPPING, COUNTY, STATE, ETC.) AS A PART OF THE WORK, AT NO ADDITIONAL COST TO THE OWNER.



**FLOOR PLAN - FIRE PUMP BUILDING**

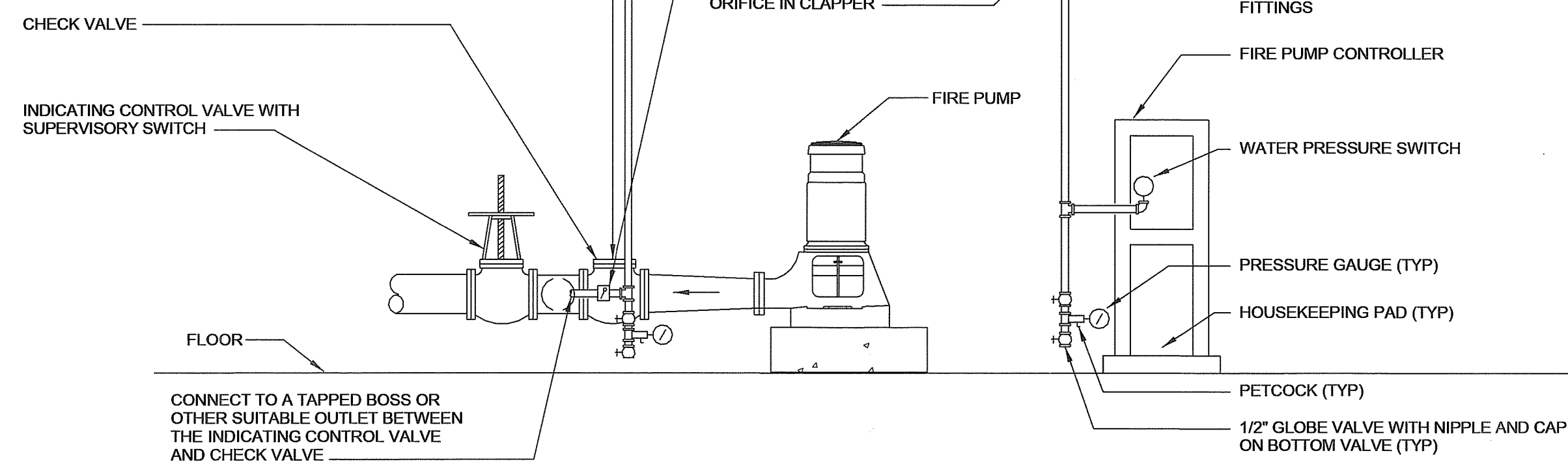
NO SCALE

**FIRE PUMP DESIGN CRITERIA:**

1. PROVIDE A NEW SUPERVISED, AUTOMATIC START/ STOP FIRE PUMP WITH AUTOMATIC START/STOP JOCKEY PUMP PER NFPA 20, CONTRACT DRAWINGS AND SPECIFICATIONS.
2. THE FIRE PUMP SHALL BE SIZED ACCORDING TO THE FIRE PUMP SCHEDULE SHOWN ON THIS SHEET. SIMILAR TO PEERLESS MODEL B1510V-60Hz

PUMP	PUMP TYPE	DRIVER TYPE	DRIVER				RATED PUMP CAPACITY (GPM)	PRESSURE (PSI)
			HP	VOLTS	PH	RPM		
VERTICAL FIRE PUMP	VERTICAL TURBINE	ELECTRIC	25	460	3	1750	300	75
JOCKEY PUMP	VERTICAL	ELECTRIC	5-30	480	3	3550	5	85

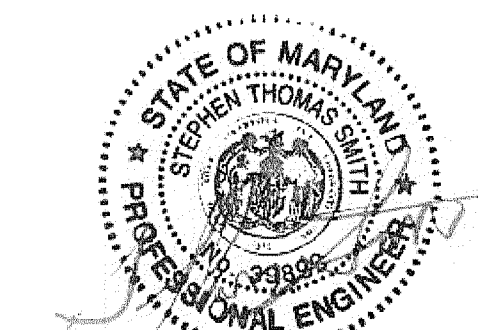
IF WATER PULSATION CAUSES ERRATIC OPERATION OF THE PRESSURE SWITCH OR THE RECORDER, A SUPPLEMENTAL AIR CHAMBER OR PULSATION DAMPER SHALL BE UTILIZED



**FIRE PUMP PRESSURE SENSING LINE SCHEMATIC**

NO SCALE

NOTE: PROVIDE SEPARATE CONTROLLER SENSING LINE FOR THE JOCKEY PUMP CONNECTED TO THE JOCKEY PUMP PIPING.



Professional Certification  
I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland. License No. 39892 Expiration Date 01-25-19

REVISION DESCRIPTION	BY	DATE
BID SET		09/08/17

**Bignell Watkins Hasser**  
ARCHITECTS P.C.  
ONE PARK PLACE, SUITE 200  
ANNAPOLIS, MARYLAND 21403  
TEL: (410) 291-1800  
FAX: (410) 291-1801  
WWW.BWHARCHITECTS.COM

BWH PROJECT NO.: 16010.00

**ANNE ARUNDEL COUNTY**  
**DEPARTMENT OF PUBLIC WORKS**

APPROVED <i>[Signature]</i> DATE 9.21.17 CHIEF ENGINEER	APPROVED <i>[Signature]</i> DATE 9.15.17 PROJECT MANAGER	SCALE: AS SHOWN	A.A.CO. FIRE DEPARTMENT
BID SET	CHECKED BY: RWB/BSTS	DRAWN BY: AHS/JCW	GALESVILLE FIRE STATION
DATE: 09/08/17	APPROVED <i>[Signature]</i> DATE 9/8/17 ASSISTANT CHIEF ENGINEER	APPROVED <i>[Signature]</i> DATE 9/11/17 CHIEF RIGHT OF WAY	FIRE PROTECTION DETAILS FP-602
	SHEET NO.: 81 OF 81	PROJECT NO.: F563500	CONTRACT NO.: F563501

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