



RECREATION AND PARKS

Informal Bid Request

Project:

Boiler Replacement
Greenville Aquatics and Fitness Center
Greenville, NC

Scope of Work:

Provide material, equipment, and labor to remove and replace one boiler and tank at the Greenville Aquatics and Fitness Center.

Special Conditions:

Work must comply with all OSHA safety guidelines.
Contractor responsible for all needed paper work to obtain required permits. All permits must be posted prior to the commencement of work.
Contractor responsible for all work associated within the scope of work.

Work Location:

Greenville Aquatics and Fitness Center
921 Staton Road
Greenville, NC

Bid Submittal Deadline:

Friday, June 9, 2023 @ 2:00 PM

Via email to: mwatson@greenvillenc.gov

INVITATION FOR INFORMAL BID ON

GREENVILLE AQUATICS & FITNESS CENTER BOILER REPLACEMENT

INSTRUCTIONS FOR BIDDERS

The person, firm or corporation making a proposal shall submit a bid to *Mike Watson, Parks Coordinator*, at the Jaycee Park Administrative office located at 2000 Cedar Lane, Greenville N.C., 27835, on or before the hour and day stated on the attached bid request form. The preferred method of delivery of the bid is by email to mwatson@greenvillenc.gov. The bid may also be mailed to the address above but must be received prior to the submittal deadline time and date stated and shall have the words *Bid Enclosed, Boiler - GAFC Attn: Mike Watson* along with the company name on the outside of the envelope.

All mailed bids received in the office will be marked with the date and time they are received by reception staff. Bids will not be opened and read aloud. The bids will be opened and evaluated and a tabulation sheet will be available upon request once the contract is awarded to the successful bidder.

The bidder shall include the required responses and supply all the information as indicated on the Bid Form, Attachment A. The prices inserted shall be net and shall be the full cost including all factors whatsoever. Any bids not submitted on such forms provided will be considered unresponsive.

No bid may be changed or withdrawn after the time of the opening. Any modifications or withdrawals requested before this time shall be acceptable only when such request in writing is made to *Mike Watson, Parks Coordinator*.

The City of Greenville reserves the right to reject any and all bids, to waive any formalities, and to accept the bid or any portion thereof that is deemed most advantageous to the City. Any bid submitted will be binding for 60 days after the opening.

The scope of work attached represents the minimum specification or description of work to be purchased or contracted. These requirements are not intended to prevent fair responses or to eliminate competition, but they are intended for the protection of each and every proposer to insure, if possible, that all bids submitted shall be upon a fair and comparable basis.

It is expressly understood by the bidders that written notice of award and/or receipt of purchase order will constitute agreement by the City to consummate the transaction and will serve together with the proposal, scope of work, and these instructions as the entire form of contract between the parties except in cases where formal contracts are warranted.

All work shall be FOB, Greenville, N. C.

Each bidder shall affirm that no official or employee of the City of Greenville is directly or indirectly interested in this proposal for any reason of personal gain.

Sales taxes may be listed on the proposal, but as a separate item. No charge will be allowed for Federal Excise and Transportation tax from which the City is exempt.

New vendors must register with the City of Greenville's online portal at the following link: [Vendor Self Service \(greenvillenc.gov\)](http://greenvillenc.gov)

Minority and/or Women Business Enterprise (MWBE) Program:

It is the policy of the City of Greenville to provide minorities and women equal opportunity for participating in all aspects of the City's contracting and procurement programs, including but not limited to, construction projects, supplies and materials purchases, and professional and personal service contracts. In accordance with this policy, the City has adopted a Minority and Women Business Enterprise (M/WBE) Plan and subsequent program, outlining verifiable goals.

The City has established a 10% Minority Business Enterprise (MBE) and 6% Women Business Enterprise (WBE) goal for the participation of MWBE firms in supplying goods and services for the completion of this project. All firms submitting bids agree to utilize minority and women-owned firms whenever possible.

Questions regarding the City's MWBE Program should be directed to Tish Williams, MWBE Coordinator, at (252) 329-4462.

Equal Employment Opportunity Clause:

The City of Greenville, NC is an equal opportunity employer and strictly prohibits discrimination against any employee or applicant for employment because of the individual's race, color, religion, age, gender, disability, national origin, genetic information, sexual orientation, gender identity/reassignment or expression, military or veteran status, marital status, or any characteristic protected by applicable law.

TITLE VI NONDISCRIMINATION NOTIFICATION:

The City of Greenville, NC in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 US.C. §§ 2000d to 2000d-4) and the Regulations, hereby 1178814- v4 7 notifies all respondents that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this advertisement and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

Insurance:

The Contractor agrees to purchase at its own expense insurance coverages to satisfy the following minimum requirements. Work under this contract shall not commence until all insurance required as listed has been obtained. Insurance required shall remain in effect through the life of this contract.

1. **Workers' Compensation Insurance:** No contractor or subcontractor may exclude executive officers. Workers Compensation must include all employees

Limits:

Workers Compensation: Statutory for the State of North Carolina.

Employers Liability: Bodily Injury by Accident \$1,000,000 each accident.

Bodily Injury by Disease \$1,000,000 policy limit.

Bodily Injury by Disease \$1,000,000 each employee.

2. **Commercial General Liability:**

Limits:

Each Occurrence: \$1,000,000

Personal and Advertising Injury \$1,000,000

General Aggregate Limit \$2,000,000

Products and Completed Operations Aggregate \$2,000,000

The aggregate limit must apply per project. The form of coverage must be the ISO CG 00 01 policy as approved by the State of North Carolina Department of Insurance. If a form of coverage other than the CG 00 01 is used it must be approved **Contractor**. Any endorsed exclusions or limitations from the standard policy must be clearly stated in writing and attached to the Certificate of Insurance. Completed Operations coverage must be maintained for the period of the applicable statute of limitations. Additionally, the **Contractor** must be added as an Additional Insured to the Commercial General Liability policy.

3. **Commercial Automobile Liability:**

Limits: \$1,000,000 combined single limit.

4. **Cancellation:**

Each certificate of insurance shall bear the provision that the policy cannot be altered or canceled in less than ten (10) days after mailing written notice to the assured of such alteration or cancellation, sent registered mail.

5. **Proof of Carriages:**

- A. The **Contractor** shall provide the City with insurance industry standard ACCORD form Certificate(s) of Insurance on all policies of insurance and renewals thereof in a form(s) acceptable to the City prior to the commencement of services. Said policies shall provide that the City be an additional named insured.
- B. The City shall be notified in writing of any reduction, cancellation, or substantial change of policy or policies at least thirty (30) days prior to the effective date of said action.
- C. All insurance policies shall be issued by responsible companies who are acceptable to the City and licensed and authorized to do business under the laws of North Carolina
- D. Contractor is required to include a copy of a Certificate of Insurance when submitting their bid. Failure to include the required documents may deem the submitted bid unresponsive.

E-VERIFY COMPLIANCE: The Contractor shall comply with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes. Further, if the Contractor utilizes a Subcontractor, the Contractor shall require the Subcontractor to comply with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes. By submitting a proposal, The Proposer represents that their firm and its Subcontractors are in compliance with the requirements of Article 2 Chapter 64 of the North Carolina General Statutes.

IRAN DIVESTMENT ACT: Vendor certifies that: (i) it is not on the Iran Final Divestment List created by the NC State treasurer pursuant to N.C.G.S. 147-86.58; (ii) it will not take any actions causing it to appear on said list during the term of any contract with the City, and (iii) it will not utilize any subcontractor to provide goods and services hereunder that is identified on said list.

The City of Greenville has adopted a Local Preference Policy, Resolution No. 056-13, and a Professional and other Services Policy, Resolution No. 057-13 that may pertain to this project. For more information please see the City of Greenville's webpage at www.greenvillenc.gov/financialservices/purchasingdivision.

Questions regarding any part of this proposal shall be directed via email to Mike Watson, Parks Coordinator, at mwatson@greenvillenc.gov

All emailed and mailed bids shall be submitted on the attached bid submittal form, Attachment A.

Greenville Aquatics and Fitness Center Boiler Replacement

Scope of Work

Scope

Provide equipment, material, and labor to remove the existing boiler and associated components and replace with a new boiler, hot water buffer tank and associated items to connect to existing electrical and piping. The boiler will be located on the second floor mezzanine and is accessible by removing a mechanical opening on the side of the building. Necessary lift equipment will be required to access the opening. All work shall be to industry standards and all applicable codes.

Debris / Demolition

The existing boiler and all associated debris shall be removed and properly disposed of offsite. Follow all rules and regulations for disposal.

Specifications

General Information:

1. Obtain necessary permits. (No permit fee is required from the City of Greenville) Contractors must have all license as required by local, state, and federal agencies to bid on and to perform the work necessary per the scope of work.
2. Contractor shall be responsible for all measurements.
3. The building will remain open as scheduled.
4. Contractor shall be responsible for providing a safe work site at all times.
5. All areas of work shall be cleaned up and any material will need to be out of the way after work is completed for the day.
6. Contractor shall take caution to protect all areas associated with the work. Any damaged area to the site or building shall be repaired before final payment is issued. All ruts in the ground caused during the work shall be backfilled and leveled.
7. *Once work starts, the Contractor shall continue working onsite until all work is completed.*

Site Visits:

8. A mandatory pre-bid meeting will not be required. Contractors are encouraged to visit the site before submitting a bid.
9. The following times are scheduled to access and view the existing boiler:
 - a. Thursday, June 1, 2023 at 10:30AM to 11:00AM
 - b. Friday, June 2, 2023 at 10:00AM to 11:00AM
10. No other times will be scheduled to access the boiler.

Material / Installation:

11. The Contractor shall provide the necessary equipment to remove the existing boiler and for the placement of the new one. A mechanical opening will need to be removed to access the building. Reinstall and sill as needed.
12. Contractor will coordinate with City staff the time of delivery, location of crane or lift and schedule of work.
13. Reconnect the existing piping and electrical services.
14. Start up and test the system to insure proper operation.
15. Provide close out documents to include all manuals and warranty information.
16. The boiler shall be manufactured by Raypack Raytherm or approved equal. See Attachment B for specifications.
17. The hot water buffer tank shall be manufactured by Niles Steel Tank or approve equal. See Attachment B for specifications.
18. The Contractor shall provide material submittals for review and approval prior to ordering material.

Warranty

Provide a standard manufacturer's warranty on all material and equipment and a 2 year warranty from the contractor on all labor and material.

Bid Form

Boiler Replacement – Greenville Aquatics and Fitness Center:

Contractor Name and Address: _____ _____ _____	
Phone Number: _____	Date: _____
<i>Bid Amount:</i>	\$ _____
Addenda: _____	
Submitted by: _____	
Signature: _____	
Certificate of Insurance included: _____	

BIDS ARE DUE BY 2:00 PM FRIDAY, JUNE 9, 2023

ATTACHMENT B



Product Submittal for Hi Delta®- Type H Heating Boiler
Models 992C-2342C

Date: _____ Job: GAFC Location: Greenville, NC
 Equipment Tags: _____ Engineer: _____ Contractor: _____
 Model: _____ Notes: _____
 Prepared by: _____ Indoor Outdoor Gas Type: Natural Gas Propane

- 100% Factory fire-tested
- Thermal efficiency: 84%
- Versa IC® Controller with LCD display
- Maximum setpoint: 220°F (104°C)
- Maximum outlet temperature: 240°F (116°C)
- Minimum non-condensing inlet temperature: 105°F (41°C)
- Thermal shock proof heat exchanger
- Limited 20-year thermal shock warranty
- Limited 10-year heat exchanger warranty (closed-loop)
- Full safety diagnostics with fault history
- Polytuf powder-coated cabinet
- No combustible floor shield required
- Fan-assisted
- Patented burner security blanket
- Cascade up to 8 heaters – no external sequencer needed
- Cascade in parallel or sequential modulation modes
- SCAQMD Rule 1146.2 certified, Low NOx < 20 ppm (992C-2002C)
- Proudly assembled in the USA





Product Submittal for Hi Delta®- Type H

Job: GAFC

Features and Options

Heat Exchanger

- Headers
 - Glass-lined cast iron (standard)
 - A-1 Bronze (optional)
- ASME H-Stamped; 160 PSIG MAWP
- National Board registered
- Fin tubing
 - Copper (standard)
 - A-3 Cupronickel
- ASME steel tube sheet
- Silicone high temp. O-rings
- ASME Pressure relief valve
 - 60 PSIG (standard)
 - ___PSIG (optional)
- T&P Gauge
- Water connections
 - Left-hand (standard)
 - A-6 Right-hand

Power

- 120V, 60Hz, 1Ø, Power supply
- 120/24V, 60Hz, Transformer

Control

- Versa IC® Integrated control
- 100% Shutoff/lockout
- Hot Surface Ignition (HSI)
- Cascade up to 8 heaters
- Parallel and sequential modulation cascade modes
- Water temperature sensors 10kΩ (2 mtd, 3 loose, 1 well)
- Ignition Module
 - 3-Try (standard)
 - C-6 Single-try
- Remote flame sensor
- High limit, manual-reset, fixed 240°F (104°C)
- On/off power switch
- Flow switch
- Blocked vent pressure switch
- Low gas pressure switch, manual-reset
- Combustion air proving switch
- Programmable pump time delays

- Pump outputs
 - Boiler
 - System-pilot duty
 - DHW indirect-pilot duty
- Enable/disable
- LCD Display; status, fault and diagnostics
- Modbus RTU BMS Port (Up to 115K baud rate, see Manual 241515)
 - B-85 – BMS Gateway – BACnet MS/TP, BACnet IP, N2 Metasys or Modbus TCP
 - B-86 – BMS Gateway – LonWorks
- Cold water protection function
 - CWR Variable-speed pump
 - CWS Proportional valve

Gas Train

- Manual gas shutoff valve(s)
- Combo valve(s)
- Firing mode
 - H8 3-Stage (model 992C only)
 - H9 4-Stage (models 1262C-2342C)
- Fuel
 - Natural gas
 - Propane gas (minimum grade HD-5, excludes model 2002C)
 - G-20 4" W.C. NAT supply pressure
- Design Certified - ANSI Z21.13/CSA 4.9

Construction

- Indoor/outdoor construction
- Front controls enclosed
- PolyTuf powder-coat finish CSA low-lead certified (≤ .25% Lead)

Venting

- Vent location
 - Top (standard)
 - D-14 Rear flue exhaust tee
- Vent termination cap
 - D-11 Vent termination, outdoor
 - D-15 Vent termination, sidewall (Cat III)
 - Indoor, vertical (by others)
- Combustion air
 - D-12 Barometric damper w/o thermostich
 - D-16 Air intake elbow
 - D-17 In-line filter kit (TruSeal only)
 - D-18 Boiler vent adapter (Cat III & IV)
 - D-19 Vent termination cap adapter (Cat III & IV)

- D-20 Vent termination vertical (Cat I)
- D-21* Truseal direct vent air intake (factory-installed)
- D-22* Truseal direct vent air intake (field-installed) (*must be used with D-17 inline filter kit)
- D-23 Outdoor vent supports
- D-37 Motorized combustion air damper (field-installed)

Options

- A-20 30 PSIG MAWP
- B-32 Outdoor air sensor
- B-65 Indirect tank aquastat control
- E-5 Alarm with 4" bell
- F-10 Low water cut-off, remote probe
- I-1 Adj. high limit, auto-reset 240°F (115.6°C) max
- I-2 Adj. high limit, manual-reset, 240°F (115.6°C) max
- I-5 Adj. high limit, manual-reset, 200°F (93.3°C) max
- I-13 Adj. high limit, auto-reset, 200°F (93.3°C) max
- M-1 Safety valve, motorized
- M-10 Safety valve, solenoid
- M-15 Gas vent valve (requires either M-1 or M-10)
- P___ Pump: ___ HP, 120V, 1Ø, 60Hz
 - Bronze Cast Iron
 - Mounted Loose
 - Front Rear
- S-2 High gas pressure switch, manual-reset
- X-1 SureRack® Kit
- X-2 SureRack Add-on
- X-3 SureRack restraint brackets
- Z-4 T&P relief valve
- Z-9 Thermometer

Additional Options or Accessories

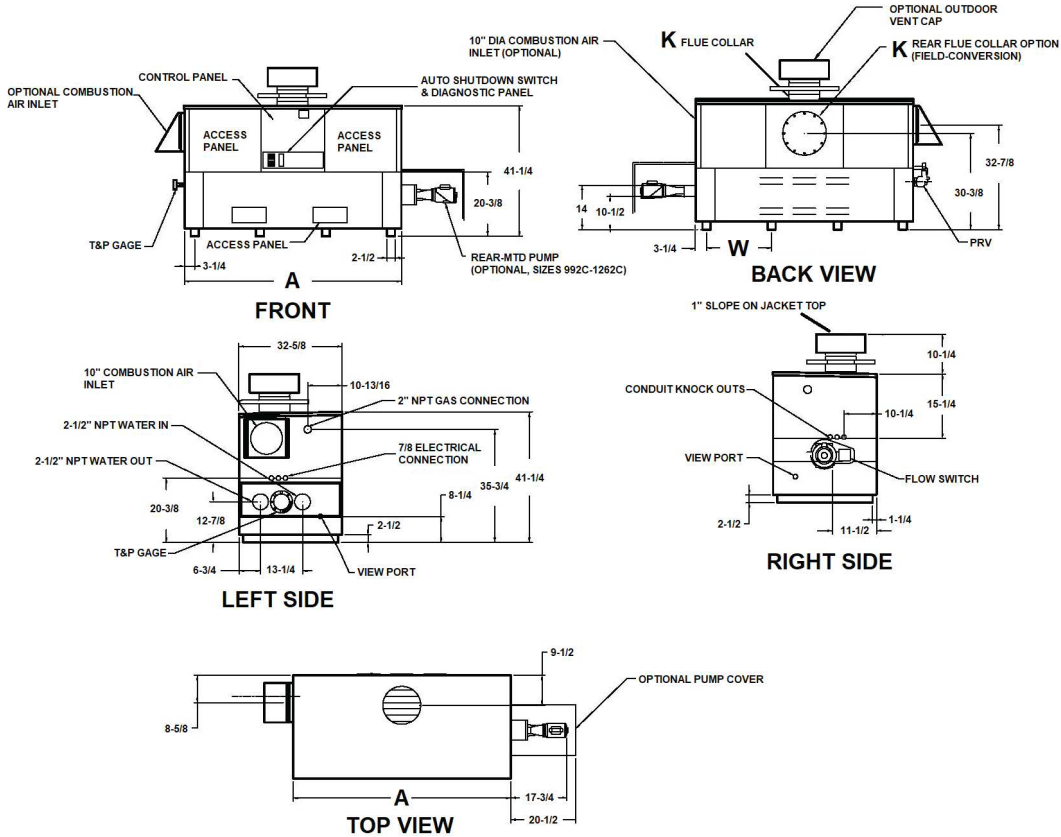
Multi-Boiler Temperature Controllers

- TempTracker Mod+ Hybrid
- B-36, 2-4 Heaters
- B-37, 5-10 Heaters
- B-38, 11-16 Heaters
- B-39* EMS 4-20 mA remote setpoint interface module
- B-62* BACnet MS/TP Interface (*requires B-36 to B-38)



Product Submittal for Hi Delta® - Type H

Job: GAFC



SPECIFICATIONS								
Model	MBTUH (kW)		Dimensions - Inches (mm)					
	Input	Output	Firing Stages	A Width	Flue Collar K	W	Amp. Draw*	Approx. Shipping Wt. Lbs. (Kg)
992C	990 (290)	832 (244)	3	57-1/8 (1451)	10 (254)	16-13/16 (427)	<12	900 (408)
1262C	1260 (369)	1058 (310)	4	68-1/2 (1740)	12 (305)	20-9/16 (522)	<12	1010 (458)
1532C	1530 (448)	1285 (377)	4	79-7/8 (2029)	12 (305)	24-3/8 (619)	<12	1225 (556)
1802C	1800 (528)	1512 (443)	4	91-1/8 (2315)	14 (356)	28-1/8 (714)	<12	1350 (612)
2002C	1999 (586)	1679 (492)	4	102-1/2 (2604)	14 (356)	31-15/16 (811)	<12	1450 (658)
2072C	2070 (607)	1739 (510)	4	102-1/2 (2604)	14 (356)	31-15/16 (811)	<12	1450 (658)
2342C	2340 (689)	1966 (576)	4	113-7/8 (2892)	16 (406)	35-11/16 (902)	<12	1520 (689)

*Without pump

NOTES:

1. Rates shown are for natural or propane gas, and elevations up to 4,500 feet (1372 m). De-rate above 4,500 ft.
2. Required natural gas pressure is 5.0" - 10.5" (178 - 267) WC. Required propane gas pressure is 11 - 13" (279 - 330) WC.

Part No: 241879 Rev. 4

Effective: 09-30-22

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Product Submittal for Hi Delta® - Type H

Job: GAFC

RATES OF FLOW AND PRESSURE DROPS										
Model	20°F ΔT		30°F ΔT		Minimum Flow			Maximum Flow*		
	GPM (L/min)	ΔP (FT.)	GPM (L/min)	ΔP (FT.)	GPM (L/min)	ΔP (FT.)	ΔT °F (°C)	GPM (L/min)	ΔP (FT.)	ΔT °F (°C)
<input checked="" type="checkbox"/> 992C	84 (318)	5.6	56 (212)	2.5	43 (163)	1.5	39 (21.6)	132 (500)	14	13 (7.2)
<input type="checkbox"/> 1262C	107 (406)	10	71 (269)	4.5	54 (205)	2.6	39 (21.6)	132 (500)	15.5	16 (8.8)
<input type="checkbox"/> 1532C	130 (493)	16	86 (326)	7.1	66 (250)	4.1	39 (21.6)	132 (500)	16.5	20 (11.1)
<input type="checkbox"/> 1802C			102 (387)	10.8	78 (296)	6	39 (21.6)	132 (500)	18	23 (12.7)
<input type="checkbox"/> 2002C			113 (428)	14	86 (326)	8.1	39 (21.6)	132 (500)	19.5	26 (14.4)
<input type="checkbox"/> 2072C			117 (443)	15	89 (337)	8.7	39 (21.6)	132 (500)	19.5	27 (14.9)
<input type="checkbox"/> 2342C			132 (500)	21	101 (383)	12	39 (21.6)	132 (500)	21	30 (16.6)

*Basis is 40°F ΔT for minimum flow, 132 GPM for maximum flow.

Raypak, Inc. 2151 Eastman Avenue, Oxnard, CA 93030 (805) 278-5300 www.raypak.com

Part No: 241879 Rev. 4

Effective: 09-30-22

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NST
NILES
STEEL
TANK
SINCE 1898

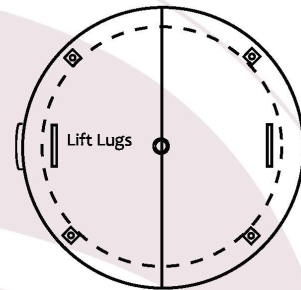
MODEL # CBT-24-072

Design Notes

Code..... ASME Section VIII Div 1
 Design Pressure..... 125 psi
 Test Pressure.....163 psi
 Interior.....None
 Exterior.....Primed Painted
 Supports.....Skirt
 Capacity.....130 Gal.
 Weight..... 375 Lbs.

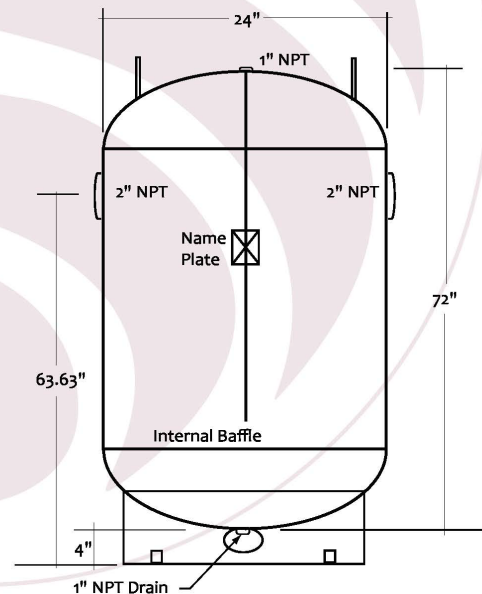
Material Specifications

Heads..... Carbon Steel
 Shell..... Carbon Steel
 Couplings..... Carbon Steel
 Flanges..... N/A
 Pipe..... N/A
 Manway..... N/A



NOTES	

PROJECT	
CUSTOMER	
SCALE	Not to Scale
DATE	
CUSTOMER P.O. #	
DRAWING Rev NO.	



NILES STEEL TANK • 1701 TERMINAL ROAD • PO BOX 728 • NILES • MI • 49120
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