

May 21, 2021

Mr. Neil Angus  
Environmental Planner  
Devens Enterprise Commission  
33 Andrews Parkway  
Devens, MA 01434

Re: **Temporary Pretreatment Filter Placement, Patton Well  
RDA Submission**

Dear Neil:

As discussed, the current Patton treatment system has a systemic problems with iron fouling and will require the installation of three small pretreatment filters to manage the fouling that occurs. The attached diagram shows a modified plan in which we will install these filters on a permeable gravel pad and wrap the piping to protect against UV damage. These filters are temporary in nature and are anticipated to be necessary for approximately 14 months.

The gravel pad will be placed on Mirafi Fabric to allow future removal from this area, and restoration via loam and reseeded. We anticipate working during dry weather during pad placement and anticipate 2 days for construction activity. A small rubber tired or track mounted backhoe/excavator will be used for construction.

#### Operation

Filter operational issues related to the nearby wetlands included the occasional need to backwash these filters. Currently we anticipate backwash cycles for the three new GAC filters to be needed every three months. We will route backwash water using flexible hoses attached to a 10'x6' geobag will be strapped within a frontend loader and held within the bucket during the 60-minute flushing cycles. We anticipate excess water flow through the filter bag and then be allowed to cascade onto the currently paved area/ Anticipated sheet flow will then route to the current gravel system at the edge of the pavement and be infiltrated into the stormwater capture system.

We will notify you of all construction activities and are available to discuss any concerns you may have. We are attempting to construct and install these temporary prefilters as soon as possible to maintain an adequate water supply for the peak summer usage.

Please feel free to call me with any questions.

Sincerely,

WESTON & SAMPSON ENGINEERS, INC.



Blake A. Martin  
Vice President, Water Resources

**DEVENS ENTERPRISE COMMISSION****DEVENS REGIONAL ENTERPRISE ZONE  
PERMIT APPLICATION LEVEL 1**

DEC NO. \_\_\_\_\_

DATE: \_\_\_\_\_

FEE: \_\_\_\_\_

=====

ESTIMATED COST OF CONSTRUCTION / IMPROVEMENTS \$ \_\_\_\_\_

OWNER Mass DevelopmentAPPLICANT Mass Dev. - J.m MooreADDRESS 33 Andrews ParkwayADDRESS 33 Andrews ParkwayTOWN/STATE Devens / MATOWN/STATE Devens / MA

PHONE \_\_\_\_\_

PHONE 978 - 784 - 2931

FAX \_\_\_\_\_

FAX jmoore@massdevelopment.com\_\_\_\_\_  
SIGNATURE\_\_\_\_\_  
SIGNATURE\_\_\_\_\_  
Type or print name and title\_\_\_\_\_  
Type or print name and title

If appropriate, attach a separate sheet with the name(s), address(es), and telephone/fax numbers for the project engineer, attorney, or other "development team" personnel.

SITE / LOCATION / STREET 168 Patton RoadLOT SIZE / TOTAL PARCEL / ZONING DISTRICT: 011.0 - 0099 - 0204.0

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STATEMENT OF PROPOSED WORK OR ACTIVITY: Installation of temporary Pre-Treatment Filters

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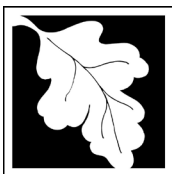
SCOPE OF WORK (pick the actions that best fit your project or application)

☐ Lot Plan - Subdivision☐ Event Police Detail & Fire Notice \*☐ Site Plan☐ One-Day Liquor License  
Police Detail & Fire Notice \*☒ Wetlands RDA / NOI / CoC☐ Liquor License Yearly☐ Sign Permit☐ Food Service Common Victualer☐ Minor amendment or modification of an approved plan☐ Historic district renovations/addition/alternations☐ Certificate of Occupancy☐ Other (Specify) \_\_\_\_\_Explain work to be performed: Temporary Installation of Pre-Treatment Filters

Comments from Notifying Agencies: \_\_\_\_\_

\* Police Detail Required - Call Devens Police 978-772-8800

\* Fire Dept Require Notice - Call Devens Fire Dept 978-772-4600



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

Devens  
City/Town

# WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

## A. General Information

### Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Applicant:

Mass Development - Jim Moore

JMoore@massdevelopment.com

Name

E-Mail Address

33 Andrews Parkway

Mailing Address

Devens

MA

01434

City/Town

State

Zip Code

Phone Number

Fax Number (if applicable)

2. Representative (if any):

Weston & Sampson Engineers, Inc

Firm

Blake A. Martin

martinb@wseinc.com

Contact Name

E-Mail Address

55 Walkers Brook Drive, Suite 100

Mailing Address

Reading

MA

01867

City/Town

State

Zip Code

978-532-1900

Phone Number

Fax Number (if applicable)

## B. Determinations

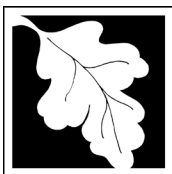
1. I request the Devens Enterprise Comm make the following determination(s). Check any that apply:  
Conservation Commission

- ☐ a. whether the **area** depicted on plan(s) and/or map(s) referenced below is an area subject to jurisdiction of the Wetlands Protection Act.
- ☐ b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced below are accurately delineated.
- ☐ c. whether the **work** depicted on plan(s) referenced below is subject to the Wetlands Protection Act.
- ☒ d. whether the area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any **municipal wetlands ordinance** or **bylaw** of:

Devens

Name of Municipality

- ☐ e. whether the following **scope of alternatives** is adequate for work in the Riverfront Area as depicted on referenced plan(s).



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### C. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

168 Patton Road

Street Address

Devens

City/Town

011.0-0099-0204.0

Assessors Map/Plat Number

Parcel/Lot Number

- b. Area Description (use additional paper, if necessary):

The project area consists of the access road and pump station at the Patton well site. All work will be occurring within previously altered areas located outside of the wetland limit. A portion of the work will be occurring within the 100 foot buffer zone. See Appendix A and Appendix B for maps and plans of the site.

- c. Plan and/or Map Reference(s):

Patton Locus, Receptors, FEMA Maps

Title

8/14/2019

Date

Patton Well GAC Pretreatment Layout

Title

5/19/2021

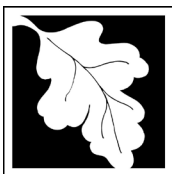
Date

Title

Date

2. a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):

The current Patton treatment system has a systemic problems with iron fouling and will require the installation of three small pretreatment filters to manage the fouling that occurs. The attached diagram (Att B) shows a modified plan in which we will install these filters on a permeable gravel pad and wrap the piping to protect against UV damage. These filters are temporary in nature and are anticipated to be necessary for approximately 14 months.



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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

### C. Project Description (cont.)

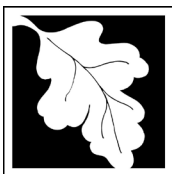
b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

Work will be performed within an approved Limit of Work, which is outside of the 100-year flood plain and outside of all other wetland resources (see Figure 1, Appendix A). Work will occur within NHESP habitat (see Figure 2, Appendix A), however, the applicant has worked with NHESP to secure permit approval for the limit of work.

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- ☐ Single family house on a lot recorded on or before 8/1/96
- ☐ Single family house on a lot recorded after 8/1/96
- ☐ Expansion of an existing structure on a lot recorded after 8/1/96
- ☐ Project, other than a single family house or public project, where the applicant owned the lot before 8/7/96
- ☐ New agriculture or aquaculture project
- ☐ Public project where funds were appropriated prior to 8/7/96
- ☐ Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- ☐ Residential subdivision; institutional, industrial, or commercial project
- ☐ Municipal project
- ☐ District, county, state, or federal government project
- ☐ Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)



**Massachusetts Department of Environmental Protection**  
Bureau of Resource Protection - Wetlands

Devens  
City/Town

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**D. Signatures and Submittal Requirements**

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Name and address of the property owner:

Mass Development

Name

33 Andrews Parkway

Mailing Address

Devens

City/Town

MA

State

01434

Zip Code

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

Signature of Applicant

Date

Signature of Representative (if any)

Date





**FIGURE 1**

MacPherson Well  
Devens Air Force Base

Locus Map

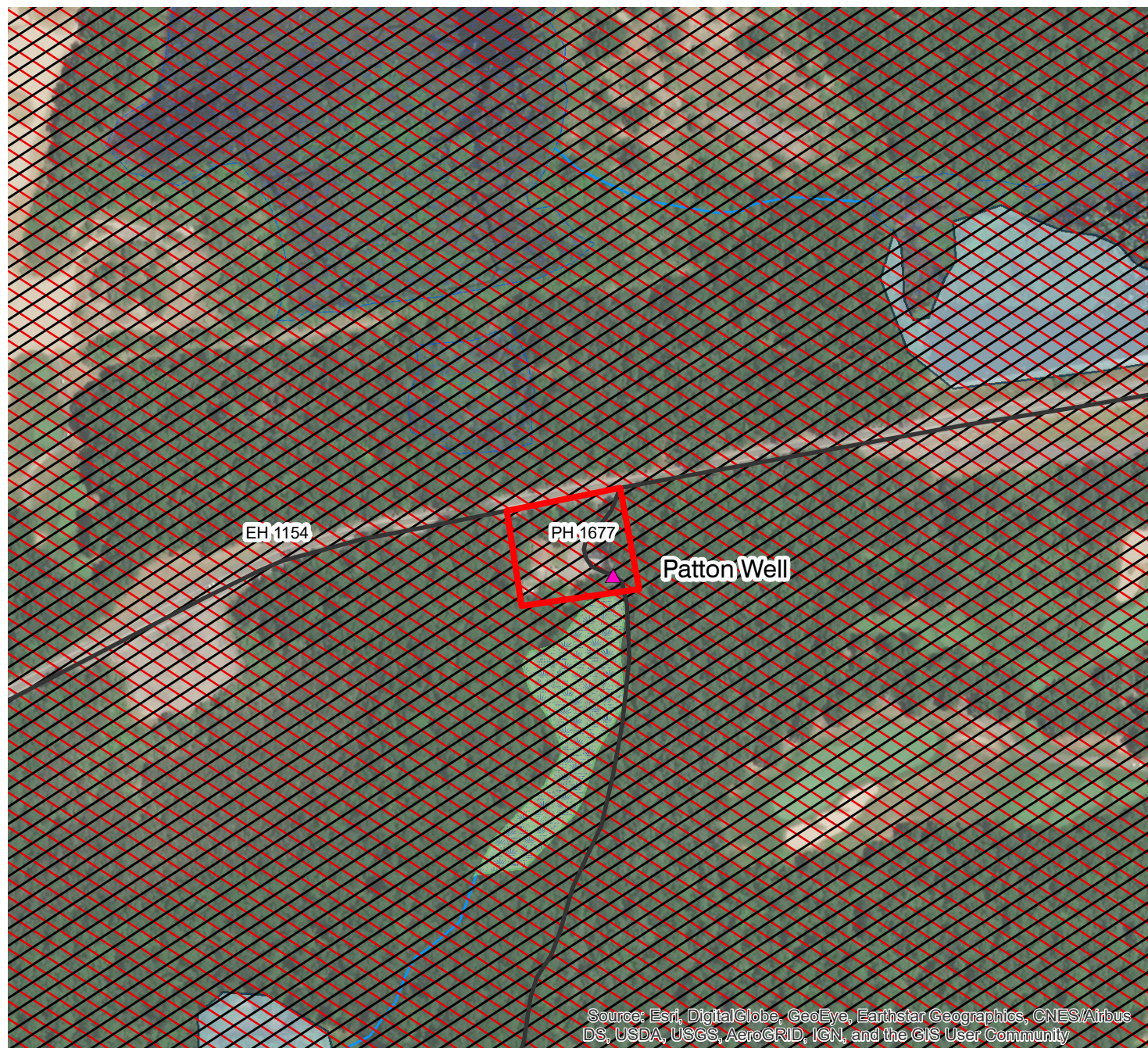
- ▲ Public Water Supply (groundwater)
- Work Area
- MA Towns



1,000 500 0 1,000  
Feet

Data Source: Office of Geographic and Environmental Information (MassGIS),  
Commonwealth of Massachusetts Executive Office of Environmental Affairs





**FIGURE 2**

## Patton Well Devens Air Force Base

### Environmental Receptors

▲ Public Water Supply (groundwater)

□ Work Area

— MassDOT Roads

### ACECs

▨ ACECs

### NHESP Habitats

▨ NHESP Est Habitats of Rare Wildlife

▨ NHESP Priority Habitats of Rare Species

★ NHESP Certified Vernal Pools

### DEP Wetlands

▨ Marsh/Bog

▨ Wooded marsh

▨ Cranberry Bog

▨ Salt Marsh

▨ Open Water

▨ Reservoir (with PWSID)

▨ Tidal Flats

▨ Beach/Dune

— Shoreline

— Hydrologic Connection

--- Mean Low Water Line

--- Wetland Limit

--- Closure Line

— Perennial Stream

— Intermittent Stream

— Channel in Water



100 50 0 100  
Feet

Data Source: Office of Geographic and Environmental Information (MassGIS),  
Commonwealth of Massachusetts Executive Office of Environmental Affairs



# National Flood Hazard Layer FIRMMette



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

|                             |  |   |
|-----------------------------|--|---|
| SPECIAL FLOOD HAZARD AREAS  |  | Without Base Flood Elevation (BFE)<br>Zone A, V, A99  |
|                             |  | With BFE or Depth Zone AE, AO, AH, VE, AR   |
|                             |  | Regulatory Floodway   |
| OTHER AREAS OF FLOOD HAZARD |  | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X |
|                             |  | Future Conditions 1% Annual Chance Flood Hazard Zone X  |
|                             |  | Area with Reduced Flood Risk due to Levee. See Notes. Zone X  |
|                             |  | Area with Flood Risk due to Levee Zone D  |
| OTHER AREAS                 |  | NO SCREEN Area of Minimal Flood Hazard Zone X   |
|                             |  | Effective LOMRs   |
|                             |  | Area of Undetermined Flood Hazard Zone D  |
| GENERAL STRUCTURES          |  | Channel, Culvert, or Storm Sewer  |
|                             |  | Levee, Dike, or Floodwall   |
| OTHER FEATURES              |  | 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation   |
|                             |  | 17.5  |
|                             |  | Coastal Transect  |
|                             |  | Base Flood Elevation Line (BFE)   |
|                             |  | Limit of Study  |
|                             |  | Jurisdiction Boundary   |
|                             |  | Coastal Transect Baseline   |
| MAP PANELS                  |  | Digital Data Available  |
|                             |  | No Digital Data Available   |
|                             |  | Unmapped  |
|                             |  | The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.                              |



42°32'0.43"N  
71°36'40.45"W



USGS The National Map: Orthoimagery. Data refreshed April, 2019.

0 250 500 1,000 1,500 2,000 Feet 1:6,000

42°31'33.92"N

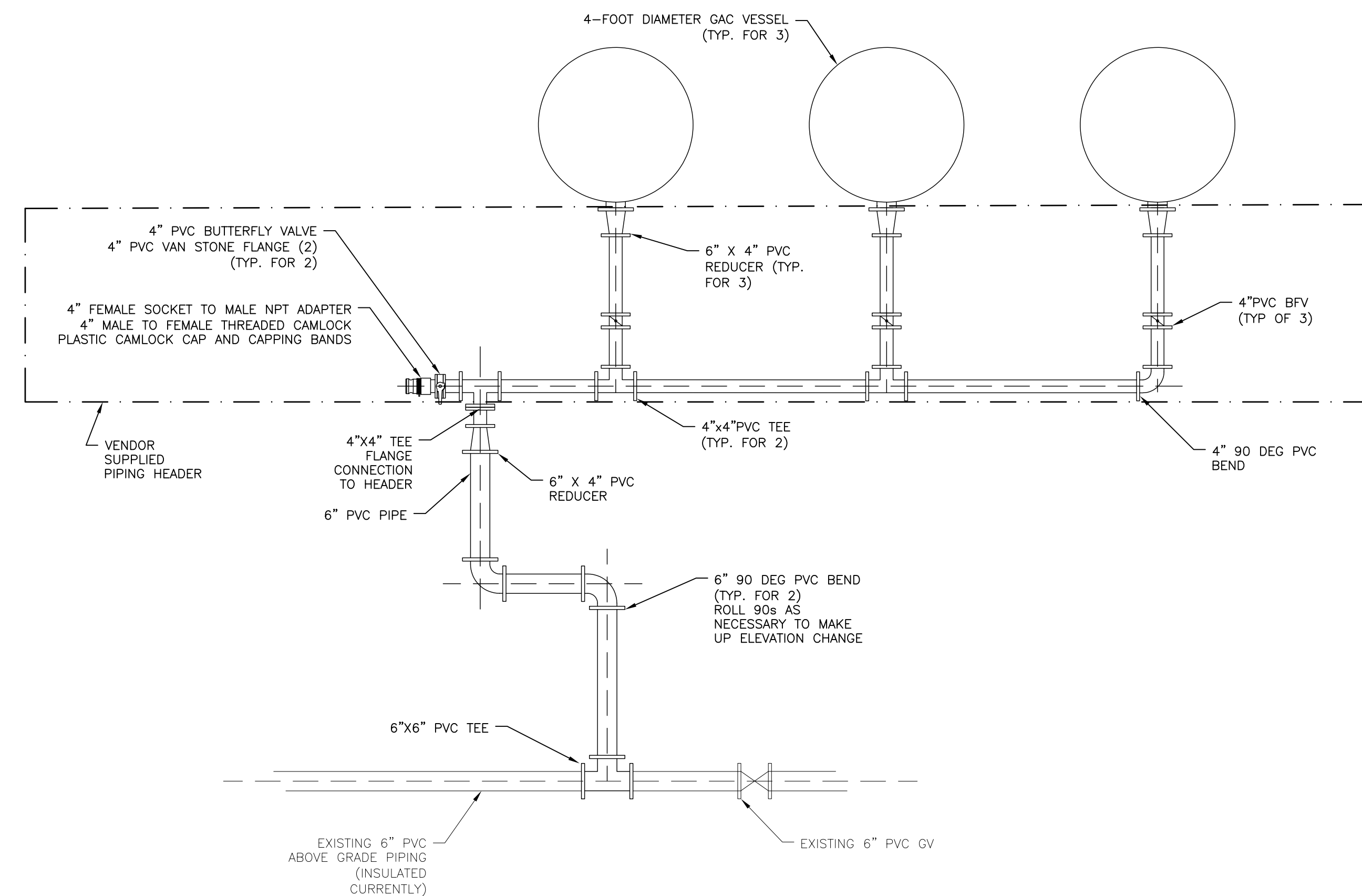
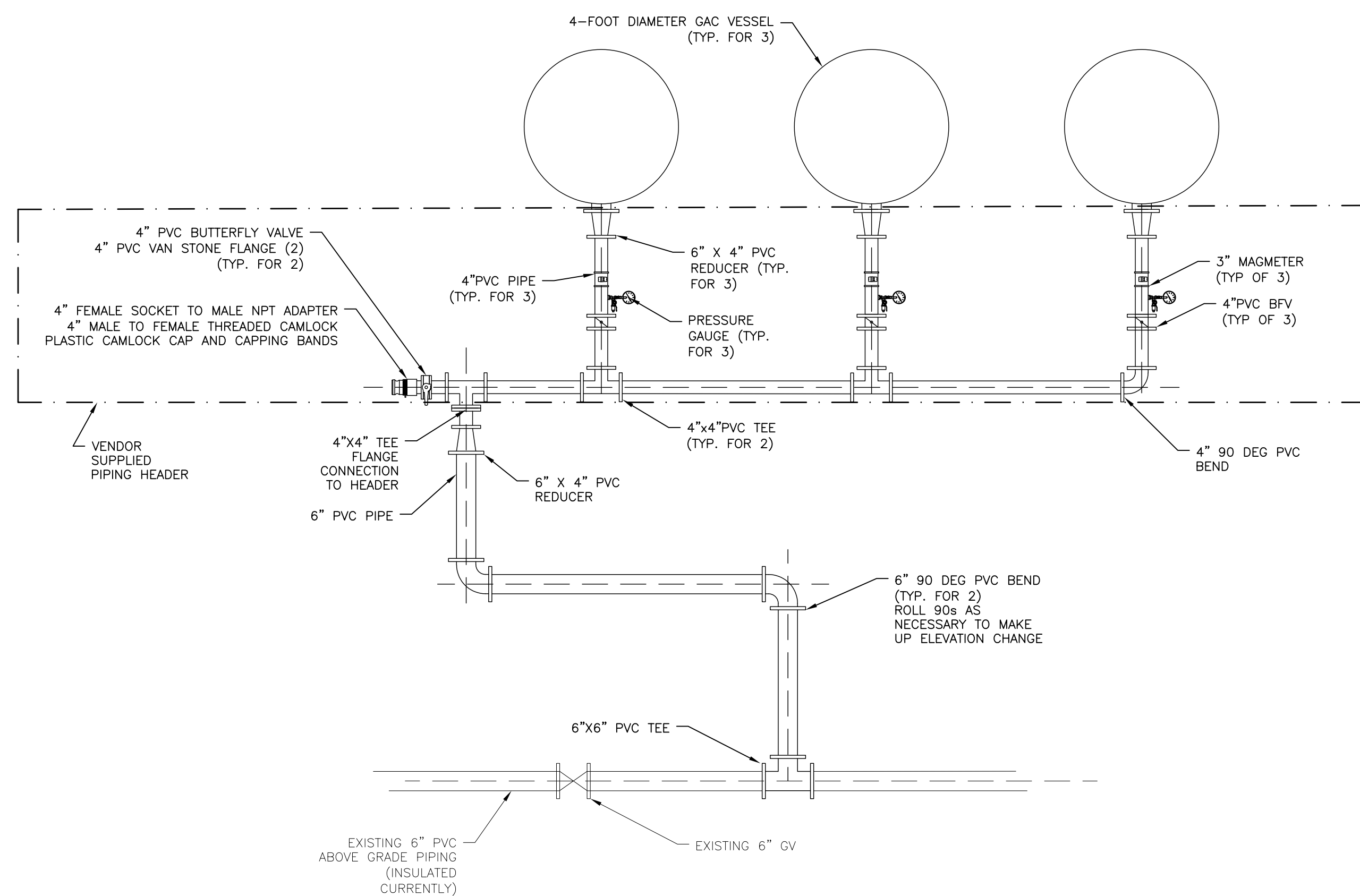
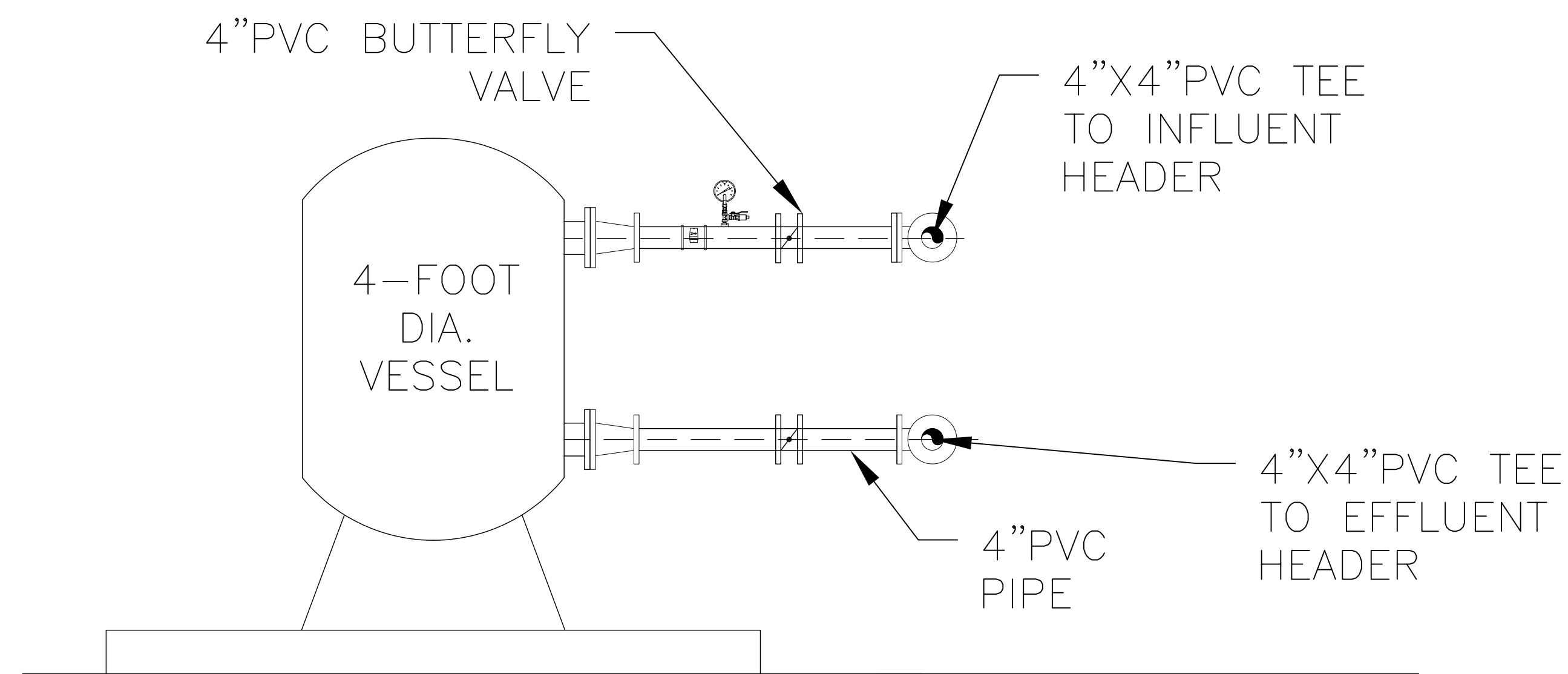
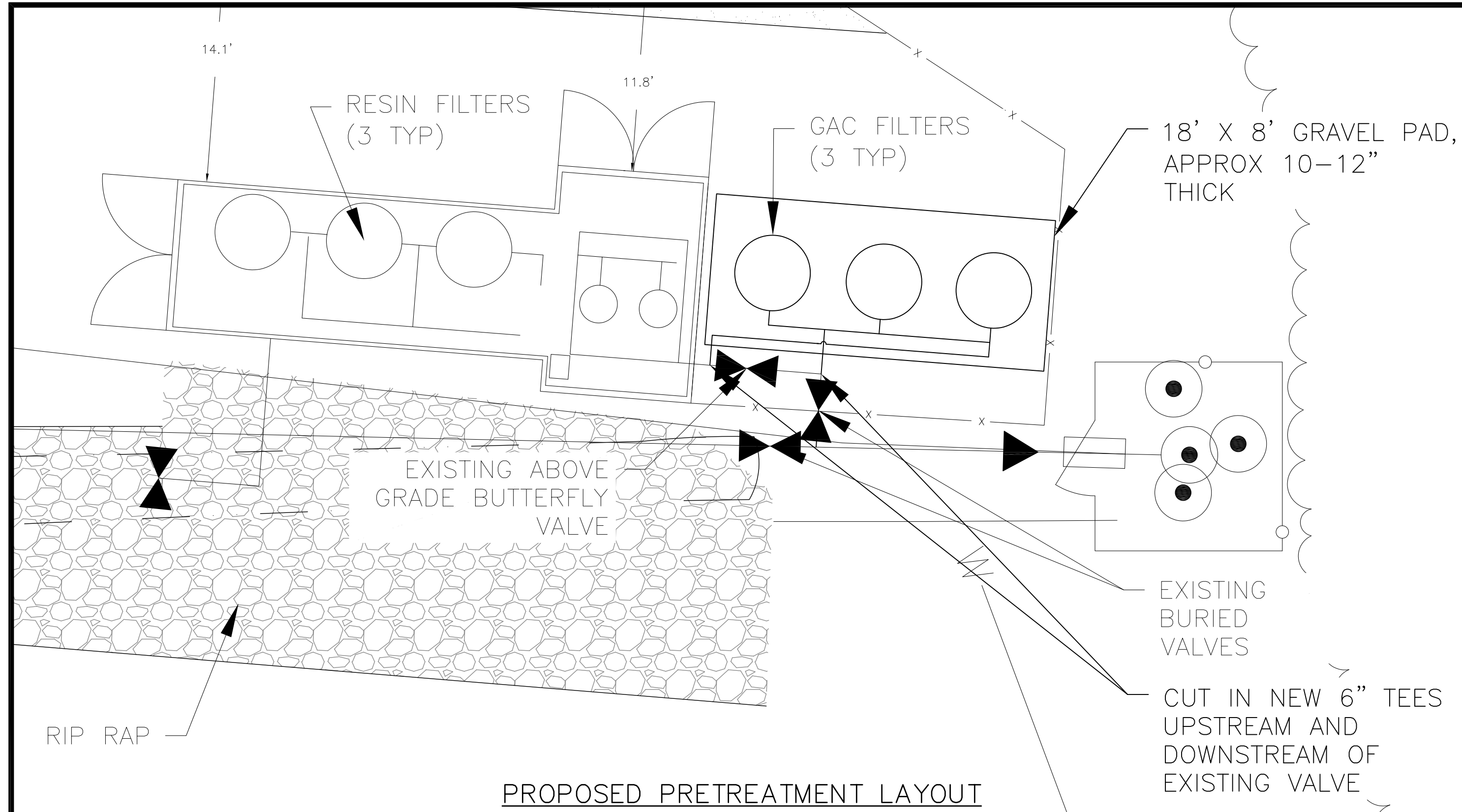
71°36'3.00"W

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **7/12/2019 at 1:02:30 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.





PATTON WELL SITE PRETREATMENT LAYOUT  
SCALE: N.T.S.

| No.                              | Date | Dr. By | A | P | P | R | O | V | E | D | Description |
|----------------------------------|------|--------|---|---|---|---|---|---|---|---|-------------|
|                                  |      |        |   |   |   |   |   |   |   |   |             |
| REGISTERED PROFESSIONAL ENGINEER |      |        |   |   |   |   |   |   |   |   | DATE        |

|  |  |  |  |  |  |  |  |  |  |  |
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|  |        |           |         |       |        |        |        |  |  |  |
|--|--------|-----------|---------|-------|--------|--------|--------|--|--|--|
| DEVENS, MASSACHUSETTS<br>MASSACHUSETTS DEVELOPMENT, UTILITIES DEPARTMENT |        |           |         |       |        |        |        |  |  |  |
| DEVENS TEMPORARY PFAS TREATMENT  |        |           |         |       |        |        |        |  |  |  |
| PATTON WELL DEMONSTRATION FILTERS<br>PRETREATMENT LAYOUT                 |        |           |         |       |        |        |        |  |  |  |
| CADD NO.   | SCALE: | CONTRACT: | JOB NO. | DR.BY | DSN.BY | CHK.BY | APP.BY |  |  |  |

|          |     |
|----------|-----|
| FILE NO. | M-7 |
|----------|-----|