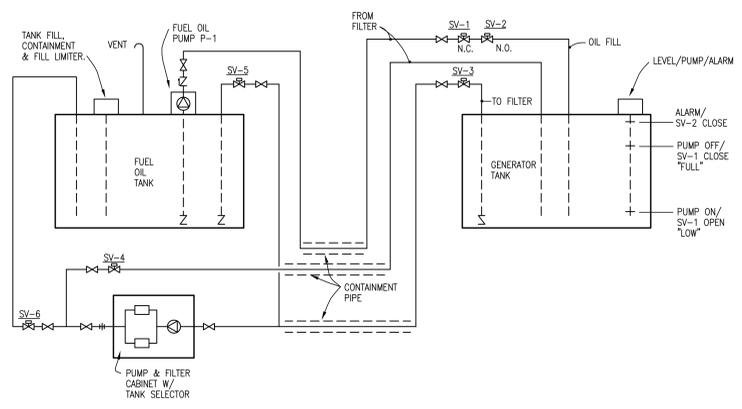


three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot



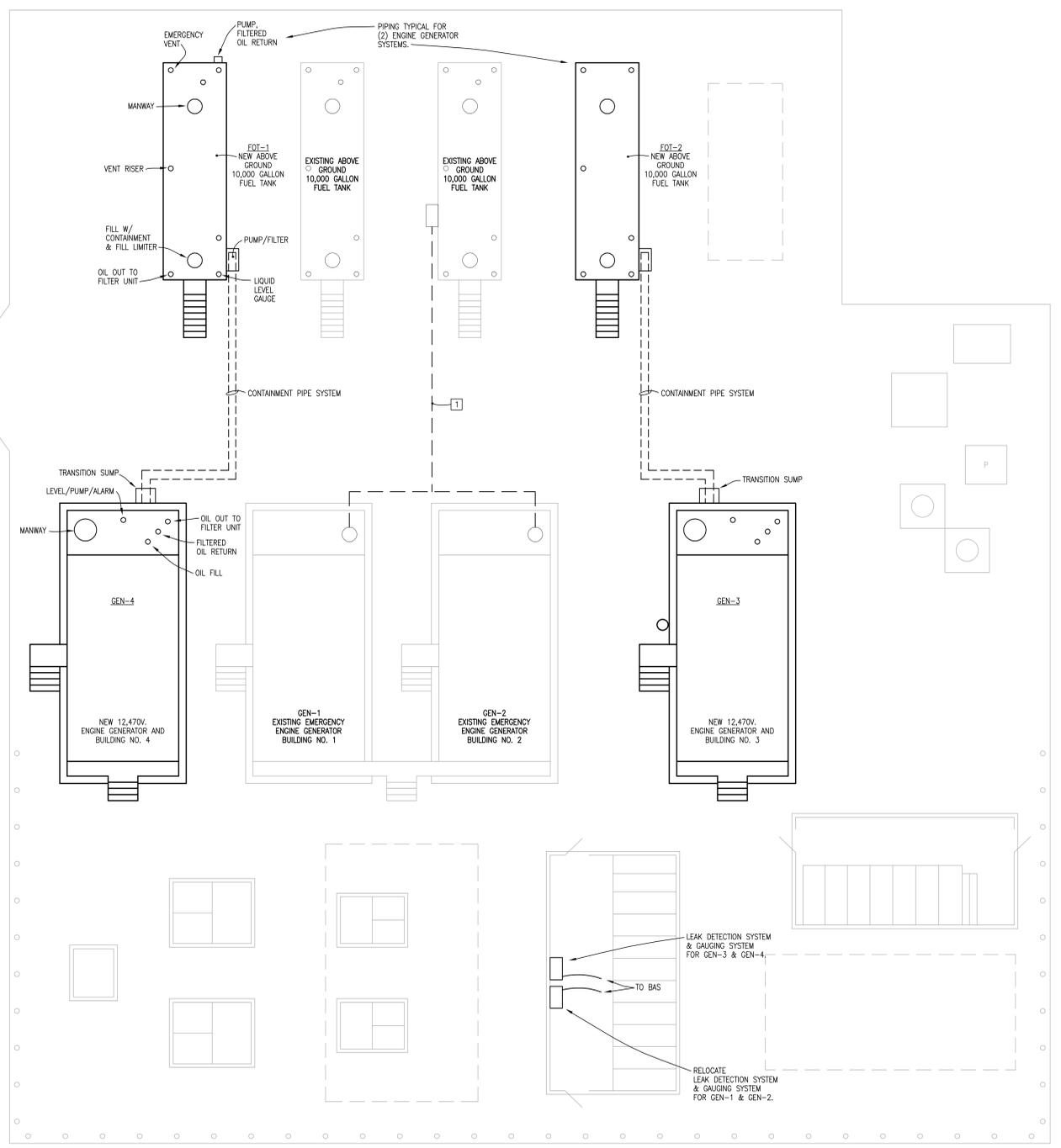
**1 FUEL OIL SCHEMATIC**  
 MP-110 SCALE: NONE

- NOTES:**
1. ALL PIPES SHALL BE 1-1/2" BLACK STEEL, SCH. 80.
  2. ALL PIPES IN GROUND SHALL BE DOUBLE WALLED CONTAINMENT TYPE WITH LEAK DETECTION.
- SEQUENCE OF OPERATION:**
1. SV-4/SV-6 & SV-3/SV-5 SHALL ALTERNATE OPEN/CLOSED ON TIME CYCLE TO PROVIDE FILTRATION OF OIL IN BOTH TANKS.
  2. WHEN OIL LEVEL IN GENERATOR TANK FALLS TO "LOW" LEVEL, SV-1 OPENS & PUMP P-1 STARTS.
  3. WHEN OIL LEVEL IN GENERATOR TANK REACHES "FULL" LEVEL, SV-1 CLOSES & PUMP P-1 STOPS.
  4. SHOULD GENERATOR TANK OIL LEVEL REACH ALARM LEVEL, SV-2 SHALL CLOSE & AN ALARM SHALL SOUND.



**2 EXISTING GENERATOR OIL FILL (TYPICAL 2)**  
 MP-110 SCALE: NONE

- KEYED NOTES:**
- 1 AFTER INSTALLATION OF GENERATORS 3 & 4, AND THEY ARE OPERATIONAL, UPGRADE THE TRANSFER & FILL SYSTEM TO GENERATORS 1 & 2. WORK SHALL INCLUDE:
    - A) ADDITION OF THREADED OUTLETS TO BELLY TANKS.
    - B) NEW CONTAINMENT PIPES BETWEEN BULK TANKS & GENERATOR TANKS.
    - C) ADDITION OF AUTOMATIC FILL CONTROL DEVICES TO BELLY TANKS ON GENERATORS 1 & 2 TO REPLACE HAND NOZZLE.
    - D) ADDITION OF LEAK DETECTION TO CONTAINMENT PIPES.



- NOTES:**
1. ALL INGROUND PIPES TO BE DOUBLE WALL WITH LEAK DETECTION.

**FUEL OIL PIPING -- SERVICE EQUIPMENT YARD**  
 SCALE: 1/8" = 1'-0"



Revisions	Date

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Architect Project No. 001-10017-006

**Drawing Title**  
 FUEL OIL SYSTEM FOR SERVICE EQUIPMENT YARD AREA F

Approved Project Director  
  
 FRED A. WEBB

**Project Title**  
 UTILITY UPGRADES PHASE 2

**Project Number**  
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**Building Number**

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**Checked**  
 CRM

**Drawn**  
 DJW

**Dwg. 57 of 95**

**Office of Construction and Facilities Management**

**Department of Veterans Affairs**