

2001.08.06 HW  
minor mod

File

**New York State Department of Environmental Conservation**  
**Division of Environmental Permits, Region 4**

1150 North Westcott Road, Schenectady, New York 12306-2014

Phone: (518) 357-2069 • FAX: (518) 357-2460

Website: [www.dec.state.ny.us](http://www.dec.state.ny.us)



Mr. William Morris  
Vice President, Environmental Affairs  
Norlite Corporation  
628 South Saratoga Street  
P.O. Box 694  
Cohoes, New York, 12110

August 6, 2004

Subject: Part 373 HW/APC Permit Modification to revise the April 20, 2004 approval to install agitators on tanks 335-300, 400 & 500

Reference: DEC #4-0103-16/16-0  
373 HW/APC Permit  
Norlite Corporation  
Cohoes(C), Albany County

Dear Mr. Morris,

The Department has received & reviewed your June 30, 2004 letter requesting to revise the permit modification granted on April 20, 2004 to install agitators on tanks 335-300, 400 & 500. Norlite is proposing to reduce the nozzle projection from 24" to 12" and to install two 6" nozzles (H & I) on tanks 335-300, 400 & 500. The Department is hereby revising the permit modification granted on April 20, 2004 and re-issuing the approval letter with the following conditions:

1. Agitators are to be installed & operated as per the "Technical Evaluation/Selection Report for Low Grade Fuel Tanks # 335-300, 400, 500 & 600" & June 30, 2004 submission. Installation of these agitators shall be completed such that their certifications as required by condition #5 below are to be submitted to the Department on or before March 31, 2005.
2. The agitators shall be operated at least two hours prior to feeding Liquid Low Grade Fuel (LLGF) to the Light Weight Aggregate Kilns (LWAK) #1 & #2 from these tanks. Norlite shall maintain appropriate records (such as operation log sheets) to demonstrate compliance with this condition.
3. Prior to installing the agitators, Norlite shall perform an internal inspection of the above tanks to ensure that tanks are free from rust, pitting, leaking & bulging etc., and are fit for

storing LLGF and will not collapse or fail upon installing the agitators. Such inspection shall be performed by an independent NYS Professional Engineer qualified & experienced in performing these types of inspections.

4. Prior to installing agitators on tank 335-300, Norlite shall perform Estabrook EZY 3 Locator Plus test for tank tightness as recommended by NYSDEC SPOTS #2 memorandum.
5. Norlite shall notify the Department in writing that agitators are installed as per "Technical Evaluation/Selection Report for Low Grade Fuel Tanks # 335-300, 400, 500 & 600" and that inspection & testing have been performed as required by item #3 & 4 above and the tanks were found to be fit for storing LLGF and will not collapse or fail upon installing the agitators. This assessment shall be signed by an independent NYS Professional Engineer qualified & experienced in performing such tasks.

Upon submitting the notification to the Department under item #5 above, Norlite must insert the "Technical Evaluation/Selection Report for Low Grade Fuel Tanks # 335-300, 400, 500 & 600" along with revised drawing # NY003-5433 and notification at the end of the Section D of the existing 373 HW/APC Permit, DEC #4-0103-16/16-0. These documents then become part of the permit. If you have any questions, please contact Mr. Parag Amin at (518) 402-8609.

Sincerely yours,



William J. Clarke  
Regional Permit Administrator  
Region 4

Norlite-revmixer-permit-mod-862004.wpd

CC: C. VanGuilder, R4  
H. Brezner, R4  
P. Counterman, CO  
S. Chetty, CO  
P. Amin, CO

# Norlite Corporation



June 30, 2004

628 SO. SARATOGA ST.  
P.O. BOX 694  
COHOES, NY 12047  
PHONE (518) 235-0401  
FAX (518) 235-0233

Mr. William J. Clarke  
Regional Permit Administrator  
New York State Department of Environmental Conservation  
Region 4  
1150 North Wescott Road  
Schenectady, NY 12306-2014

CERTIFIED MAIL#: 70031010000526496493  
RETURN RECEIPT REQUESTED

Re: Part 373 HW/APC Permit Modification approval dated April 20, 2004 to  
install agitators on tanks 335-300, 400, 500 & 600.

Dear Mr. Clarke:

On April 20, 2004, the NYSDEC (the "Department") approved the Norlite Corporation's (Norlite) permit modification for the addition of agitators to tanks 335-300, 400, 500 and 600. In the approval letter, the Department specified a timeline (Condition #5) for the installation of agitators to each of the tanks. On May 12, 2004, Norlite notified the Department that the agitator installation was complete on tank 335-600.

Due to the additional MACT testing that was conducted in June 2004, Norlite was unable to install the agitators on the next tank and will not meet the installation deadline of June 30, 2004.

Additionally, Norlite has revised drawing number NY003-5433 to show a reduced nozzle projection for the agitators, (A&C) to 12" instead of 24", added a new 6" nozzle (H) for the level transmitters and added a new 6" nozzle (I) for the unloading area fill line/recirculation line from the kiln burners. This drawing was included in the "Technical Evaluation/Selection Report for LGF Blending Mixers" which was submitted to the Department on February 11, 2004. The changes to the drawing have been discussed with Mr. Parag Amin and he indicated submitting the revised drawing would suffice and Norlite would not be required to resubmit the complete report. The revised drawing is enclosed so the Department can insert it into the report.

Due to this change, Norlite is requesting the remaining installation deadline dates be suspended until the revised drawing has been approved, hence setting new installation dates for the remaining three tanks.

Should you have any questions regarding this letter, please contact me at (518) 235-0401.

Sincerely,

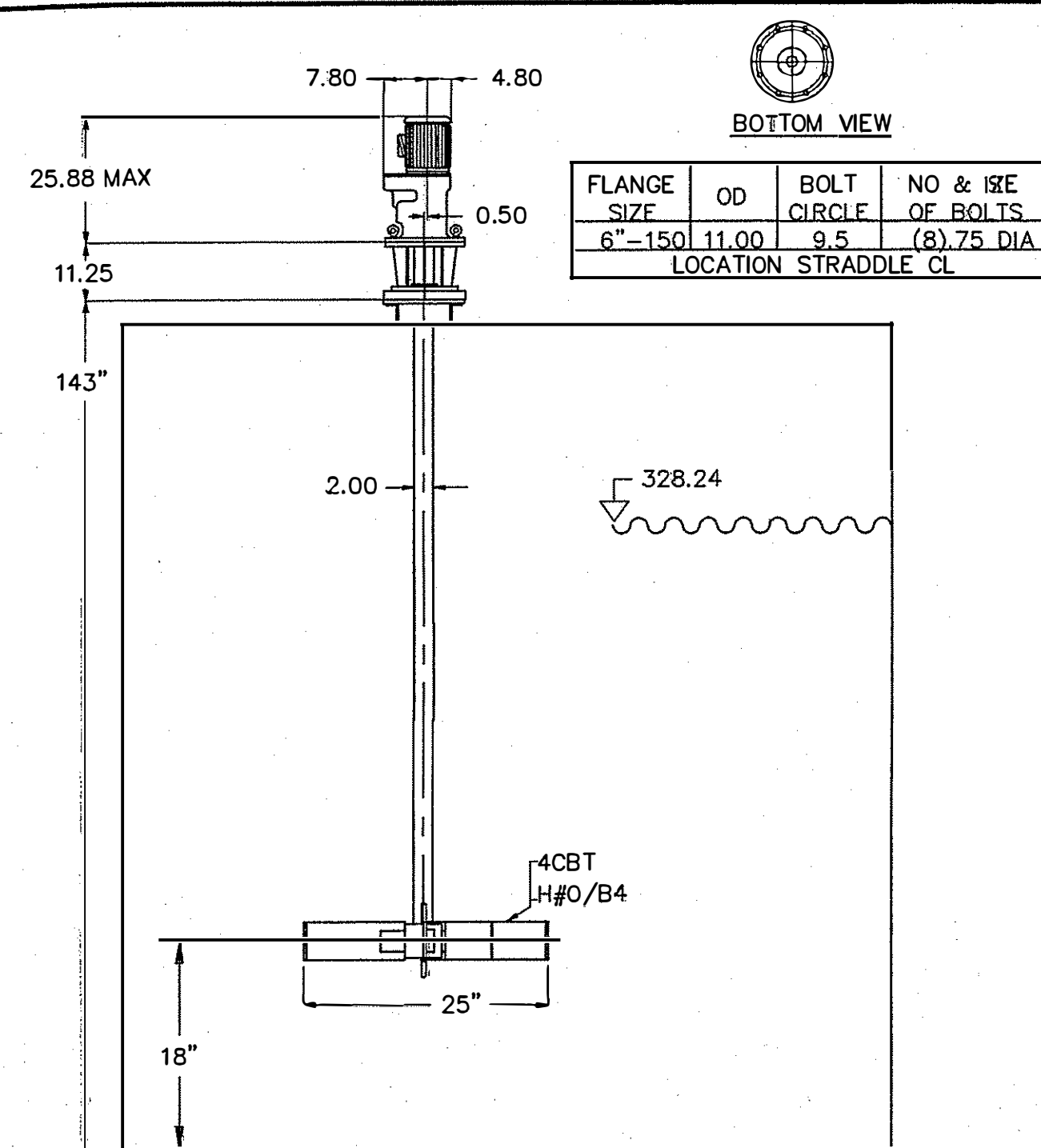
Thomas J. Sullivan  
Environmental Manager

Enclosure-Drawing NY003-5433

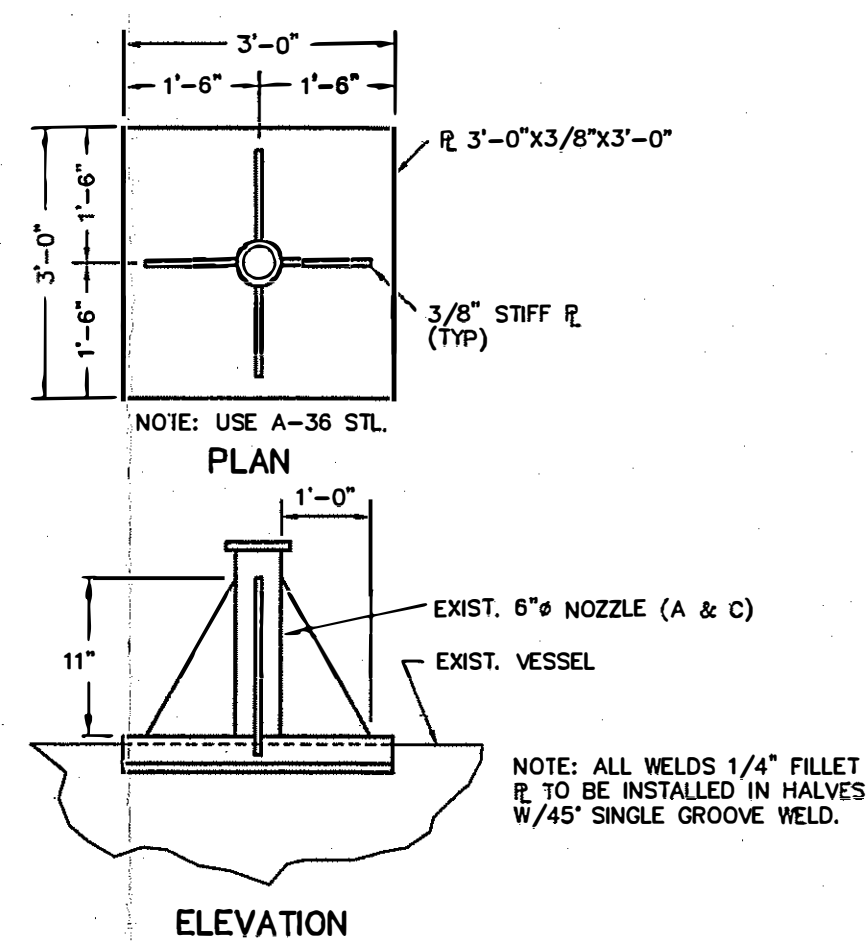
cc: Parag Amin, NYSDEC-Central Office w/ enclosure







AGITATOR DETAIL  
SCALE: NONE

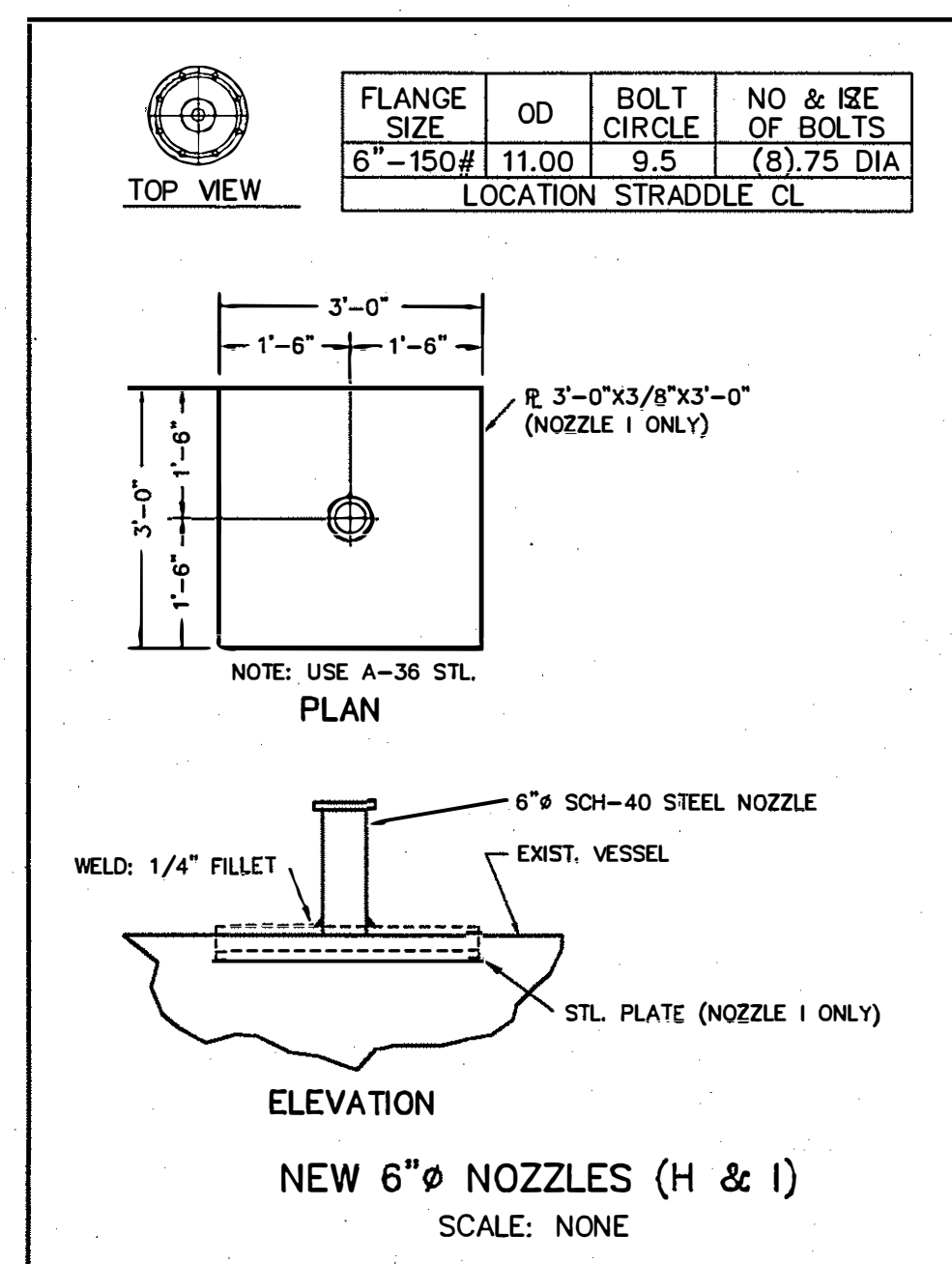


NOZZLE UPGRADE DETAIL  
SCALE: NONE

FIELD VERIFICATION REQUIRED ON TANK/NOZZLE DIMENSIONS.

| FUTURE NOZZLE INSTALLATION MODIFICATIONS |          |            |   |
|--|----------|------------|---|
| ID.                                      | DIAMETER | PROJECTION | FUNCTION  |
| A  | 6"       | 12"        | AGITATOR  |
| B  | 24"      | 24"        | LGF SUCTION/FILL LINE<br>TEMPERATURE TRANSMITTER<br>RECIRCULATION LINE<br>TANK VENT |
| C  | 6"       | 12"        | AGITATOR  |
| D  | 6"       | 24"        | RUPTURE DISK/OVERFLOW   |
| E  | 6"       | 24"        | N <sub>2</sub> INLET / PRESSURE INDICATOR   |
| F  | 4"       | UNKNOWN    | SEALED  |
| G  | UNKNOWN  | UNKNOWN    | INSPECTION MANHOLE (SEALED)   |
| H  | 6"       | 24"        | LEVEL TRANSMITTER   |
| I  | 6"       | 24"        | UNLOADING AREA FILL LINE /<br>RECIRCULATION FROM KILN BURNERS                       |

FUTURE INSTALLATION



NEW 6" NOZZLES (H & I)  
SCALE: NONE

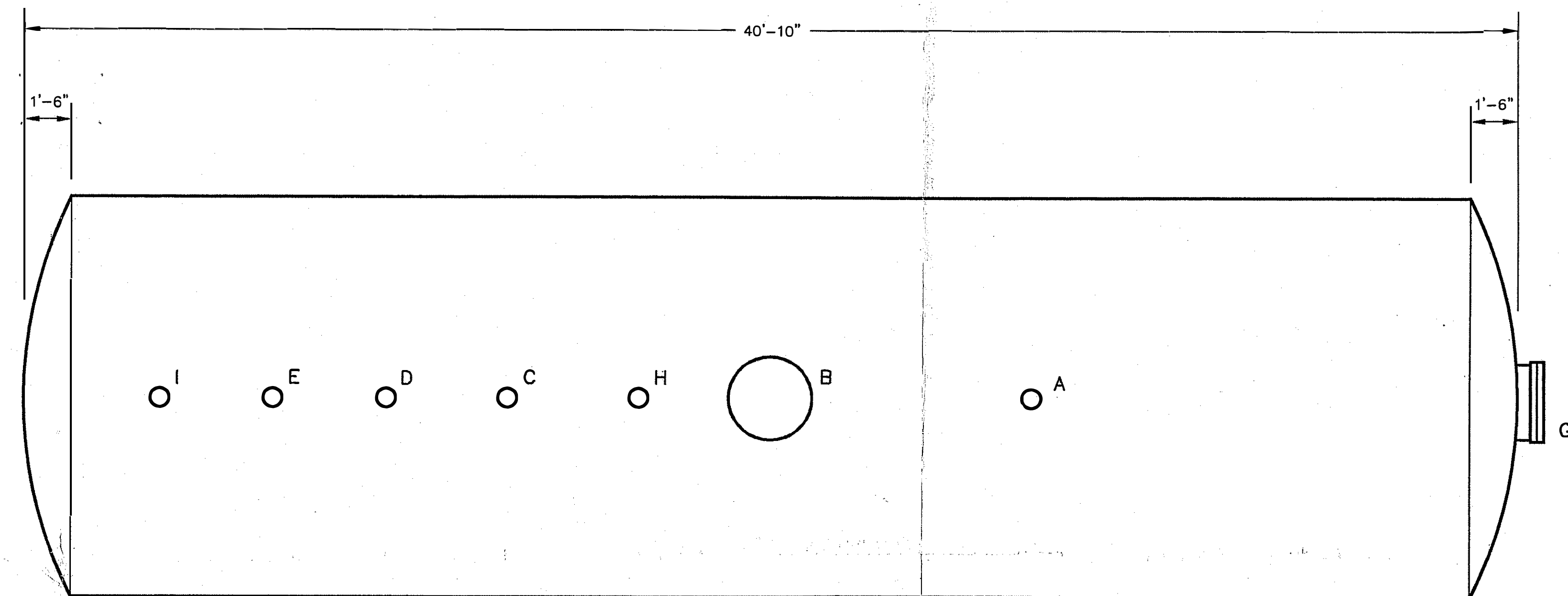
| NOZZLE SCHEDULE (ORIGINAL) |          |            |   |
|----------------------------|----------|------------|---|
| ID.                        | DIAMETER | PROJECTION | FUNCTION                                  |
| A                          | 6"       | 24"        | TANK VENT                                 |
| B                          | 24"      | 24"        | RECIRCULATION / TEMPERATURE TRANSMITTER   |
| C                          | 6"       | 24"        | LEVEL TRANSMITTER                         |
| D                          | 6"       | 24"        | RUPTURE DISK / OVERFLOW                   |
| E                          | 6"       | 24"        | N <sub>2</sub> INLET / PRESSURE INDICATOR |
| F                          | 4"       | UNKNOWN    | LGF SUCTION / FILL                        |
| G                          | UNKNOWN  | UNKNOWN    | INSPECTION MANHOLE                        |

MAXIMUM STORAGE VOLUME: 26,682 GAL.  
MAXIMUM VOLUME: 27,903 GAL.

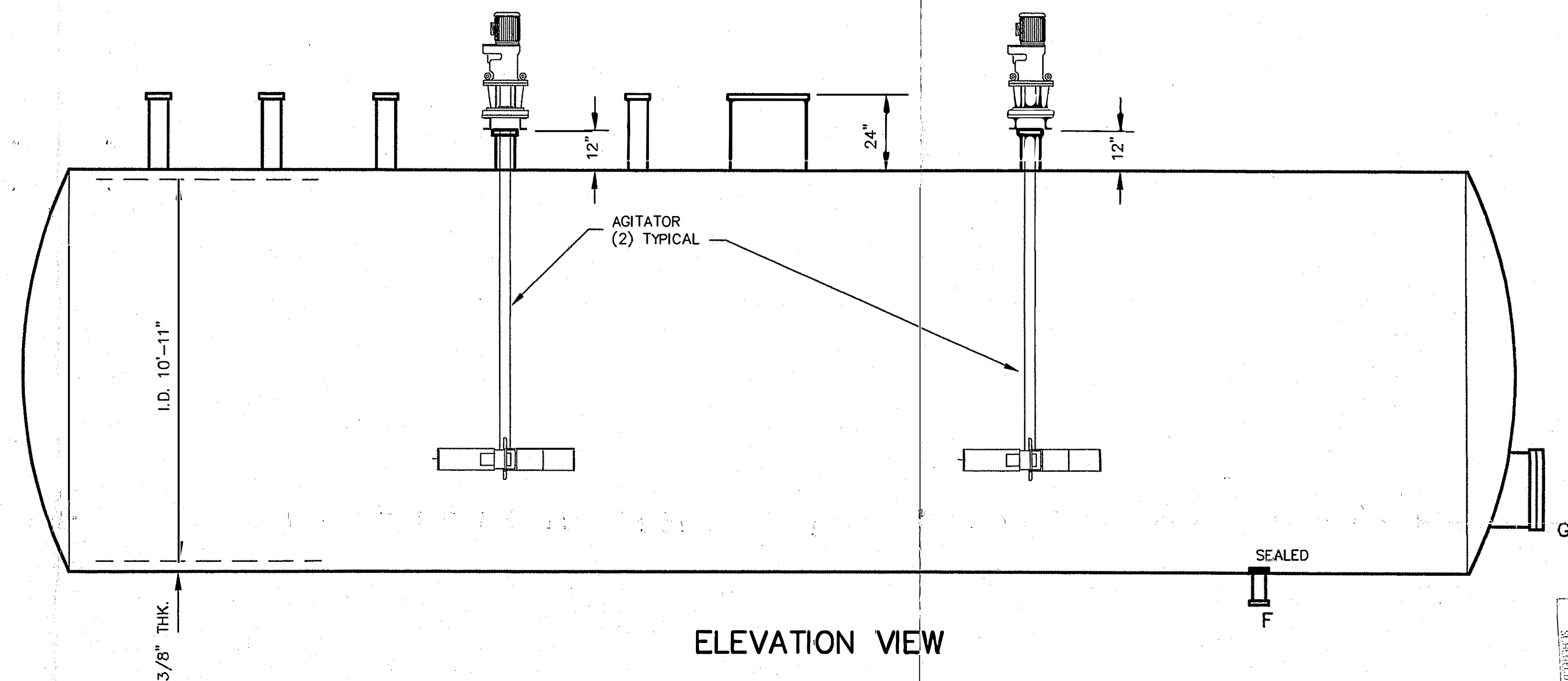
DRAWING REFERENCE:  
DRAWING #6 "LGF (LOW GRADE FUEL) SYSTEM, PLAN VIEW OF TANKS 335-300 & 335-400", PREPARED BY SIETSON-DALE, PC FOR NORLITE CORPORATION. DATED 02/24/84.  
DRAWING #7 "LGF (LOW GRADE FUEL) SYSTEM, PLAN VIEW OF TANKS 335-500 & 335-600", PREPARED BY SIETSON-DALE, PC FOR NORLITE CORPORATION. DATED 02/24/84.



SCALE: NONE



PLAN VIEW



ELEVATION VIEW

FOR PERMIT PURPOSES ONLY

|  |            |                    |  |
|--|------------|--------------------|--|
| CLIENT APPROVAL:   |            | DATE:              |  |
| <b>HARVEY M. KING, P.E.</b><br>ENVIRONMENTAL ENGINEERS & SCIENTISTS<br>4 STONY BROOK DRIVE, REXFORD, NEW YORK 12148-1808 |            |                    |  |
| NORLITE CORPORATION - COHOES, NY<br><b>LGF TANKS</b><br>335-300, 335-400, 335-500  |            |                    |  |
| DRAWN BY:  | T.V.B.     | DATE:              | 04/28/02   |
| ENGINEER:  | H.M.K.     | FILE NAME:         | NY003-5433   |
| DRAWING NO.:   | NY003-5433 | DRAWING FILE REF.: | HMK-335-300-04<br>HMK-335-400-06<br>HMK-335-500-08 |

| REV. | DESCRIPTION               | DATE     | ENG.   | CHK. |
|------|---------------------------|----------|--------|------|
| 5    | UPDATED CONFIGURATION     | 06/25/04 | T.V.B. |      |
| 4    | UPDATED CONFIGURATION     | 06/08/04 | T.V.B. |      |
| 3    | TANK PIPING MODIFICATIONS | 05/07/04 | T.V.B. |      |
| 2    | AGITATOR SYSTEM REVISED   | 02/05/04 | T.V.B. |      |
| 1    | UPDATED CONFIGURATION     | 7/17/02  | T.V.B. |      |

ALL DIMENSIONS SHOWN ON THIS DRAWING WERE SUPPLIED BY NORLITE CORPORATION AND REFERENCE DRAWINGS.