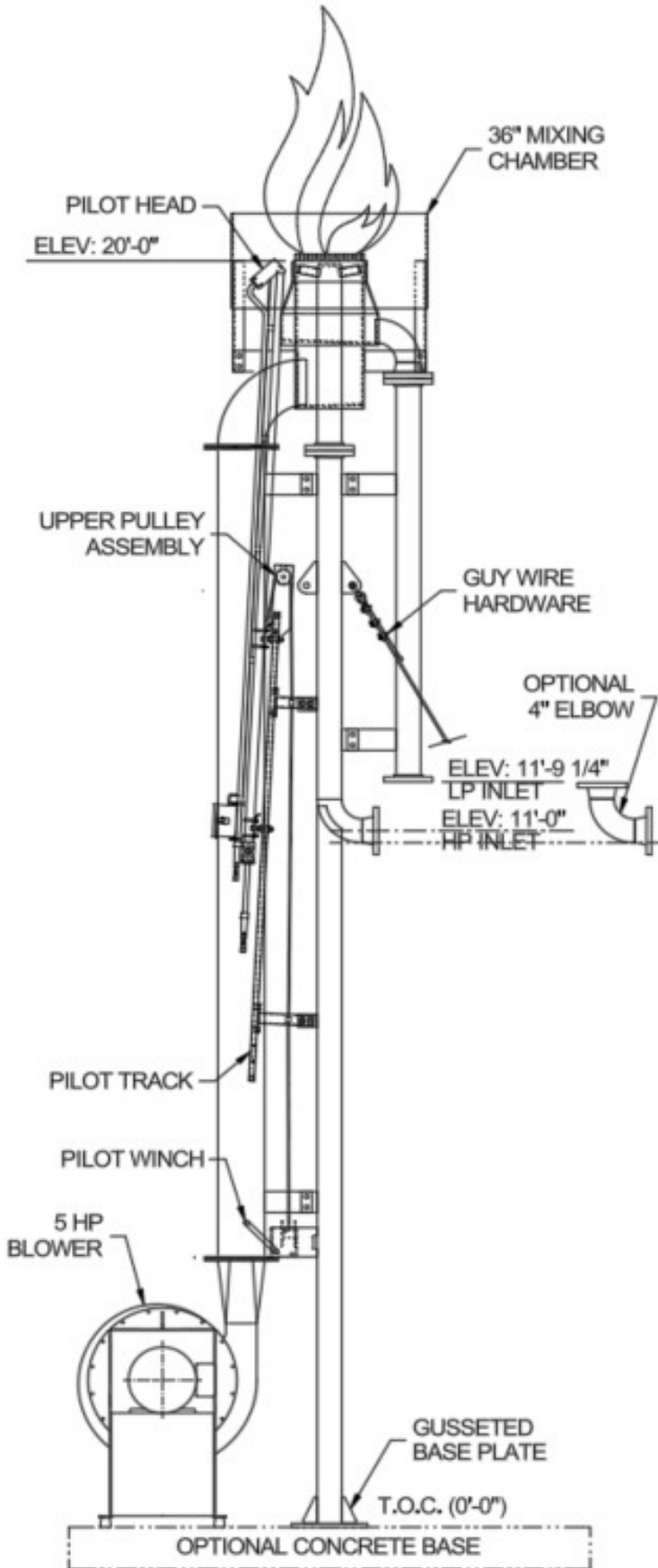


## FS-AA-0412 High Efficiency Dual Stream Air Flare



### DESIGN DATA

|                   |                                                 |          |
|-------------------|-------------------------------------------------|----------|
| Design Conditions | Max Flow Rate HP (MMSCFD):                      | 5        |
|                   | Maximum Available Inlet Pressure (PSIG):        | 50       |
|                   | HP Gas MW:                                      | 23       |
|                   | Temp of Gas (F):                                | 100      |
|                   | LHV (BTU/SCF):                                  | 1350     |
|                   | Specific Gravity:                               | 0.82     |
|                   | Max Flow Rate LP (MMSCFD):                      | 0.6      |
|                   | Available Inlet Pressure (OZ/IN <sup>2</sup> ): | 4        |
|                   | LP Gas MW:                                      | 44       |
|                   | Temp of Gas (F):                                | 100      |
|                   | LHV (BTU/SCF):                                  | 2350     |
|                   | Specific Gravity:                               | 1.57     |
|                   | Design Wind Speed (MPH):                        | 120      |
|                   | Design Earthquake Conditions:                   | SEI 7-22 |
| Results           | Freestanding:                                   | No       |
|                   | Δ P of HP Tip @ Full Flow (PSIG):               | 49       |
|                   | Δ P of LP Tip @ Full Flow (Oz/In2):             | 3.3      |
|                   | HP Radiation at Grade (W/ Solar):               | 800      |
|                   | LP Radiation at Grade (W/ Solar):               | 700      |
|                   | Total Radiation at Grade (W/ Solar):            | 1495     |
|                   | HP Waste Gas Inlet:                             | 4"       |
|                   | LP Waste Gas Inlet:                             | 4"       |
|                   | Tip Outer Diameter (In):                        | 13.75    |
|                   | Overall Stack Height (Ft):                      | 20       |
|                   | Blower HP:                                      | 2        |
|                   | Combustion Efficiency (%):                      | >99%     |
|                   | Number of Pilots:                               | 1        |
|                   | Pilot Gas Consumption/Per Pilot (SCFH):         | 65       |

