

1R - 400

REPORTS

DATE:

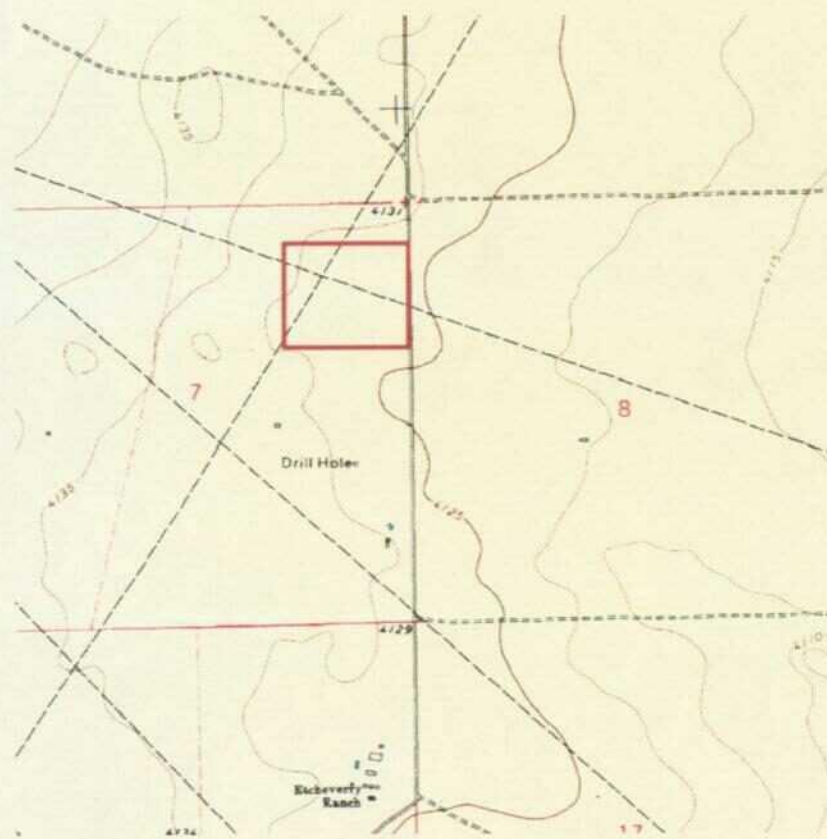
7/15/2003



CONSTRUCTION DRAWINGS FOR REMEDIATION SYSTEM

ETCHEVERRY RANCH
LEA COUNTY, NEW MEXICO

Unit B, Section 7, Township 15 South, Range 34 East
Latitude 33° 02' 11", Longitude 103° 32' 48"



SHEET #	DESCRIPTION
1	SYSTEM COMPONENTS
2	SUBSURFACE PIPING ALIGNMENTS
3	DETAILS
4	PIPING AND INSTRUMENTATION DETAILS

JULY 15, 2003



- Notes:
- 1) Soil vapor extraction points shown as green
 - 2) Air sparge points shown as red
 - 3) Locations surveyed by Pettigrew & Associates

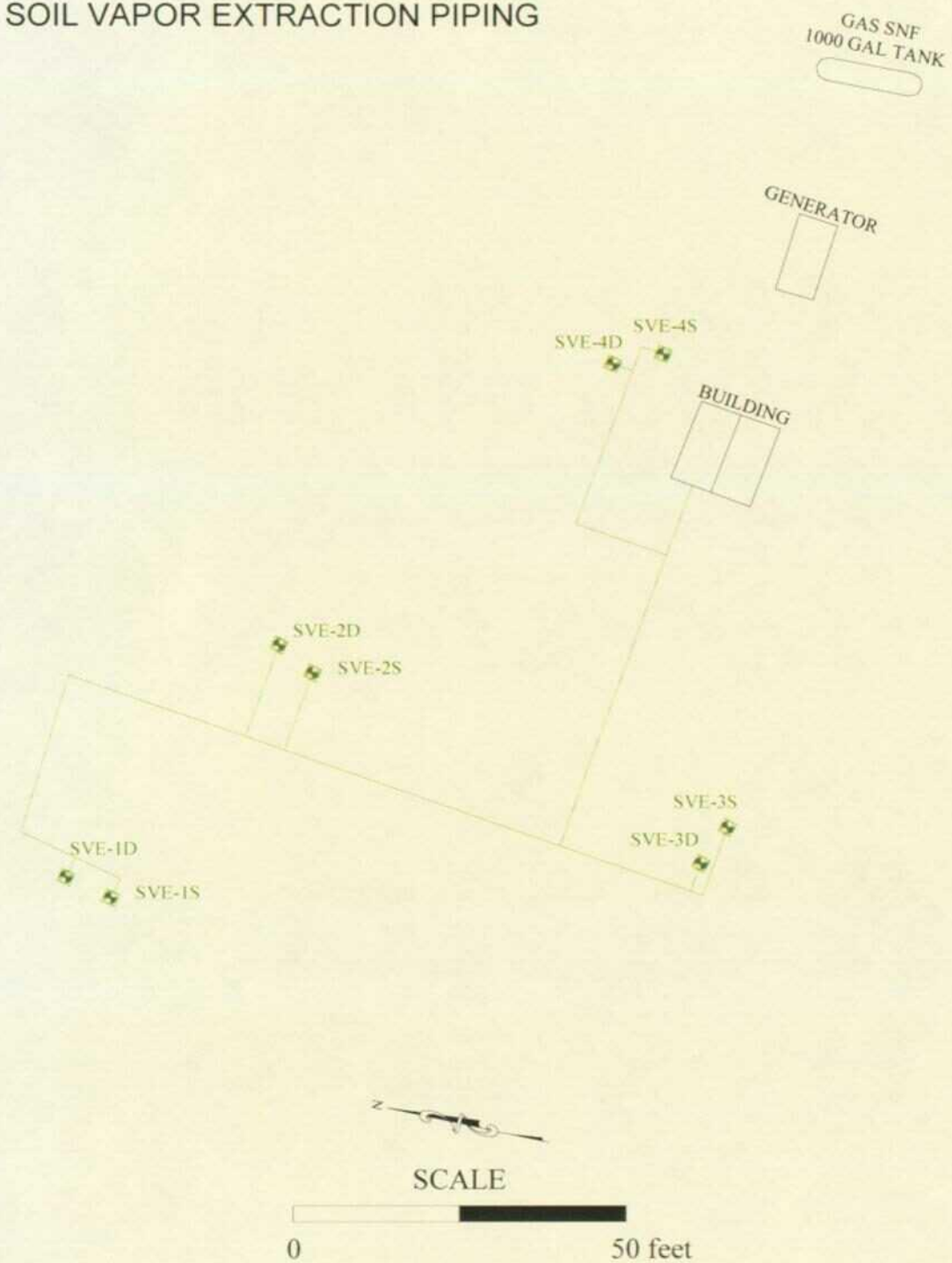
SHEET 1 - SYSTEM COMPONENTS

ETCHEVERRY REMEDIATION

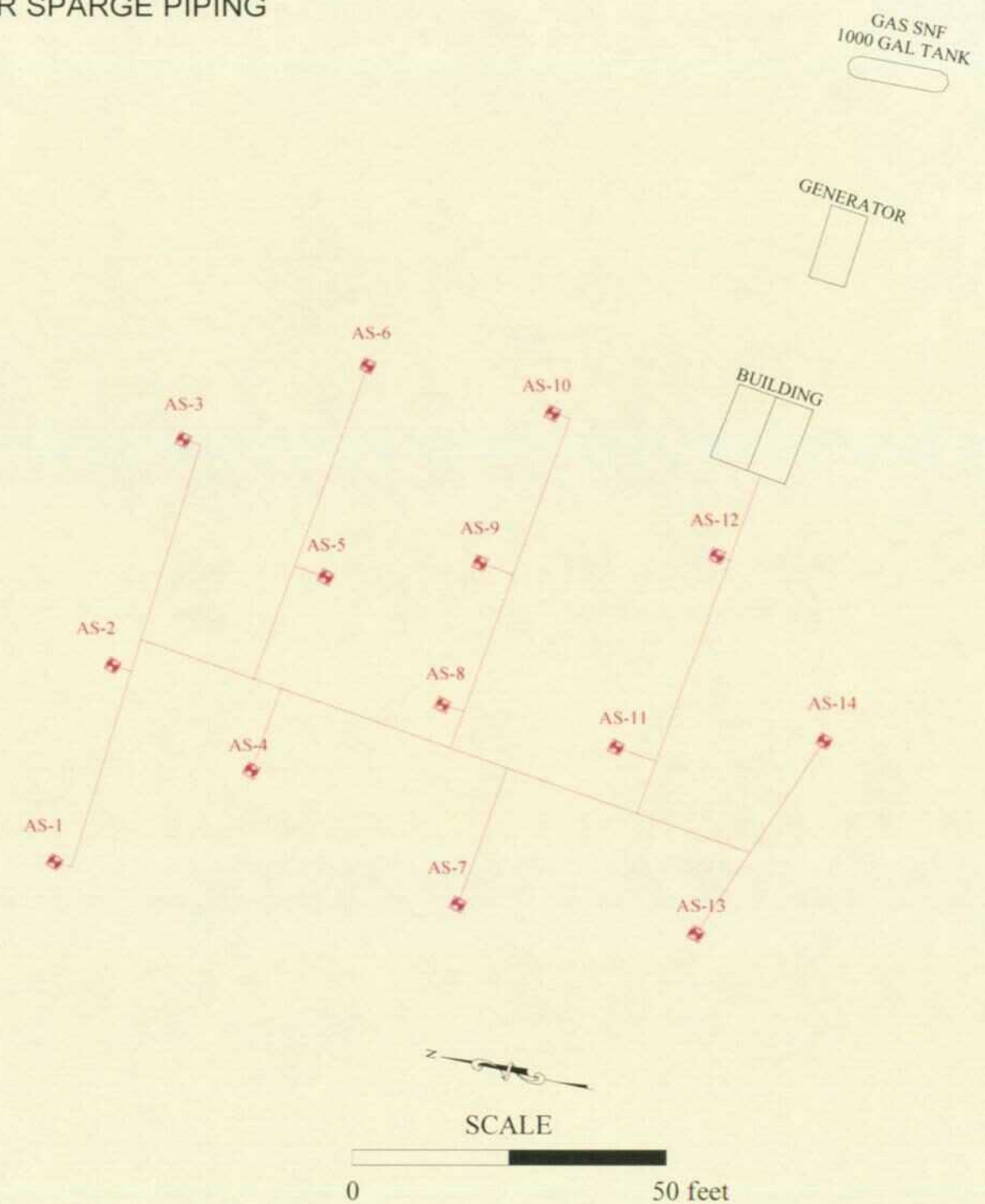
Duke Energy
Field Services.

DRAWN BY: MHS
DATE: 1/03

SOIL VAPOR EXTRACTION PIPING



AIR SPARGE PIPING



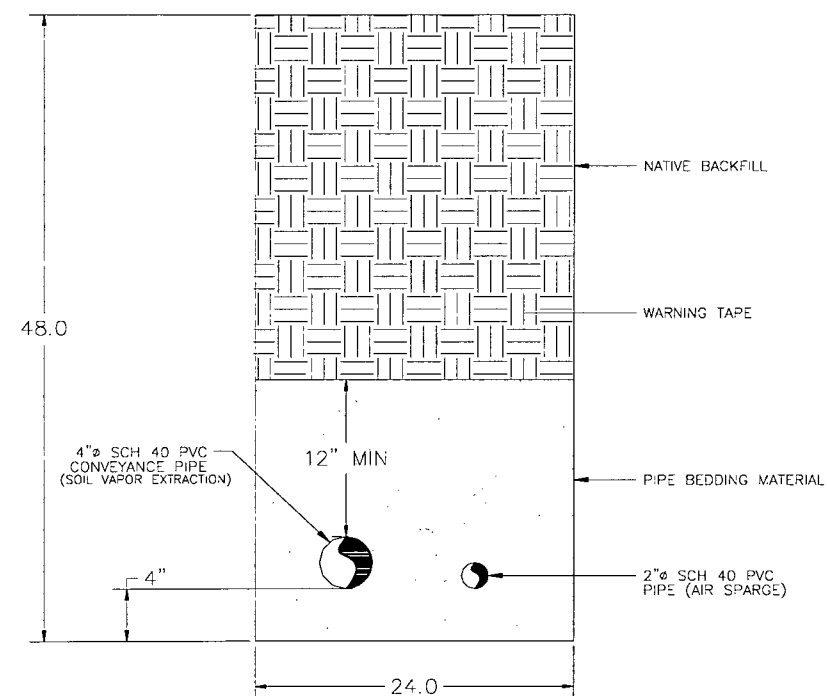
SHEET 2 - SUBSURFACE PIPING
ALIGNMENTS

ETCHEVERRY REMEDIATION

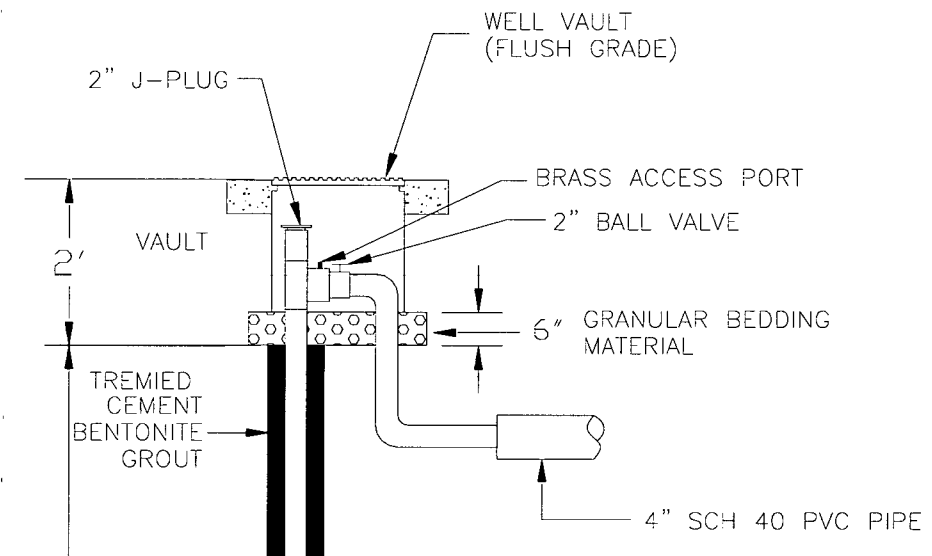
Duke Energy
Field Services.

DRAWN BY: MHS
DATE: 1/03

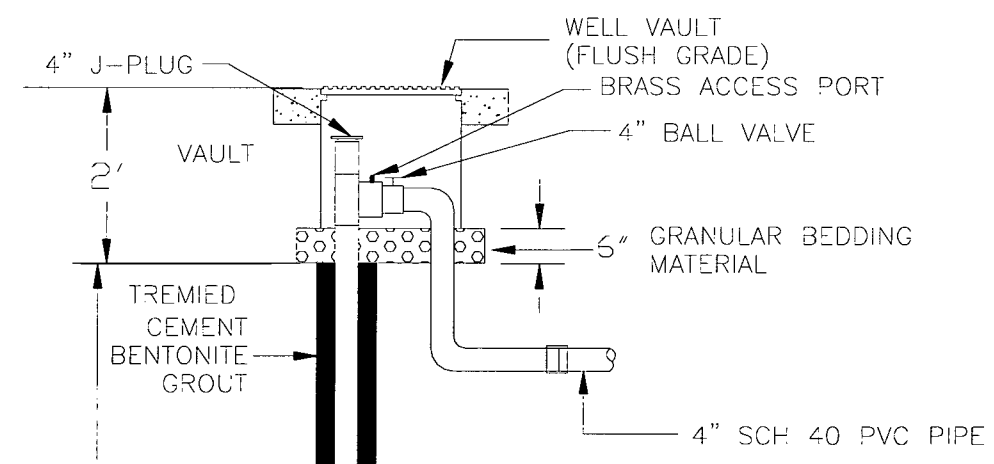
TRENCH DETAIL



AIR SPARGE DETAIL



SOIL VAPOR EXTRACTION DETAIL

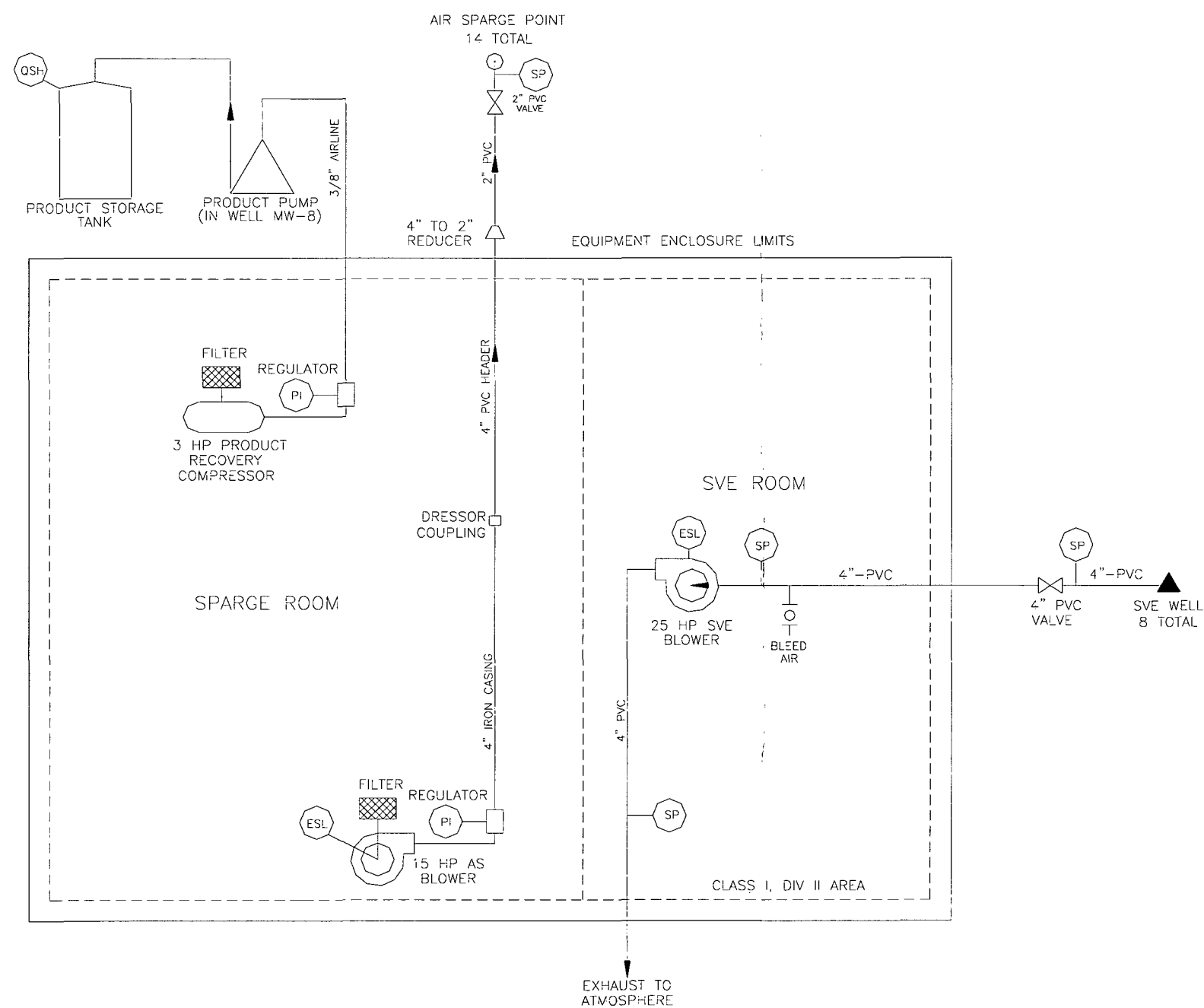


SHEET 3 - DETAILS

ETCHEVERRY REMEDIATION

Duke Energy
Field Services

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DATE: 1/03



ABBREVIATIONS

PI: Pressure instrumentation (gage)
 ESL: Remote electronic monitoring device
 SP: Sampling port (vapor and pressure)
 QSH: High liquids switch with remote monitoring.

SHEET 4 - PIPING AND
 INSTRUMENTATION DETAILS

ETCHEVERRY REMEDIATION

Duke Energy
Field Services.

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 DATE: 1/03