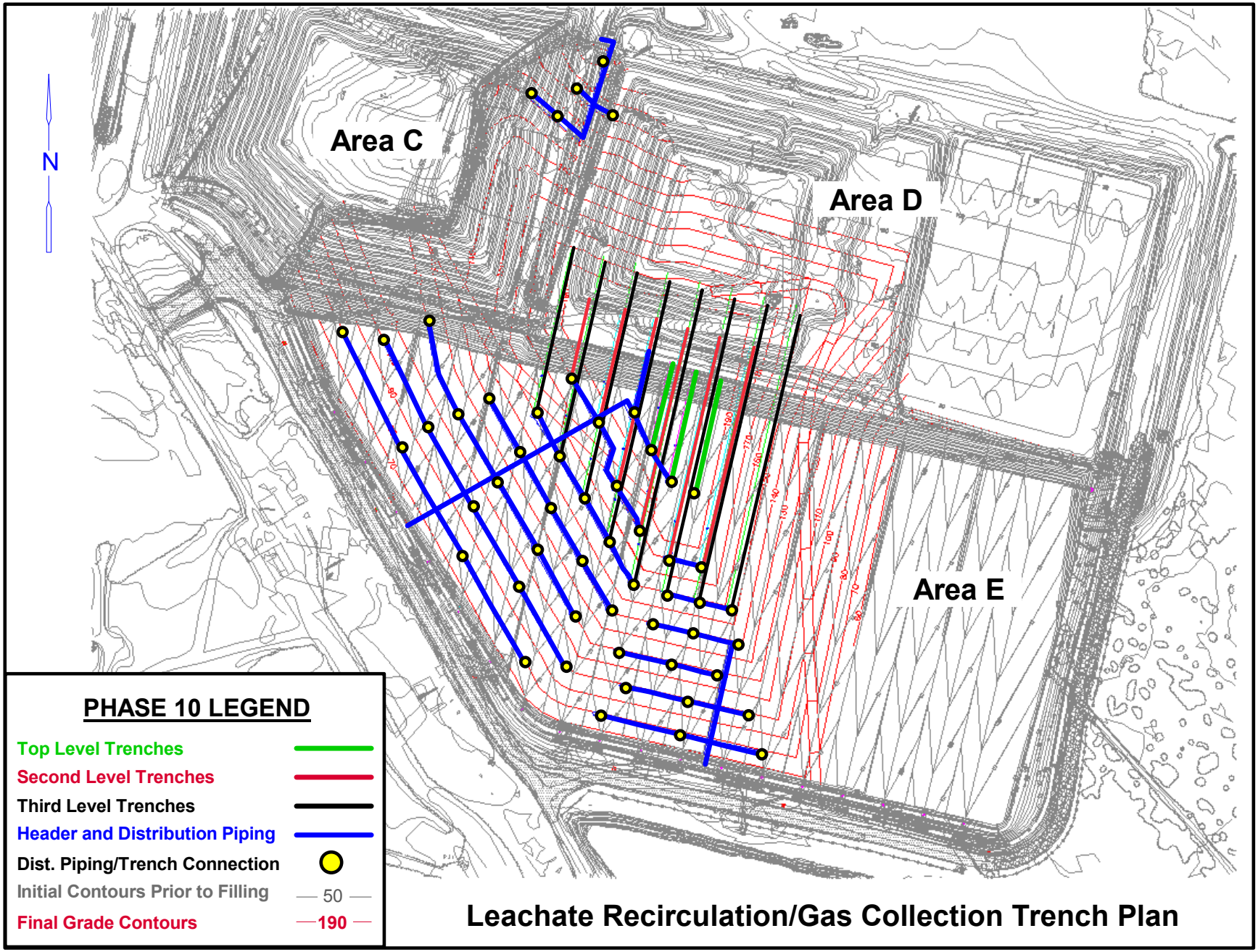
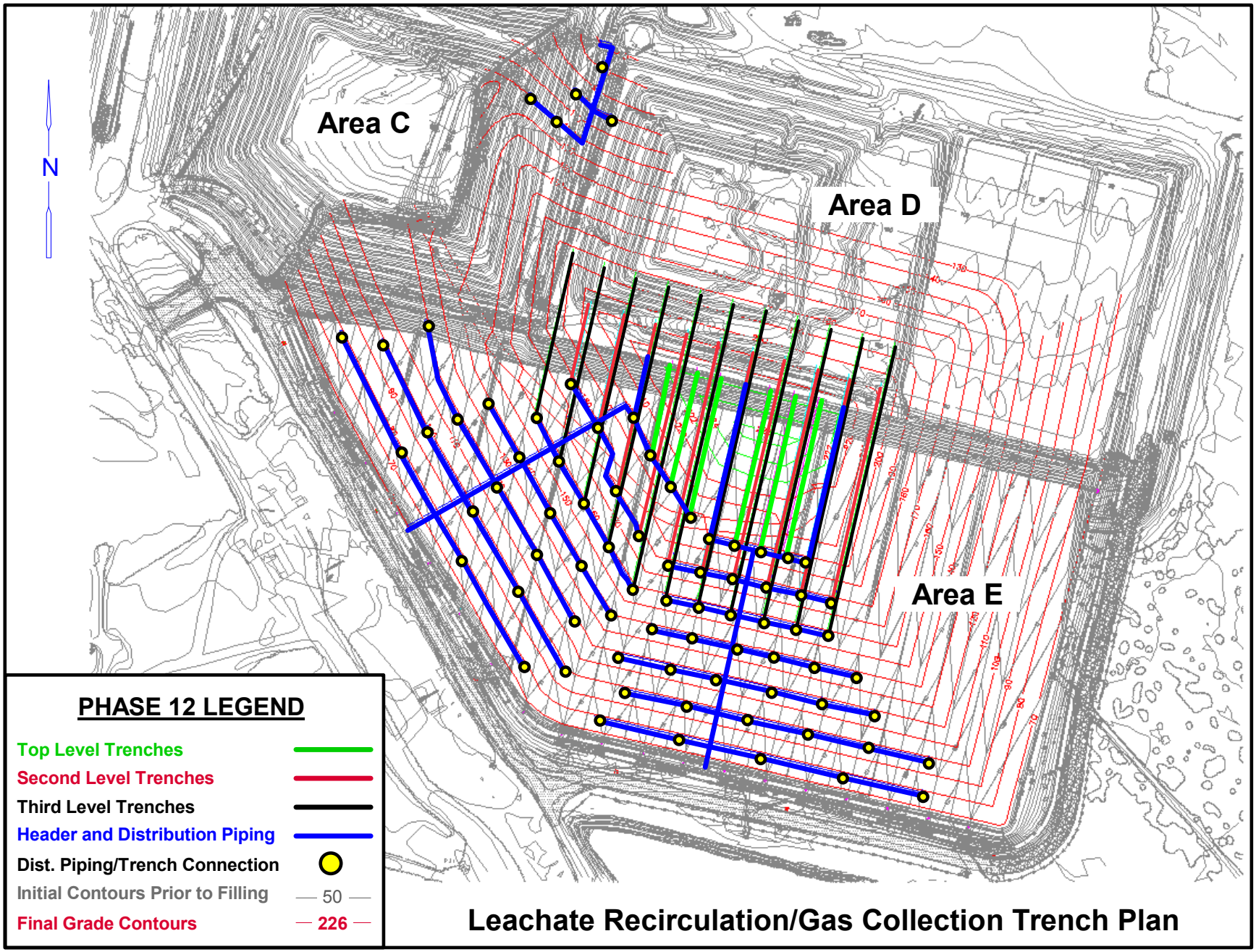
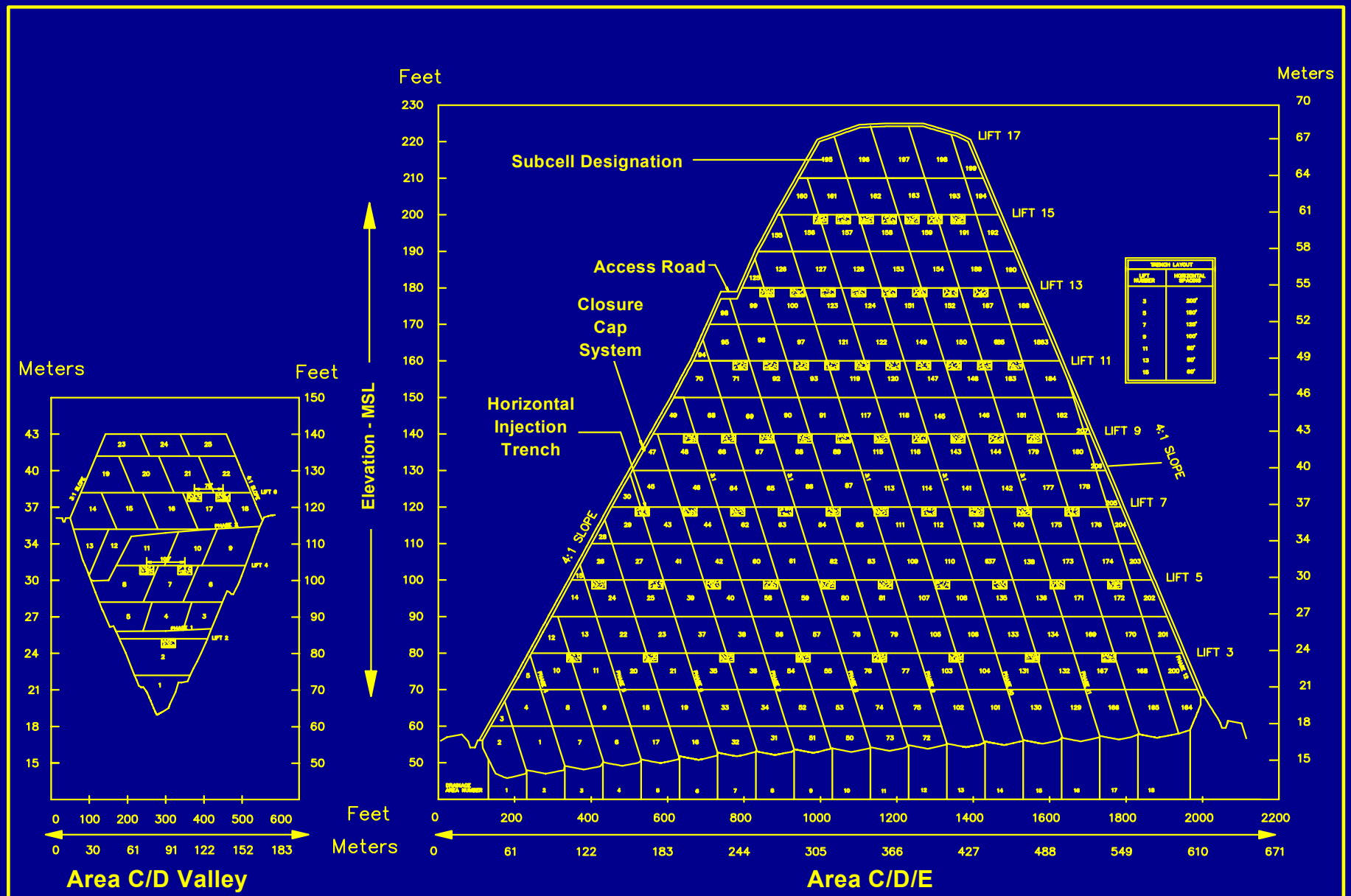


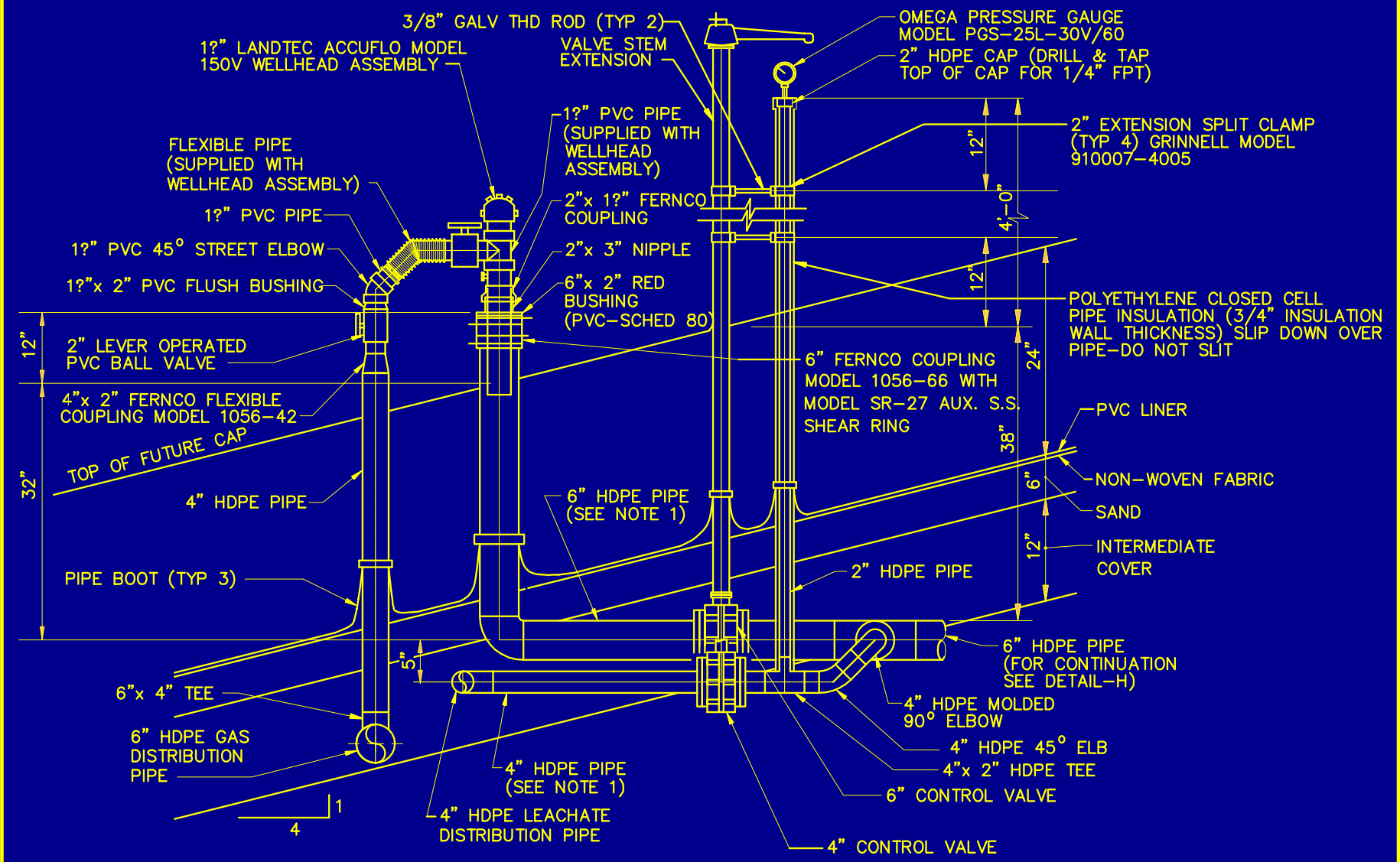
Leachate Recirculation/Gas Collection Trench Plan



Leachate Recirculation/Gas Collection Trench Plan



Filling Sequence for the C/D Valley and Area C/D/E



Distribution Piping/Trench Connection Detail - Side View

Horizontal Well Operations

- When to start?
- When to stop?
- When to start again?
- How to integrate with LFG collection system?

Leachate Recirculation History

	Total MSW Tonnage	Leachate Recirculated (Mgals)
Area A & B	697,000	21.6
Area C	631,000	4.1
Test Cells	18,000*	0.5
Area D	595,000	4.0
C/D Valley	143,000	1.4
Area E	408,000	0
TOTALS	**2,474,000**	**31.6**

Current Situation (2002)

	Leachate Collected (gals)	Leachate Recirculated (gals)	Leachate Treated Offsite (gals)	Treatment Cost
Area A & B	3,968,000	0	3,968,000	$220,000
Area C	1,069,000	0	1,069,000	$60,000
Area D	1,131,000	487,000	0	0
C/D Valley	0	734,000	0	0
Area E	2,699,000	0	2,609,000	$145,000
TOTALS	**8,867,000**	**1,221,000**	**7,646,000**	**$425,000**

Other Considerations

- Ease of Operation
- To Cap or not to Cap
- Capital Investment

DSWA's Future Goals

- Operate all active and closed cells as Bioreactors
- Eliminate offsite treatment of leachate
- Reach end of post closure period with a zero discharge leachate treatment system consisting of:
  - Recirculation system
  - Wetlands treatment system
  - Phyto cap