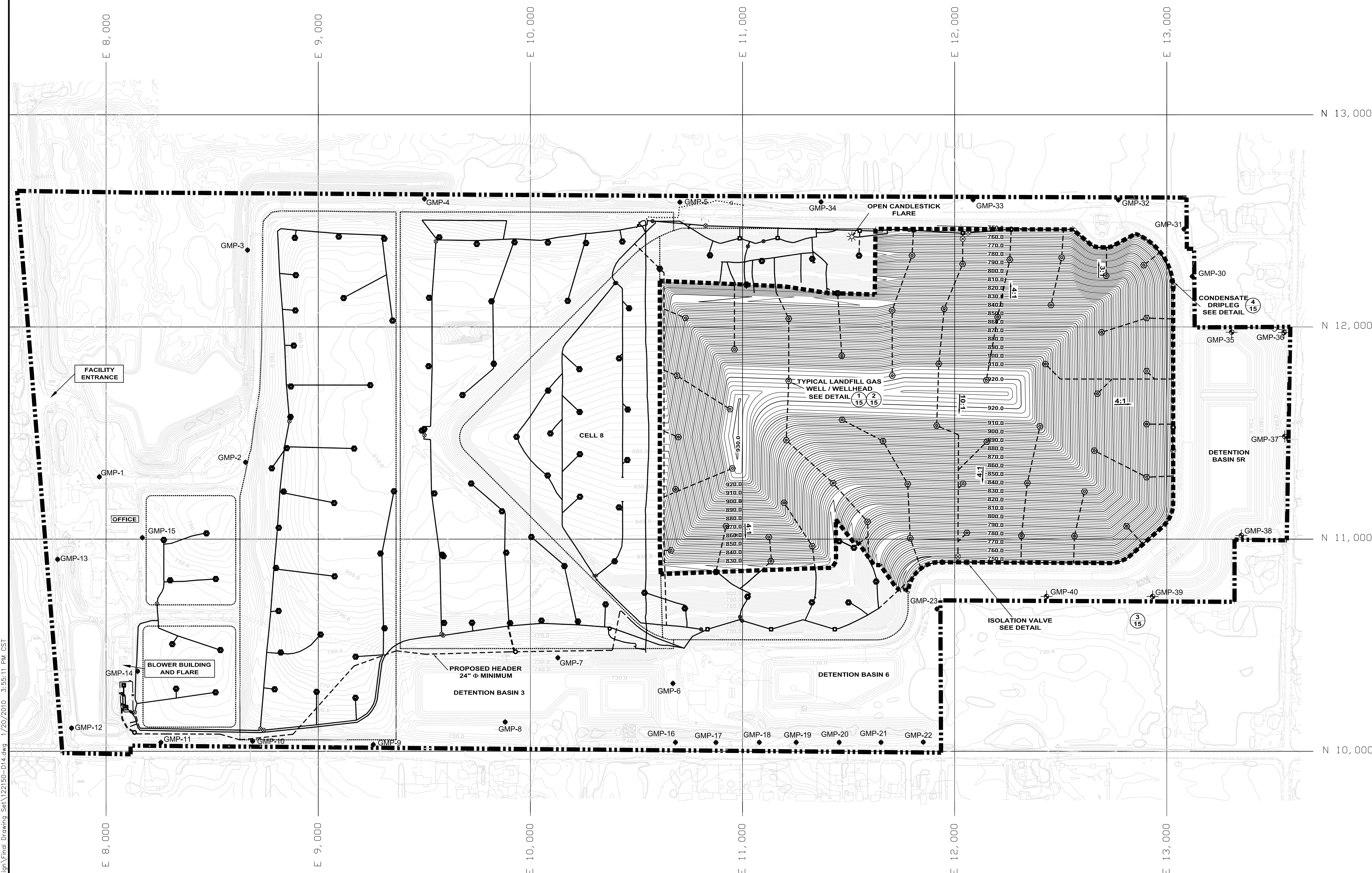


LEGEND

- APPROXIMATE PROPOSED FACILITY BOUNDARY
- PROPOSED EXPANSION WASTE AREA
- EXISTING PERMITTED LIMIT OF WASTE AREAS
- TREES / VEGETATION
- EXISTING FENCE
- PROPOSED FENCE
- ACCESS ROAD (SEE NOTE 1 FOR EXISTING VS. PROPOSED)
- PERIMETER STORMWATER DITCH (SEE NOTE 1 FOR EXISTING VS. PROPOSED)
- CULVERT (SEE NOTE 1 FOR EXISTING VS. PROPOSED)
- 700.0----- PROPOSED CONTOUR: TOP OF FINAL LANDFORM (FEET MSL)
- 700.0----- EXISTING CONTOUR EXCEPT AS NOTED IN NOTE 1
- EXISTING PERMITTED LANDFILL GAS EXTRACTION WELL
- ⊙ PROPOSED LANDFILL GAS EXTRACTION WELL
- EXISTING CONTROL VALVE
- ⊙ PROPOSED CONTROL VALVE
- EXISTING CONDENSATE DRIPLEG
- PROPOSED CONDENSATE DRIPLEG
- PERMITTED LANDFILL GAS PROBE
- PROPOSED LANDFILL GAS PROBE
- PERMITTED GAS HEADER/LATERAL PIPE
- PROPOSED GAS HEADER/LATERAL PIPE

NOTES

1. EXISTING CONTOURS DEVELOPED FROM SITE AERIAL TOPOGRAPHIC SURVEY BY MARTINEZ CORPORATION ON APRIL 16, 2007, UNLESS OTHERWISE NOTED BELOW.
CELL 8 AREA: FINAL PERMITTED COVER DESIGN
DETENTION BASIN 5R: PROPOSED CONTOURS
DETENTION BASINS 3 AND 6: PERMITTED CONTOURS
PERIMETER AREAS NORTH, EAST, AND SOUTH OF CELLS 7, 9, AND 10: PROPOSED CONTOURS
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. THE NEED FOR FLEXIBILITY TO ACCOMMODATE ADJUSTMENTS AND MODIFICATIONS IS ANTICIPATED CONSIDERING THE SIZE, COMPLEXITY, AND LIFE OF THE PROJECT.
4. PROPOSED LANDFILL GAS MONITORING PROBES WILL BE PHASED IN AROUND THE PERIMETER OF THE FILLED ACTIVE AREA AND EXISTING LANDFILL GAS MONITORING PROBES 24-29 WILL BE ABANDONED, AS APPROVED BY THE IEPA. LOCATION OF LANDFILL GAS PROBES ARE APPROXIMATE.
5. PROPOSED LANDFILL GAS EXTRACTION WELLS WILL BE CONSTRUCTED AS FINAL CONTOURS ARE ATTAINED.
6. EXISTING LANDFILL GAS EXTRACTION WELLS WITHIN THE PROPOSED WASTE EXPANSION AREA WILL BE REPLACED OR EXTENDED TO ACCOMMODATE FINAL GRADES.
7. PROPOSED LANDFILL GAS COLLECTION SYSTEM IS CONCEPTUAL AND SUBJECT TO CHANGE WITH IEPA APPROVAL.
8. ALL PENETRATIONS THROUGH THE FINAL COVER GEOMEMBRANE WILL BE BOOTED.
9. PROPOSED PIPELINE SIZING
 - MAIN HEADER: 12" MIN SDR-17 (24" MIN SDR-17 TO WEST BLOWER BUILDING AND FLARE)
 - LATERAL WITH 1 OR 2 WELLS: 6" MIN SDR-17
 - LATERAL WITH 3 OR MORE WELLS: 8" MIN SDR-17
10. PROPOSED PIPING SLOPE
 - MINIMUM 0.3% IF ON SOILS
 - MINIMUM 5% IF ON WASTE
11. LANDFILL GAS PIPING MAY BE INSTALLED ABOVE OR BELOW THE FINAL COVER GEOMEMBRANE.



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REV. NO.	DATE	DESCRIPTION



VEOLIA E.S. ZION LANDFILL-SITE 2 EAST EXPANSION
CITY OF ZION, ILLINOIS

CONCEPTUAL LANDFILL GAS MANAGEMENT SYSTEM

PROJ. NO.:	122150	DATE:	FEBRUARY 2010
DESIGNED BY:	RDS	DRAWING NO.	D14 14 OF 22 SHEETS
DRAWN BY:	BWM		
CHECKED BY:	RDS		
APPROVED BY:	DAM		