

ATTACHMENT XIV.A8

TRAFFIC

R 299.9508(1)/R 299.9504

40 CFR 270.14(b)(10)

Traffic

Traffic hauling material to the Michigan Operations facility from offsite generally uses U.S. Highway 10 to arrive at the public roadways within the city of Midland. The designated entry gate for trucks is 3892 S. Saginaw Road, via Gate #17. All other traffic enters the site using one of the other staffed security gates (for gate locations, see the Site Evacuation Map, contained in the Contingency Plan).

Traffic hauling material to the Salzbürg Landfill facility generally use Salzbürg Road to arrive from the Michigan Operations facility or the Dow Silicones facility. A deceleration lane on the south side of Salzbürg Road allows for traffic to slow down without impeding traffic flow on Salzbürg Road before entering the Salzbürg Landfill facility via Gate #90. Gate #90 is south of Salzbürg Road, approximately 1/4 mile east of the intersection of Salzbürg and Saginaw Roads. The facility can also be accessed using #93 Gate for maintenance/construction activities, for gate locations see drawing B2-202-MAPS. All roads within Salzbürg Landfill are two lane and accommodate two-way traffic unless posted otherwise during special projects or construction.

Traffic Volume

Grab gate cycle data from 2012 was used to determine traffic flow into the Midland Site. The number of passenger vehicles (cars and light duty trucks) entering the Michigan Operations facility, on a daily basis, is approximately 5,200. The number of heavy duty trucks entering the site, on a daily basis, is approximately 300.

At the Salzbürg Landfill facility most vehicles are confined to the paved road that runs between the main gate (#90) and the Landfill's 3600 Building. Within the landfill, vehicles consist of a compactor, dump trucks, earth mover, and front-end loaders. Ten (10), fifteen (15), or twenty (20) cubic yard dump trucks are typically used to deliver material to the Landfill. Appropriate contractor or Dow vehicles may also enter the Landfill, depending on disposal or construction

activities at the facility. Vehicles that enter the active area of the landfill (where signs are posted) must leave through the vehicle wash facility. The landfill is operated on an as-needed basis, consequently, traffic occurs on an irregular frequency.

Traffic Control

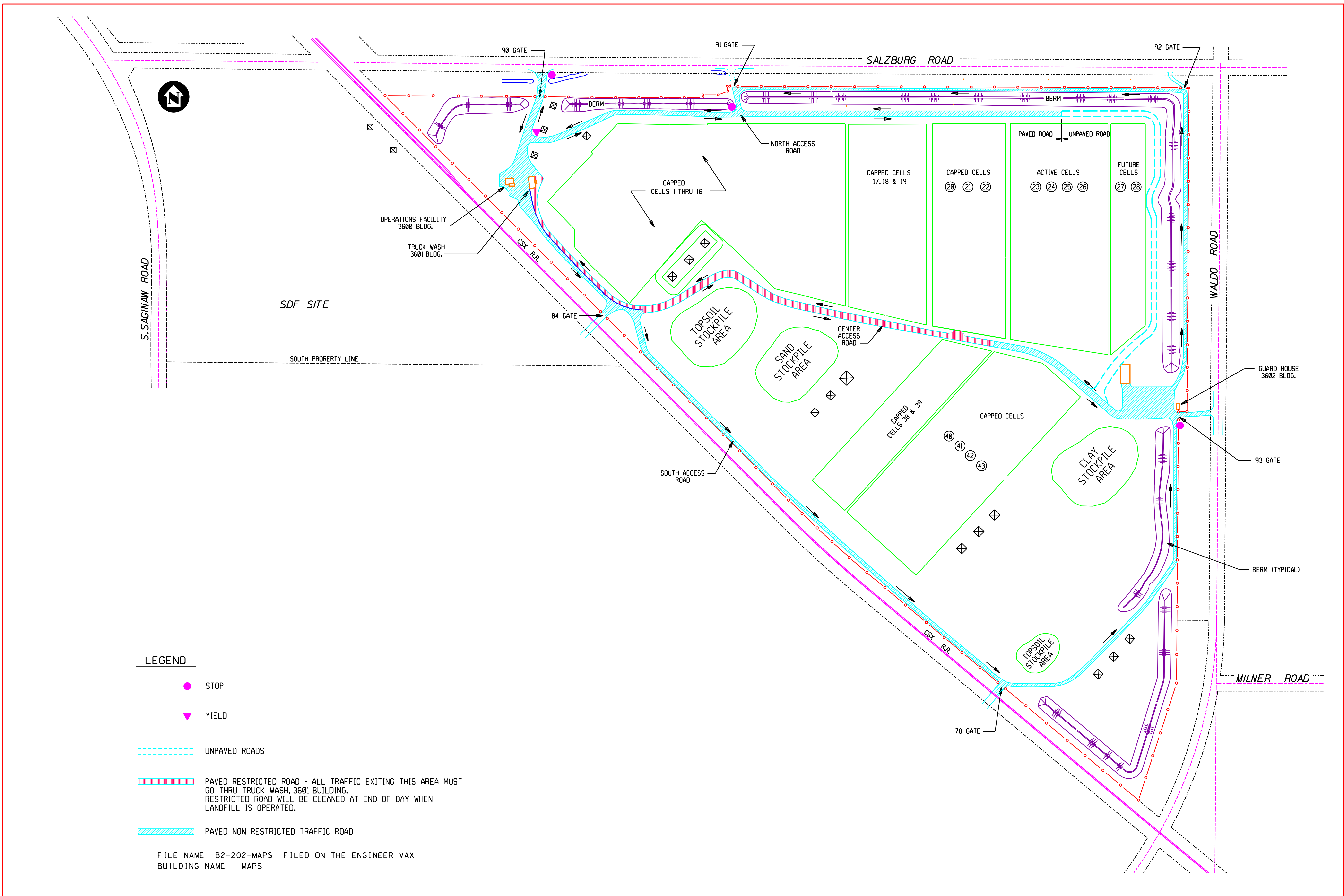
Traffic control into and out of the Michigan Operations facility occurs through gates that are monitored by Dow Emergency Services & Security personnel. Each gate is monitored by a security guard during operational hours, and people entering the site are required to show identification and present their I.D. badge to the electronic badge reader in order to gain access. Other gates exist along the site perimeter and Tittabawassee River, but they are not used for routine site access. Traffic is controlled within the site boundary by signage. The maximum speed limit is 25 mph.

Traffic control "STOP" signs are used at the main gate of the Salzburg Landfill facility, both on the entrance and exit side of the gate, access can be achieved by using the electronic badge reader. There is an additional "STOP" sign at the intersection of #90 gate road and Salzburg Road. Additional signs within the facility direct waste haulers and support personnel to the cell currently in use. Flow patterns are marked using concrete cones or other suitable barriers. There are no traffic control signals at the facility.

Road Surfacing and Design

All gate access roads are paved as well as most roads within the Michigan Operations facility. Paved and unpaved roads are indicated on drawings B2-200-MAPS and B2-201-MAPS of the Site Fugitive Dust Control Program located in Appendix D, Soil and Groundwater Exposure Control Program, of Attachment XIV.B2, Corrective Action Information. Typical road design consists of a minimum of three inches of asphalt on an eight inch crushed limestone base. The roads are 24 feet wide with a two-inch crown and four-foot shoulders. This design results in heavy-duty roads capable of maximum vehicle loads of 152,800 pounds. Maximum axle loads are 16,800 pounds for single drive axles and 13,000 pounds for other axles.

At the Salzburg Landfill facility all roads within the facility are paved. Roads are constructed of a minimum 3.5 inches of bituminous pavement overlaying approximately 12 inches of compacted aggregate base. Load bearing capacity of all facility roads is 8,000 pounds per axle. A 10 cubic yard capacity dump truck loaded with material has a curb weight of 43,000 lbs. A 15 cubic yard dump truck loaded with material has a curb weight of 57,000 lbs. A 20 cubic yard dump truck loaded with material has a curb weight of ~ 71,000 lbs. All roads at the facility are designed to carry these weights.



LEGEND

- STOP
- ▼ YIELD
- UNPAVED ROADS
- ▨ PAVED RESTRICTED ROAD - ALL TRAFFIC EXITING THIS AREA MUST GO THRU TRUCK WASH, 3601 BUILDING. RESTRICTED ROAD WILL BE CLEANED AT END OF DAY WHEN LANDFILL IS OPERATED.
- ▨ PAVED NON RESTRICTED TRAFFIC ROAD

FILE NAME B2-202-MAPS FILED ON THE ENGINEER VAX
BUILDING NAME MAPS

REV. MARK	REVISION	BY	CHK	APP	DATE	REV. MARK	REVISION	BY	CHK	APP	DATE
A	MAP REVIEWED WITH NO CHANGES REQUIRED	ML	TH	TH	3/8/2010						
B	MAP REVIEWED WITH NO CHANGES REQUIRED	ML	TH	TH	3/4/2011						
C	MAP REVIEWED WITH NO CHANGES REQUIRED	HG	TH	TH	9/7/2011						
D	MAP REVIEWED WITH NO CHANGES REQUIRED	HG	KC	KC	3/6/2012						
E	MAP REVIEWED WITH CHANGE/ADDITION REQUIRED	HG	BG	BG	9/9/2013						
F	MAP REVIEWED WITH NO CHANGES REQUIRED	HG	HS	HS	3/5/2014						
G	MAP REVIEWED WITH CHANGE/ADDITION REQUIRED	HG	HS	HS	8/27/14						
H	MAP REVIEWED WITH CHANGE/ADDITION REQUIRED	MAD	HS	HS	2/28/23						
I	MAP REVIEWED WITH CHANGE/ADDITION REQUIRED	MAD	HS	HS	9/06/23						

ISSUE NO.	REV	MATERIAL OR JOB SPEC	BID	FAB	CONST	REF	DATE ISSUED FOR

DESIGNED	DATE	STATUS	PLANT NO.
TINA HARPER	9/08		
M. LEWIS	9/08		
F. FAELLACI	12/09		
J. FAELLACI	12/09		
R. PYLES	12/09		

EJN NUMBER	SCALE	REV.
MAPS	1" = 200'-0"	1

THE DOW CHEMICAL COMPANY
MICHIGAN OPERATIONS MIDLAND, MICHIGAN
SALZBURG LANDFILL MAPS

**EXHAUST AIR UPGRADE
SALZBURG FUGITIVE DUST CONTROL MAP**

PRINTED
VER. 2
PLN

THIS DRAWING IS THE PROPERTY OF THE DOW CHEMICAL COMPANY. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE DOW CHEMICAL COMPANY.