VOLUNTARY CLEANUP PROGRAM

INTERIM REMEDIAL MEASURES WORK PLAN

for

SITE NO. V00264

VOLUNTARY CLEANUP AGREEMENT NO. A7-0493-0903

Prepared by:

PLUMLEY ENGINEERING

8232 Loop Road
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(315) 638-8587
Project No. 2010150

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FIGURE 1 – SITE PLAN

FIGURE 2 – EXCAVATION LIMITS DETAIL

1.0 INTRODUCTION

The Volunteer proposes to implement a remedial excavation to remove the main source of the site impacts – a sump in the manufacturing building and impacted soils immediately surrounding the sump.

This Interim Remedial Measures (IRM) Work Plan also includes some confirmation soil sampling, the results of which will provide additional information about the post-excavation soil impacts in the sump area. A Supplemental Investigation Work Plan is being submitted separately to address some additional investigation work requested by the New York State Department of Environmental Conservation (DEC) in their letter dated September 27, 2010.

2.0 REMEDIAL EXCAVATION

An environmental contractor will be mobilized to perform the excavation work. The main tasks will include the following:

- Implement a site Health and Safety Plan (HASP) for the remedial activities, including the Community Air Monitoring Plan (CAMP).

- Establish a soil staging area on the existing pavement as shown on the attached *Figure 1 – Site Plan*. The soil will staged on 10-mil polyethylene sheeting laid over temporary soil or hay bale berms. The pile will be securely covered with polyethylene sheeting at the end of the work day. Roll-off containers may also be used.

- If determined to be necessary, set up a temporary dewatering system consisting of one or more ±20,000-gallon "frac" tanks. Water will be pumped into the tanks using a submersible pump in the active excavation area. After settling, water will be pumped through activated carbon filters for treatment and discharged to the storm sewer on Brewerton Road in compliance with the effluent limitations established by the DEC.

Alternatively, the treated water may be discharged to the sanitary sewer, under the terms of a permit from the Onondaga County Department of Water Environment Protection (OCDWEP).

- Saw-cut the concrete floor to 2 feet beyond the anticipated excavation limits. Excavate the soils to the estimated depths and limits shown on the attached *Figure 2 – Excavation Limits Detail*. As shown on Figure 2, adjacent structural columns and heavy machinery will limit the area that can be excavated safely.

- Post-excavation confirmation samples will be collected to document residual levels of impact. One sample per sidewall and one bottom sample will be collected. Samples will be analyzed for Target Analyte List (TAL) volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals and polychlorinated biphenyls (PCB) per methods outlined in the Supplemental Investigation Work Plan.

- A 4-inch diameter vertical well (MW-4) will be installed in the southern edge of the excavation for future use in monitoring groundwater quality.

- At the judgment of the engineer and based on field screening results, two loops of perforated piping may be installed in the excavation. A lower loop, at or below groundwater level, could be used for future injection of chemical oxidants if additional remediation is deemed to be necessary. An upper loop, installed about 6 inches below floor level, could be used for future soil vapor extraction, if deemed necessary. Both loops would be constructed of 4-inch Schedule 40 polyvinyl chloride (PVC) perforated piping and be connected to risers that would be extended above the floor and capped off.

- Place a filter fabric in the excavated area and backfill the excavation with washed #2 rounded sandstone gravel. Install a 10 mil polyethylene vapor barrier over the area and replace the concrete floor.

- Collect a composite sample of the excavated soils to be analyzed for disposal parameters.

- The stockpiled soils will be characterized and disposed of at a permitted facility appropriate to the waste characterization results.

- The project engineer or geologist will be on-site during the excavation work to inspect the work and direct dewatering, if required. Should any field conditions be encountered that are different than expected, the DEC will be consulted regarding any changes to the work.

3.0 HEALTH AND SAFETY

The health and safety procedures outlined in the site ENSR HASP in the approved Investigation Work Plan, dated July 2004, will be implemented during the intrusive work. Since the work area is indoors, there is the potential for solvent vapor to accumulate. Only the overhead door will be open during the work. The contractor will install a temporary exhaust fan to create a negative pressure in the work area. The fan will exhaust through a temporary stack to be at least 10 feet above the roof level to disperse the vapors. A 500 cubic feet per minute (cfm) fan will be utilized to create a capture velocity of approximately 5 feet per minute at the door opening. Work area monitoring will determine the appropriate level of protection. The manufacturing operations will be closed during the work and no employees will be on the site.

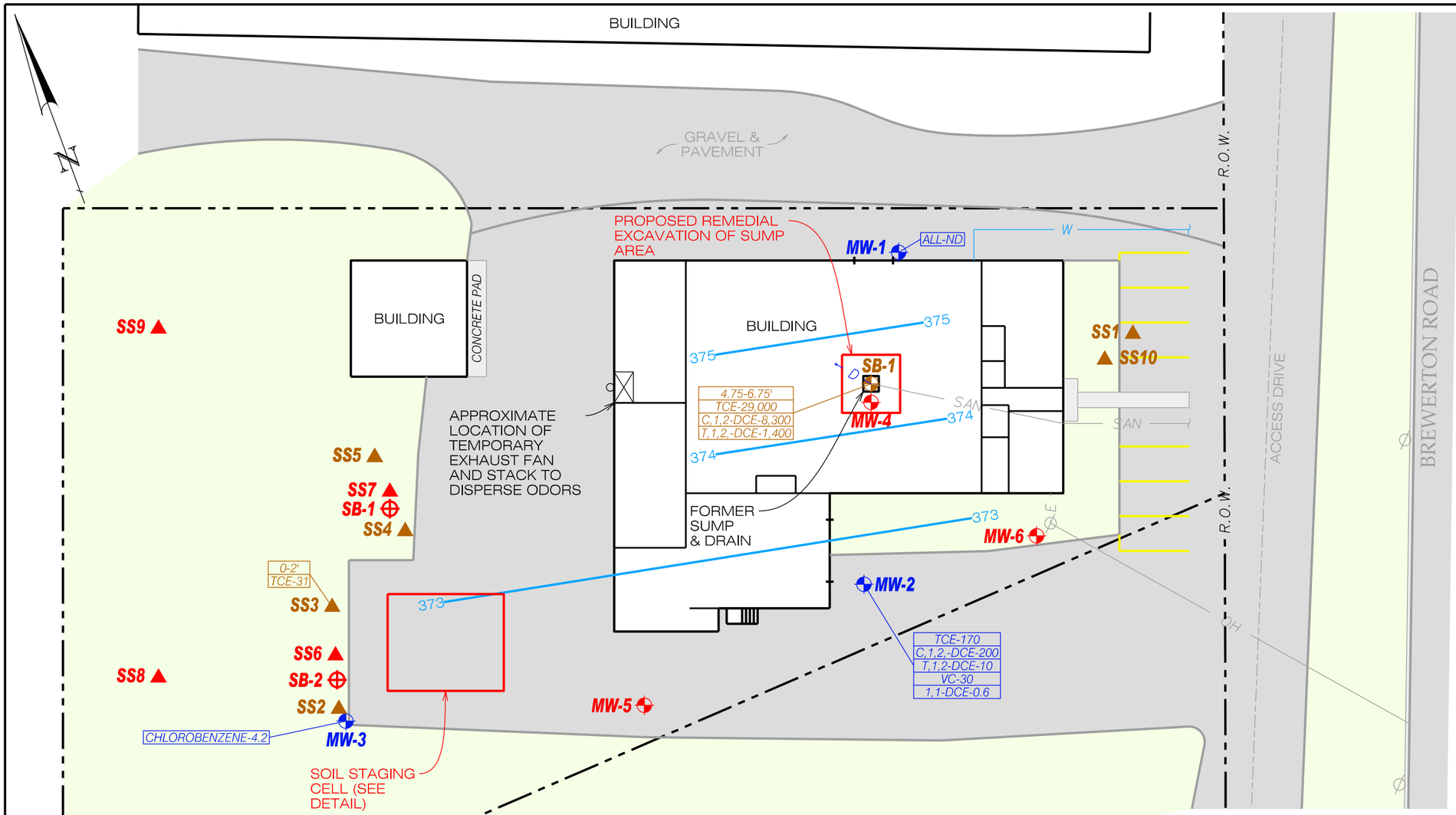
4.0 COMMUNITY AIR MONITORING PROGRAM

The CAMP outlined in the approved ENSR Investigation Work Plan will be implemented during intrusive investigation activities. Continuous VOC monitoring will also be included.

5.0 REPORT

At the completion of the scope of work described herein, a data report summarizing the remedial activities and soil confirmation sampling will be submitted to the DEC for review. The results will also be reported in the Supplemental Investigation Report.

FIGURES



Key

- R.O.W. — Right of Way
- Property Line
- Utility Pole
- E — Underground Electric
- OH — Overhead Utility
- D — Drainage LIne
- SAN — Sanitary Sewer Line
- W — Water Service Line
- MW-1 — Monitoring Well (December 2004)
- SB-1 — Soil Boring (December 2004)
- MW-4 — Proposed Monitoring Well
- SS1 — Surface Soil Sample (December 2004)
- SS8 — Proposed Surface Soil Sample (0-2")
- SB-2 — Proposed Soil Boring (0-2')
- 373 — Groundwater Contour (Based on 12/15/04 Data)
- DEPTH / VOC (ppb) — VOC Soil Analytical Results (12/04)
- VOC (PPB) — VOC Groundwater Analytical Results (12/04)

Basemap References:

1. *"Groundwater Flow Map, Former National Plating Facility, 1501 Brewerton Road, Syracuse, New York" Prepared by: ENSR International; Dated: February 10, 2005; Project No.: 10160-004.*

2. *"National Plating, Inc., 1501 Brewerton Road, Syracuse, New York, Site Layout" Dated: May 20, 1999.*

Plan View

1" = 30' SCALE — 15 0 15 30 FEET

DEC SITE: VCP00265-7

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REVISIONS:	DATE:	BY:
A ADDITIONAL SAMPLING LOCATIONS.	03/04/11	DRV

PROJECT: FORMER NATIONAL PLATING

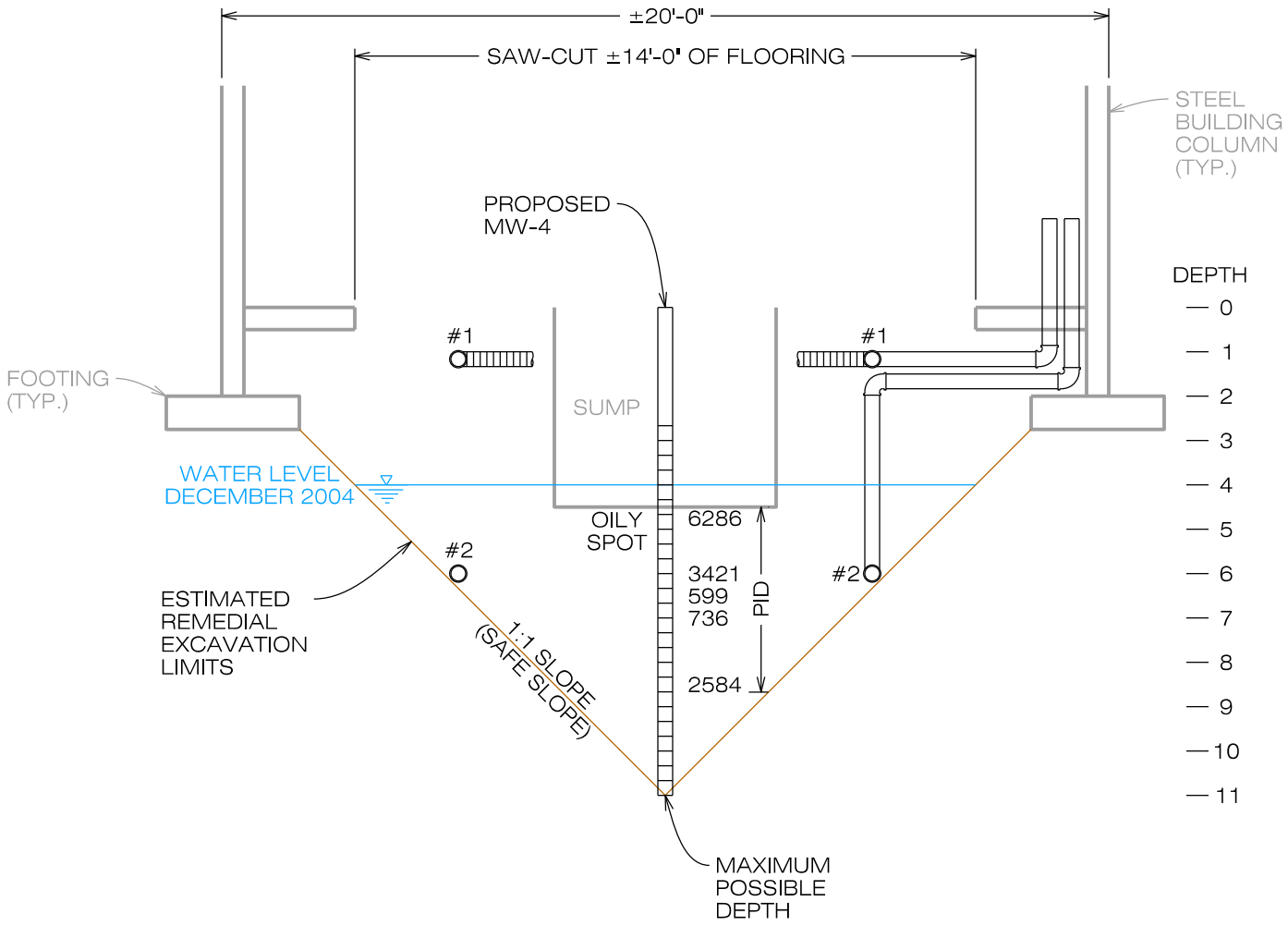
DWG. TITLE: SITE PLAN

CLIENT: D.H.J. REALTY CORP.

LOCATION: TOWN OF SALINA, ONONDAGA COUNTY, NEW YORK

PROJECT No.:	2010150
FILE NAME.:	EV01P
SCALE:	AS NOTED
DATE:	NOV. 2010
ENG'D BY:	DRV
DRAWN BY:	JMD
CHECKED BY:	DRV

SHEET NO.: FIGURE 1



CLAY SOILS, SOME SILT, TRACE GRAVEL

BACKFILL - FILTER FABRIC & WASHED #2 ROUNDED SAND STONE (NOT LIMESTONE)

REMEDIAL PIPING:

#1 SHALLOW 4" PERFORATED PVC LOOP FOR SVE/ INJECTION.
#2 SUBMERGED 4" PERFORATED PVC LOOP FOR INJECTION.
#3 4" VERTICAL WELL - GROUNDWATER MONITORING.

DEC SITE: VCP00265-7

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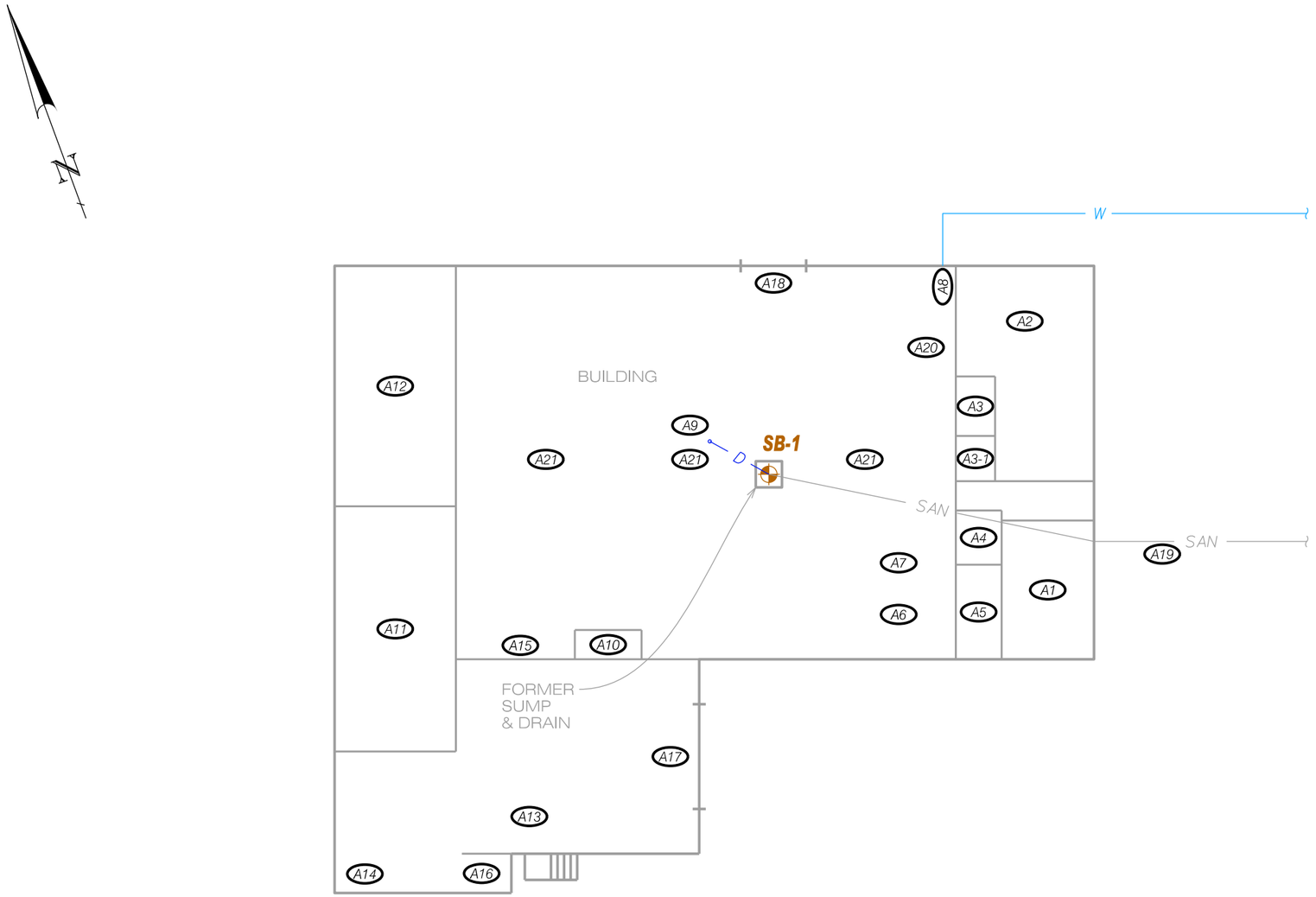
PROJECT: FORMER NATIONAL PLATING
DWG. TITLE: EXCAVATION LIMITS DETAIL
CLIENT: D.H.J. REALTY CORP.
LOCATION: TOWN OF SALINA, ONONDAGA COUNTY, NEW YORK

PROJECT No.: 2010150
FILE NAME.: FIGURE 2
SCALE: 1/4" = 1'-0"
DATE: NOV. 2010
ENG'D BY: DRV
DRAWN BY: JMD
CHECKED BY: DRV



Plan View

1" = 20' SCALE 10 0 10 20 FEET

DEC SITE: VCP00265-7

Key

- Conference Room
- Wiring & Assembly Room
- Bathroom
- Bathroom (Ladies Plant
- Coffee & Snack Room
- Utility Room
- Roof Top HAVC for Conference & Coffee Room, Wiring & Assembly Room, Wating Area & Utility Room
- Suspended Natural Gas Area
- Water Supply Entrance & Meter
- Location of Treated Water, Drain to Sump
- Men's Bathroom (Plant)
- Building Manitenece & Supply Room
- Casing Pattern Storage Room
- Suspended Natural Gas Heater
- Incoming Natural Gas
- Large Door From Mfg'g Area to Shipping & Recieving Area
- Air Compression Room
- Overhear Shipping & Recieving Door
- Same As A17 (Above)
- Sewer Inspection Cap
- Overhead Door to Wiring & Assembly Area
- 3 Places Building Support Columns

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REVISIONS: DATE: BY:

PROJECT: FORMER NATIONAL PLATING

DWG. TITLE: BUILDING LAYOUT

CLIENT: D.H.J. REALTY CORP.

LOCATION: TOWN OF SALINA, ONONDAGA COUNTY, NEW YORK

PROJECT No.:	2010150
FILE NAME.:	FIGURE3
SCALE:	AS NOTED
DATE:	NOV. 2010
ENG'D BY:	DRV
DRAWN BY:	JMD
CHECKED BY:	DRV

SHEET NO.: FIGURE 3