Department of Energy

Ohio Field Office
Fernald Area Office
P. O. Box 538705
Cincinnati, Ohio 45253-8705
(513) 648-3155

--2624

NOV 24 1999

Mr. James A. Saric, Remedial Project Manager
U.S. Environmental Protection Agency
Region V, SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0182-00

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

TRANSMITTAL OF THE OCTOBER 1999 MONTHLY REPORT FOR IMPACTED MATERIAL PLACEMENT AT THE ON-SITE DISPOSAL FACILITY

Enclosed for your information is the October 1999 Monthly Report for Impacted Material Placement at the On-Site Disposal Facility (OSDF). The following information is included:

Air monitoring sampling data - October 1999 readings from the OSDF and Southern Waste Units (SWU)

- Placement graphs –
  - Daily Soil to Debris Ratio
  - October Category 1 Soil Placement with projected November placement
  - October Debris Placement with projected November placement
  - October Total Placement with projected November placement
  - October Above-Grade Debris Placement with projected November placement
  - October At- or Below-Grade Debris Placement with projected November placement
  - Projected Optimization Plan Banked/Bulked cubic yards versus Manifest Quantities
  - Projected Optimization Plan In-place cubic yards versus Actual Quantities

- Current surface plan views - Cell 1 and Cell 2 plan views showing the current lift of impacted material as of October 29, 1999

- OSDF cross sections - Selected cross sections looking north and west showing placement progress and projections for November 30, 1999.

Summary

Approximately 39,000 in-place cubic yards of impacted material were placed during October 1999. Approximately 164,000 in-place cubic yards of impacted material has been placed from June 8, 1999 through October 29, 1999. This quantity is based on surveyed quantities. Approximately 5,000 in-place cubic yards of this total was placed as protective cover in Cell 3 at the end of October.

As of October 29, 1999, Cell 1 has approximately reached 75 percent of its impacted material storage capacity. Cell 2 has approximately reached 40 percent of its impacted material storage capacity. Placement of protective cover in Cell 3 has just begun.

The current surface plans for Cell 1 and Cell 2 show the category of impacted material placed at each grid. The latest lift is noted on the grid along with the quantity of that lift and the date it was placed. Grids with the same lift number will not necessarily contain the same category of material.

Impacted material was placed in accordance with the Impacted Material Placement Plan in both Cell 1 and Cell 2. Category 5 material was placed in trenches in Cell 2. A Category 5 placement location is shown on Cross Sections F-F'. Category 3 material was placed in Cell 2 in grid F-9 as shown in Cross Section F-F'. Also, placement of Category 1 material continued between the intercell berm separating Cell 1 and Cell 2, and the impacted material sideslope in Cell 1. This placement is shown in Cross Section F-F' and G-G'. Placement in the Cell 1 catchment area continued.

Some of the projected elevations for October were not achieved due to concentration on placing protective cover in Cell 3. It is anticipated that the projected elevations will be achieved by the end of November.

If you have any questions or concerns regarding these documents, please contact Jay Jalovec at (513) 648-3122.

Sincerely,

Wayne Pasko
for Johnny W. Reising
Fernald Remedial Action
Project Manager

FEMP:Jalovec

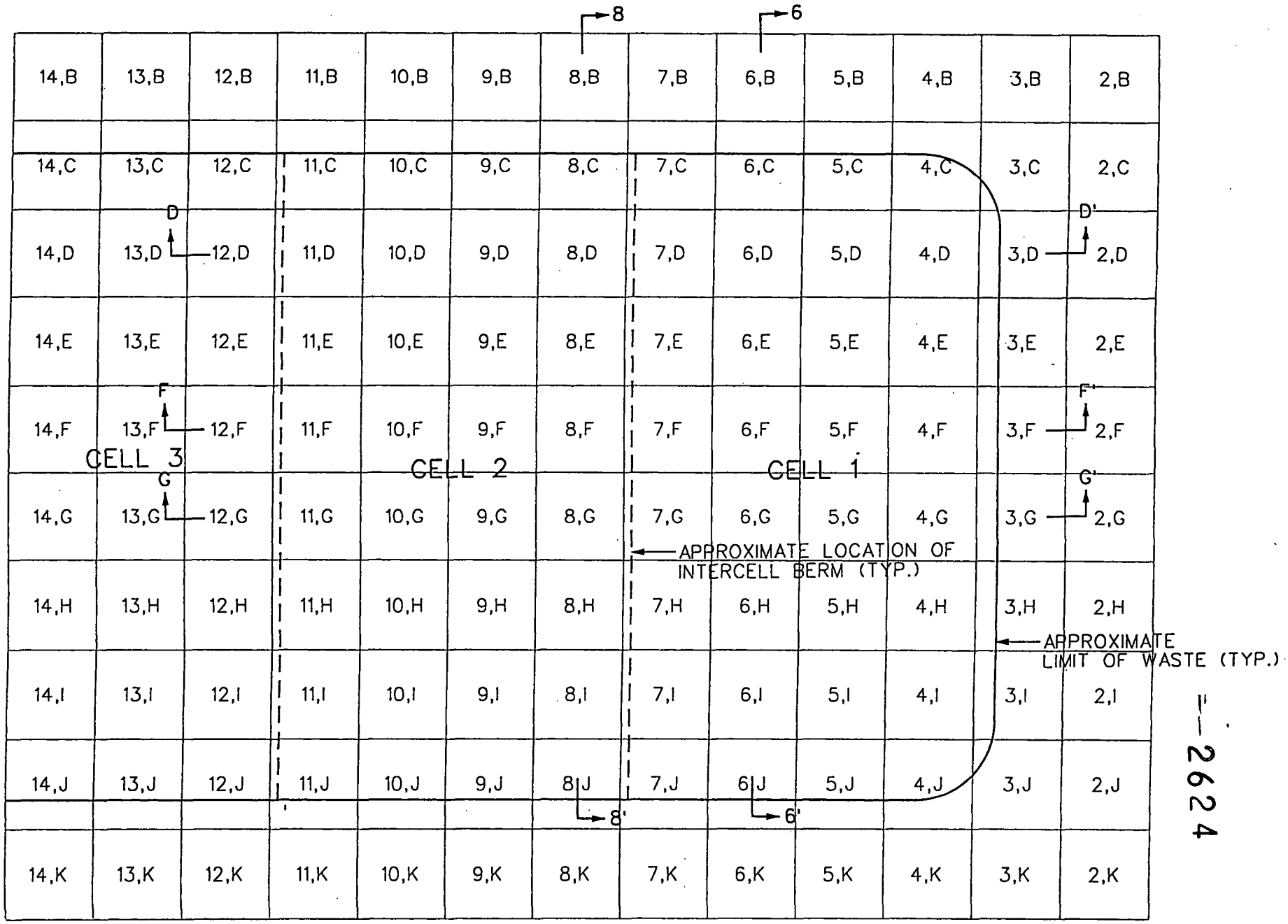
Enclosure

2624

cc w/enclosure:
N. Hallein, EM-42/CLOV
G. Jablonowski, USEPA-V, SRF-5J
T. Schneider, OEPA - Dayton (three copies of enclosure)
F. Bell, ATSDR
M. Schupe, HSI GeoTrans
R. Vandegrift, ODH
F. Barker, Tetra Tech
AR Coordinator, FDF/78

cc w/o enclosure:
J. Reising, OH/FEMP
A. Tanner, OH/FEMP
J. Burnett, Geosyntec/38
D. Carr, FDF/52-2
J. Chiou, FDF/52-0
T. Hagen, FDF/65-2
J. Harmon, FDF/90
R. Heck, FDF/2
M. Hickey, FDF/64
S. Hinnefeld, FDF/31
A. Klimek, FDF/64
U. Kumthekar, FDF/64
T. Walsh, FDF/65-2
C. VanArsdale, FDF/64
ECDC, FDF/52-7

OSDF GRID KEY PLAN



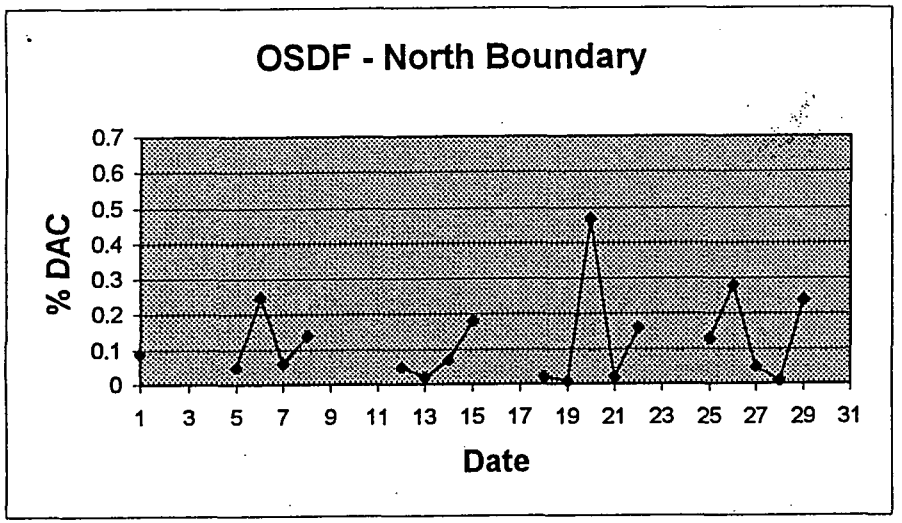
cell1.dgn

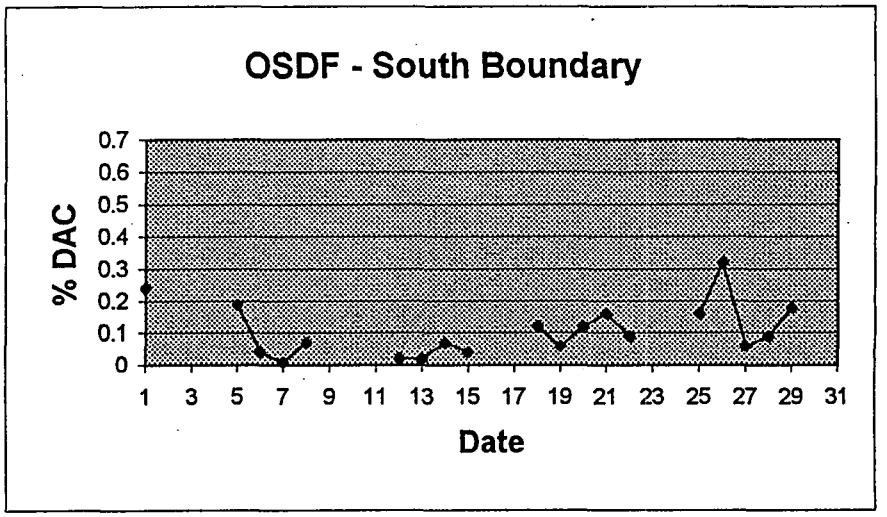
2624

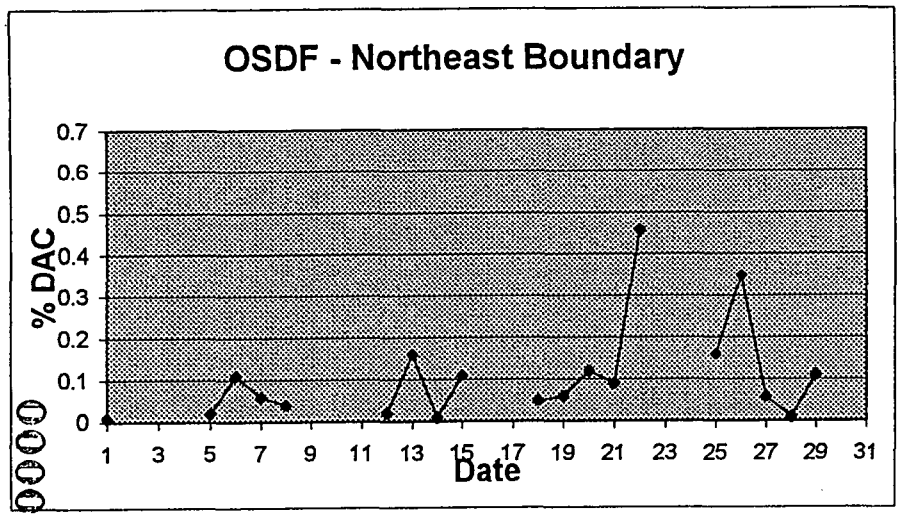
000004

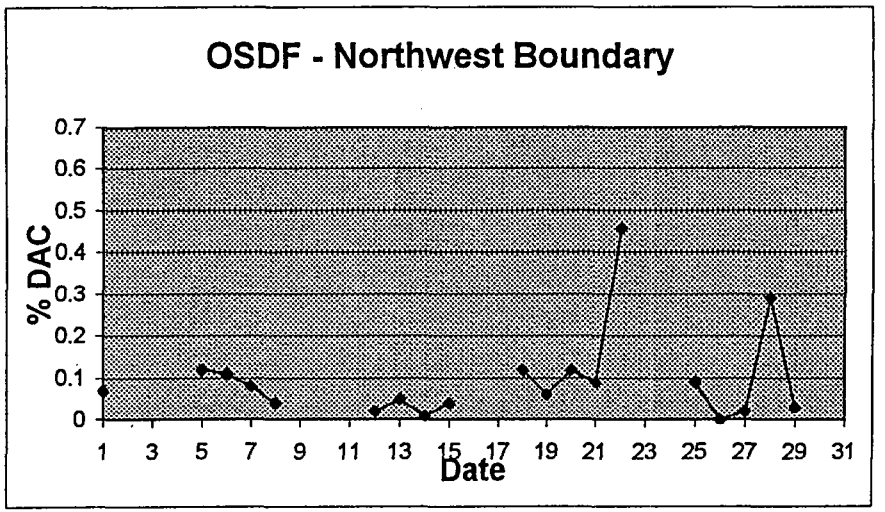
OSDF BOUNDARY AIR SAMPLES - OCTOBER 1999

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
N. BNDY	0.09				0.05	0.25	0.06	0.14				0.05	0.02	0.07	0.18			0.02	0.01	0.47	0.02	0.16			0.13	0.28	0.05	0.01	0.24		
S. BNDY	0.24				0.19	0.04	0.01	0.07				0.02	0.02	0.07	0.04			0.12	0.06	0.12	0.16	0.09			0.16	0.32	0.06	0.09	0.18		
NE. BNDY	0.01				0.02	0.11	0.06	0.04				0.02	0.16	0.01	0.11			0.05	0.06	0.12	0.09	0.46			0.16	0.35	0.06	0.01	0.11		
NW. BND	0.07				0.12	0.11	0.08	0.04				0.02	0.05	0.01	0.04			0.12	0.06	0.12	0.09	0.46			0.09	0	0.02	0.29	0.03		
SE. BNDY																										0.14	0.06	0.15	0.03		
SW. BNDY																										0.08	0.13	0.15	0.11		





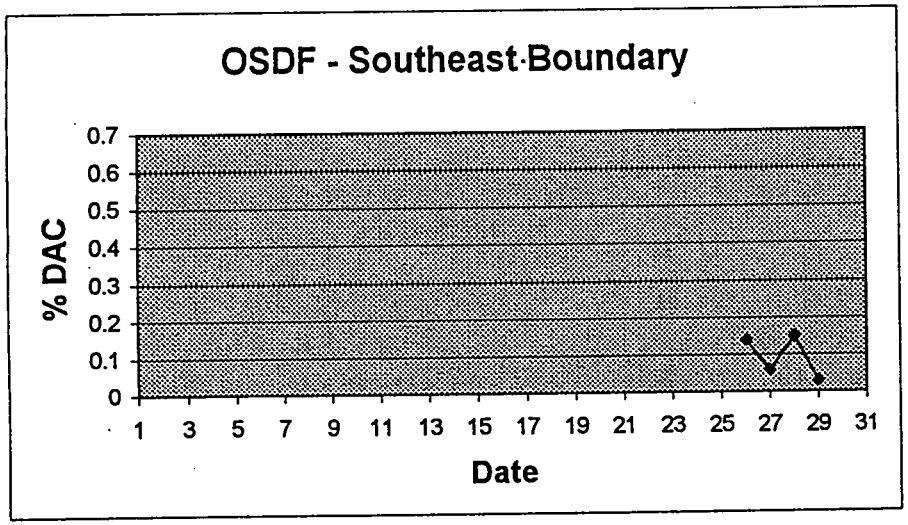


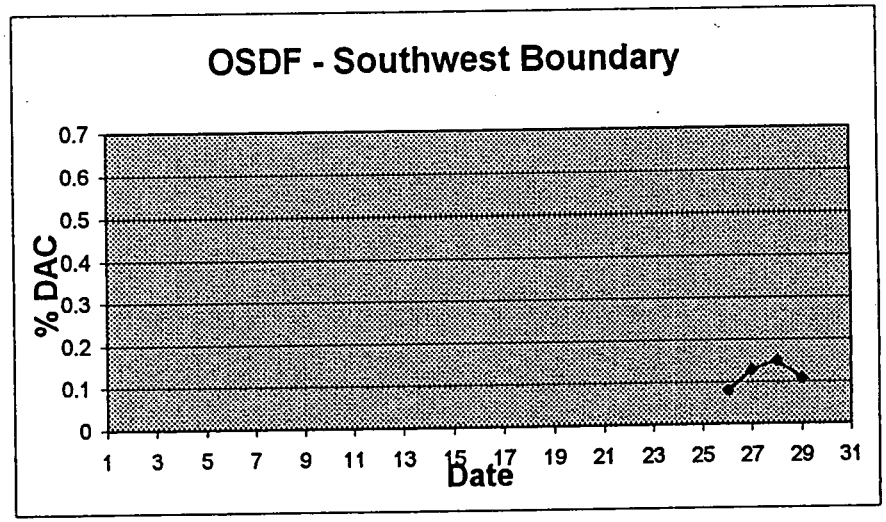


Action level for radiological (occupational) air monitoring is 2% DAC. Isotope of concern is U-238; associated DAC is 2E-11 uCi/ml.

000005

--2624





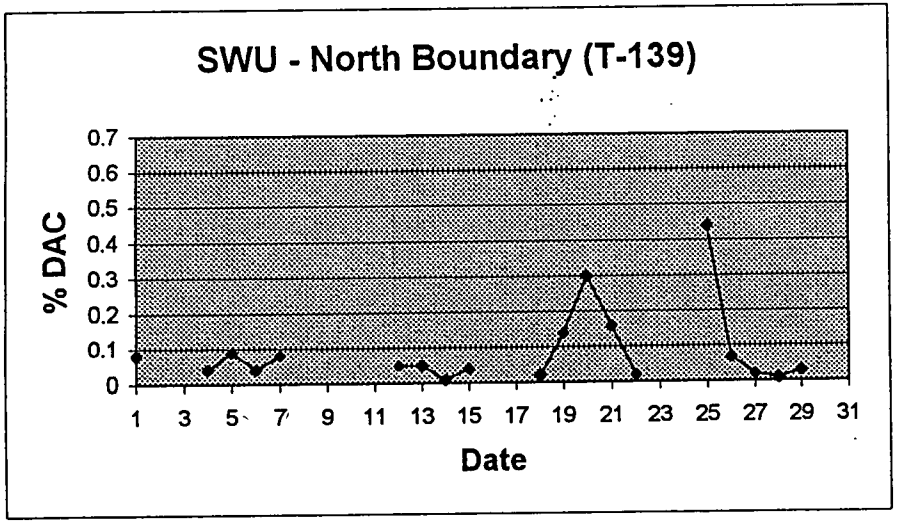
000006

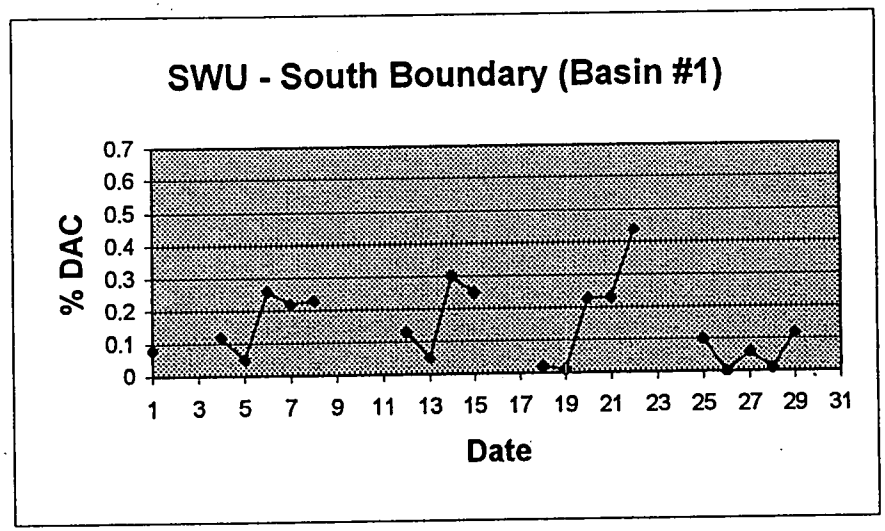
F-2624

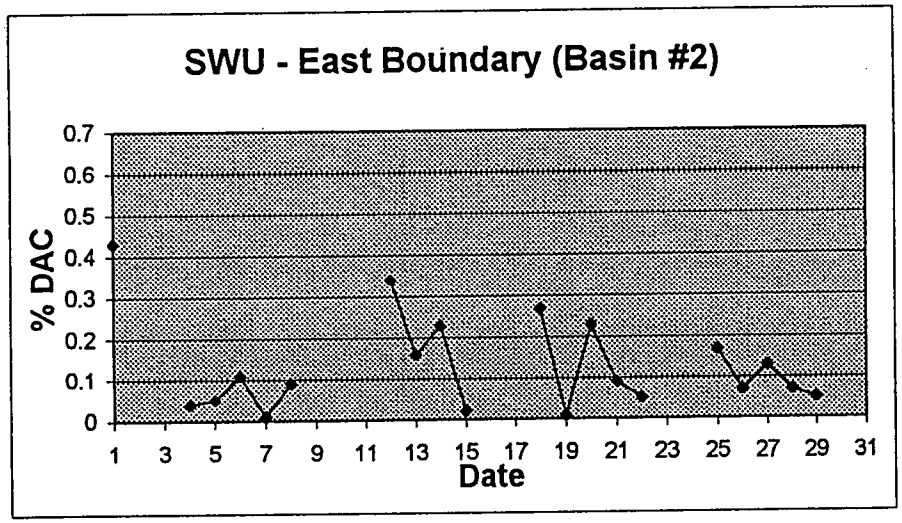
Action level for radiological (occupational) air monitoring is 2% DAC. Isotope of concern is U-238; associated DAC is 2E-11 uCi/ml.

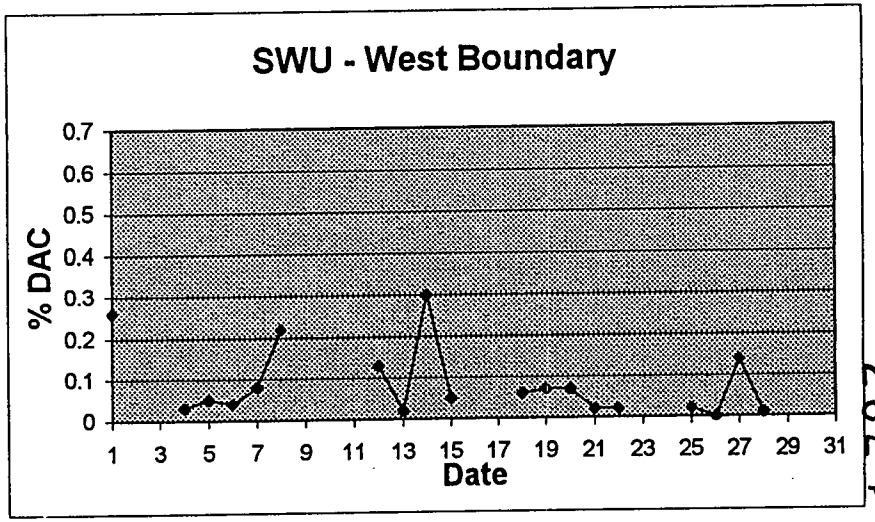
SWU BOUNDARY AIR SAMPLES - OCTOBER 1999

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
N. BNDY	0.08			0.04	0.09	0.04	0.08					0.05	0.05	0.01	0.04			0.02	0.14	0.3	0.16	0.02			0.44	0.07	0.02	0.01	0.03		
S. BNDY	0.08			0.12	0.05	0.26	0.22	0.23				0.13	0.05	0.3	0.25			0.02	0.01	0.23	0.23	0.44			0.1	0	0.06	0.01	0.12		
E. BNDY	0.43			0.04	0.05	0.11	0.01	0.09				0.34	0.16	0.23	0.02			0.27	0.01	0.23	0.09	0.05			0.17	0.07	0.13	0.07	0.05		
W. BNDY	0.26			0.03	0.05	0.04	0.08	0.22				0.13	0.02	0.3	0.05			0.06	0.07	0.07	0.02	0.02			0.02	0	0.14	0.01			
AFP																										0.45	0.09	0.06			
BASIN #3																											0.13	0.2			





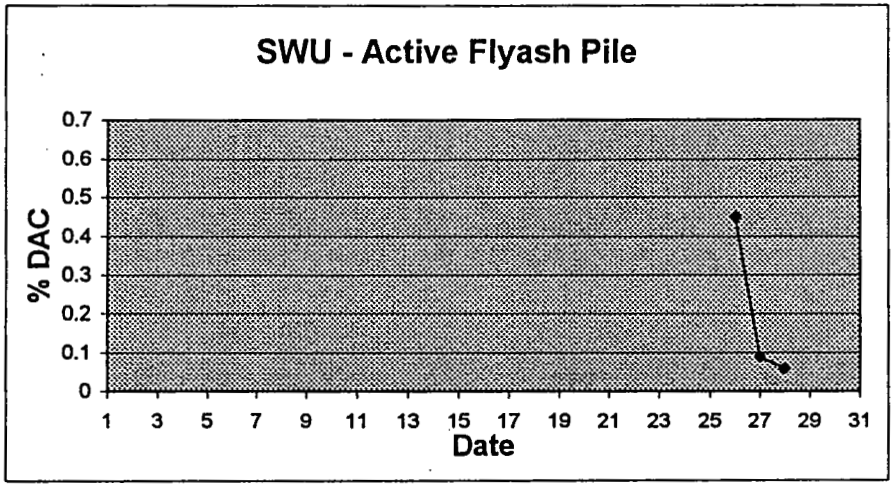


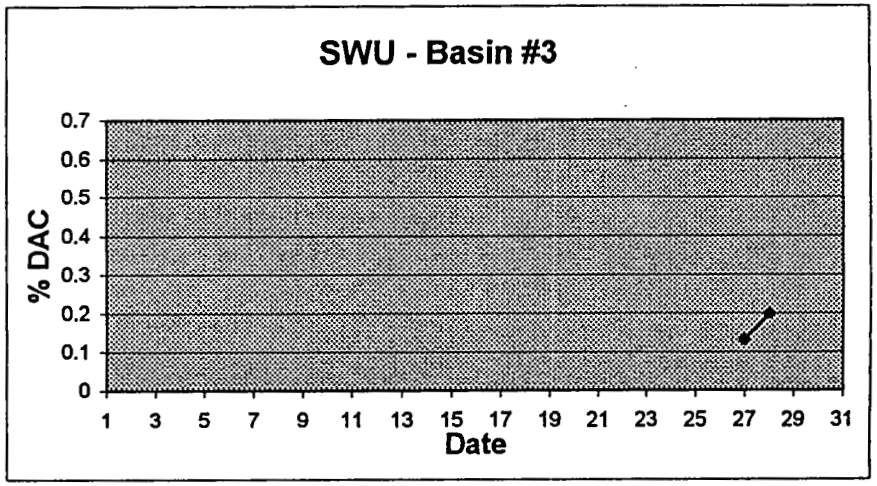


Action level for radiological (occupational) air monitoring is 2% DAC. Isotope of concern is U-238; associated DAC is 2E-11 uCi/ml.

000007

-2624

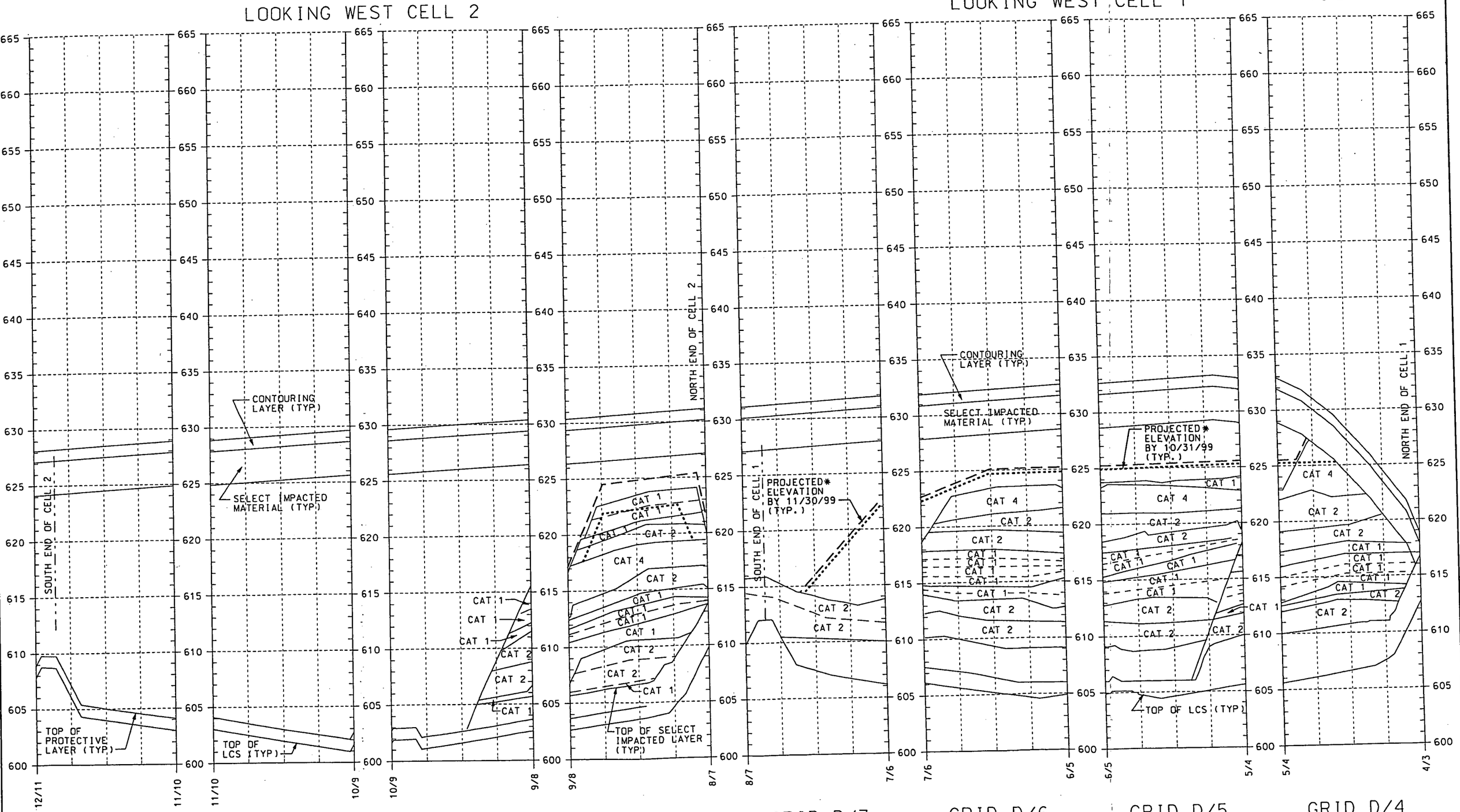




000008

2624

Action level for radiological (occupational) air monitoring is 2% DAC. Isotope of concern is U-238; associated DAC is 2E-11 uCi/ml.



REVISED 11/1/99 (10/22/99 SURVEY)

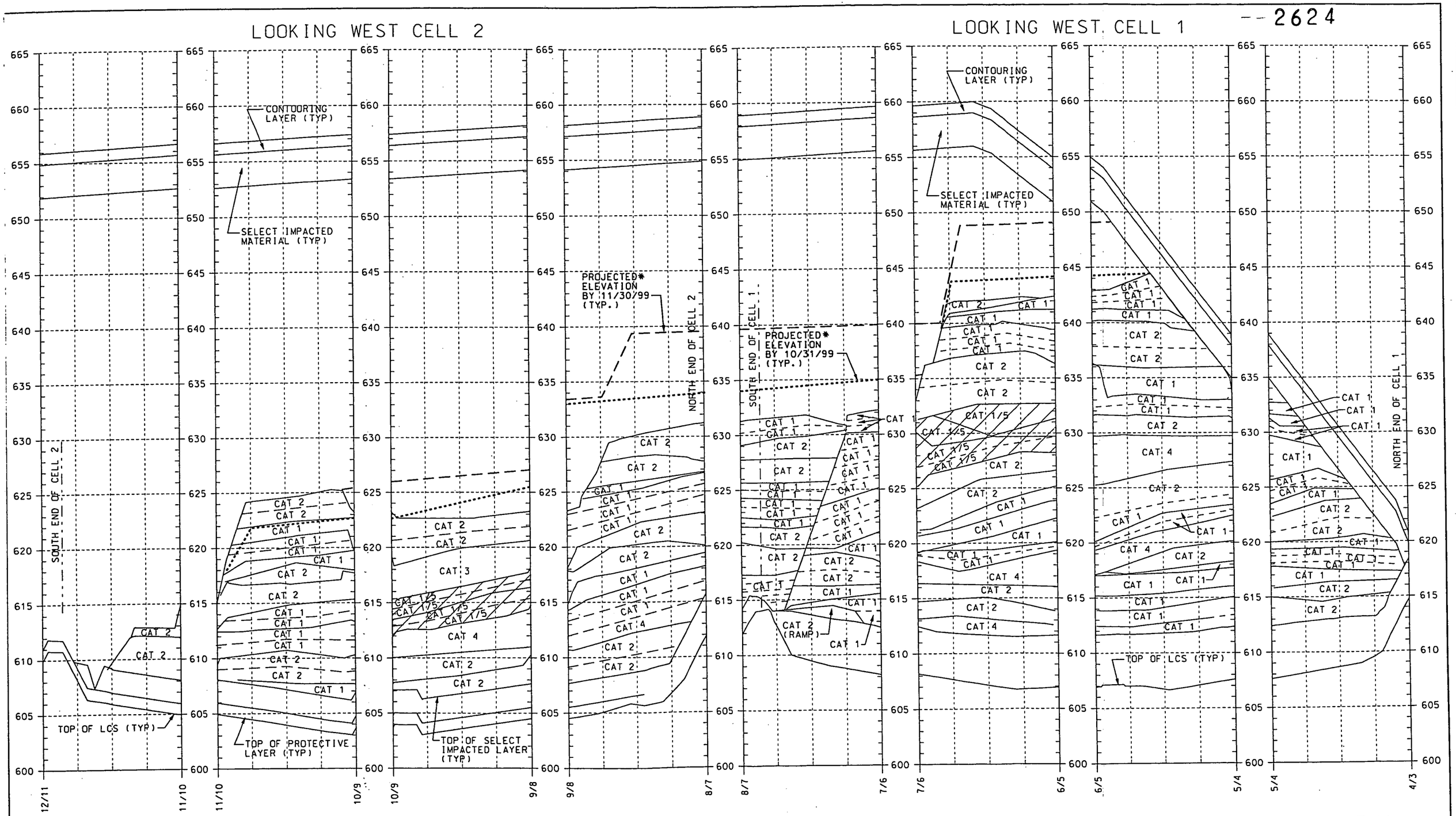
SECTION D-D'

REVISED 11/1/99 (10/29/99 SURVEY)

000009

octsect.dgn

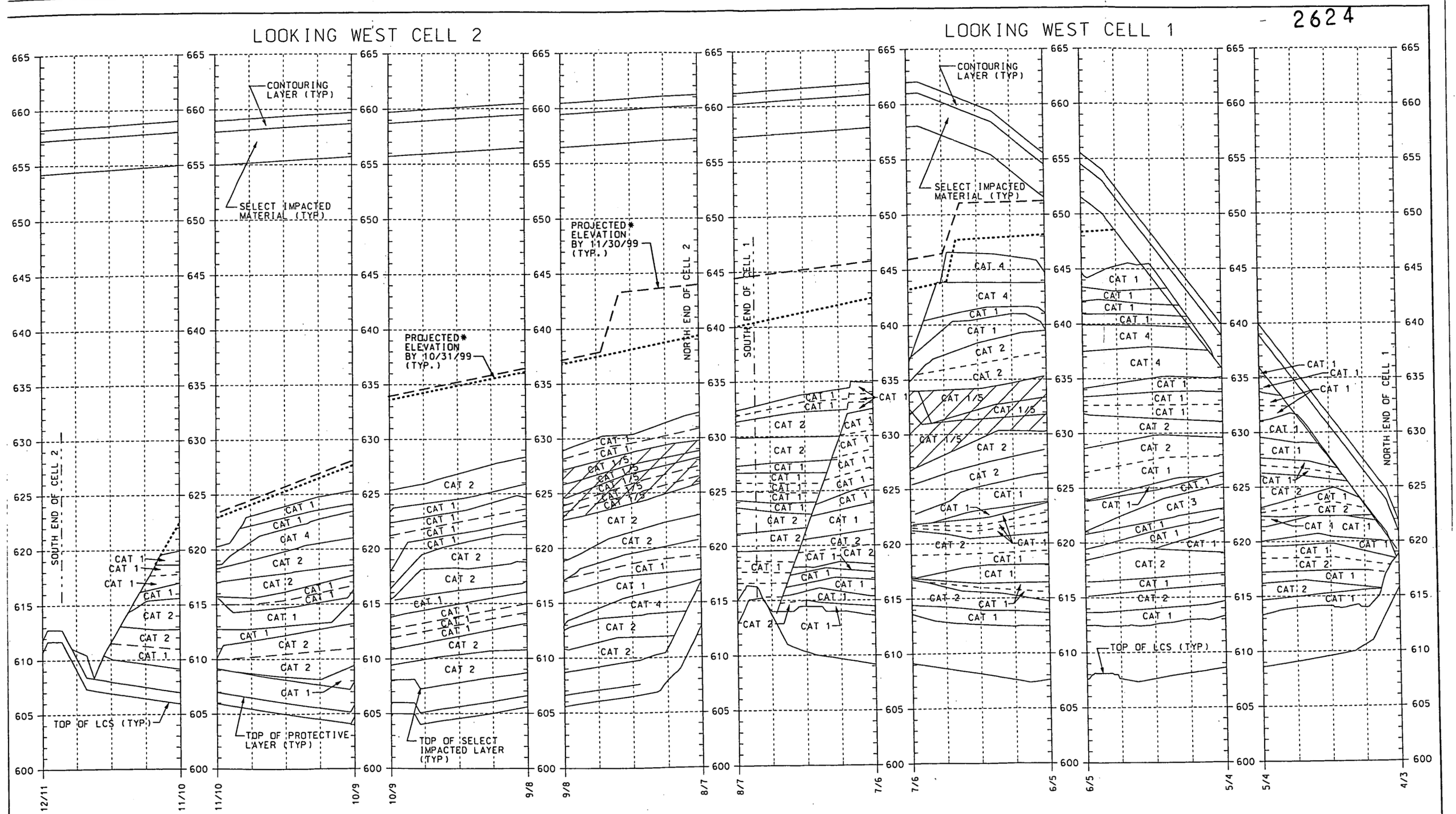
* PROJECTED ELEVATIONS ARE BASED ON PROJECTED IMPACTED MATERIAL VOLUMES TO BE PLACED. LOCATION OF IMPACTED MATERIAL PLACEMENT MAY VARY DUE TO FIELD CONDITIONS.



* PROJECTED ELEVATIONS ARE BASED ON PROJECTED IMPACTED MATERIAL VOLUMES TO BE PLACED. LOCATION OF IMPACTED MATERIAL PLACEMENT MAY VARY DUE TO FIELD CONDITIONS.

octsect.dgn

2624



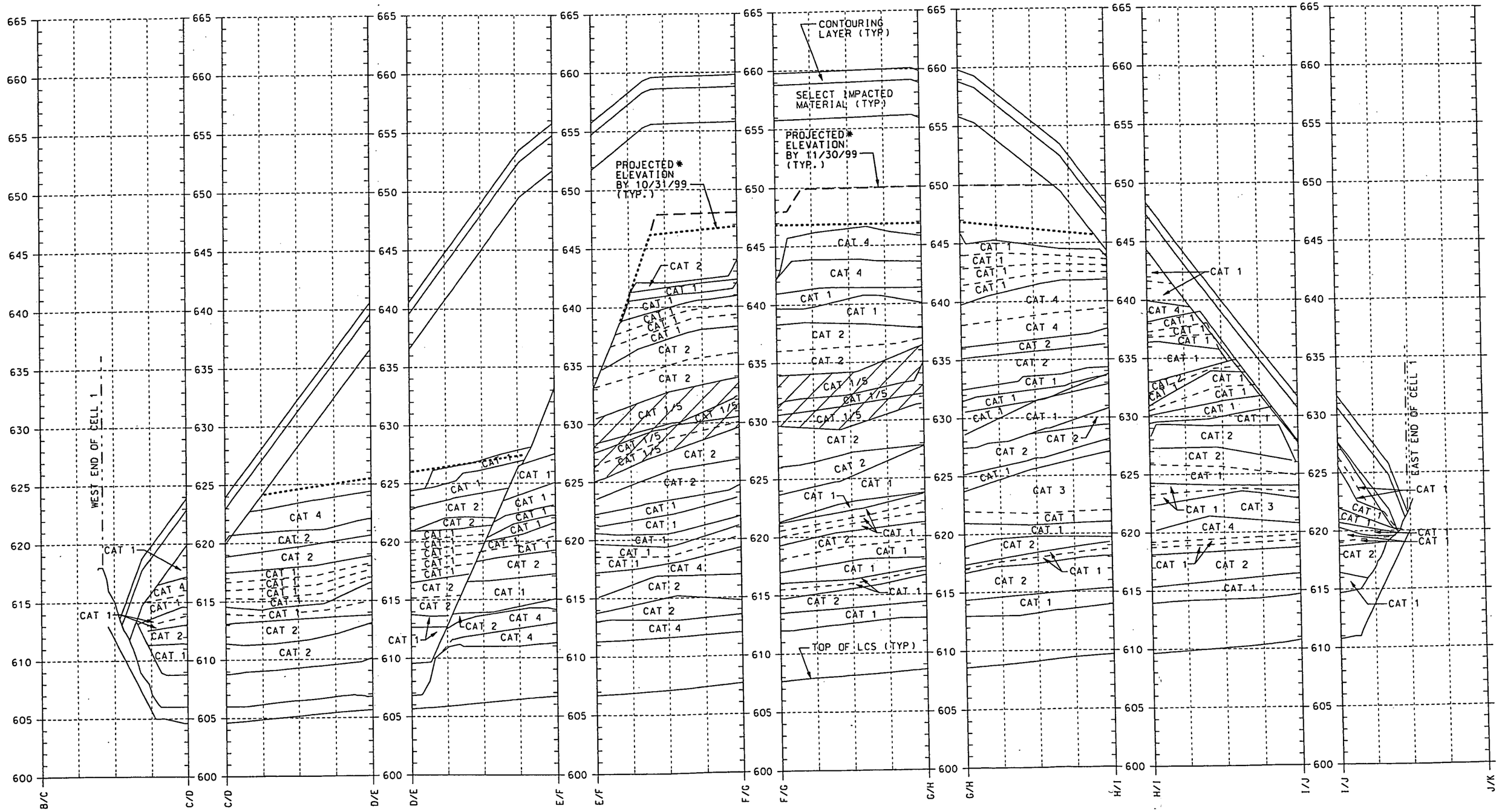
REVISED 11/1/99 (10/29/99 SURVEY) SECTION G-G' REVISED 11/1/99 (10/29/99 SURVEY)

000011

* PROJECTED ELEVATIONS ARE BASED ON PROJECTED IMPACTED MATERIAL VOLUMES TO BE PLACED. LOCATION OF IMPACTED MATERIAL PLACEMENT MAY VARY DUE TO FIELD CONDITIONS.

octsect.dgn

LOOKING NORTH CELL 1



SECTION 6-6'

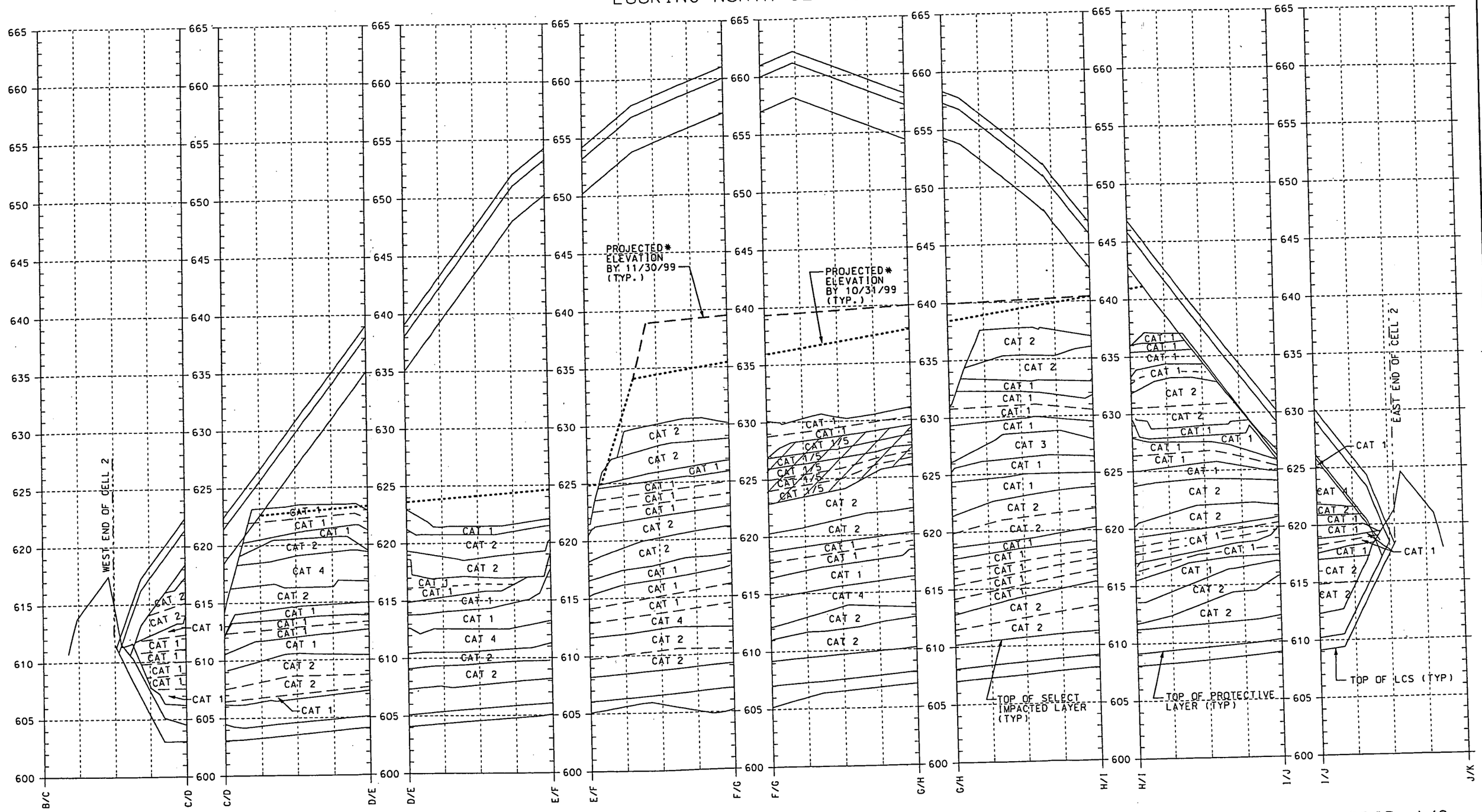
REVISED 11/1/99 (10/29/99 SURVEY)

* PROJECTED ELEVATIONS ARE BASED ON PROJECTED IMPACTED MATERIAL VOLUMES TO BE PLACED. LOCATION OF IMPACTED MATERIAL PLACEMENT MAY VARY DUE TO FIELD CONDITIONS.

octsect.dgn

2624

LOOKING NORTH CELL 2



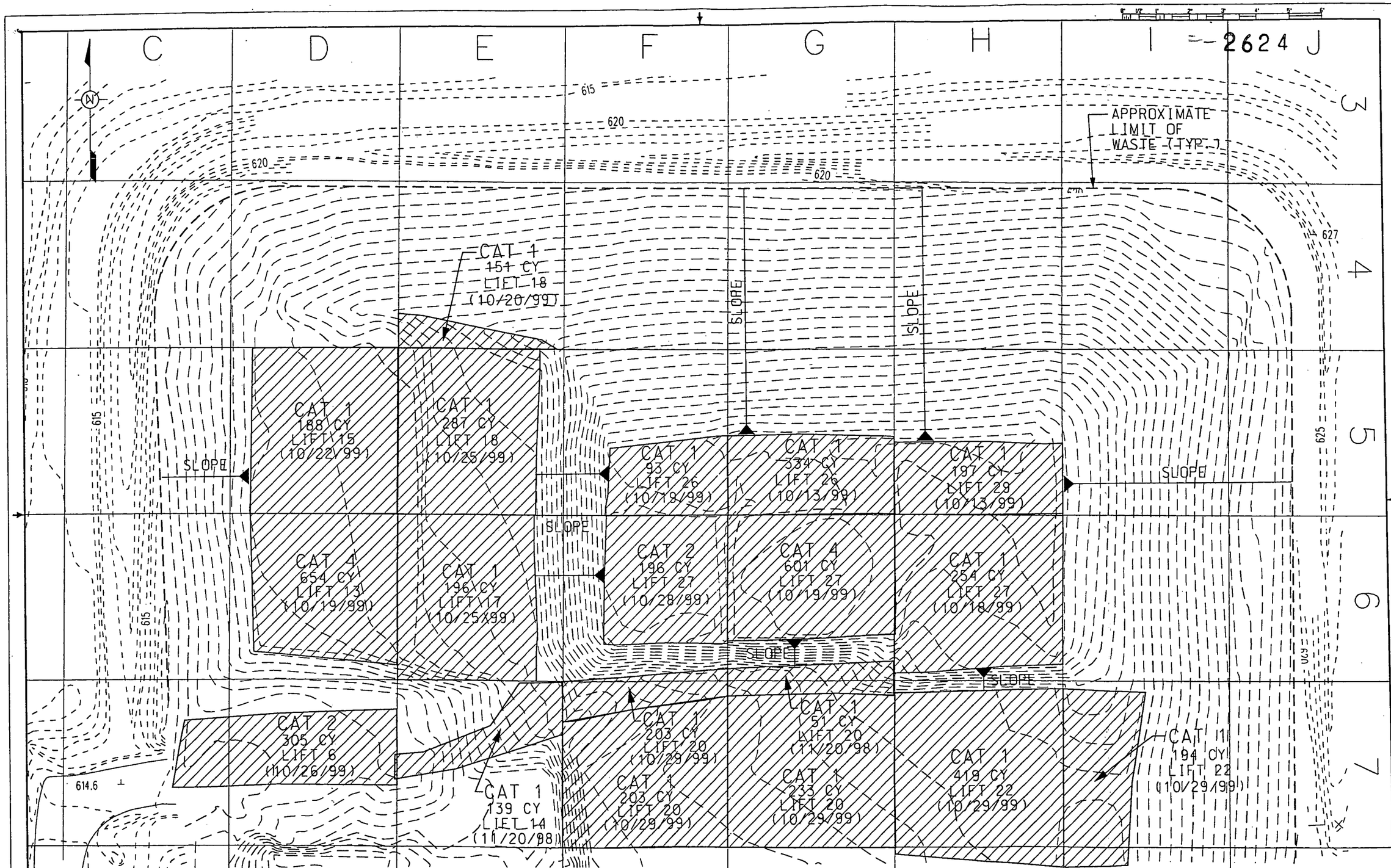
SECTION 8-8'

REVISED 11/1/99 (10/29/99 SURVEY)

000013

octsect.dgn

* PROJECTED ELEVATIONS ARE BASED ON PROJECTED IMPACTED MATERIAL VOLUMES TO BE PLACED. LOCATION OF IMPACTED MATERIAL PLACEMENT MAY VARY DUE TO FIELD CONDITIONS.



CELL 1 CURRENT SURFACE PLAN AS OF 10/29/99

000014

NO.	REVISIONS	DATE	DWN. BY	APPD.	NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.

NOTE: FLUOR DANIEL FERNALD CADD DRAWING. DO NOT REVISE MANUALLY.

CONFIGURATION MANAGEMENT DRAWING

COGNIZANT ENGINEER DATE

APPROVALS

CIVIL & STR.		SAFETY ENG.	
ELECTRICAL		MAINTENANCE	
ENGINEER		FIRE PROTECT.	
INSTRUMENT		WASTE MANAGE.	
MECHANICAL		SECURITY	
		PROJECTS	
CHECKED			
APPROVED			

Fernald Environmental Management Project

FLUOR DANIEL FERNALD

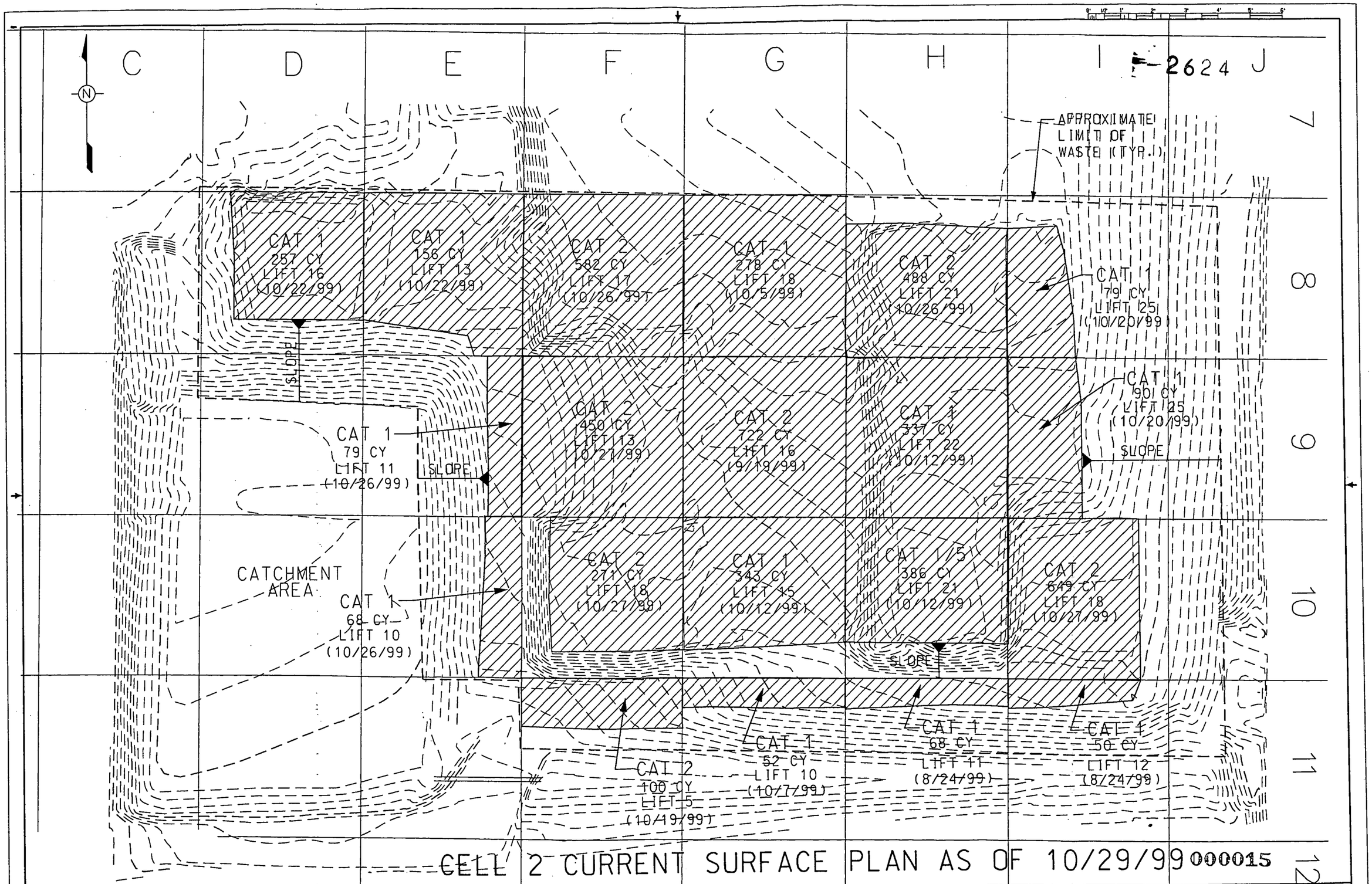
U.S. DEPARTMENT OF ENERGY

CELL 1
TOP LIFT PLAN
CATEGORY PLACEMENT

DATE 11/9/99
DRAWN DRF

FILE NAME: loct.dgn

FORMAT REVISED 10/3/96
FORMAT REVISED 6/29/98



CELL 2 CURRENT SURFACE PLAN AS OF 10/29/99 000015

LEGEND:

SURVEYED AREAS

NO.	REVISIONS	DATE	DWN. BY	APPD.	NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.

NOTE: FLUOR DANIEL FERNALD CADD DRAWING. DO NOT REVISE MANUALLY.

CONFIGURATION MANAGEMENT DRAWING

SYSTEMS, STRUCTURES OR COMPONENTS DEPICTED ON THIS DRAWING ARE UNDER CONFIGURATION MANAGEMENT CONTROL. SEE NOTES.

COGNIZANT ENGINEER DATE

APPROVALS

CIVIL & STR.		SAFETY ENG.	
ELECTRICAL		MAINTENANCE	
ENGINEER		FIRE PROTECT.	
INSTRUMENT		WASTE MANAGE	
MECHANICAL		SECURITY	
CHECKED		PROJECTS	
APPROVED			

Fernald Environmental Management Project

FLUOR DANIEL FERNALD

U.S. DEPARTMENT OF ENERGY

CELL 2
TOP LIFT PLAN
CATEGORY PLACEMENT

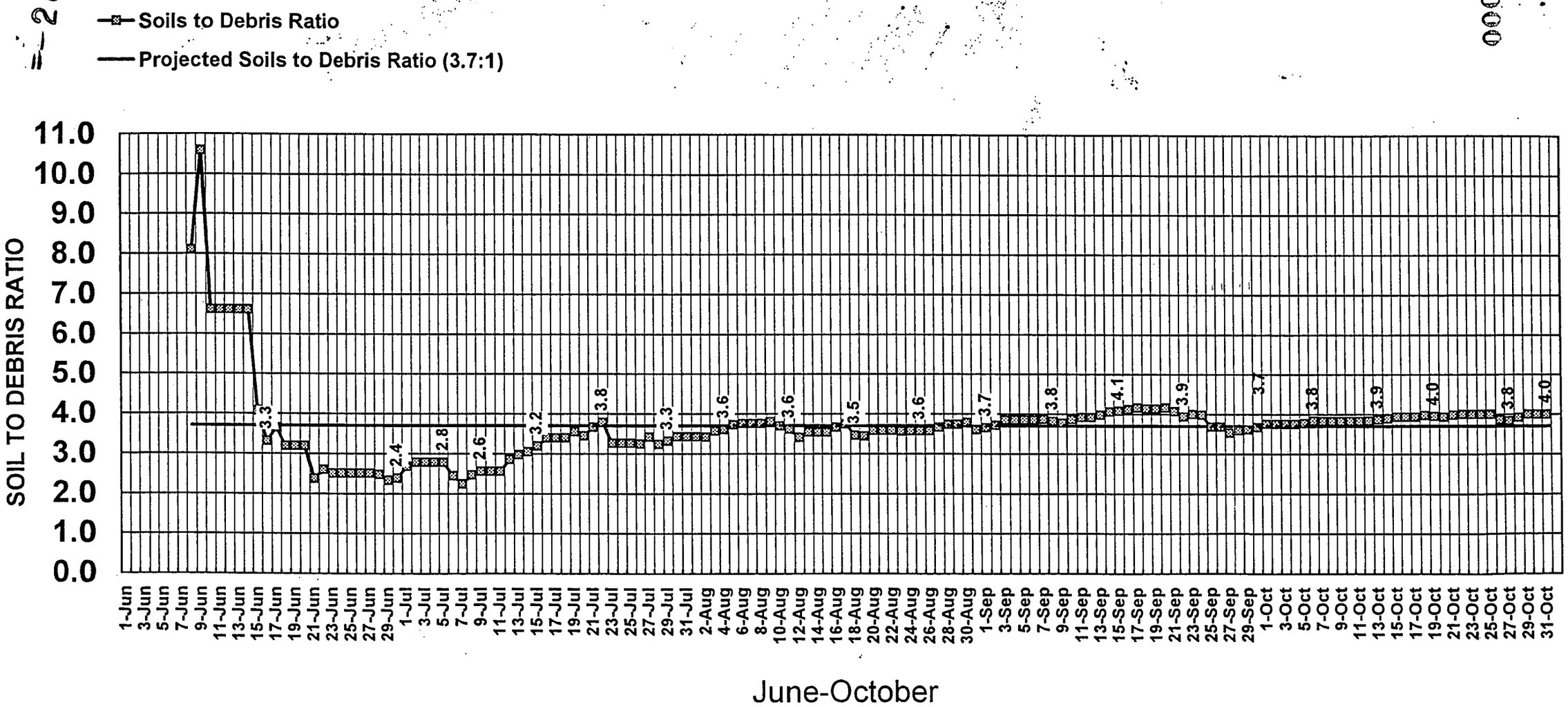
DATE 11/9/99
DRAWN DRF

FILE NAME: 2oct.dgn

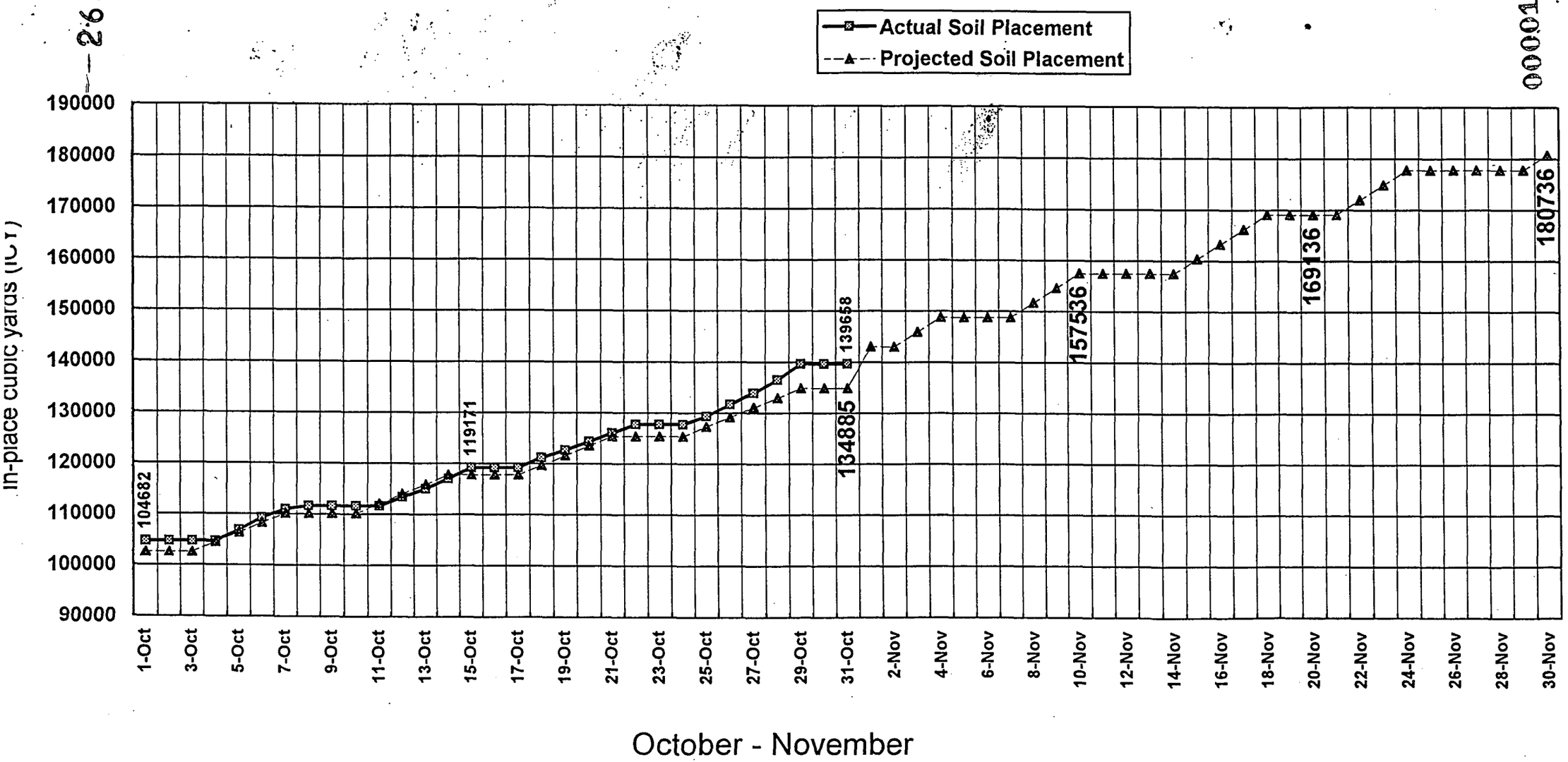
Soils to Debris Ratio

2624

000016



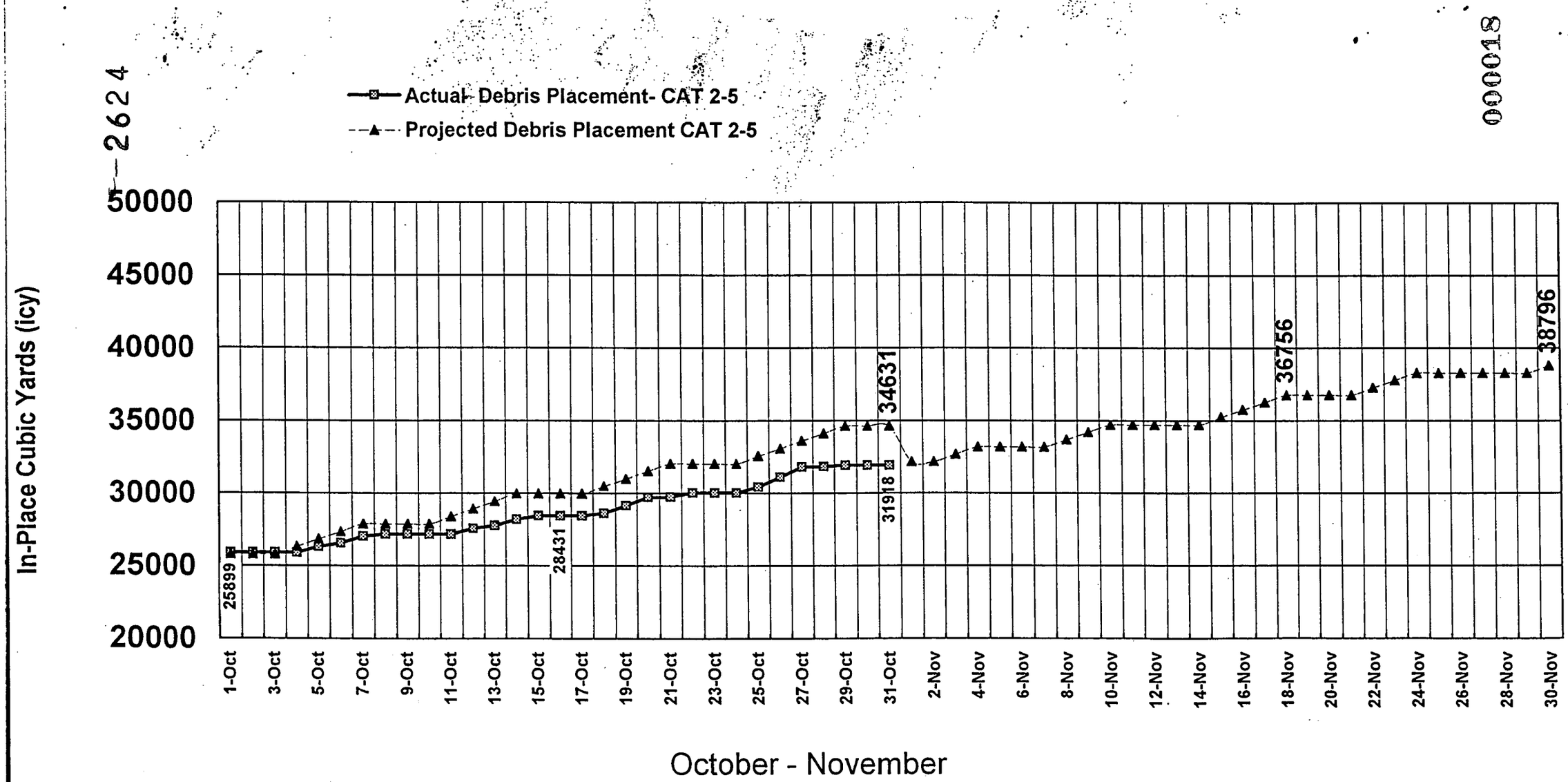
CAT 1 Soil Placement



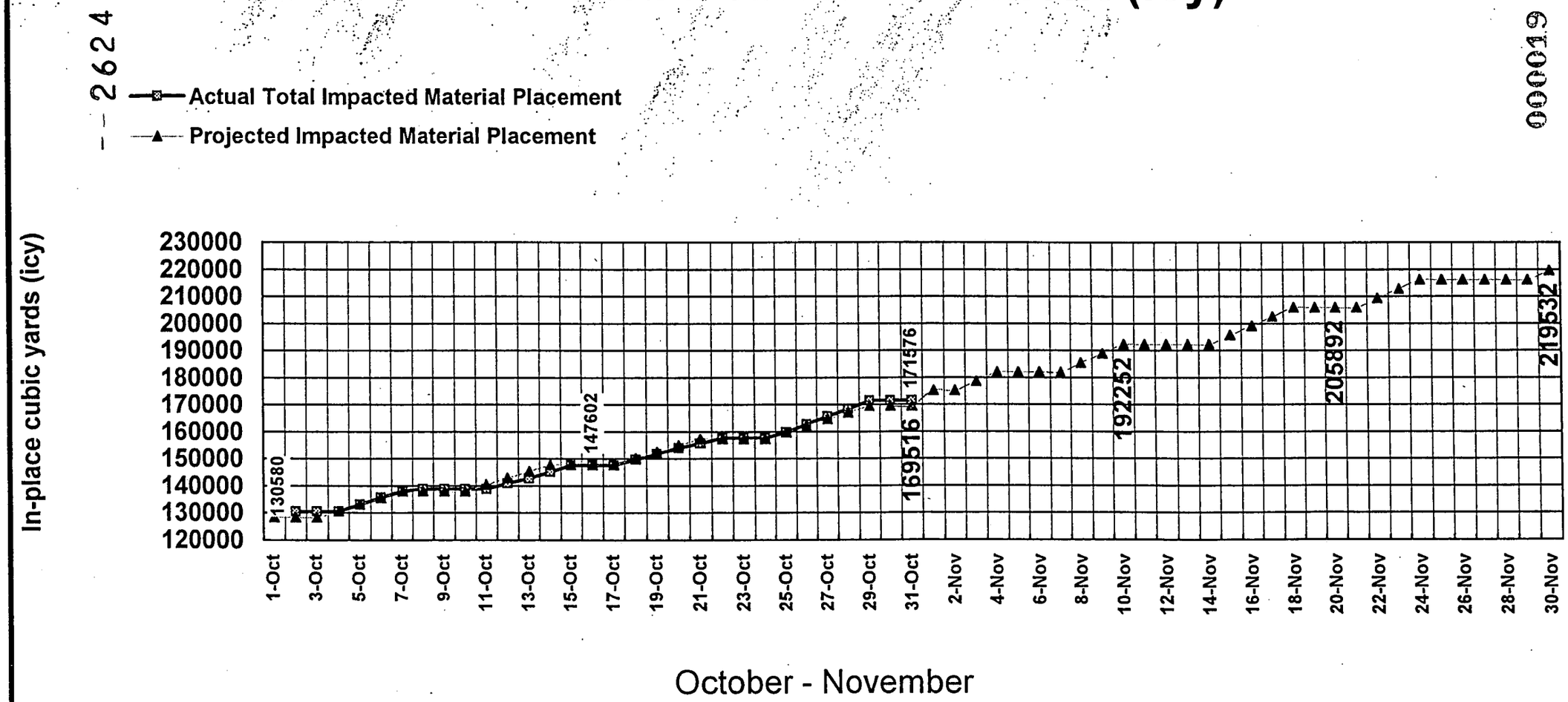
2624

000017

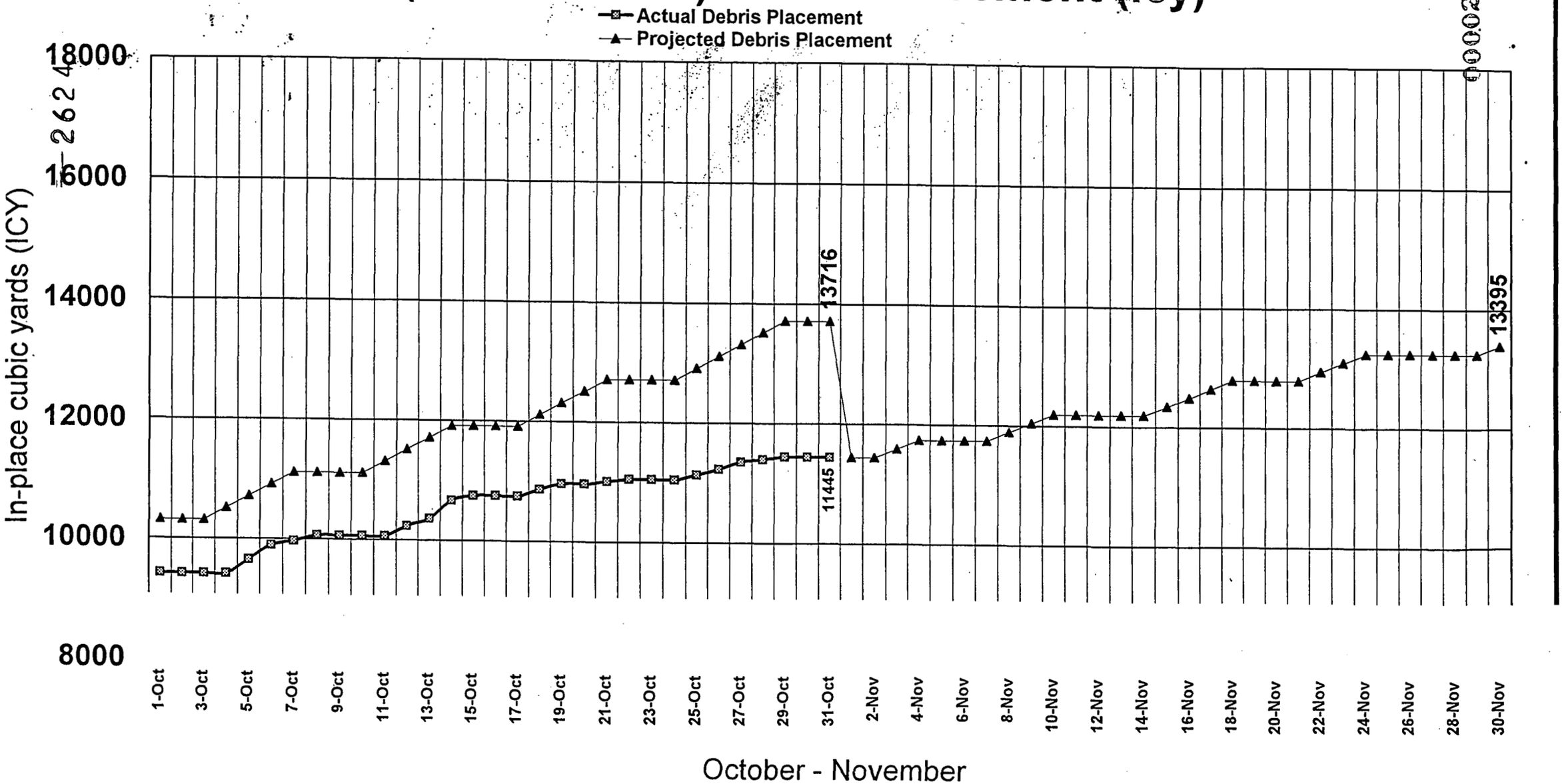
Debris Placement



Total Soil and Debris Placement (icy)



D & D (Above Grade) Debris Placement (icy)

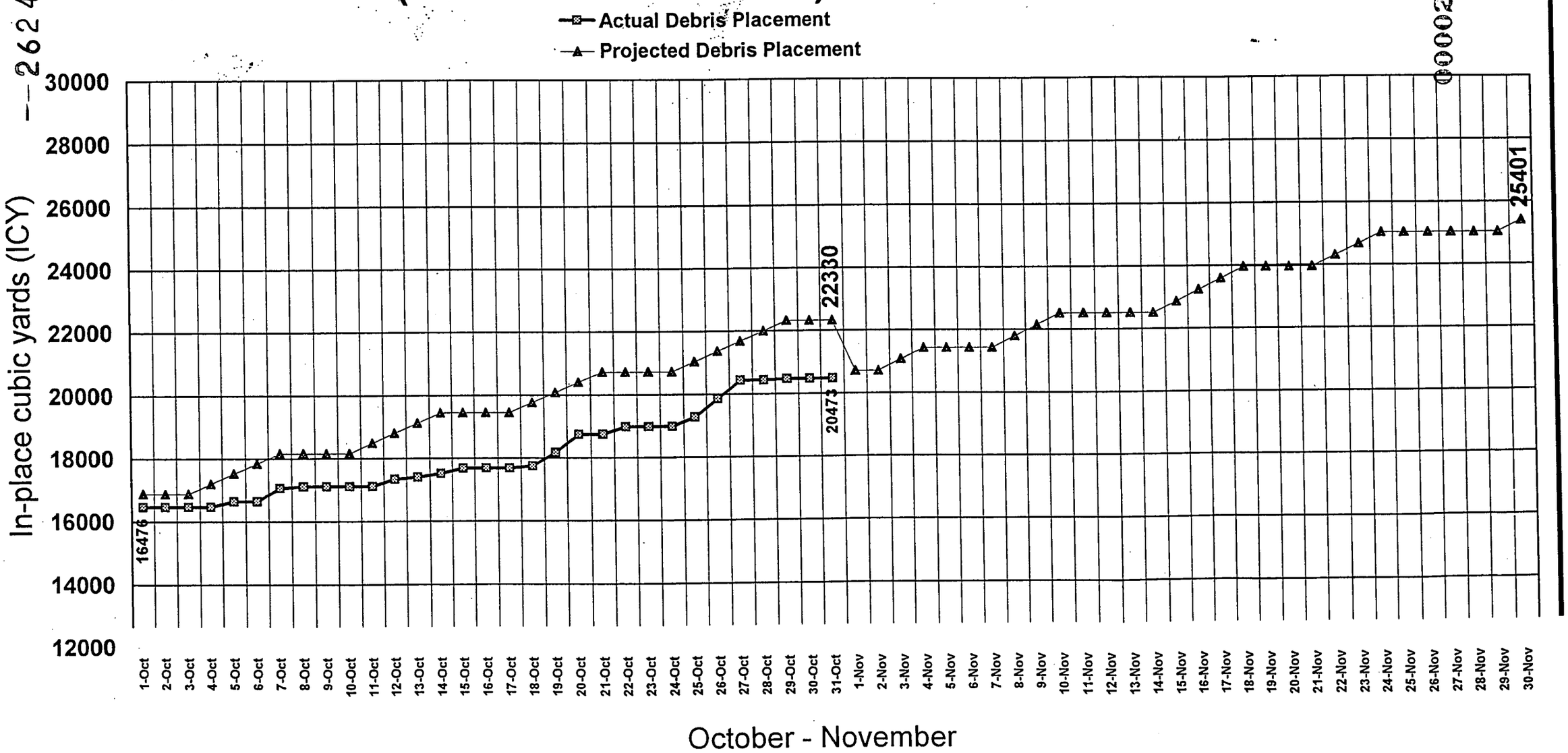


000020

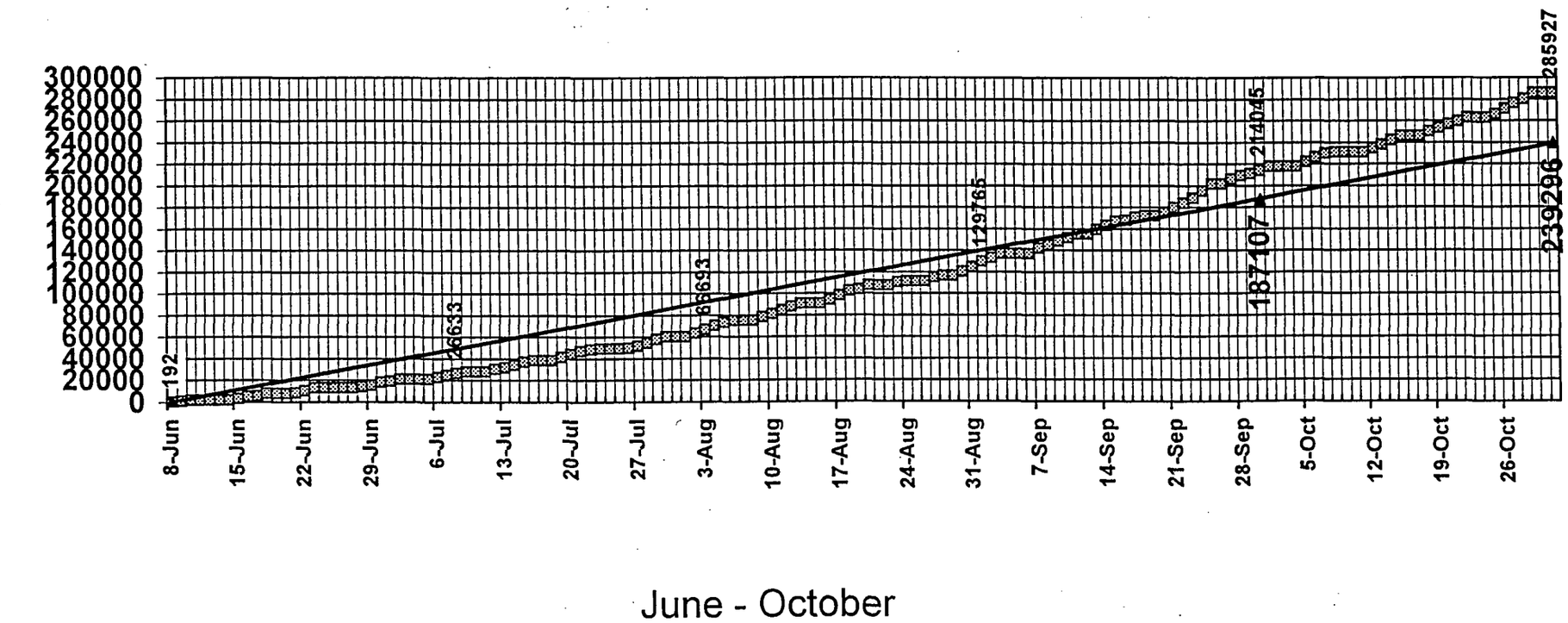
D&D Debris Chart 1

11/8/99

CAT 2 (At or Below Grade) Debris Placement



Total Soil and Debris Placement (bcy)

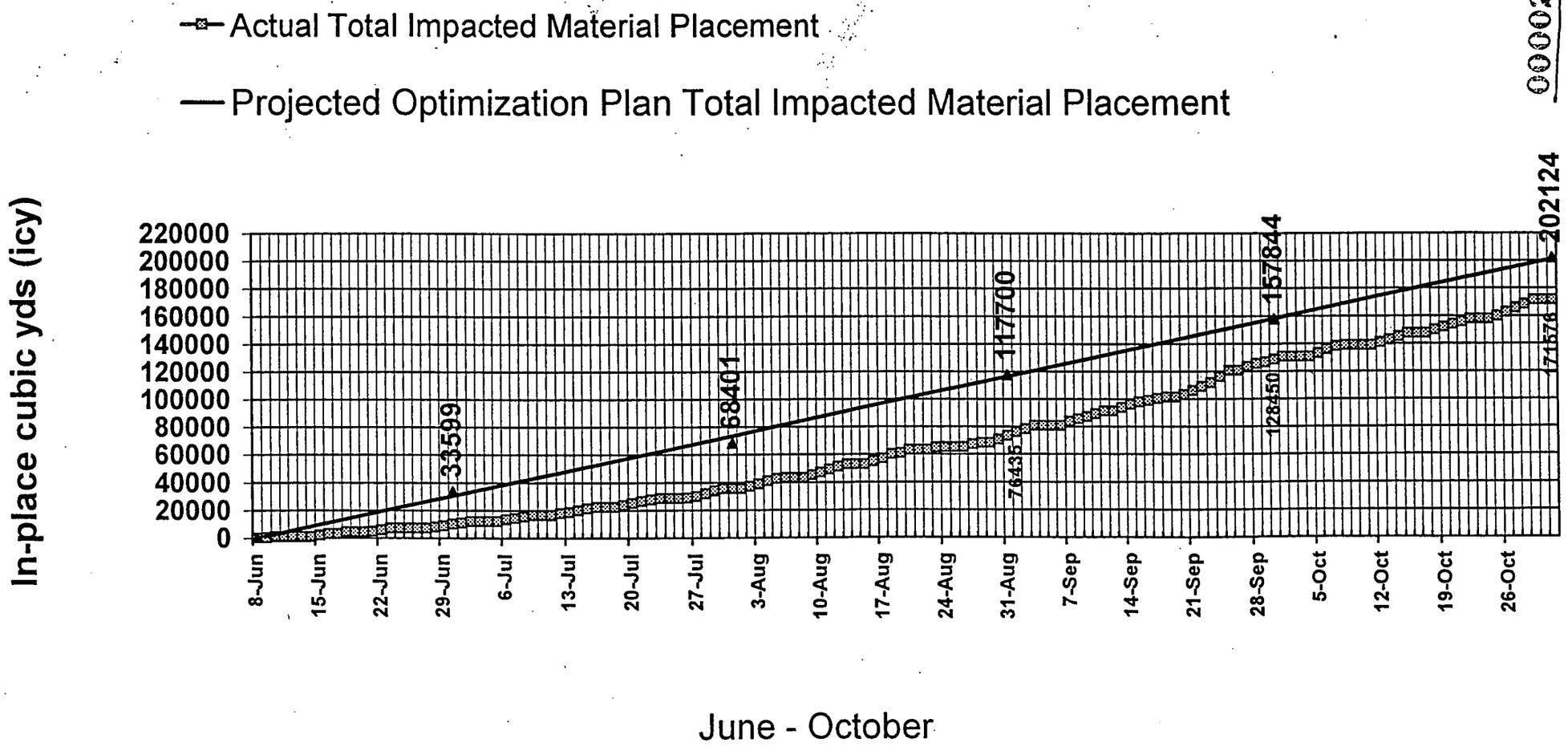


-2624

000022

-2624

Total Soil and Debris Placement (icy)



000023