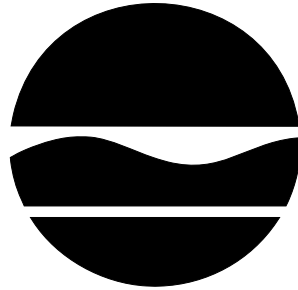


**NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION**



**6 NYCRR PART 373
HAZARDOUS WASTE MANAGEMENT
PERMIT**

FOR

**CWM CHEMICAL SERVICES L.L.C
MODEL CITY FACILITY
NIAGARA COUNTY**

DEC PERMIT No. 9-2934-00022/00097

EPA ID No. NYD049836679

VOLUME 4 OF 5

Table of Contents – Volume 4 of 5

- J Application Appendix D-6 – RMU-1 Landfill Drawings;
Application Appendix D-7 – RMU-1 Landfill Technical Specifications; and
Application Appendix D-8 – RMU-1 Landfill Quality Assurance Manual

ATTACHMENT J

Sections D-6, D-7 & D-8 RMU-1 Drawings, Technical Specifications & Construction Quality Assurance Manual

(The contents of Attachment J have been derived from the Permit application submitted by CWM Chemical Services, L.L.C.)

APPENDIX D-6
RMU-1 DRAWINGS



CWM CHEMICAL SERVICES, INC.

RESIDUALS MANAGEMENT UNIT 1

MODEL CITY, NIAGARA COUNTY, NEW YORK

INDEX

DRAWING NO.	TITLE	FILE NO.
1	TITLE AND INDEX	A-55299
2	PROPOSED RMU-1 SITE	A-55298
3	BORING LOCATIONS	A-55297
4	EXCAVATION GRADES	A-55296
5	SUBBASE GRADES	A-55295
6	SECONDARY CLAY LINER GRADES	A-55294
7	SECONDARY LEACHATE GRANULAR LAYER GRADES	A-55293
8	PRIMARY CLAY LINER GRADES	A-55292
9	PRIMARY LEACHATE GRANULAR LAYER GRADES	A-55291
10	OPERATIONS LAYER GRADES	A-55290
11	TOP OF WASTE GRADES	A-55289
12	TOP OF VEGETATIVE COVER GRADES	A-55288
13	SUMP CONSTRUCTION GRADES	A-55287
13A	SUMP CONSTRUCTION GRADES CELL 5	
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13C	SUMP CONSTRUCTION GRADES CELL 6	
13D	SUMP CONSTRUCTION GRADES CELL 7	
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13H	SUMP CONSTRUCTION GRADES CELL 14	
15	CROSS SECTION 16+50E	A-55285
15A	CROSS SECTION 23+25E	A-55284
16	CROSS SECTION 85+50N AND 91+00N	A-55283
16A	CROSS SECTION 97+50N	
17	TYPICAL LINER SECTIONS CELLS 1 THROUGH 6, AND 9 THROUGH 14	A-55282
17A	TYPICAL LINER SECTIONS CELLS 7 THROUGH 14	A-55281
18	SUMP DETAILS	
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19	CELL SEPERATION BERM DETAILS	
19B	CELL SEPERATION BERM DETAILS CELLS 5 AND 6	

INDEX

DRAWING NO.	TITLE	FILE NO.
19C	CELL SEPERATION BERM DETAILS FOR CELLS 7 THROUGH 14	
20	RISER DETAILS	A-55280
21	FINAL COVER DETAILS	A-55279
21A	SITE DETAILS	
22	SITE SURFACE WATER PLAN AND DETAILS	A-55278
23	ACCESS ROAD LAYOUT AND DETAILS	A-55277
24	LEACHATE TRANSFER SYSTEM AND ELECTRICAL SITE PLAN	A-55276
25	LEACHATE EXTRACTION DETAILS CELLS 1 THROUGH 4	A-55275
25A	LEACHATE EXTRACTION DETAILS CELLS 5, 6, 7, 10, 13 & 14	
26	LIFT STATION AND JUNCTION MANHOLES	A-55274
27	STRUCTURAL DETAILS	A-55273
28	ELECTRICAL PLAN, SYMBOLS AND DETAILS	A-55272
29	ELECTRICAL DETAILS AND DIAGRAMS	A-55271
30	LIFT STATION PANEL LAYOUT	A-55270
31	REMOTE TRANSMITTING UNIT PANEL LAYOUT	A-55269
32	PRIMARY AND SECONDARY PANEL LAYOUT	A-55268
33	INSTRUMENT RISER DIAGRAM	A-55267
34	INSTRUMENTATION SYMBOLS AND DETAILS	A-55266



SIGNATURE
DATE

1-98	REVISED AND ADDED DRAWINGS FOR AIRSPACE ENHANCEMENT	FAS	CHS
10-97	REVISED PER 8/22/97 16C LETTER REVISED DRAWING 10A	FAS	CHS
11-97	REVISED AND ADDED DRAWINGS CELLS 2 THRU 14	FAS	CHS
12-97	REVISED DRAWINGS 13C AND 14		
13-97	REVISED DRAWINGS 13C, 13A AND 25A	FAS	CHS
14-97	REVISED AND ADDED DRAWINGS FOR CELL 9	FAS	CHS
15-97	REVISED AND ADDED DRAWINGS FOR CELLS 7 AND 8	FAS	CHS
16-97	REVISED DRAWING 25A	FAS	CHS
17-97	REVISED AND ADDED DRAWINGS	FAS	CHS
18-97	REVISED DRAWINGS	FAS	CHS
19-97	MODIFIED DRAWINGS FOR CELL 6	FAS	CHS
20-97	ADDED DRAWINGS	FAS	CHS
21-97	REVISED SHEET TITLES	VPR	CHS
22-97	NOTICE OF DEFICIENCY RESPONSES	MLJ	MCR
23-97	REVISED	FLO	CHS
DES BY	BRUN, JP	PROJECT NO.	17305
CHK BY	FLO	PROJECT	RESIDUALS MANAGEMENT UNIT 1
CRV BY	MCR	DATE	1/10/98
APP BY	CHS	DRAWING TITLE	TITLE AND INDEX
FILE NO.	A-55299	DRAWING NO.	1



NOTES:

1. THIS DRAWING BASED ON DRAWING NUMBER 1 ENTITLED "TITLE AND INDEX", PREPARED BY EARTH TECH (FILE NO. A-55299, DATED FEBRUARY 1991).

2. PRIOR REVISIONS TO DRAWING NUMBER 1 BY EARTHTECH INCLUDE THE FOLLOWING:

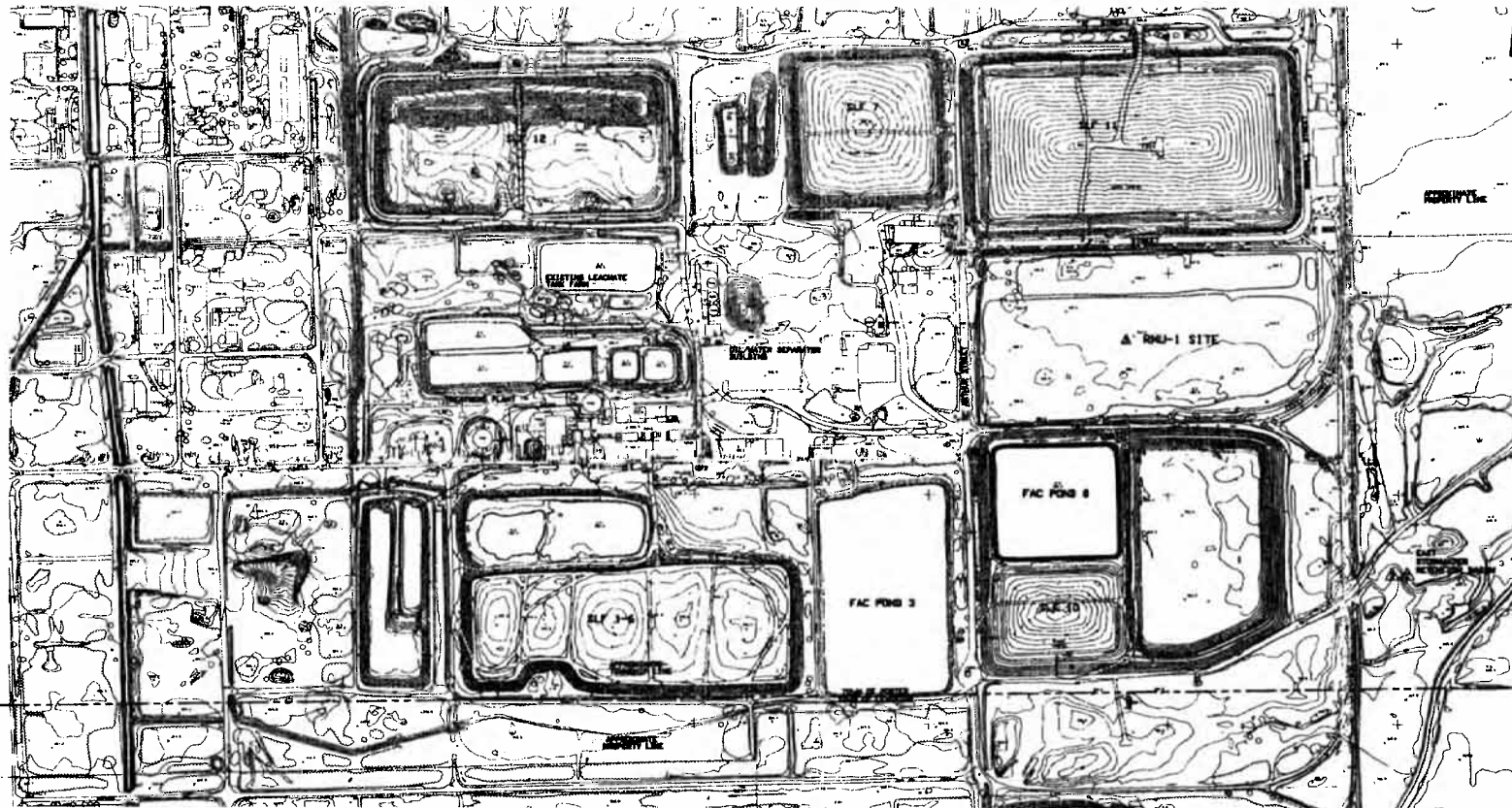
1. NOTICE OF DEFICIENCY RESPONSES (DATED 6/92, DRAWN BY FLD, APPROVED BY GRM). 2. REVISED SHEET TITLES (DATED 7/93, DRAWN BY MLL, APPROVED BY MGR). 3. ADDED DRAWINGS (DATED 11/95, DRAWN BY VPR, APPROVED BY CPB). 4. MODIFIED DRAWINGS FOR CELL 8 (DATED 4/96, DRAWN BY FAS, APPROVED BY CPB). 5. REVISED DRAWINGS (DATED 6/96, DRAWN BY FAS, APPROVED BY CPB). 6. REVISED AND ADDED DRAWINGS (DATED 7/96, DRAWN BY FAS, APPROVED BY CPB). 7. ADDED DRAWING 25A (DATED 10/98, DRAWN BY FAS, APPROVED BY CPB). 8. REVISED AND ADDED DRAWINGS FOR CELLS 7 AND 8 (DATED 11/98, DRAWN BY FAS, APPROVED BY CPB). 9. REVISED AND ADDED DRAWINGS FOR CELL 9 (DATED 4/97, DRAWN BY FAS, APPROVED BY CPB). 10. REVISED DRAWINGS 130, 18A, AND 25A (DATED 6/97, DRAWN BY FAS, APPROVED BY CPB). 11. REVISED AND ADDED DRAWINGS CELLS 9 THRU 14, REMOVED DRAWINGS 13F AND 14 (DATED 6/97, DRAWN BY FAS, APPROVED BY CPB). 12. REVISED PER 9/22/97 DEC LETTER, REMOVED DRAWING 18A (DATED 6/97, DRAWN BY FAS, APPROVED BY CPB). 13. REVISED AND ADDED DRAWINGS FOR AIRSPACE ENHANCEMENT (DATED 5/98, DRAWN BY FAS, APPROVED BY CPB).	DRAWING REVISED BY BLASSLAND, BOUCK & LEE, INC. THROUGH ITS PROFESSIONAL ENGINEER, WORK OF EARTHTECH NOT INDEPENDENTLY REVIEWED.
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3. BBL SEAL AND SIGNATURE PERTAIN ONLY TO BBL IMPLEMENTED REVISIONS AS NOTED IN THE REVISION BLOCK.

Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6725 Towpath Road
Syracuse, NY 13214
315-446-9120

CITY: SYRACUSE, NY DWDGROUP: ENVICADD DB: KMD K: SARTORI LD: K: SARTORI PNC: T: FARMEN TMLB: STONE LVR: FOUNDRY: OFF-TRIP-
 0: ENVICADD: SYRACUSE: EACT: 800372729201200002CDWDPERMIT123129001 DWG LAYOUT: 1A SAVED: 8/16/2012 3:52 PM ACADVER: 18.15 (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLOTOUT.CTB PLOTTED: 8/16/2012 3:52 PM BY: SARTORI, KATHERINE

NOT FOR CONSTRUCTION
FOR REPLY REVIEW ONLY



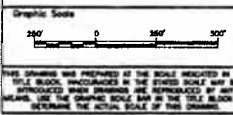
- NOTES:
1. TOPOGRAPHIC BASE MAP WAS PREPARED BY LOCKWOOD GREENE ASSOCIATES, INC. WITH ORIGIN COORDINATES FIELD CHECK AND FINAL CHECK BY FRANK J. TOWN AND ASSOC. P.E. DATED 04/28/97.
 2. GRID SYSTEM INDICATED HAS BEEN ESTABLISHED IN THE FIELD. THE MONUMENTS ARE AS SHOWN ON THE DRAWING AND ACCORDING TO THE TABLE ON THIS DRAWING. THE COORDINATES ARE FOR NEW YORK STATE PLANE COORDINATE SYSTEM. VERTICAL CONTROL IS ALSO OWN PLANT SITE DATA.
 3. EAST RMU-1 GRID COORDINATES LABELED ON THESE PLANS ARE EMPLOYED PLANT GRID NUMBERS. SUBTRACTING ELEVATION FROM THE EAST PLANT GRID COORDINATES WILL GIVE THE RMU-1 EAST GRID COORDINATES. NO CONVERSION IS REQUIRED FOR NORTH COORDINATES.
 4. THE PROPERTY LINE DEPICTED IS PER INFORMATION PROVIDED ON TOPOGRAPHIC BASE MAP. EXISTENCE AND RIGHT-OF-WAY ARE NOT SHOWN.

MONUMENT	ELEVATION	PLANT GRID		RMU-1 GRID		NY STATE PLANE COORDINATES (NAD-83)		NAD-83 ELEVATION
		NORTH	EAST	NORTH	EAST	NORTH	EAST	
1008	318.72	100+41.95	111+07.56	100+41.95	111+07.56	175,430.44	296,280.18	315.66
200	318.72	101+05.96	106+13.71	101+05.96	106+13.71	175,488.28	297,808.18	318.27
103	333.55	92+13.43	112+47.44	92+13.43	112+47.44			
109	332.70	92+13.46	112+04.96	92+13.46	112+04.96			

LEGEND
3 CONTROL MONUMENT

- NOTES:
1. THIS DRAWING IS BASED ON A DRAWING ENTITLED "PROPOSED RMU-1 SITE", PREPARED BY EARTH TECH (FILE NO. A-5088 DATED FEBRUARY 1991, LATEST REVISION DATED).
 2. PRIOR REVISIONS BY EARTH TECH INCLUDE THE FOLLOWING:
1) NOTICE OF DEFICIENCY RESPONSES (DATED 6/92, DRAWN BY P.D. APPROVED BY G.M.).
3. BUL SEAL AND SIGNATURE PERTAIN ONLY TO BBL IMPLEMENTED REVISIONS AS NOTED IN THE REVISION BLOCK.

N: 05604000.DWG
L: 01+07+00
P: 01/07/01-01-30
12/01/01 01+07+00 LAY
00000000/00000000



NO.	DATE	DESCRIPTION	BY	CHKD.
1	12/04/01	ISSUED "PROPOSED"	J.M.	
2	01/07/01	REVISIONS TO SUPPLEMENT RETENTION BASIN	J.M.	
3	01/07/01	REV. NO. 2 FOR PRIOR REVISIONS	J.M.	

Project Mgr. J.E.
Designed by J.M./CAA
Drawn by J.M.
Checked by J.M.
Prof. Eng. JAMES MOLINA, II
PE License #JC 072864



BBL
BLAISLAND, BOUCK & LEE, INC.
engineers & scientists

CWN CHEMICAL SERVICES, LLC • MODEL CITY FACILITY
RESIDUALS MANAGEMENT UNIT 1
PROPOSED RMU-1 SITE

GENERAL

Modified: 07/09

File Number 056040
Date JUNE 2003
Blaisland, Bouck & Lee, Inc. Corporate Headquarters 6725 Tompkins Road Syracuse, NY 13214 (315) 448-8120

2-a

DATE: 11/15/11
BY: J. J. J.

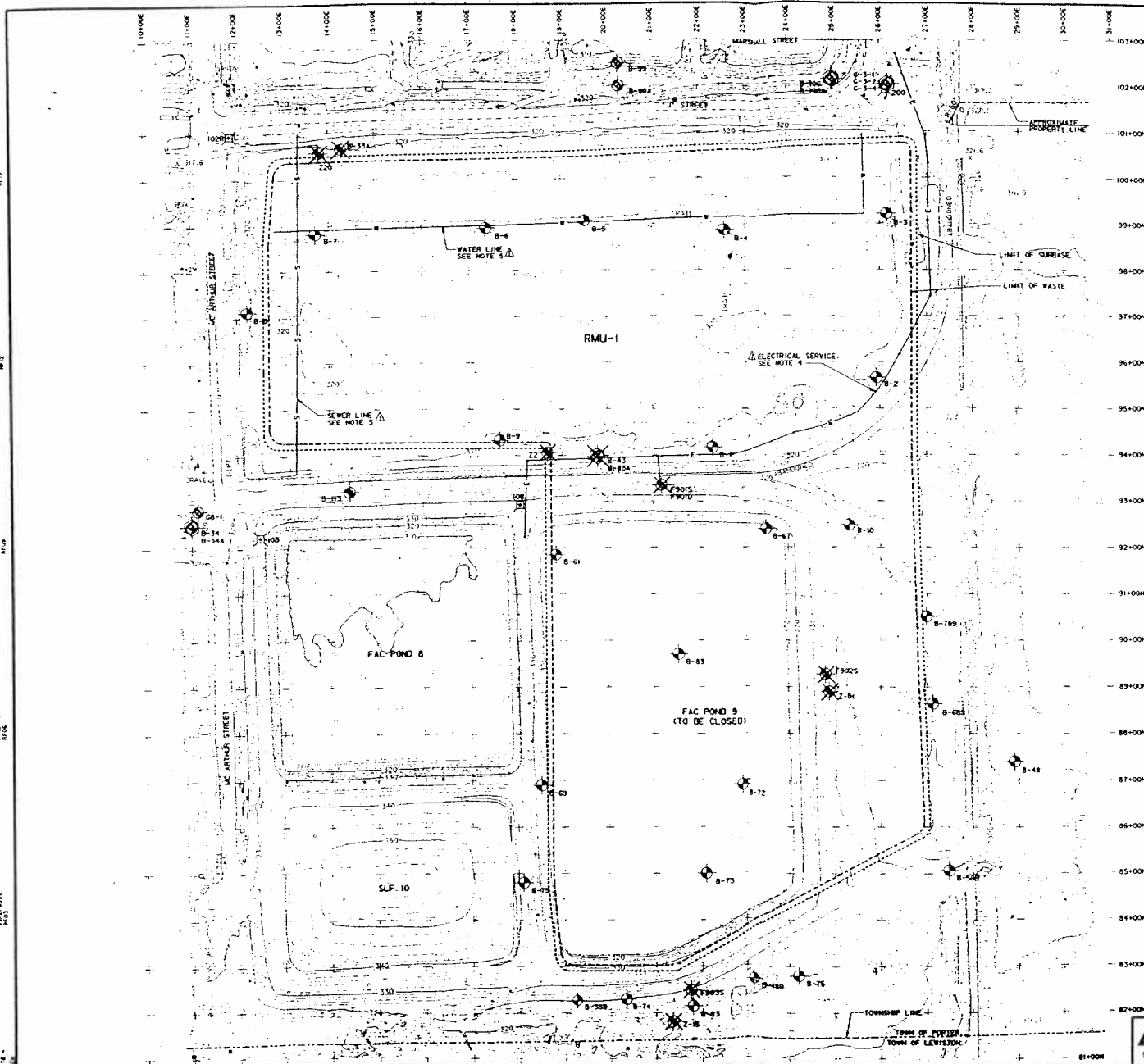
DATE: 11/15/11
BY: J. J. J.

DATE: 11/15/11
BY: J. J. J.

DATE: 11/15/11
BY: J. J. J.

DATE: 11/15/11
BY: J. J. J.

DATE: 11/15/11
BY: J. J. J.



LEGEND

- EXISTING GRADE
- APPROXIMATE PROPERTY LINE
- TOWNSHIP LINE
- LIMIT OF SURBASE
- LIMIT OF WASTE
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL NEST
- SOIL BORING
- PERMANENT CONTROL MONUMENT
- WELLS TO BE ABANDONED

NOTES

1. THE TOPOGRAPHIC BASE MAP WAS PROVIDED BY METRIC ENGINEERING, SHERBOYGAN, WISCONSIN, DATED DECEMBER 1986. GROUND CONTROL BY FRANK T. TRIPPI AND ASSOC., P.C.
2. COORDINATES LABELED ON THESE PLANS ARE ACCORDING TO RMU-1 SITE GRID. REFER TO DRAWING NO. 2 FOR PLANT COORDINATES.
3. WELLS 2-2, B-33A, B-43 AND B-43A TO BE ABANDONED.
4. ELECTRICAL SERVICE TO BE REMOVED PRIOR TO EXCAVATION OF ADJACENT CELLS.
5. SEWER AND WATER LINES TO BE REMOVED PRIOR TO EXCAVATION OF ADJACENT CELLS.



2/19/13
SCALE: 0' 50' 100' 200'

REV	DATE	DESCRIPTION	BY	APP	BY
1	6-30-11	NOTICE OF DEFICIENCY RESPONSES	PLO	CRM	
2	11-15-11	PROJECT NO. 17365	DATE	FEBRUARY 1999	
3	11-15-11	PROJECT	RESIDUALS MANAGEMENT UNIT 1		
4	11-15-11	DRAWING TITLE			
5	11-15-11	BORING LOCATIONS			

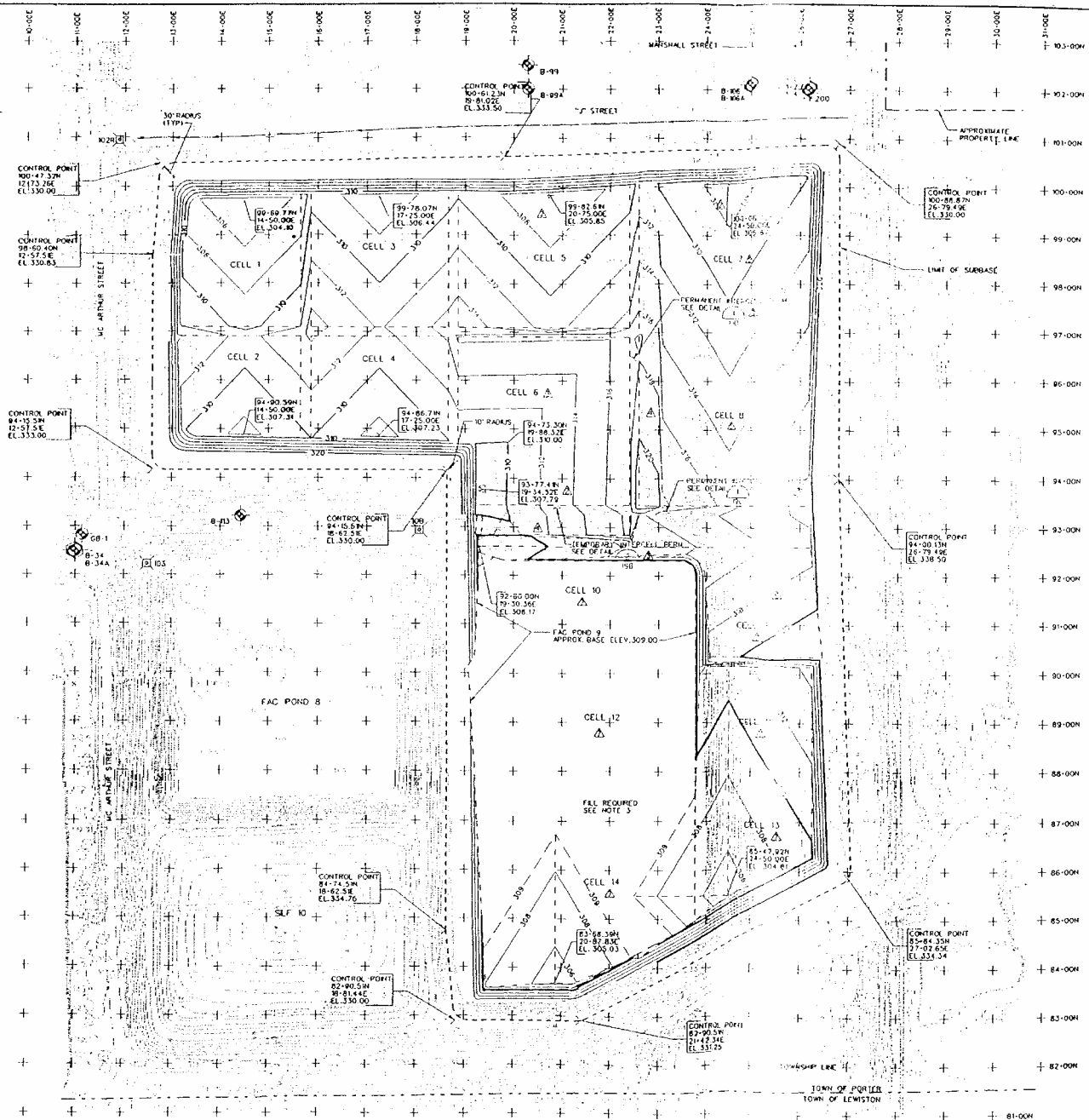
SEC DONOHUE
Shelton, Stamford 06083



CRM CHEMICAL SERVICES, INC.
MODEL CITY, NIAGARA COUNTY, NEW YORK

FILE NO. A-55297
DRAWING NO. 3

NOT FOR CONSTRUCTION

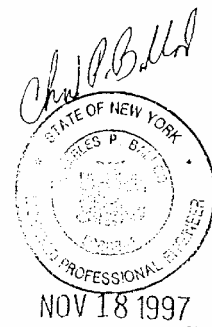


LEGEND

- EXISTING GRADE
- PROPOSED GRADE
- LIMIT OF SUBBASE
- SLOPE INDICATOR
- DRAINAGE DITCH
- ACCESS ROAD
- TOP OF BERM
- APPROXIMATE PROPERTY LINE
- TOWNSHIP LINE
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL NEST
- SOIL BORING
- PERMANENT CONTROL MONUMENT
- CULVERT
- ABANDONED WELL

NOTES

1. TOPOGRAPHIC BASE MAP WAS PROVIDED BY AERO-METRIC ENGINEERING, SHEBOYGAN, WISCONSIN, DATED DECEMBER 1994. GROUND CONTROL BY FRANK J. TROTT AND ASSOC., P.C.
2. COORDINATES LABELED ON THESE PLANS ARE ACCORDING TO BM-1 SITE GRID. REFER TO DRAWING NO. 2 FOR PLANT COORDINATES.
3. PROPOSED GRADES SHOWN ARE APPROXIMATE LIMITS OF EXCAVATION. FILL IS REQUIRED OVER A PORTION OF FAC POND 9 FOR SUBBASE GRADE. 10% OF THE EXCAVATION AREA WILL BE STRIPPED AND STOCKPILED IN AREAS DESIGNATED BY THE OWNER.
4. SURFACE DRAINAGE SHALL BE DIRECTED AROUND EXCAVATION SURFACE. WATER SHALL BE PUMPED TO ADJACENT DRAINAGE DITCHES AND ADJUSTED TO EXISTING STORM WATER RETENTION BASINS DURING CONSTRUCTION.
5. SOILS ARE AND ANCHOR TRENCH AREA SHALL BE OVERCUT AS SHOWN ON DETAILS.
6. WELLS TO BE ABANDONED ARE AS INDICATED. CONTRACTOR TO VERIFY SCHEDULE WITH OWNER.
7. RELOCATE OR ABANDON UTILITIES PER PROJECT SPECIFICATIONS AND WITH AUTHORIZATION OF OWNER.

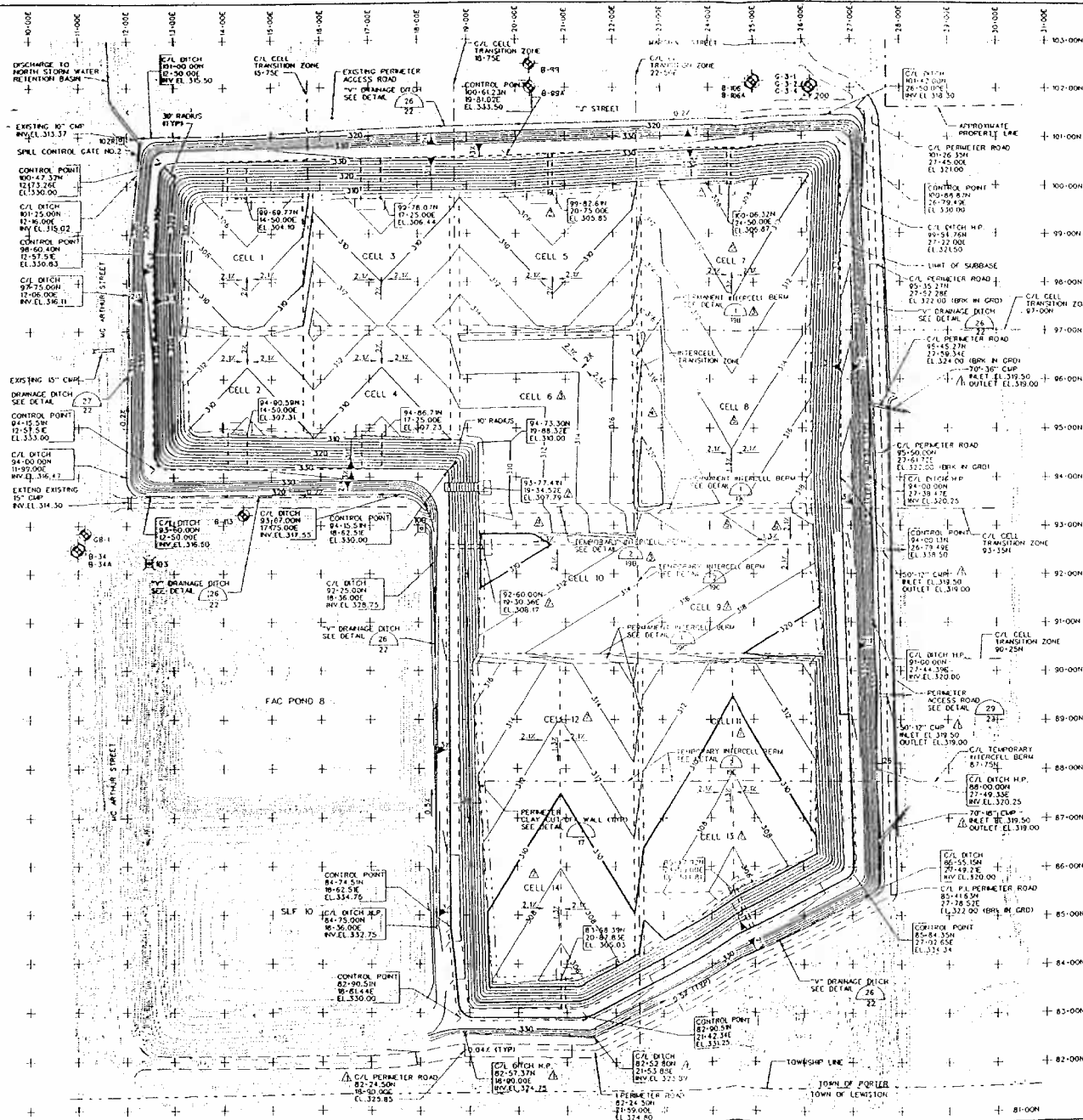


10-97	MODIFY CELLS 9 THROUGH 14	FAS	CPD
11-97	MODIFY CELL 9	FAS	CPD
11-98	MODIFY CELLS 7 AND 8	FAS	CPD
6-98	MODIFY CELL 6 / 10 AND CELL 6 / 7 B TRANSITION	FAS	CPD
4-98	MODIFY CELL 6 / 7 CELL 10 TRANSITION	FAS	CPD
11-95	MODIFY SUMPS CELLS 5 AND 7	FAS	CPD
6-92	NOTICE OF DEFICIENCY REPAIRS	FAS	CPD
RE-STATE	(DESCRIPTION)	FAS	CPD

RUST ENVIRONMENT & INFRASTRUCTURE

SIGNATURE		PROJECT NO. 12345		DATE		FEBRUARY 1997	
DATE		PROJECT		DESIGN'S MANAGEMENT FIRM 1			
CHK BY: MJP		DRAWING TITLE		EXCAVATION GRADES			
APP BY: CFF		FILE NO. A-12345		DRAWING NO.		4	

NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

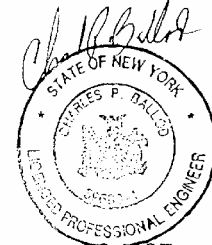


LEGEND

- EXISTING GRADE
- PROPOSED GRADE
- LIMIT OF SUBBASE
- SLOPE INDICATOR
- DRAINAGE DITCH
- ACCESS ROAD
- TOP OF BERM
- APPROXIMATE PROPERTY LINE
- TOWNSHIP LINE
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL REST
- SOIL BORING
- PERMANENT CONTROL MONUMENT
- OLEVERT

NOTES

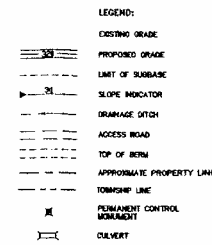
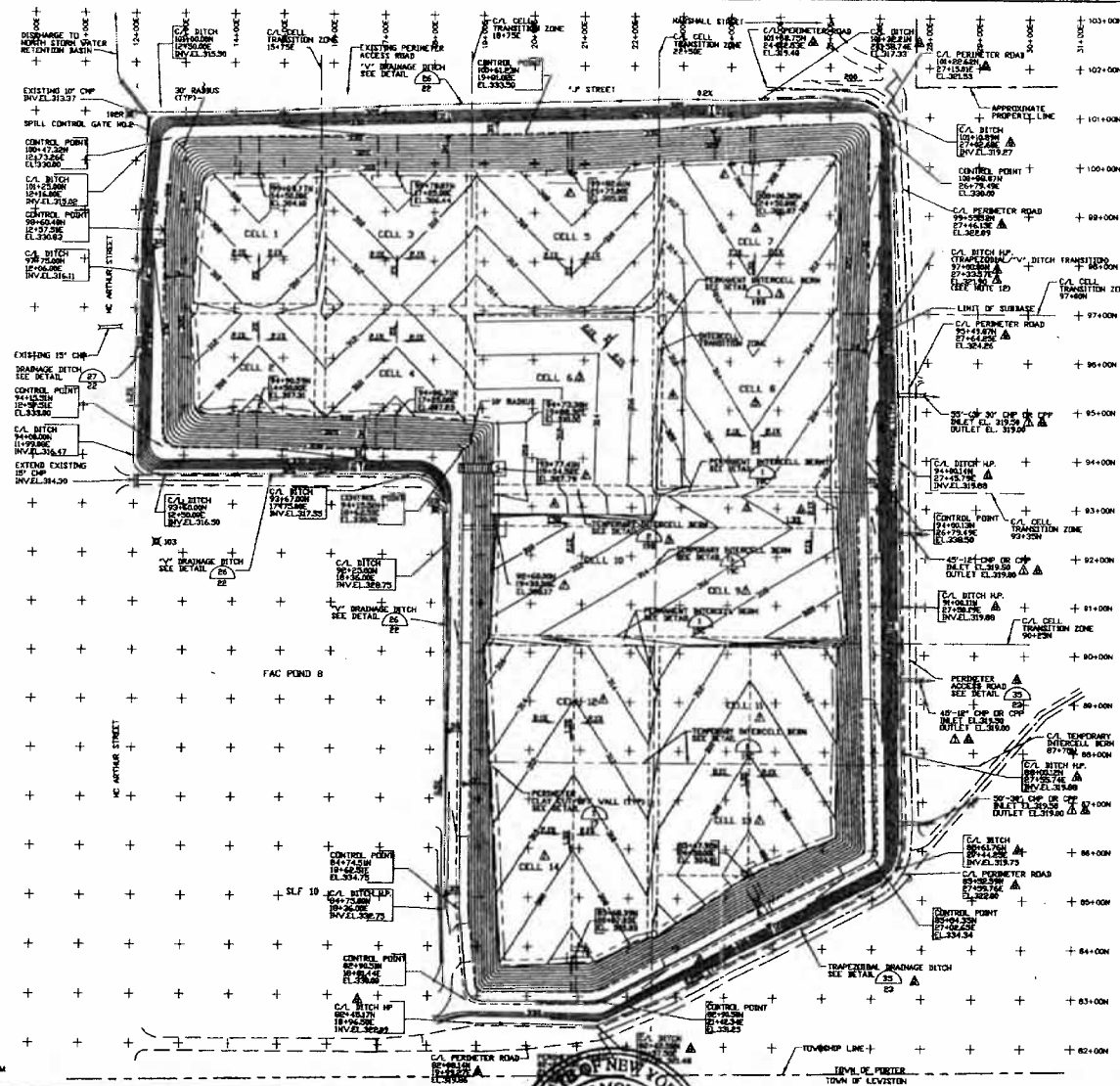
1. TOPOGRAPHIC BASE MAP WAS PROVIDED BY AEROMETRIC ENGINEERING, SEBASTIAN, WISCONSIN DATED DECEMBER 1988. GROUND CONTROL BY FRANK E. TRIPIANO ASSOC. P.C.
2. COORDINATES LABELED ON THESE PLANS ARE ACCORDING TO NAD-83 SITE GRID REFER TO DRAWING NO. 2 FOR PLANT COORDINATES.
3. ONLY APPROXIMATE OUTLINES OF SUMP EXCAVATION GRADES ARE SHOWN. ADDITIONAL EXCAVATION IS REQUIRED BELOW GRADES SHOWN ON THIS DRAWING AT EACH SUMP DEEPER LOCATION. SEE DRAWINGS NO. 13, 13A, 13B, 13C, 13D, 13E AND 13H FOR CONSTRUCTION GRADES PRIOR TO SUMP EXCAVATION. THE POTENTIAL FOR UNLEAK SHALL BE VIEWED BY THE PROTECTOR OULDERED IN THE SITE SPECIFIC CONSTRUCTION QUALITY ASSURANCE MANUAL.
4. PROPOSED GRADES INDICATED ARE TOP OF FINISHED SUBBASE AFTER PROOF ROLLING. SEE REPORT FOR DETAILS. TOPSOIL WILL BE STORED AND STOCKPILED IN AREAS DESIGNATED BY THE OWNER.
5. SURFACE DRAINAGE SHALL BE DIRECTED AROUND SUBBASE PREPARATION AREAS AND BE PUMPED TO ADJACENT DRAINAGE DITCHES FOR ROUTING TO EXISTING STORM WATER RETENTION BASINS DURING CONSTRUCTION.
6. SLOPE AND ANCHOR TRENCH AREA SHALL BE OVERCUT AS SHOWN ON DETAILS.
7. CELL TRANSITION ZONES ALLOW FOR MINOR GRADE TRANSITIONS BETWEEN ADJACENT CELLS.
8. FOR CELL 6 / CELL 10 TEMPORARY BERM CONSTRUCTION SEE DRAWING 15B DETAIL 2.



6-97	MODIFY CELLS 9 THROUGH 11	FAS	REV
6-97	MODIFY CELL 9	FAS	REV
6-96	MODIFY CELL 7 AND 8	FAS	REV
6-96	MODIFY CELL 6 TO ADD CELL 6 / 7 TRANSITION	FAS	REV
6-96	MODIFY CELL 6 / 7 TO ADD CELL 6 / 7 TRANSITION	FAS	REV
6-95	MODIFY SHARP'S CELLS 5, 6 AND 7	FAS	REV
6-92	NOTICE OF DEFICIENCY RESPONSES	FAS	REV
REV DATE	DESCRIPTION	CHK BY	APP BY
DES BY: JEN/JP	PROJECT NO. 17365	DATE	12/15/97
DRN BY: FLO	PROJECT	RESOURCES MANAGEMENT UNIT 1	
CHK BY: MGR			
ENV BY: TJB			
GRV BY: CFF			
APP BY: GEM			
SUBBASE GRADES			
CIVIL ENGINEER SERVICES, INC.			
MUNICIPAL ENGINEERING, INC.			
FILE NO. A-5009			
DRAWING NO. 5			

NOT FOR CONSTRUCTION FOR REGULATORY REVIEW ONLY

NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

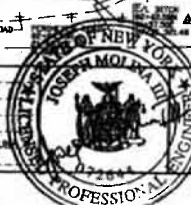


- NOTES:
1. TOPOGRAPHIC BASE MAP WAS PROVIDED BY AERONAUTIC CHARTING, BOSTON, MASS. DATED FEBRUARY 1998. BOUNDARY CONTROL BY PLANNING AND ASSOC., P.C.
 2. COORDINATES LABELED ON THESE PLANS ARE ACCORDING TO NAD-83 USE. REFER TO DRAWING NO. 5 FOR PLANT COORDINATES.
 3. ONLY APPROXIMATE OUTLINES OF DITCH EXCAVATION GRADES ARE SHOWN. ADDITIONAL EXCAVATION IS REQUIRED BELOW GRADES SHOWN ON THIS DRAWING AT EACH TOP OF THE DITCH. SEE DRAWING NO. 13A, 13B, 13C, 13D, 13E AND 13F FOR DITCH LOCATIONS. SEE DRAWING NO. 13A, 13B, 13C, 13D, 13E AND 13F FOR DITCH LOCATIONS. SEE DRAWING NO. 13A, 13B, 13C, 13D, 13E AND 13F FOR DITCH LOCATIONS. SEE DRAWING NO. 13A, 13B, 13C, 13D, 13E AND 13F FOR DITCH LOCATIONS.
 4. FURNISH GRADES INDICATED ARE TOP OF FINISHED SUBBASE AFTER PROOF ROLLING. SEE REPORT FOR DETAILS. TOPICAL WILL BE STIPPED AND STITCHED IN AREAS DESIGNATED BY THE OWNER.
 5. SURFACE DRAINAGE SHALL BE DIRECTED AROUND SUBBASE PREPARATION AREAS AND BE PROVIDED TO ADJACENT DRAINAGE DITCHES FOR ROUTING TO EXISTING STORM WATER RETENTION BASINS DURING CONSTRUCTION.
 6. SLOPE AND ANCHOR TRENCH AREA SHALL BE OVERCUT AS SHOWN ON DETAILS.
 7. CELL TRANSITION ZONES ALLOW FOR MINOR GRADE TRANSITIONS.
 8. FOR CELL 5 / CELL 12 TEMPORARY BERM CONSTRUCTION SEE DRAWING 13B DETAIL 2.
 9. THIS DRAWING IS BASED ON A DRAWING ENTITLED "SUBBASE GRADES", PREPARED BY EARTH TECH (FILE NO. A-55566 DATED FEBRUARY 1997).
 10. REVISIONS BY EARTH TECH INCLUDE THE FOLLOWING:
 1. INCREASE OF DEPENDENCY RESPONSES (DATED 8/1/92, DRAWN BY FAS, APPROVED BY CMO).
 2. MODIFY CELLS 6 & 7 (DATED 11/1/92, DRAWN BY FAS, APPROVED BY CMO).
 3. MODIFY CELL 6/CELL 10 TRANSITION GRADES (DATED 4/1/94, DRAWN BY FAS, APPROVED BY CMO).
 4. MODIFY CELL 6/7 AND CELL 6/9 TRANSITIONS (DATED 6/1/94, DRAWN BY FAS, APPROVED BY CMO).
 5. MODIFY CELL 7 AND 8 (DATED 11/1/94, DRAWN BY FAS, APPROVED BY CMO).
 6. MODIFY CELL 8 (DATED 4/1/97, DRAWN BY FAS, APPROVED BY CMO).
 7. MODIFY CELLS 9 THROUGH 14 (DATED 6/1/97, DRAWN BY FAS, APPROVED BY CMO).
 11. SEE SEAL AND SIGNATURE PERTAIN ONLY TO BE IMPLEMENTED REVISIONS AS NOTED IN THE REVISION BLOCK.
 12. USE GENERAL FILL MATERIAL TO CREATE AROUND IN PERIMETER CHANNEL AT HIGH POINT LOCATIONS. TOP ELEVATION OF MOUND WILL BE 321.90. DITCH INVERT ELEVATION IMMEDIATELY UPSTREAM AND IMMEDIATELY DOWNSTREAM OF MOUND WILL BE 318.90.

K: 00042003.DWG
I: 0004, 07-1987
P: 00042003 / 1-1-00-30
12/18/03 REV: 05-10-00 LAF NCS 800-85-SUM
00042003/00042003.DWG

Graphic Scale	1" = 50'
12/18/03 REV: 05-10-00 LAF NCS 800-85-SUM	12/18/03 REV: 05-10-00 LAF NCS 800-85-SUM
12/18/03 REV: 05-10-00 LAF NCS 800-85-SUM	12/18/03 REV: 05-10-00 LAF NCS 800-85-SUM
12/18/03 REV: 05-10-00 LAF NCS 800-85-SUM	12/18/03 REV: 05-10-00 LAF NCS 800-85-SUM

Project No. 12
Designed by JMS/CSA
Drawn by JMS
Checked by JMS
Prof. Eng. JOSEPH MOLINA
PE License 375 07264



BBL
BLASLAND, BOUCK & LEE, INC.
Engineers & Scientists

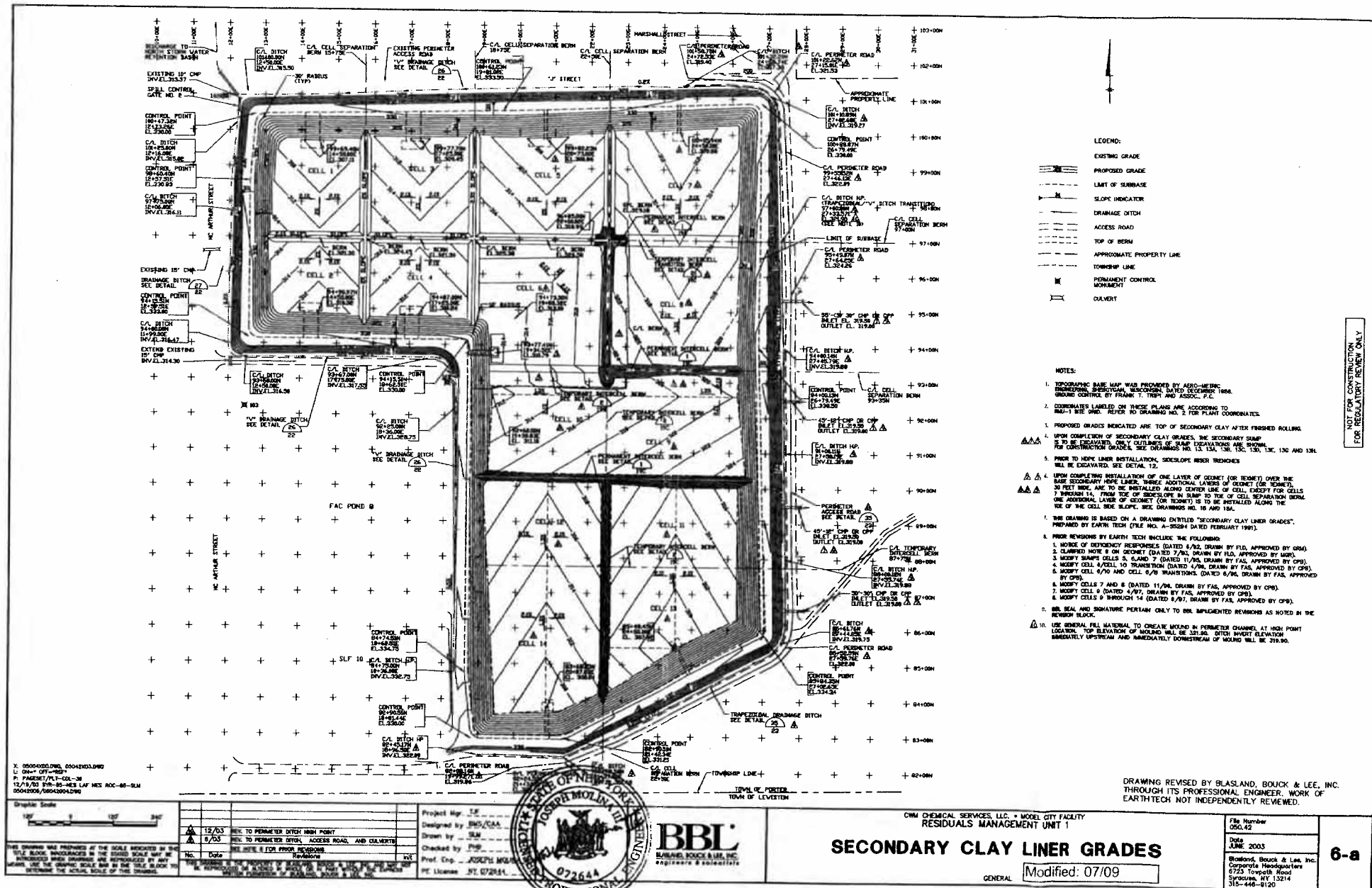
CHM CHEMICAL SERVICES, LLC • MODEL CITY FACILITY
RESIDUALS MANAGEMENT UNIT 1

SUBBASE GRADES

GENERAL

Modified: 07/09

File Number
00042003
Date
DECEMBER 2003
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
8723 Tompkins Road
Syosset, NY 11791
516-466-9100



X: 000000000, 000000000
U: 000000000
P: 000000000
12/15/03 10:00-10:00 LAY HAS NOC-88-SLM
000000000, 000000000

Graphic Scale
1" = 100'

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. IMPROVEMENTS IN THE EXISTING SCALE MAY BE INDICATED BY ANY DRAWING. THE GRAPHIC SCALE BAR IN THE TITLE BLOCK IS TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

No.	Date	Revisions
1	12/03	REV. TO PERIMETER DITCH HIGH POINT
2	9/03	REV. TO FORMER DITCH, ACCESS ROAD, AND CULVERTS
3	12/03	REV. TO FORMER DITCH, ACCESS ROAD, AND CULVERTS

Project No. 32
Designed by: BBL/CAL
Drawn by: BBL
Checked by: JTP
Prof. Eng. - JOSEPH MOLINARO
PE License: 371 072644



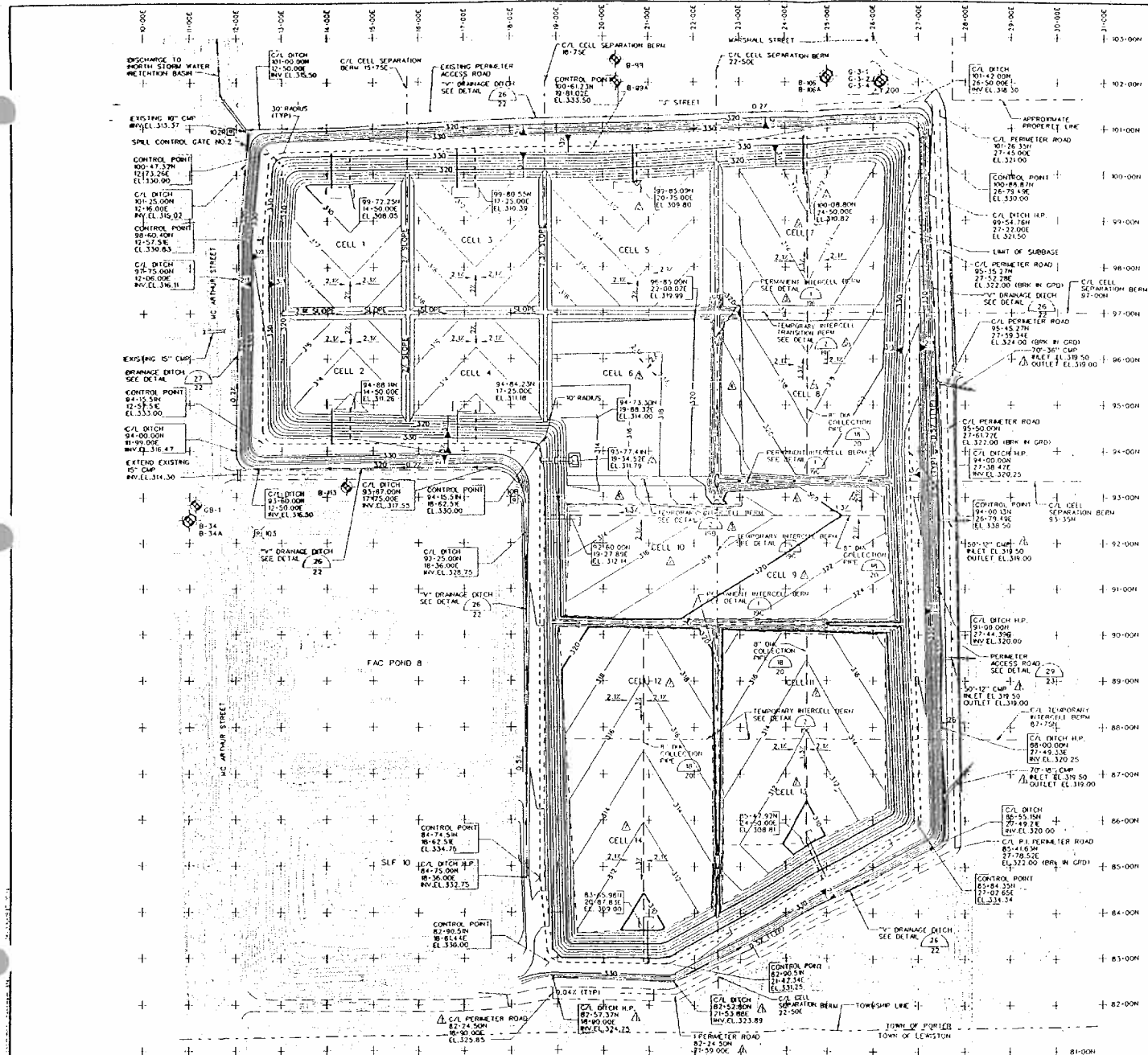
BBL
BOULTON, BOUCK & LEE, INC.
Engineers & Scientists

SECONDARY CLAY LINER GRADES

CHM CHEMICAL SERVICES, LLC - MODEL CITY FACILITY
RESIDUALS MANAGEMENT UNIT 1

Modified: 07/09

File Number
000000000
Date
JUNE 2003
Boulton, Bouck & Lee, Inc.
Corporate Headquarters
8723 Tonawanda Road
Tonawanda, NY 14214
716-446-8120

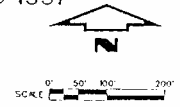
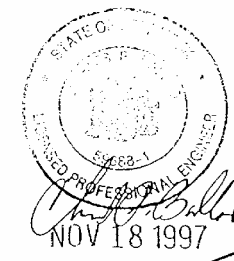


LEGEND

- EXISTING GRADE
- PROPOSED GRADE
- LIMIT OF SUBURGE
- SLOPE INDICATOR
- DRAINAGE DITCH
- ACCESS ROAD
- TOP OF BERM
- APPROXIMATE PROPERTY LINE
- TOWNSHIP LINE
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL REST
- SOIL BURNING
- PERMANENT CONTROL MONUMENT
- CULVERT

NOTES

1. TOPOGRAPHIC BASE MAP WAS PROVIDED BY AEROMETRIC ENGINEERING, SHEBOYGAN, WISCONSIN, DATED DECEMBER 1986. GROUND CONTROL BY FRANK E. TRIPPIANO, ASSOC. P.E.
2. COORDINATES LABELED ON THESE PLANS ARE ACCORDING TO 1983 SITE GRID REFER TO DRAWING NO. 2 FOR PLANT COORDINATES.
3. PROPOSED GRADES INDICATED ARE TOP OF SECONDARY LEACHATE GRANULAR LAYER. THE SEE-SLOPE SECONDARY LEACHATE COLLECTION SYSTEM IS TYPICAL FOR TENSEL THEREFORE, SEE-SLOPE CONTROLS HAVE NOT CHANGED FROM DESIGNS SHOWN ON DRAWING NO. 6.
4. ONLY OUTLINES OF COMPLETED SECONDARY SLURPS ARE SHOWN. TOP GRAD CONSTRUCTION GRADES SEE DRAWINGS NO. 13, 13A, 13B, 13C, 13D, 13E, 13F AND 13H.



NO.	DATE	DESCRIPTION	BY	CHKD BY	DATE	REVISION
1	11-02	ISSUE 1	W. J. BULL			
2	11-02	ISSUE 2	W. J. BULL			
3	11-02	ISSUE 3	W. J. BULL			
4	11-02	ISSUE 4	W. J. BULL			
5	11-02	ISSUE 5	W. J. BULL			
6	11-02	ISSUE 6	W. J. BULL			
7	11-02	ISSUE 7	W. J. BULL			
8	11-02	ISSUE 8	W. J. BULL			
9	11-02	ISSUE 9	W. J. BULL			
10	11-02	ISSUE 10	W. J. BULL			
11	11-02	ISSUE 11	W. J. BULL			
12	11-02	ISSUE 12	W. J. BULL			
13	11-02	ISSUE 13	W. J. BULL			
14	11-02	ISSUE 14	W. J. BULL			
15	11-02	ISSUE 15	W. J. BULL			
16	11-02	ISSUE 16	W. J. BULL			
17	11-02	ISSUE 17	W. J. BULL			
18	11-02	ISSUE 18	W. J. BULL			
19	11-02	ISSUE 19	W. J. BULL			
20	11-02	ISSUE 20	W. J. BULL			

SIGNATURE
DATE

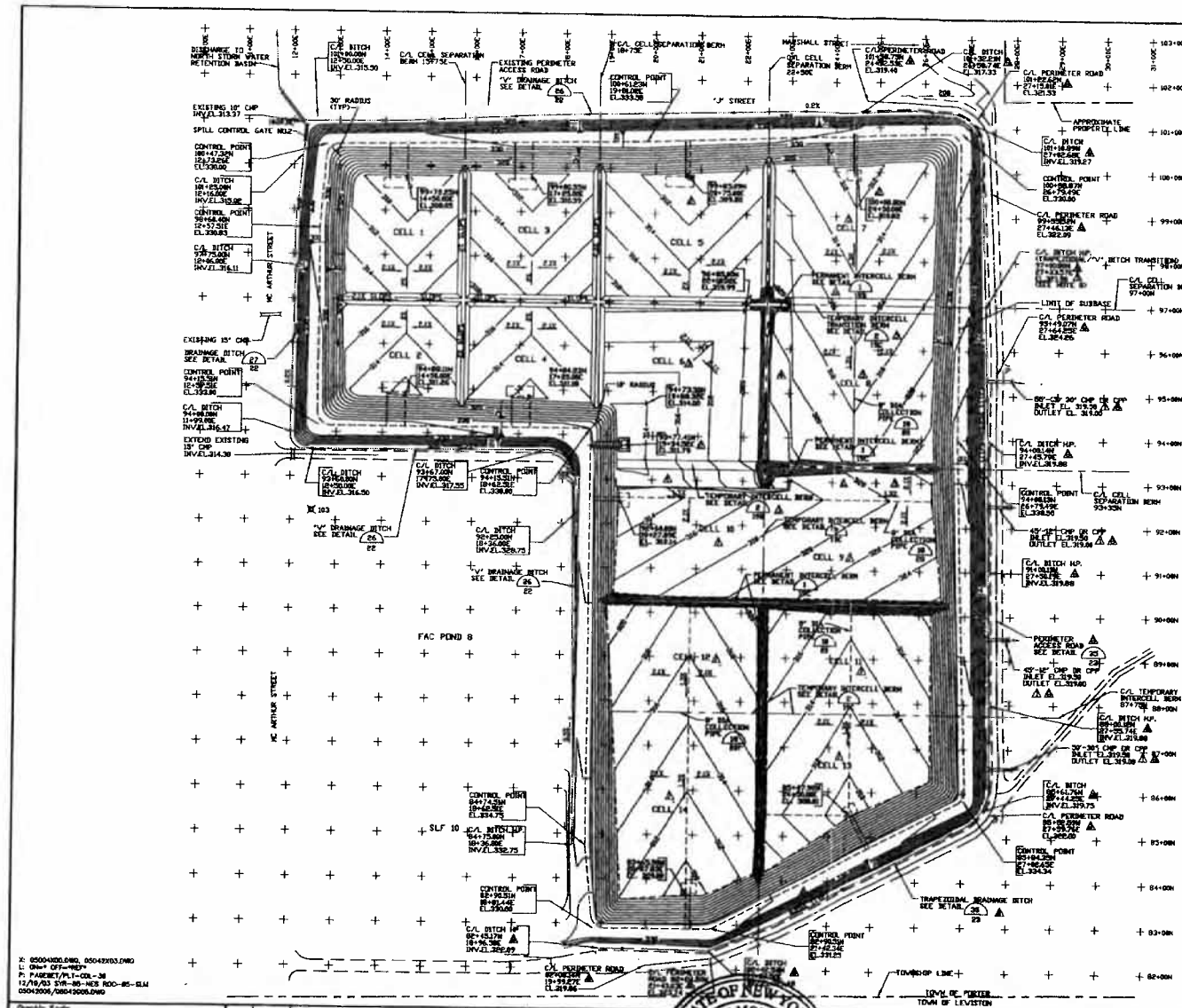
PROJECT NO. 17255
SHEET NO. 1
TOWN OF PORTER
TOWNSHIP LINE

SECONDARY LEACHATE
GRANULAR LAYER GRADES

7

NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY



- LEGEND:
- EXISTING GRADE
 - PROPOSED GRADE
 - LIMIT OF SUBBASE
 - SLOPE INDICATOR
 - DRAINAGE DITCH
 - ACCESS ROAD
 - TOP OF BERM
 - APPROXIMATE PROPERTY LINE
 - TOWNSHIP LINE
 - PERMANENT CONTROL MONUMENT
 - CULVERT

- NOTES:
1. TOPOGRAPHIC BASE MAP WAS PROVIDED BY AERO-METRIC ENGINEERING, INC. (AEROMETRIC), NEW CANAAN, CT. DATED FEBRUARY 1988. BOUNDARY CONTROL BY STAKE 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, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

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No.	Date	Revisions
1	12/03	REV. TO PERIMETER DITCH HIGH POINT
2	6/03	REV. TO PERIMETER DITCH, ACCESS ROAD, AND CULVERTS
3	6/03	NOTE 3 FOR POND REVISIONS

Project No. 12
Designed by: BBL
Drawn by: BBL
Checked by: JPS
Prof. Eng. J. JOSEPH MCGILL
PE License: JFC 072951



OWM CHEMICAL SERVICES, LLC • MODEL CITY FACILITY
RESIDUALS MANAGEMENT UNIT 1

**SECONDARY LEACHATE GRANULAR
LAYER GRADES** Modified: 07/09

GENERAL

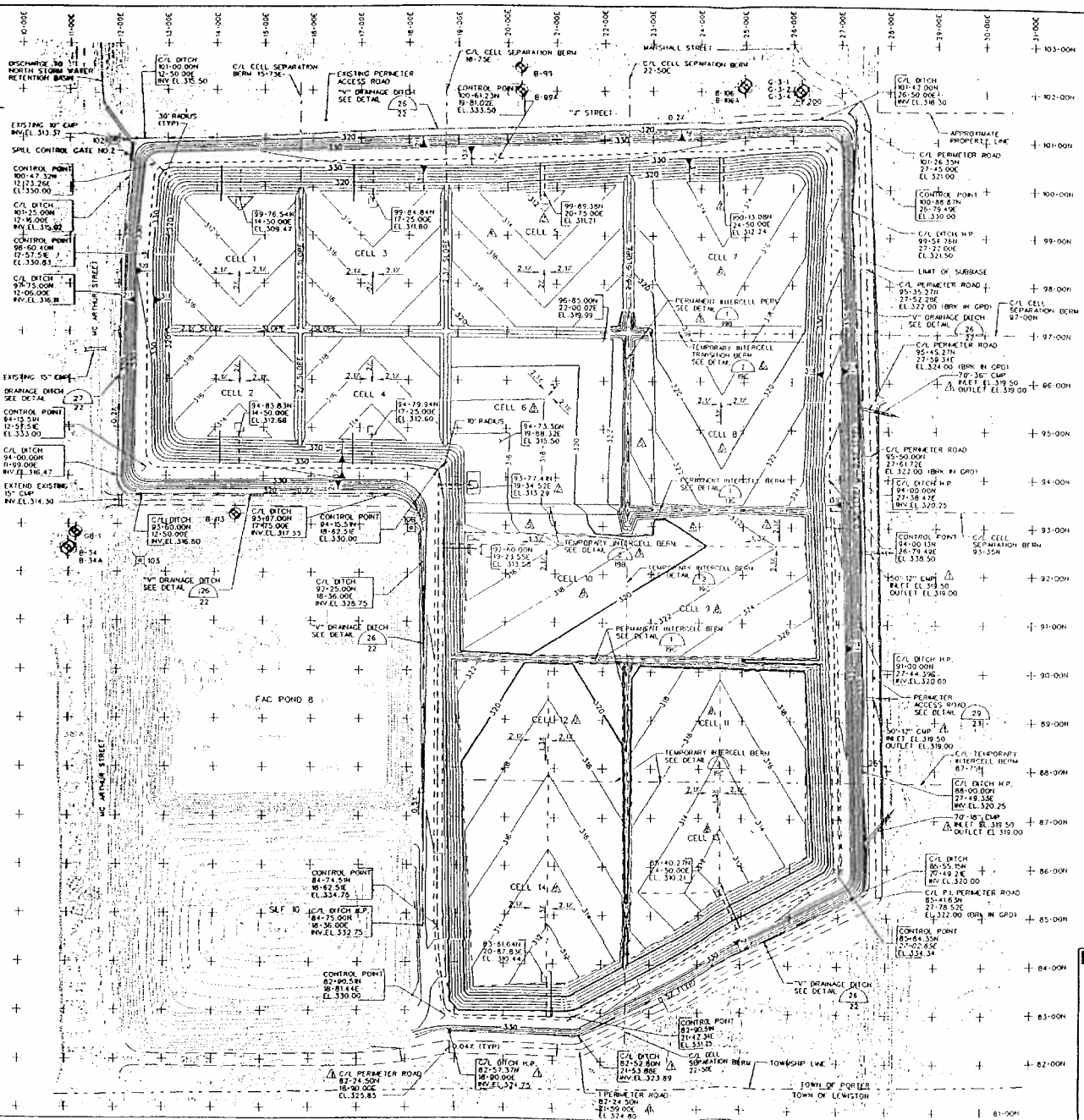
File Number
05043000.000

Date
JUNE 2003

Blawie, Bouck & Lee, Inc.
Corporal Headquarters
6723 Tappan Road
Syracuse, NY 13214
315-440-9120

7-a

DRAWING REVISED BY BLAWIE, BOUCK & LEE, INC.
THROUGH ITS PROFESSIONAL ENGINEER, WORK OF
EARTHTECH NOT INDEPENDENTLY REVIEWED.

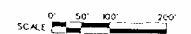
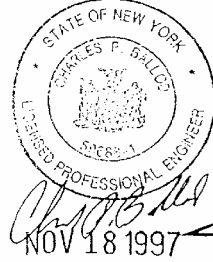


LEGEND

- EXISTING GRADE
- PROPOSED GRADE
- LIMIT OF SUBGRADE
- SLOPE INDICATOR
- DRAINAGE DITCH
- ACCESS ROAD
- TOP OF BERM
- APPROXIMATE PROPERTY LINE
- TOWNSHIP LINE
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL TEST
- SOL BORING
- PERMANENT CONTROL MONUMENT
- CULVERT

NOTES

1. TOPOGRAPHIC BASE MAP WAS PROVIDED BY AEROMATICS ENGINEERING, SHEBOYGAN, WISCONSIN, DATED DECEMBER 1988. GROUND CONTROL BY FRANK J. TRIPIANO AND ASSOC., P.C.
2. COORDINATES LABELED ON THESE PLANS ARE ACCORDING TO NAD 83 DATUM. SEE DETAIL NO. 2 FOR PLANT COORDINATES.
3. PROPOSED GRADES INDICATED ARE TOP OF FINISHED CLAY. THERE IS NO PRIMARY CLAY ON THE SITESLOPES. THEREFORE, SLOPESIDE CONTOURS HAVE NOT CHANGED.
4. UPON COMPLETION OF PRIMARY CLAY GRADES, THE PRIMARY DUMP IS TO BE EXCAVATED ONE OUTLINE OF DUMP EXCAVATIONS ARE SHOWN FOR CONSTRUCTION GRADES. SEE DRAWINGS NO. 13, 15A, 13B, 13C, 13D, 13E, 15G AND 15H.
5. UPON COMPLETING INSTALLATION OF ONE LAYER OF GEOMET FOR TRENCHES OVER THE BASE SECONDARY MUD LINE, THREE ADDITIONAL LAYERS OF GEOMET FOR TRENCHES 30 FEET WIDE ARE TO BE INSTALLED ALONG CENTER LINE OF CELL EXCEPT FOR CELL 7 THROUGH 14 FROM TOE OF SLOPESIDE IN DUMP TO TOE OF CELL SEPARATION BERM. ONE ADDITIONAL LAYER OF GEOMET FOR TRENCHES IS TO BE INSTALLED ALONG THE TOE OF THE CELL SIDE SLOPE. SEE DRAWINGS NO. 18 AND 19A.



6-97	MODIFY CELLS 8 THROUGH 11	FA	CEM
4-97	MODIFY CELL 9	FA	CEM
11-96	MODIFY CELLS 7 AND 8	FA	CEM
6-96	MODIFY CELL 6, 7 AND 8 AND CELL 8, 9 TRANSFERS	FA	CEM
6-96	MODIFY CONTINUUM LABELS IN CELL 5	FA	CEM
4-96	MODIFY CELL 6, 7 CELL NO. 10 TOWNSHIP GRADES	FA	CEM
11-95	MODIFY SHARP CELLS 5, 6 AND 7	FA	CEM
4-92	HOUSE OF REPRESENTATIVES DISPOSITION	CEM	CEM
REV DATE	DESCRIPTION	REV BY	APP BY

SIGNATURE _____ DATE _____

PROJECT NO. 17500 DATE FEBRUARY 1991

PROJECT RESOURCES MANAGEMENT UNIT 1

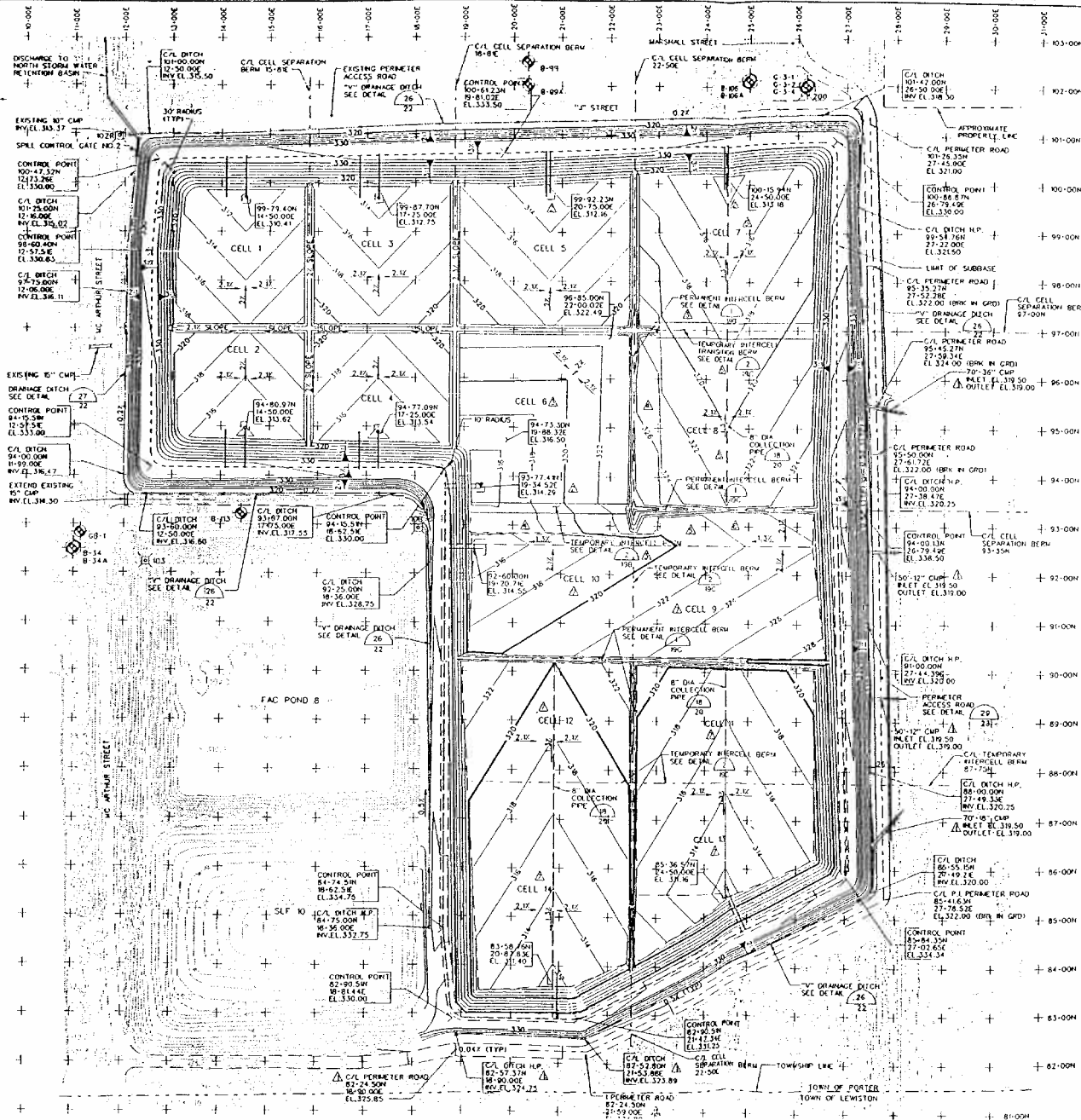
DRAWING TITLE

PRIMARY CLAY LINER GRADES

Civil Service, Inc. Model City, Indiana, Phone: 317-344-1100

8

NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY



LEGEND:

- EXISTING GRADE
- PROPOSED GRADE
- LIMIT OF SUBSURFACE
- SLOPE INDICATOR
- DRAINAGE DITCH
- ACCESS ROAD
- TOP OF BERM
- APPROXIMATE PROPERTY LINE
- TOWNSHIP LINE
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL TEST
- SOIL BORING
- PERMANENT CONTROL MONUMENT
- CULVERT

NOTES:

1. TOPOGRAPHIC BASE MAP WAS PROVIDED BY AEROMETRIC ENGINEERING, SHERIDAN, WISCONSIN, DATED DECEMBER 1986. GROUND CONTROL BY FRANK T. TRIPOLI AND ASSOC., P.C.
2. COORDINATES LABELED ON THESE PLANS ARE ACCORDING TO NAD 83 SITE GRID REF. TO DRAWING NO. 2 FOR PLANT COORDINATES.
3. PROPOSED GRADES INDICATED ARE TOP OF PRIMARY LEACHATE GRANULAR LAYER. THE UNDERLIE PRIMARY LEACHATE COLLECTION SYSTEM IS GEOMETRIC AND GEOTECHNICAL. THEREFORE, SLOPE COMFORTS HAVE NOT CHANGED.
4. ONLY OUTLINES OF COMPLETED PRIMARY SUMITS ARE SHOWN FOR SUMP CONSTRUCTION GRADES SEE DRAWINGS NO. 13, 13A, 13B, 13C, 13D, 13E, 13F AND 13H.



NOV 18 1997
Chris P. Bullock

SCALE 0' 50' 100' 200'

PROJECT INFORMATION

SIGNATURE _____
DATE _____

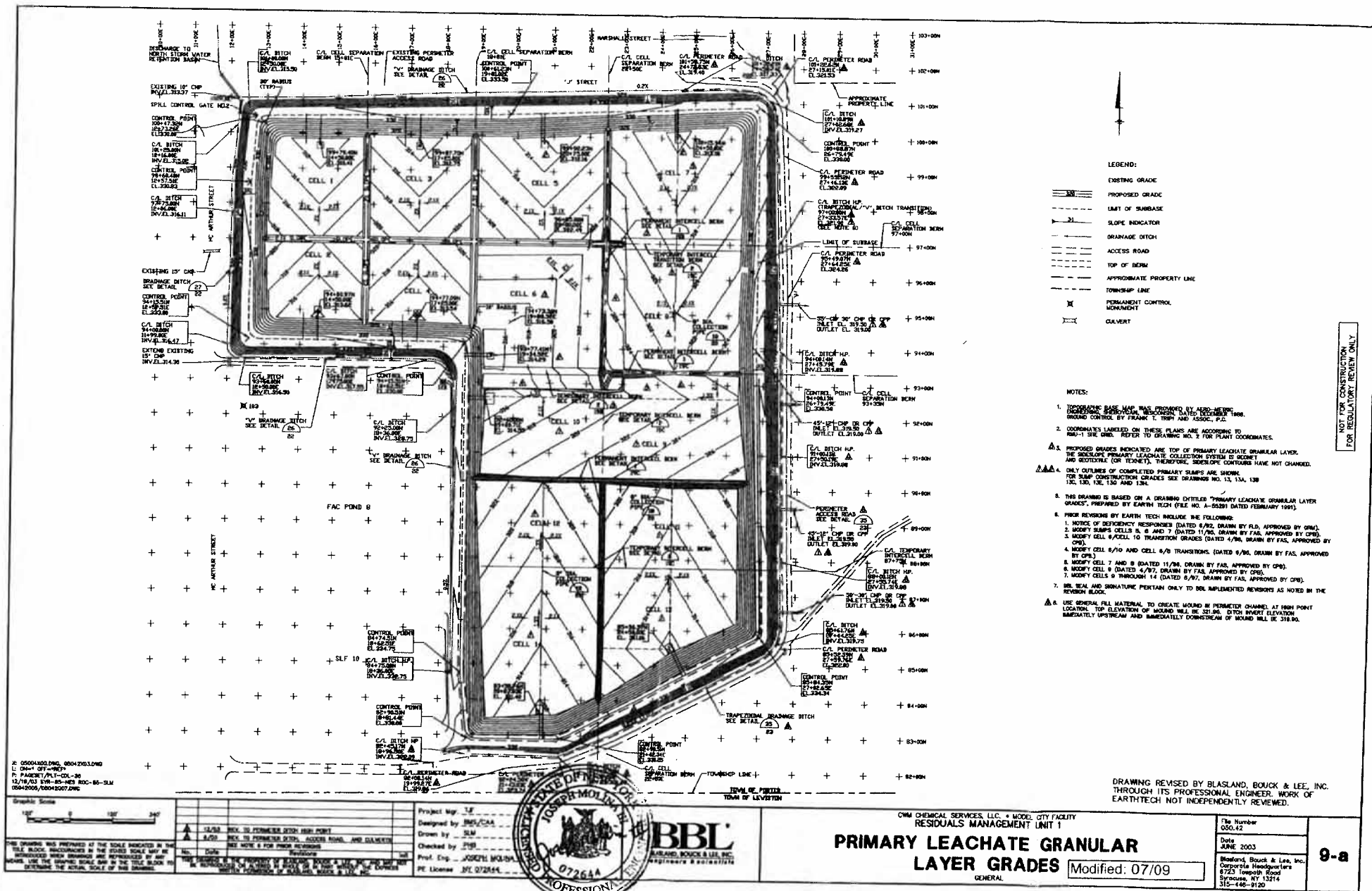
NO.	DESCRIPTION	DATE	BY	CHKD BY	APP'D BY
1	ISSUED FOR CONSTRUCTION	11/18/97	CB	CB	CB
2	REVISIONS				

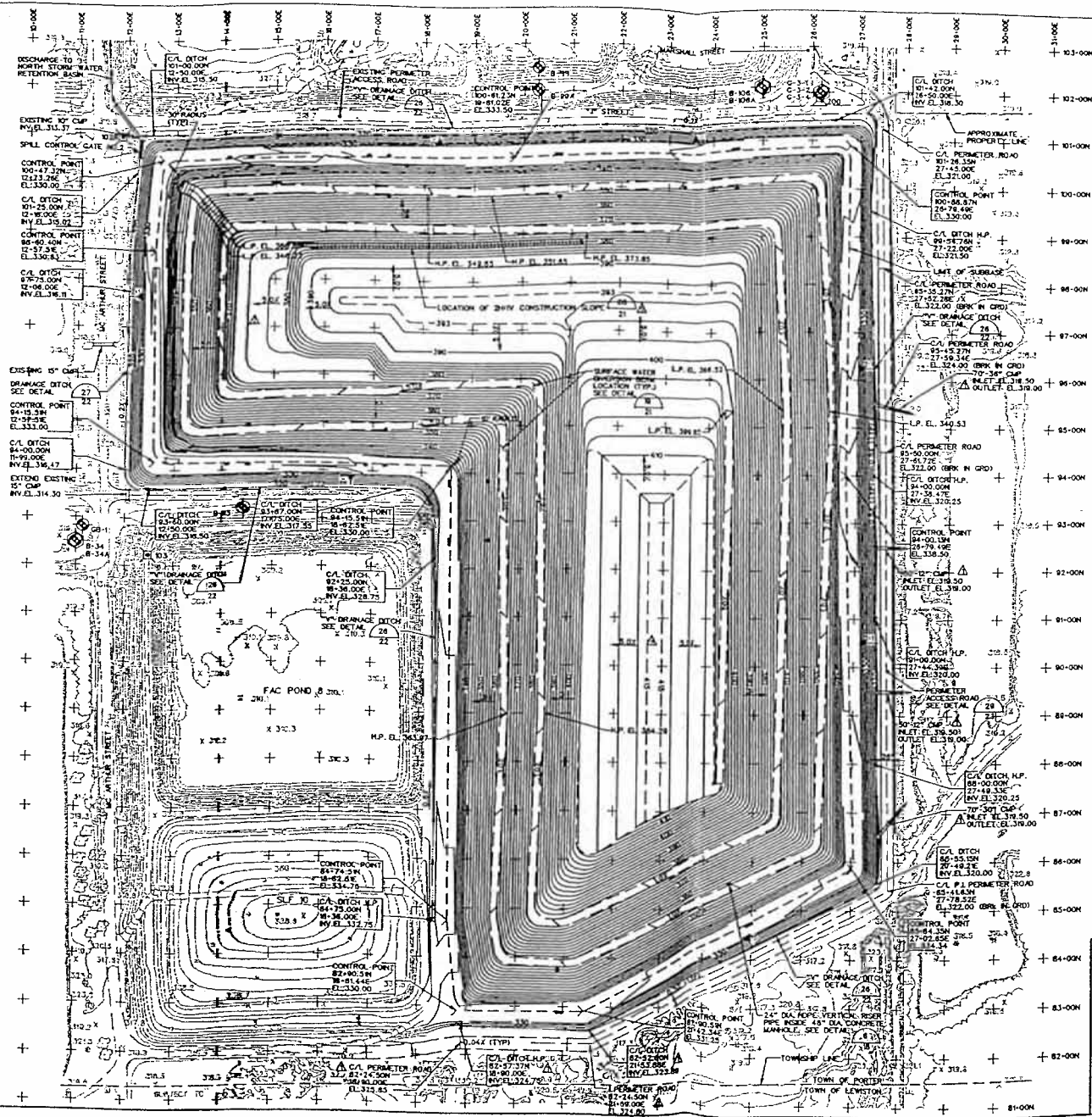
PROJECT: PRIMARY LEACHATE GRANULAR LAYER GRADES

CLIENT: CHRYSLER CREDIT CORPORATION

DATE: 11/18/97

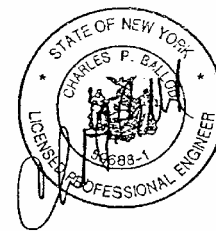
NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY





- LEGEND**
- EXISTING GRADE
 - PROPOSED GRADE
 - LIMIT OF SUBBASE
 - SLOPE INDICATOR
 - DRAINAGE DITCH
 - ACCESS ROAD
 - TOP OF BERM
 - APPROXIMATE PROPERTY LINE
 - TOWNSHIP LINE
 - GROUNDWATER MONITORING WELL
 - GROUNDWATER MONITORING WELL TEST
 - SOIL BORING
 - PERMANENT CONTROL MONUMENT
 - CULVERT
 - VALVE
 - 24" VERTICAL RISER

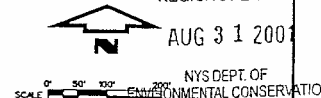
- NOTES**
1. TOPOGRAPHIC BASE MAP WAS PROVIDED BY AERO-METRIC ENGINEERING, SHERBOURNE, WISCONSIN, DATED DECEMBER 1988. GROUND CONTROL BY FRANK J. TORLAND ASSOC., P.C.
 2. COORDINATES LABELED ON THESE PLANS ARE ACCORDING TO NAD-1 SITE GRID REFER TO DRAWING NO. 2 FOR PLANT COORDINATES.
 3. PROPOSED GRADES INDICATED ARE TOP OF WASTE PRIOR TO DAILY OR INTERMEDIATE COVER PLACEMENT.
 4. SURFACE WATER DIVERSION BERM TO BE CONSTRUCTED AT A MINIMUM 0.5% SLOPE.



AUG 29 2001

RECEIVED
REGION 9 PERMITS

AUG 31 2001



NYS DEPT. OF
ENVIRONMENTAL CONSERVATION

RUST
SIVONKAMANT &
INFRASTRUCTURE

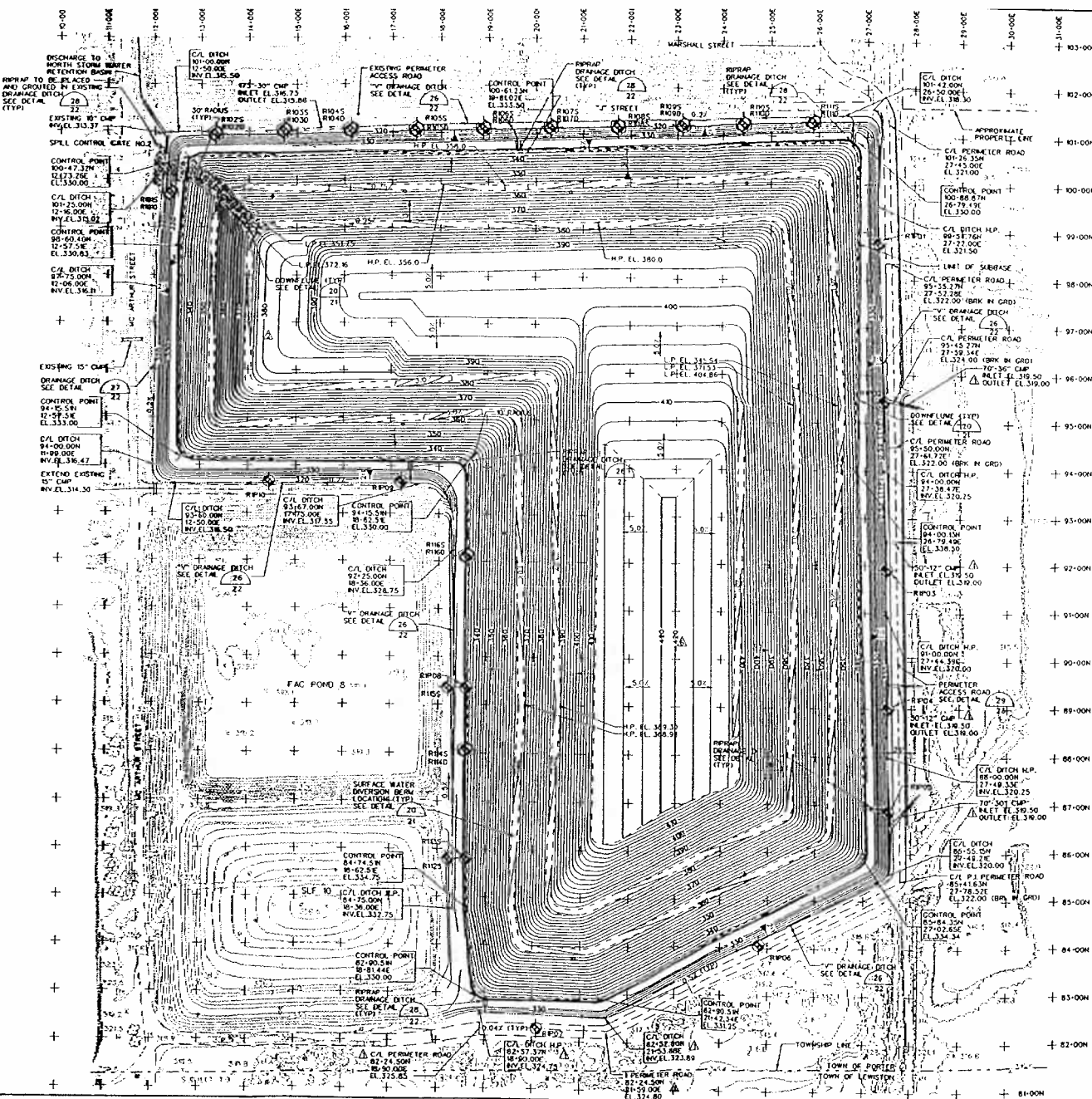
SIGNATURE
DATE

1-01	ADDED LOCATION OF BERM CONSTRUCTION SLOPE	FAS	CPB
2-01	REVISED MANHOLE ELEVATION	FAS	CPB
3-01	REVISED TOP OF WASTE GRADES FOR SURFACE DRAINAGE	FAS	CPB
4-01	BERM REVISED WELLS	FAS	CPB
5-01	ADDED TOP OF WASTE GRADES	FAS	CPB
6-01	ADDED TOP OF WASTE GRADES	FAS	CPB
7-01	ADDED TOP OF WASTE GRADES	FAS	CPB
8-01	ADDED TOP OF WASTE GRADES	FAS	CPB
9-01	ADDED TOP OF WASTE GRADES	FAS	CPB
10-01	ADDED TOP OF WASTE GRADES	FAS	CPB
11-01	ADDED TOP OF WASTE GRADES	FAS	CPB
12-01	ADDED TOP OF WASTE GRADES	FAS	CPB
13-01	ADDED TOP OF WASTE GRADES	FAS	CPB
14-01	ADDED TOP OF WASTE GRADES	FAS	CPB
15-01	ADDED TOP OF WASTE GRADES	FAS	CPB
16-01	ADDED TOP OF WASTE GRADES	FAS	CPB
17-01	ADDED TOP OF WASTE GRADES	FAS	CPB
18-01	ADDED TOP OF WASTE GRADES	FAS	CPB
19-01	ADDED TOP OF WASTE GRADES	FAS	CPB
20-01	ADDED TOP OF WASTE GRADES	FAS	CPB
21-01	ADDED TOP OF WASTE GRADES	FAS	CPB
22-01	ADDED TOP OF WASTE GRADES	FAS	CPB
23-01	ADDED TOP OF WASTE GRADES	FAS	CPB
24-01	ADDED TOP OF WASTE GRADES	FAS	CPB
25-01	ADDED TOP OF WASTE GRADES	FAS	CPB
26-01	ADDED TOP OF WASTE GRADES	FAS	CPB
27-01	ADDED TOP OF WASTE GRADES	FAS	CPB
28-01	ADDED TOP OF WASTE GRADES	FAS	CPB
29-01	ADDED TOP OF WASTE GRADES	FAS	CPB
30-01	ADDED TOP OF WASTE GRADES	FAS	CPB
31-01	ADDED TOP OF WASTE GRADES	FAS	CPB
32-01	ADDED TOP OF WASTE GRADES	FAS	CPB
33-01	ADDED TOP OF WASTE GRADES	FAS	CPB
34-01	ADDED TOP OF WASTE GRADES	FAS	CPB
35-01	ADDED TOP OF WASTE GRADES	FAS	CPB
36-01	ADDED TOP OF WASTE GRADES	FAS	CPB
37-01	ADDED TOP OF WASTE GRADES	FAS	CPB
38-01	ADDED TOP OF WASTE GRADES	FAS	CPB
39-01	ADDED TOP OF WASTE GRADES	FAS	CPB
40-01	ADDED TOP OF WASTE GRADES	FAS	CPB
41-01	ADDED TOP OF WASTE GRADES	FAS	CPB
42-01	ADDED TOP OF WASTE GRADES	FAS	CPB
43-01	ADDED TOP OF WASTE GRADES	FAS	CPB
44-01	ADDED TOP OF WASTE GRADES	FAS	CPB
45-01	ADDED TOP OF WASTE GRADES	FAS	CPB
46-01	ADDED TOP OF WASTE GRADES	FAS	CPB
47-01	ADDED TOP OF WASTE GRADES	FAS	CPB
48-01	ADDED TOP OF WASTE GRADES	FAS	CPB
49-01	ADDED TOP OF WASTE GRADES	FAS	CPB
50-01	ADDED TOP OF WASTE GRADES	FAS	CPB
51-01	ADDED TOP OF WASTE GRADES	FAS	CPB
52-01	ADDED TOP OF WASTE GRADES	FAS	CPB
53-01	ADDED TOP OF WASTE GRADES	FAS	CPB
54-01	ADDED TOP OF WASTE GRADES	FAS	CPB
55-01	ADDED TOP OF WASTE GRADES	FAS	CPB
56-01	ADDED TOP OF WASTE GRADES	FAS	CPB
57-01	ADDED TOP OF WASTE GRADES	FAS	CPB
58-01	ADDED TOP OF WASTE GRADES	FAS	CPB
59-01	ADDED TOP OF WASTE GRADES	FAS	CPB
60-01	ADDED TOP OF WASTE GRADES	FAS	CPB
61-01	ADDED TOP OF WASTE GRADES	FAS	CPB
62-01	ADDED TOP OF WASTE GRADES	FAS	CPB
63-01	ADDED TOP OF WASTE GRADES	FAS	CPB
64-01	ADDED TOP OF WASTE GRADES	FAS	CPB
65-01	ADDED TOP OF WASTE GRADES	FAS	CPB
66-01	ADDED TOP OF WASTE GRADES	FAS	CPB
67-01	ADDED TOP OF WASTE GRADES	FAS	CPB
68-01	ADDED TOP OF WASTE GRADES	FAS	CPB
69-01	ADDED TOP OF WASTE GRADES	FAS	CPB
70-01	ADDED TOP OF WASTE GRADES	FAS	CPB
71-01	ADDED TOP OF WASTE GRADES	FAS	CPB
72-01	ADDED TOP OF WASTE GRADES	FAS	CPB
73-01	ADDED TOP OF WASTE GRADES	FAS	CPB
74-01	ADDED TOP OF WASTE GRADES	FAS	CPB
75-01	ADDED TOP OF WASTE GRADES	FAS	CPB
76-01	ADDED TOP OF WASTE GRADES	FAS	CPB
77-01	ADDED TOP OF WASTE GRADES	FAS	CPB
78-01	ADDED TOP OF WASTE GRADES	FAS	CPB
79-01	ADDED TOP OF WASTE GRADES	FAS	CPB
80-01	ADDED TOP OF WASTE GRADES	FAS	CPB
81-01	ADDED TOP OF WASTE GRADES	FAS	CPB
82-01	ADDED TOP OF WASTE GRADES	FAS	CPB
83-01	ADDED TOP OF WASTE GRADES	FAS	CPB
84-01	ADDED TOP OF WASTE GRADES	FAS	CPB
85-01	ADDED TOP OF WASTE GRADES	FAS	CPB
86-01	ADDED TOP OF WASTE GRADES	FAS	CPB
87-01	ADDED TOP OF WASTE GRADES	FAS	CPB
88-01	ADDED TOP OF WASTE GRADES	FAS	CPB
89-01	ADDED TOP OF WASTE GRADES	FAS	CPB
90-01	ADDED TOP OF WASTE GRADES	FAS	CPB
91-01	ADDED TOP OF WASTE GRADES	FAS	CPB
92-01	ADDED TOP OF WASTE GRADES	FAS	CPB
93-01	ADDED TOP OF WASTE GRADES	FAS	CPB
94-01	ADDED TOP OF WASTE GRADES	FAS	CPB
95-01	ADDED TOP OF WASTE GRADES	FAS	CPB
96-01	ADDED TOP OF WASTE GRADES	FAS	CPB
97-01	ADDED TOP OF WASTE GRADES	FAS	CPB
98-01	ADDED TOP OF WASTE GRADES	FAS	CPB
99-01	ADDED TOP OF WASTE GRADES	FAS	CPB
100-01	ADDED TOP OF WASTE GRADES	FAS	CPB



CWA CHEMICAL SERVICES, INC.
MODEL CITY, NAGARA COUNTY, NEW YORK

FILE NO. A-5538
DRAWING NO.
11

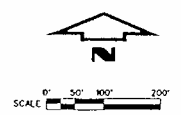
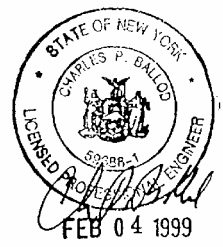


LEGEND:

- EXISTING GRADE
- PROPOSED GRADE
- LIMIT OF SUBBASE
- SLOPE INDICATOR
- DRAINAGE DITCH
- ACCESS ROAD
- TOP OF BERM
- APPROXIMATE PROPERTY LINE
- TOWNSHIP LINE
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL REST
- SOL BORING
- PERMANENT CONTROL MONUMENT
- CULVERT
- VAULT

NOTES:

1. TOPOGRAPHIC BASE MAP WAS PROVIDED BY AEROMETRIC ENGINEERING, SHEBOYGAN, WISCONSIN, DATED DECEMBER 1986. GROUND CONTROL BY FRANK T. TRIPPI AND ASSOC., P.C.
2. COORDINATES LABELED ON THESE PLANS ARE ACCORDING TO NAD-1983 GRID REFER TO DRAWING NO. 2 FOR PLANT COORDINATES.
3. PROPOSED GRADES INDICATED ARE TOP OF VEGETATIVE COVER SOL.
4. DRAINAGE TIE TO BE PLACED UNDER SURFACE WATER DRAINAGE DITCH. SEE DETAIL 17.
5. WELLS SHOWN ON THIS DRAWING ARE THE EXISTING MONITORING WELLS FOR RW-1.



REVISIONS

REV	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	APPROVED BY
1	2-99	REVISED WARMAN ELEVATION	FAS	CPB	
2	11-98	REVISED FINAL COVER ACCESS ROAD	FAS	CPB	
3	5-98	REVISED FINAL GRADES FOR IMPROVE ENVIRONMENT	FAS	CPB	
4	4-98	REVISED INVERSION BEHIND PHASE 1, 2 AND 3 CIP AREAS	FAS	CPB	
5	6-97	SHOW LIMIT OF PHASE 1 AND 2 CIP AREAS AND REVISED GRADES	FAS	CPB	
6	6-92	NOTICE OF DEFICIENCY RESPONSES	FLO	CPM	

SIGNATURE _____ DATE _____

PROJECT NO. 17365 DATE 12/28/98

PROJECT TITLE: RESOURCES MANAGEMENT UNIT 1

DRAWING TITLE: TOP OF VEGETATIVE COVER GRADES

FILE NO. A-55288 DRAWING NO. 12



CWH CHEMICAL SERVICES, INC.
MODEL CITY, MACARA COUNTY, NEW YORK

CELL 1 SUMP GRADES		
COORDINATES		ELEVATION
NORTH	EAST	
SECONDARY SUMP UNDERCUT GRADES		
AA	99+07.00	13+96.75 TOE 3:1
BB	99+08.00	13+96.75 GRADE
CC	99+12.54	14+61.00 TOE 3:1
DD	99+08.04	14+61.00 GRADE
EE	99+08.75	14+06.00 TOE 3:1
FF	99+05.00	14+06.00 GRADE
GG	99+07.54	14+58.00 TOE 3:1
HH	99+07.54	14+58.00 GRADE
PRIMARY SUMP GRADES		
A	99+08.00	13+96.75 TOE 3:1
B	99+08.00	13+96.75 GRADE
C	99+07.54	14+61.00 TOE 3:1
D	99+07.54	14+61.00 GRADE
E	99+08.75	14+06.00 TOE 3:1
F	99+05.00	14+06.00 GRADE
G	99+07.54	14+58.00 TOE 3:1
H	99+07.54	14+58.00 GRADE
PRIMARY SUMP GRADES		
S	TOE 3:1	14+41.00 GRADE
T	99+07.54	14+41.00 GRADE
U	TOE 3:1	14+59.00 GRADE
V	99+07.54	14+59.00 GRADE
W	99+07.54	14+46.00 TOE 3:1
X	99+07.54	14+46.00 GRADE
Y	99+07.54	14+54.00 TOE 3:1
Z	99+07.54	14+54.00 GRADE

CELL 2 SUMP GRADES		
COORDINATES		ELEVATION
NORTH	EAST	
SECONDARY SUMP UNDERCUT GRADES		
AA	94+77.87	13+96.75 TOE 3:1
BB	95+12.87	13+96.75 GRADE
CC	94+66.83	14+61.00 TOE 3:1
DD	95+12.33	14+61.00 GRADE
EE	94+82.62	14+06.00 TOE 3:1
FF	95+26.62	14+06.00 GRADE
GG	95+07.87	14+58.00 TOE 3:1
HH	95+07.87	14+58.00 GRADE
PRIMARY SUMP GRADES		
A	94+77.87	13+96.75 TOE 3:1
B	95+12.87	13+96.75 GRADE
C	94+66.83	14+61.00 TOE 3:1
D	95+12.33	14+61.00 GRADE
E	94+82.62	14+06.00 TOE 3:1
F	95+26.62	14+06.00 GRADE
G	95+07.87	14+58.00 TOE 3:1
H	95+07.87	14+58.00 GRADE
PRIMARY SUMP GRADES		
S	TOE 3:1	14+41.00 GRADE
T	95+12.87	14+41.00 GRADE
U	TOE 3:1	14+59.00 GRADE
V	95+12.87	14+59.00 GRADE
W	94+82.62	14+46.00 TOE 3:1
X	94+82.62	14+46.00 GRADE
Y	94+82.62	14+54.00 TOE 3:1
Z	94+82.62	14+54.00 GRADE

CELL 3 SUMP GRADES		
COORDINATES		ELEVATION
NORTH	EAST	
SECONDARY SUMP UNDERCUT GRADES		
AA	99+01.28	16+73.00 TOE 3:1
BB	99+01.28	16+73.00 GRADE
CC	100+01.84	17+36.00 TOE 3:1
DD	99+01.28	17+36.00 GRADE
EE	99+06.53	16+81.00 TOE 3:1
FF	99+01.28	16+81.00 GRADE
GG	99+01.28	17+33.00 TOE 3:1
HH	99+01.28	17+33.00 GRADE
PRIMARY SUMP GRADES		
A	99+01.28	16+73.00 TOE 3:1
B	99+01.28	16+73.00 GRADE
C	99+01.28	17+36.00 TOE 3:1
D	99+01.28	17+36.00 GRADE
E	99+06.53	16+81.00 TOE 3:1
F	99+01.28	16+81.00 GRADE
G	99+01.28	17+33.00 TOE 3:1
H	99+01.28	17+33.00 GRADE
PRIMARY SUMP GRADES		
S	TOE 3:1	17+16.00 GRADE
T	99+01.28	17+16.00 GRADE
U	TOE 3:1	17+34.00 GRADE
V	99+01.28	17+34.00 GRADE
W	99+06.53	17+21.00 TOE 3:1
X	99+06.53	17+21.00 GRADE
Y	99+06.53	17+29.00 TOE 3:1
Z	99+06.53	17+29.00 GRADE

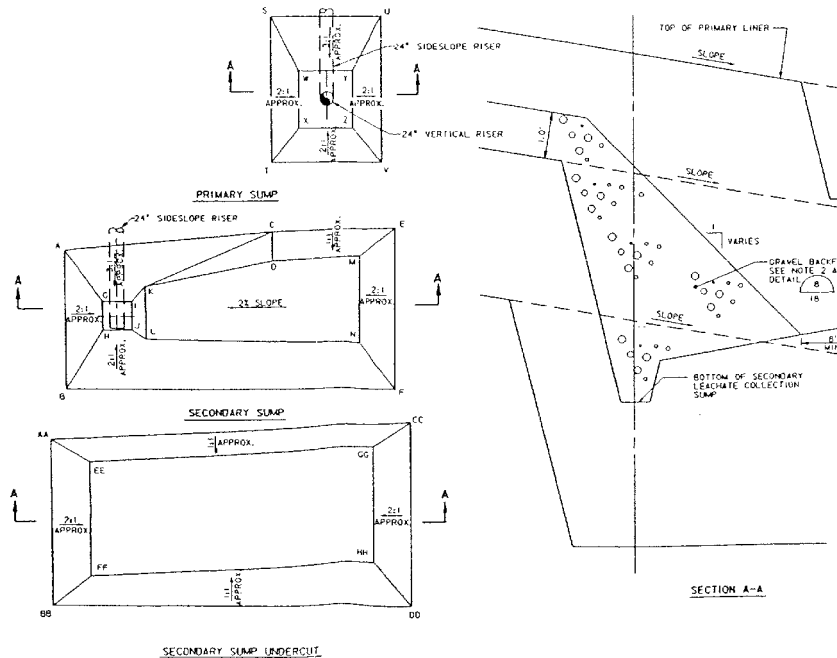
CELL 4 SUMP GRADES		
COORDINATES		ELEVATION
NORTH	EAST	
SECONDARY SUMP UNDERCUT GRADES		
AA	94+74.00	16+73.00 TOE 3:1
BB	99+01.00	16+73.00 GRADE
CC	94+68.94	17+21.00 TOE 3:1
DD	94+74.00	17+21.00 GRADE
EE	94+74.00	17+34.50 TOE 3:1
FF	94+74.00	17+34.50 GRADE
GG	94+74.00	16+81.00 TOE 3:1
HH	94+74.00	16+81.00 GRADE
PRIMARY SUMP GRADES		
A	94+74.00	16+73.00 TOE 3:1
B	99+01.00	16+73.00 GRADE
C	94+68.94	17+21.00 TOE 3:1
D	94+74.00	17+21.00 GRADE
E	94+74.00	17+34.50 TOE 3:1
F	94+74.00	17+34.50 GRADE
G	94+74.00	16+81.00 TOE 3:1
H	94+74.00	16+81.00 GRADE
PRIMARY SUMP GRADES		
S	TOE 3:1	17+16.00 GRADE
T	94+74.00	17+16.00 GRADE
U	TOE 3:1	17+34.00 GRADE
V	94+74.00	17+34.00 GRADE
W	94+74.00	17+21.00 TOE 3:1
X	94+74.00	17+21.00 GRADE
Y	94+74.00	17+29.00 TOE 3:1
Z	94+74.00	17+29.00 GRADE

CELL 5 SUMP GRADES (SEE NOTE 3)		
COORDINATES		ELEVATION
NORTH	EAST	
SECONDARY SUMP UNDERCUT GRADES		
AA	99+03.60	20+21.00 TOE 3:1
BB	99+03.60	20+21.00 GRADE
CC	100+06.38	20+86.00 TOE 3:1
DD	99+03.60	20+86.00 GRADE
EE	99+03.60	20+31.00 TOE 3:1
FF	99+03.60	20+31.00 GRADE
GG	100+06.38	20+86.00 TOE 3:1
HH	99+03.60	20+86.00 GRADE
PRIMARY SUMP GRADES		
A	99+03.60	20+21.00 TOE 3:1
B	99+03.60	20+21.00 GRADE
C	100+06.38	20+86.00 TOE 3:1
D	99+03.60	20+86.00 GRADE
E	99+03.60	20+31.00 TOE 3:1
F	99+03.60	20+31.00 GRADE
G	100+06.38	20+86.00 TOE 3:1
H	99+03.60	20+86.00 GRADE
PRIMARY SUMP GRADES		
S	TOE 3:1	20+66.00 GRADE
T	99+03.60	20+66.00 GRADE
U	TOE 3:1	20+84.00 GRADE
V	99+03.60	20+84.00 GRADE
W	99+03.60	20+71.00 TOE 3:1
X	99+03.60	20+71.00 GRADE
Y	99+03.60	20+79.00 TOE 3:1
Z	99+03.60	20+79.00 GRADE

CELL 6 SUMP GRADES (SEE NOTE 3)		
COORDINATES		ELEVATION
NORTH	EAST	
SECONDARY SUMP UNDERCUT GRADES		
AA	93+55.42	19+16.02 TOE 3:1
BB	93+55.42	19+16.02 GRADE
CC	94+04.67	19+05.27 TOE 3:1
DD	94+04.67	19+05.27 GRADE
EE	94+04.67	19+20.77 TOE 3:1
FF	94+04.67	19+20.77 GRADE
GG	94+04.67	19+11.27 TOE 3:1
HH	94+04.67	19+11.27 GRADE
PRIMARY SUMP GRADES		
A	93+55.42	19+16.02 TOE 3:1
B	93+55.42	19+16.02 GRADE
C	94+04.67	19+05.27 TOE 3:1
D	94+04.67	19+05.27 GRADE
E	94+04.67	19+20.77 TOE 3:1
F	94+04.67	19+20.77 GRADE
G	94+04.67	19+11.27 TOE 3:1
H	94+04.67	19+11.27 GRADE
PRIMARY SUMP GRADES		
S	TOE 3:1	19+16.02 TOE 3:1
T	93+55.42	19+16.02 GRADE
U	TOE 3:1	19+05.27 TOE 3:1
V	94+04.67	19+05.27 GRADE
W	94+04.67	19+20.77 TOE 3:1
X	94+04.67	19+20.77 GRADE
Y	94+04.67	19+11.27 TOE 3:1
Z	94+04.67	19+11.27 GRADE

CELL 7 SUMP GRADES (SEE NOTE 3)		
COORDINATES		ELEVATION
NORTH	EAST	
SECONDARY SUMP UNDERCUT GRADES		
AA	100+17.25	23+96.75 TOE 3:1
BB	99+02.25	23+96.75 GRADE
CC	100+30.08	24+61.00 TOE 3:1
DD	99+02.25	24+61.00 GRADE
EE	100+12.49	24+06.00 TOE 3:1
FF	99+02.25	24+06.00 GRADE
GG	100+12.49	24+58.00 TOE 3:1
HH	99+02.25	24+58.00 GRADE
PRIMARY SUMP GRADES		
A	100+17.25	23+96.75 TOE 3:1
B	99+02.25	23+96.75 GRADE
C	100+30.08	24+61.00 TOE 3:1
D	99+02.25	24+61.00 GRADE
E	100+12.49	24+06.00 TOE 3:1
F	99+02.25	24+06.00 GRADE
G	100+12.49	24+58.00 TOE 3:1
H	99+02.25	24+58.00 GRADE
PRIMARY SUMP GRADES		
S	TOE 3:1	24+41.00 GRADE
T	99+02.25	24+41.00 GRADE
U	TOE 3:1	24+59.00 GRADE
V	99+02.25	24+59.00 GRADE
W	100+12.49	24+46.00 TOE 3:1
X	99+02.25	24+46.00 GRADE
Y	100+12.49	24+54.00 TOE 3:1
Z	99+02.25	24+54.00 GRADE

CELL 8 SUMP GRADES (SEE NOTE 3)		
COORDINATES		ELEVATION
NORTH	EAST	
SECONDARY SUMP UNDERCUT GRADES		
AA	94+71.75	26+04.56 TOE 3:1
BB	94+71.75	26+04.56 GRADE
CC	95+16.00	26+17.46 TOE 3:1
DD	94+71.75	26+17.46 GRADE
EE	95+16.00	25+71.96 TOE 3:1
FF	94+71.75	25+71.96 GRADE
GG	95+16.00	25+93.81 TOE 3:1
HH	94+71.75	25+93.81 GRADE
PRIMARY SUMP GRADES		
A	94+71.75	26+04.56 TOE 3:1
B	94+71.75	26+04.56 GRADE
C	95+16.00	26+17.46 TOE 3:1
D	94+71.75	26+17.46 GRADE
E	95+16.00	25+71.96 TOE 3:1
F	94+71.75	25+71.96 GRADE
G	95+16.00	25+93.81 TOE 3:1
H	94+71.75	25+93.81 GRADE
PRIMARY SUMP GRADES		
S	TOE 3:1	26+04.56 TOE 3:1
T	94+71.75	26+04.56 GRADE
U	TOE 3:1	26+17.46 TOE 3:1
V	94+71.75	26+17.46 GRADE
W	95+16.00	25+71.96 TOE 3:1
X	94+71.75	25+71.96 GRADE
Y	95+16.00	25+93.81 TOE 3:1
Z	94+71.75	25+93.81 GRADE



NOTES:

- SEE DRAWING 18 FOR TYPICAL CROSS SECTIONS OF PRIMARY AND SECONDARY SUMPS.
- LINER INSTALLER TO PROVIDE OWNER WITH PANEL AND WELD LAYOUT FOR SUMPS PRIOR TO FIELD WORK.
- FOR COORDINATES, ELEVATIONS AND GRADES FOR THE UNDERCUT, SECONDARY SUMP AND PRIMARY SUMP OF CELLS 5, 6, 7 AND 8 SEE DRAWINGS 13A, 13B, 13C, AND 13D.

SECTION A-A

FILE NO. A-55087
DRAWING NO. 13

CHW CHEMICAL SERVICES, INC.
MODEL CITY, NIAGARA COUNTY, NEW YORK

1997-1

REGISTERED PROFESSIONAL ENGINEER

FEB 06 1997

CHW

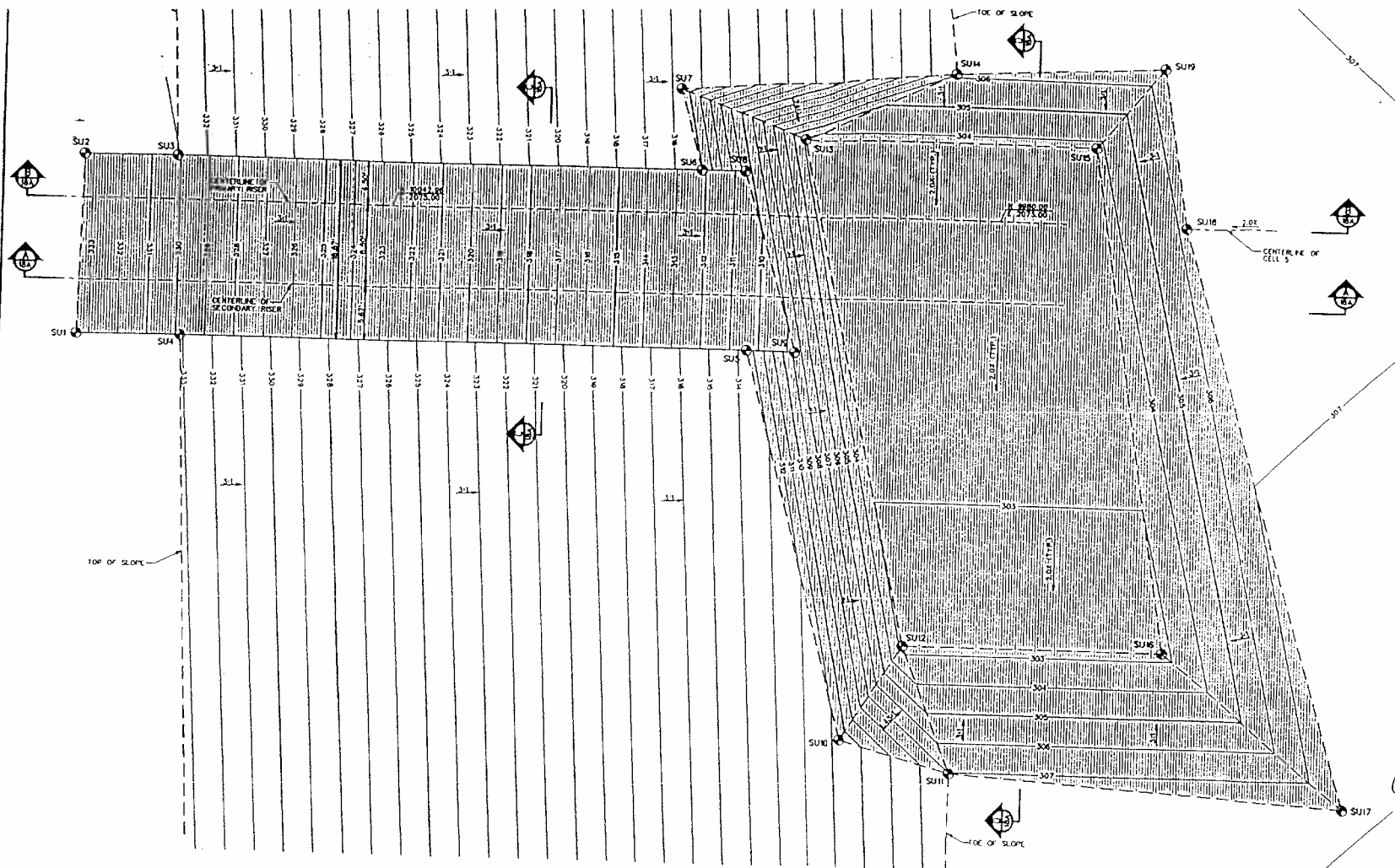
REVISIONS:

REV	DATE	DESCRIPTION	DR BY	APP BY
1	02/06/97	ISSUED FOR CONSTRUCTION	CHW	CHW

PROJECT NO. 17365
PROJECT: RESIDUALS MANAGEMENT UNIT 1

DRAWING TITLE:
SUMP CONSTRUCTION GRADES

DESIGNED BY: J.T.P.
CHECKED BY: M.C.R.
DRAWN BY: T.J.D.
APP. BY: C.F.F.
APP. BY: C.R.M.



SECONDARY SUMP UNDERCUT CONSTRUCTION CONTROL COORDINATES			
POINT	NORTHING	EASTING	EL.
SU1	100.00	100.00	100.00
SU2	100.00	100.00	100.00
SU3	100.00	100.00	100.00
SU4	100.00	100.00	100.00
SU5	100.00	100.00	100.00
SU6	100.00	100.00	100.00
SU7	100.00	100.00	100.00
SU8	100.00	100.00	100.00
SU9	100.00	100.00	100.00
SU10	100.00	100.00	100.00
SU11	100.00	100.00	100.00
SU12	100.00	100.00	100.00
SU13	100.00	100.00	100.00
SU14	100.00	100.00	100.00
SU15	100.00	100.00	100.00
SU16	100.00	100.00	100.00
SU17	100.00	100.00	100.00
SU18	100.00	100.00	100.00
SU19	100.00	100.00	100.00



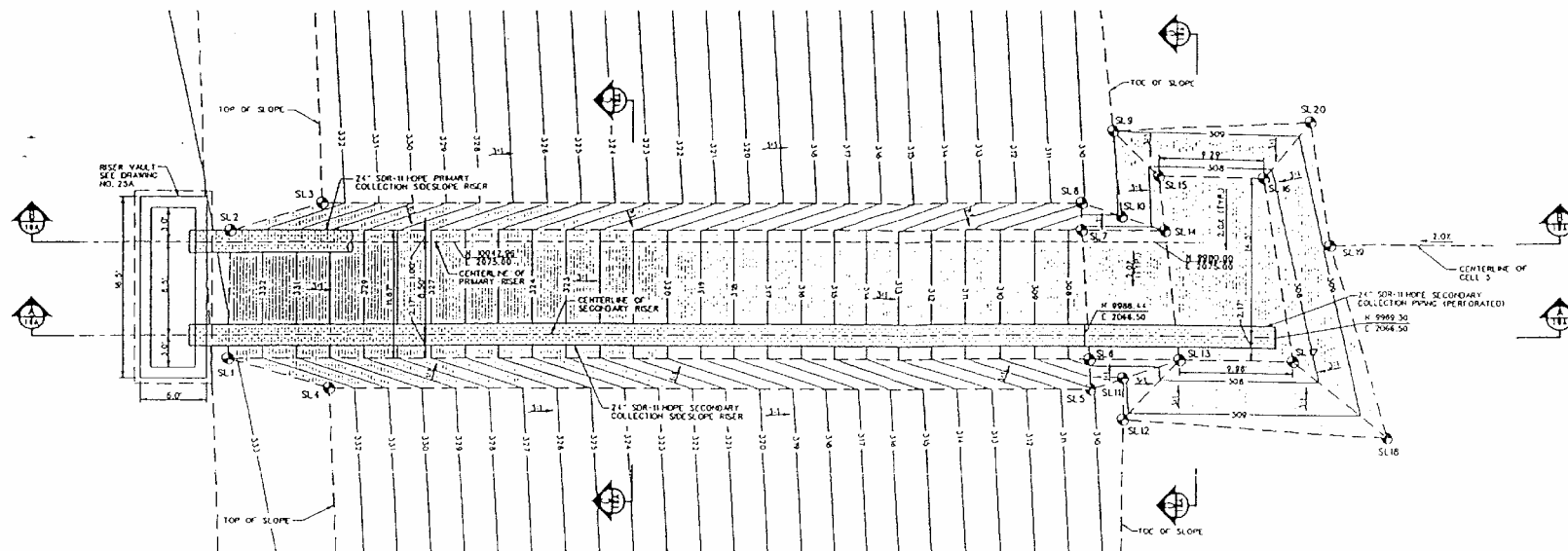
JAN 23 1996

Charles P. Ballot

1
13A
PLAN
SECONDARY LEACHATE COLLECTION
SUMP UNDERCUT
SCALE 1" = 5'

SIGNATURE		REV.	DATE	DESCRIPTION	DRN BY	APP BY
DATE		DATE	DATE	DATE	DATE	DATE
DES BY: FAS		PROJECT NO: 2128-00		SCALE: AS SHOWN		
DRN BY: FAS		PROJECT: RESOURCE MANAGEMENT UNIT 1		CELLS 3 AND 4		
CHK BY: CPB		SHEET TITLE:				
REV BY: AMC		SUMP CONSTRUCTION		GRADES CELL 5		
APP BY: CPB		CWM Chemical Services, Inc.		Model City Facility		
		DRAWING NO:		13A		

CADD PRODUCED DRAWING



1
PLAN
SECONDARY LEACHATE COLLECTION
SIDESLOPE RISER AND SUMP
(TOP OF SECONDARY LINER)
SCALE 1" = 5'

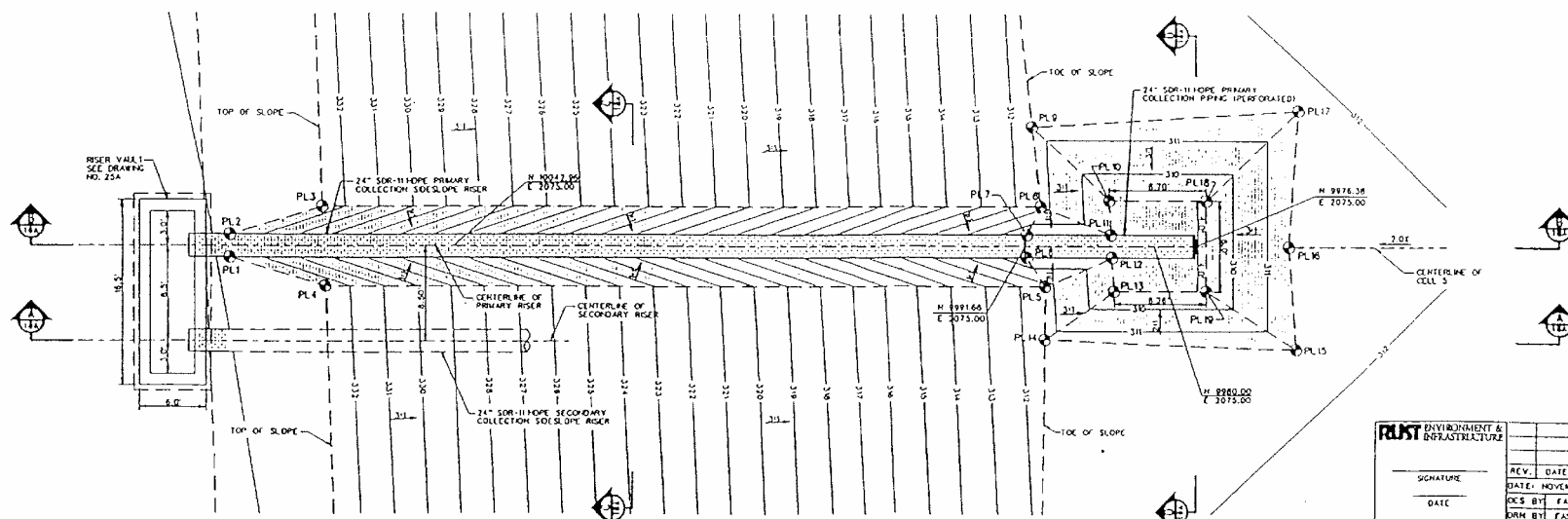
SECONDARY SUMP CLAY LINER
CONSTRUCTION CONTROL
COORDINATES

POINT	NORTHING	EASTING	EL
SL.1	9990.30	2044.50	2012.00
SL.2	9990.30	2044.50	2013.00
SL.3	9990.30	2044.50	2012.00
SL.4	9990.30	2044.50	2013.00
SL.5	9990.30	2044.50	2012.00
SL.6	9990.30	2044.50	2013.00
SL.7	9990.30	2044.50	2012.00
SL.8	9990.30	2044.50	2013.00
SL.9	9990.30	2044.50	2012.00
SL.10	9990.30	2044.50	2013.00
SL.11	9990.30	2044.50	2012.00
SL.12	9990.30	2044.50	2013.00
SL.13	9990.30	2044.50	2012.00
SL.14	9990.30	2044.50	2013.00
SL.15	9990.30	2044.50	2012.00
SL.16	9990.30	2044.50	2013.00
SL.17	9990.30	2044.50	2012.00
SL.18	9990.30	2044.50	2013.00



JAN 23 1996

Charles P. Ballou



2
PLAN
PRIMARY LEACHATE COLLECTION
SIDESLOPE RISER AND SUMP
(TOP OF PRIMARY LINER)
SCALE 1" = 5'

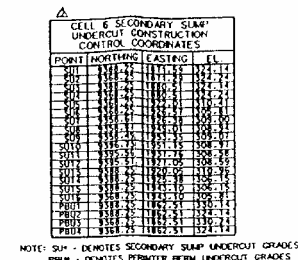
PRIMARY SUMP CLAY LINER
CONSTRUCTION CONTROL
COORDINATES

POINT	NORTHING	EASTING	EL
PL.1	9990.30	2044.50	2012.00
PL.2	9990.30	2044.50	2013.00
PL.3	9990.30	2044.50	2012.00
PL.4	9990.30	2044.50	2013.00
PL.5	9990.30	2044.50	2012.00
PL.6	9990.30	2044.50	2013.00
PL.7	9990.30	2044.50	2012.00
PL.8	9990.30	2044.50	2013.00
PL.9	9990.30	2044.50	2012.00
PL.10	9990.30	2044.50	2013.00
PL.11	9990.30	2044.50	2012.00
PL.12	9990.30	2044.50	2013.00
PL.13	9990.30	2044.50	2012.00
PL.14	9990.30	2044.50	2013.00
PL.15	9990.30	2044.50	2012.00
PL.16	9990.30	2044.50	2013.00
PL.17	9990.30	2044.50	2012.00
PL.18	9990.30	2044.50	2013.00

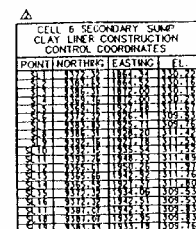
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DATE		DES BY	FAS	PROJECT NO. 25702-100	SCALE	AS SHOWN
		CHK BY	FAS	PROJECT	RESOURCES MANAGEMENT UNIT 1	
		APP BY	CPO	SHEET TITLE:		
		REV BY	AME	SUMP CONSTRUCTION GRADES CELL 3		
		APP BY	CPO			

CWM Chemical Services, Inc.
Meadow City Facility

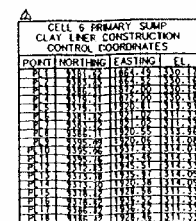
DRAWING NO. 13B



PLAN - CELL 6
SECONDARY LEACHATE COLLECTION
SUMP UNDERCUT
SCALE 1" = 3'



PLAN - CELL 6
 2 SECONDARY LEACHATE COLLECTION
 13C SIDESLOPE RISER AND SUMP
 (TOP OF SECONDARY LINER)
 SCALE: 1" = 5'



PLAN - CELL 6
PRIMARY LEACHATE COLLECTION
SIDESLOPE RISER AND SUMP

CELL 6 SECONDARY SUMP COLLECTION LAYER CONSTRUCTION CONTROL COORDINATES			
POINT	NORTHING	EASTING	EL.
1	1000.00	1000.00	1000.00
2	1000.00	1000.00	1000.00
3	1000.00	1000.00	1000.00
4	1000.00	1000.00	1000.00
5	1000.00	1000.00	1000.00
6	1000.00	1000.00	1000.00
7	1000.00	1000.00	1000.00
8	1000.00	1000.00	1000.00
9	1000.00	1000.00	1000.00
10	1000.00	1000.00	1000.00
11	1000.00	1000.00	1000.00
12	1000.00	1000.00	1000.00
13	1000.00	1000.00	1000.00
14	1000.00	1000.00	1000.00
15	1000.00	1000.00	1000.00
16	1000.00	1000.00	1000.00
17	1000.00	1000.00	1000.00
18	1000.00	1000.00	1000.00
19	1000.00	1000.00	1000.00
20	1000.00	1000.00	1000.00
21	1000.00	1000.00	1000.00
22	1000.00	1000.00	1000.00
23	1000.00	1000.00	1000.00
24	1000.00	1000.00	1000.00
25	1000.00	1000.00	1000.00
26	1000.00	1000.00	1000.00
27	1000.00	1000.00	1000.00
28	1000.00	1000.00	1000.00
29	1000.00	1000.00	1000.00
30	1000.00	1000.00	1000.00
31	1000.00	1000.00	1000.00
32	1000.00	1000.00	1000.00
33	1000.00	1000.00	1000.00
34	1000.00	1000.00	1000.00
35	1000.00	1000.00	1000.00
36	1000.00	1000.00	1000.00
37	1000.00	1000.00	1000.00
38	1000.00	1000.00	1000.00
39	1000.00	1000.00	1000.00
40	1000.00	1000.00	1000.00
41	1000.00	1000.00	1000.00
42	1000.00	1000.00	1000.00
43	1000.00	1000.00	1000.00
44	1000.00	1000.00	1000.00
45	1000.00	1000.00	1000.00
46	1000.00	1000.00	1000.00
47	1000.00	1000.00	1000.00
48	1000.00	1000.00	1000.00
49	1000.00	1000.00	1000.00
50	1000.00	1000.00	1000.00
51	1000.00	1000.00	1000.00
52	1000.00	1000.00	1000.00
53	1000.00	1000.00	1000.00
54	1000.00	1000.00	1000.00
55	1000.00	1000.00	1000.00
56	1000.00	1000.00	1000.00
57	1000.00	1000.00	1000.00
58	1000.00	1000.00	1000.00
59	1000.00	1000.00	1000.00
60	1000.00	1000.00	1000.00
61	1000.00	1000.00	1000.00
62	1000.00	1000.00	1000.00
63	1000.00	1000.00	1000.00
64	1000.00	1000.00	1000.00
65	1000.00	1000.00	1000.00
66	1000.00	1000.00	1000.00
67	1000.00	1000.00	1000.00
68	1000.00	1000.00	1000.00
69	1000.00	1000.00	1000.00
70	1000.00	1000.00	1000.00
71	1000.00	1000.00	1000.00
72	1000.00	1000.00	1000.00
73	1000.00	1000.00	1000.00
74	1000.00	1000.00	1000.00
75	1000.00	1000.00	1000.00
76	1000.00	1000.00	1000.00
77	1000.00	1000.00	1000.00
78	1000.00	1000.00	1000.00
79	1000.00	1000.00	1000.00
80	1000.00	1000.00	1000.00
81	1000.00	1000.00	1000.00
82	1000.00	1000.00	1000.00
83	1000.00	1000.00	1000.00
84	1000.00	1000.00	



NOTES:

1. COORDINATES OF RISER PIPES MAY VARY IN THE FIELD. AS-BUILT LOCATIONS AND ELEVATIONS WILL BE PROVIDED WITH THE CELL CERTIFICATION REPORT.
2.  SECONDARY COLLECTION POINTS (SCP) ARE DIRECTLY ABOVE TOP OF SECONDARY CLAY. SEE DETAIL D. DWG. 35A.

PLUST ENVIRONMENTAL & INFRASTRUCTURE		☐ B/PK MODIFIED COORDINATES ☐ U/PK ADD TOP OF SECONDARY COLLECTION		FAS	CPD
SIGNATURE _____ DATE _____		REV. DATE _____ DESCRIPTION _____		DPR BY	APP BY
DATE: NOVEMBER 1993		PROJECT NO: 21722 RD 156A/1		AS SHOWN	
DRAWN BY: FAS CHECK BY: FAS REV BY: AME APP BY: CPD		PROJECT: _____ REGIONAL MANAGEMENT UNIT 1			
		SHEET TITLE:		SUMP CONSTRUCTION GRADES CELL 6	
 CWM Chemical Services, Inc. Model City Facility		DRAWING NO		13C	