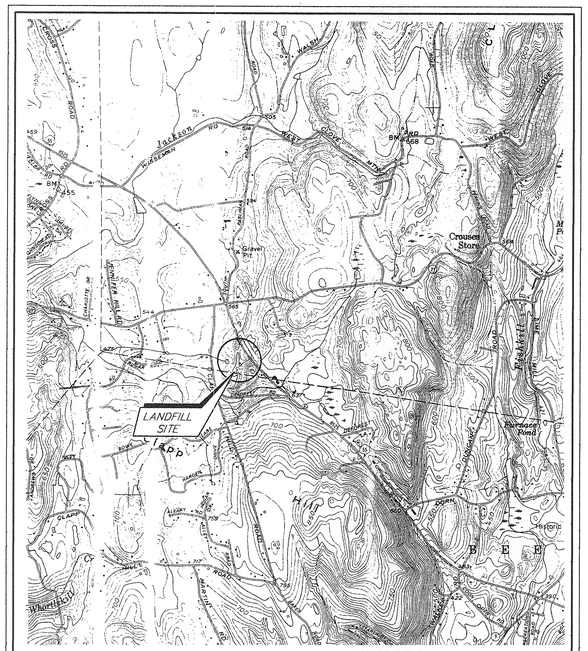
TOWN OF UNION VALE
SANITARY LANDFILL CLOSURE
DUTCHESS COUNTY, NEW YORK

LEGEND

- PROPOSED CONTOURS
- PROPOSED GRASS LINED DRAINAGE DITCH
- 200 — AS-BUILT CONTOURS
- EXISTING NATURAL CONTOURS
- EXISTING SURFACE DRAINAGE
- LIMIT OF WASTE
- EXISTING GROUNDWATER MONITORING WELL
- PROPOSED METHANE GAS VENT
- 4 / G-5 — DETAIL IDENTIFICATION NO. / SHEET NO. WHERE DETAIL IS SHOWN
- ø — EXISTING UTILITY POLE
- PROPERTY LINE (APPROX.)
- FENCE LINE
- LIMIT OF TREES OR SHRUBS
- PROPOSED ACCESS ROAD
- EXISTING ACCESS ROAD
- PROJECT LIMIT LINE
- 4 / G-2 — DETAIL IDENTIFICATION NO. / DETAIL TITLE / SHEET NO. WHERE DETAIL IS CALLED OUT


LANDFILL SITE
Jackson Hill
Crosses Store
Gravel Pit
Swamp
Pond
Barbadoes Pond
Wheatfield
Dutchess Turnpike
Route 9
Route 44
Route 55
Route 82
Route 376
Route 82
Route 376
Route 44
Route 55
Route 9
Route 82
Route 376
Route 44
Route 55
Route 9
Route 82
Route 376
Route 44
Route 55
Route 9

CONSTRUCTION CONTROL POINTS

POINT NO.	COORDINATES	POINT NO.	COORDINATES
MW-1	0 N 0 W	7	10.91 N 241.18 W
MW-2	-2.66 N 264.40 W	8	17.73 N 289.07 W
MW-3	393.51 N 315.69 W	9	81.19 N 378.85 W
MW-4	743.18 N 201.07 W	10	133.18 N 390.65 W
MW-5	224.64 N 146.23 W	11	189.19 N 354.30 W
		12	276.04 N 344.15 W
1	29.15 N -60.57 W	13	364.80 N 312.90 W
2	31.32 N -46.51 W	14	563.80 N 263.27 W
3	22.65 N -22.25 W	15	702.64 N 213.87 W
4	23.15 N 23.97 W	16	784.43 N 142.32 W
5	29.09 N 48.79 W	17	833.44 N 69.67 W
6	24.63 N 161.70 W	18	848.76 N 46.35 W

GRADING NOTES:

1. EXCAVATED WASTE WITHIN SHADED AREA, ANY WASTE EXCAVATED DURING SLOPE REGRADING AND TIE-IN CONSTRUCTION SHALL BE PLACED ON CENTER OF LANDFILL PRIOR TO CAPPING.
2. CLEAR TREES AND VEGETATION AS NECESSARY.
3. NO WASTE IS TO BE PLACED BEYOND LIMIT OF EXISTING WASTE.
4. SILT FENCE SHALL BE INSTALLED AT THE BOTTOM OF SLOPES AROUND THE LIMITS OF CONSTRUCTION.
6. AREA TO REMAIN AS 30' WIDE BUFFER ZONE ALONG WEST SIDE OF ROUTE 55. EXCAVATE AND REMOVE WASTE FROM THIS AREA, BACKFILL WITH SELECTED FILL.

APPROXIMATE LIMIT OF WASTE

APPROXIMATE PROPERTY LINE

LANDS N/F MULLER

LANDS N/F ANDREWS

CONTRACTOR SHALL EXCAVATE AND BENCH WASTE AT LIMIT OF WASTE, AS NECESSARY TO FACILITATE INSTALLATION AND TIE-IN OF COVER SYSTEM AS DEPICTED ON CONTRACT DRAWINGS.

EXISTNG CATCH BASIN AND CULVERTS SHALL BE REMOVED. VOIDS SHALL BE FILLED WITH SELECTED FILL.

CONTRACTOR SHALL RAISE GRADES ABOVE ELEV. 117' AS REQUIRED FOR RELOCATION OF WASTE.

PROTECT ALL UTILITIES DURING RELOCATION OF WASTE

RELOCATE ALL UTILITY POLES (TYP.) TO EAST SIDE OF PROPOSED DRAINAGE CHANNEL WHICH PARALLELS NYS RTE. 17. CONTRACTOR TO COORDINATE THE REMOVAL AND RELOCATION OF UTILITY POLES WITH NYTEL, C.H.G.& E. AND ANY OTHER AFFECTED UTILITIES.

REMOVE EXISTING CHAIN LINK FENCE AND REINSTALL WHERE INDICATED. SUPPLEMENT WITH NEW CHAIN LINK FENCE WHERE REQUIRED. NEW CHAIN LINK FENCE SHALL BE EQUAL TO EXISTING. REFER TO G-3 FOR LOCATION OF NEW FENCING.

GAS VENT 19 G-5

MW-1 MW-2 MW-3 MW-4 MW-5

5H:1V 10H:1V 12.5H:1V 20H:1V 15H:1V 7.5H:1V 17.5H:1V

EXISTING DIRT ROAD

N. Y. S. ROUTE 55

400 W 200 W 0 W

0 N 200 N 400 N 600 N 800 N 1000 N

BENCH MARK
R.R. SPIKE IN POLE
CHG&E 150795
NYT 212
ELEV. = 100.00(ASSUMED)

SURVEY NOTES:

1. BASE MAPPING PREPARED BY CLOUGH, HARBOUR & ASSOCIATES FROM A FIELD SURVEY COMPLETED IN DECEMBER 1989 AND SEPTEMBER 1990.
2. NORTH REFERENCE IS BASED ON A MAGNETIC READING TAKEN DECEMBER 27, 1989.
3. ELEVATIONS, BENCHMARK AND CONTOURS ARE BASED ON AN ASSUMED DATUM.
4. UNDERGROUND UTILITIES ARE SHOWN FROM FIELD LOCATION IF POSSIBLE, OTHERS ARE SHOWN FROM RECORD DATA. THEIR EXACT LOCATION MAY DIFFER FROM THAT AS SHOWN AND OTHERS MAY EXIST.
5. PROPERTY LINES SHOWN ARE APPROXIMATE AND FOR INFORMATION ONLY. PROPERTY LINES ARE SHOWN BY COMPARING INFORMATION TAKEN FROM A MAP ENTITLED "SURVEY MAP PREPARED FOR TOWN OF UNION VALE" DATED MARCH 15, 1989 AND LAST REVISED AUGUST 18, 1989 AS PREPARED BY KEVEN CUNNNINGHAM, L.S. WITH LIMITED EVIDENCE LOCATED IN THE FIELD WHILE CONDUCTING THE TOPOGRAPHIC SURVEY.

PLOT SCALE 1=40 | CAD OPERATOR M. CUEVAS | DATE LAST REVISED 11/7/94 | JOHB FILE NAME LVWASTE1

Revisions:	Drawn By:	App'd. By:	Date:

Designed By:	Date:
C.S.H.	11/94
Drawn By:	Date:
M.C.	11/94
Checked By:	Date:
C.H.F.	11/94

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

STATE OF NEW YORK CARSTEN H. FLUCH 061261 LICENSED PROFESSIONAL ENGINEER

CHA COPYRIGHT © 1994

CLOUGH, HARBOUR & ASSOCIATES
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
III WINNERS CIRCLE - ALBANY, NEW YORK - 12205
P.O. BOX 5269 518-453-4500

CHA Project No. 2230.07

TOWN OF UNION VALE
SANITARY LANDFILL CLOSURE
TOWN OF UNION VALE DUTCHESS COUNTY
STATE OF NEW YORK

LANDFILL CLOSURE PLAN

WASTE GRADING PLAN

SCALE: 1"=40' DATE: NOVEMBER, 1994

Drawing No. G-2

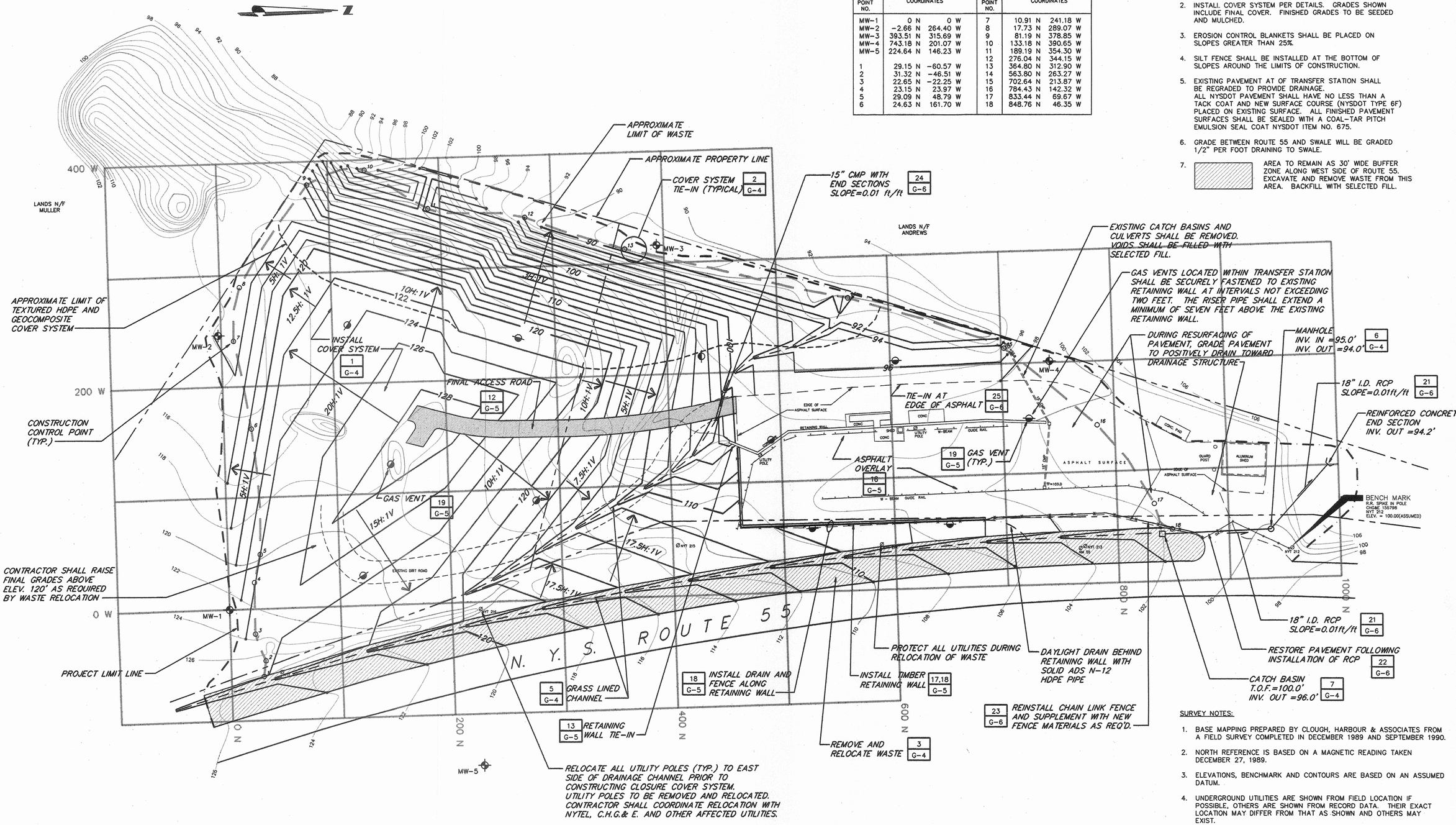
SHEET 2 OF 7

CONSTRUCTION CONTROL POINTS

POINT NO.	COORDINATES	POINT NO.	COORDINATES
MW-1	0 N 0 W	7	10.91 N 241.18 W
MW-2	-2.66 N 264.40 W	8	17.73 N 289.07 W
MW-3	393.51 N 315.69 W	9	81.19 N 378.85 W
MW-4	743.18 N 201.07 W	10	133.18 N 390.65 W
MW-5	224.64 N 146.23 W	11	189.19 N 354.30 W
		12	276.04 N 344.15 W
1	29.15 N -60.57 W	13	364.80 N 312.90 W
2	31.32 N -46.51 W	14	563.80 N 263.27 W
3	22.65 N -22.25 W	15	702.64 N 213.87 W
4	23.15 N 23.97 W	16	784.43 N 142.32 W
5	29.09 N 48.79 W	17	833.44 N 69.67 W
6	24.63 N 161.70 W	18	848.76 N 46.35 W

GRADING NOTES:

1. CLEAR TREES AND VEGETATION WITHIN PROJECT LIMITS AS NECESSARY.
2. INSTALL COVER SYSTEM PER DETAILS. GRADES SHOWN INCLUDE FINAL COVER. FINISHED GRADES TO BE SEEDED AND MULCHED.
3. EROSION CONTROL BLANKETS SHALL BE PLACED ON SLOPES GREATER THAN 25%.
4. SILT FENCE SHALL BE INSTALLED AT THE BOTTOM OF SLOPES AROUND THE LIMITS OF CONSTRUCTION.
5. EXISTING PAVEMENT AT OF TRANSFER STATION SHALL BE REGRADED TO PROVIDE DRAINAGE. ALL NYSDOT PAVEMENT SHALL HAVE NO LESS THAN A TACK COAT AND NEW SURFACE COURSE (NYSDOT TYPE 6F) PLACED ON EXISTING SURFACE. ALL FINISHED PAVEMENT SURFACES SHALL BE SEALED WITH A COAL-TAR PITCH EMULSION SEAL COAT NYSDOT ITEM NO. 675.
6. GRADE BETWEEN ROUTE 55 AND SWALE WILL BE GRADED 1/2" PER FOOT DRAINING TO SWALE.
7. AREA TO REMAIN AS 30' WIDE BUFFER ZONE ALONG WEST SIDE OF ROUTE 55. EXCAVATE AND REMOVE WASTE FROM THIS AREA. BACKFILL WITH SELECTED FILL.



SURVEY NOTES:

1. BASE MAPPING PREPARED BY CLOUGH, HARBOUR & ASSOCIATES FROM A FIELD SURVEY COMPLETED IN DECEMBER 1989 AND SEPTEMBER 1990.
2. NORTH REFERENCE IS BASED ON A MAGNETIC READING TAKEN DECEMBER 27, 1989.
3. ELEVATIONS, BENCHMARK AND CONTOURS ARE BASED ON AN ASSUMED DATUM.
4. UNDERGROUND UTILITIES ARE SHOWN FROM FIELD LOCATION IF POSSIBLE, OTHERS ARE SHOWN FROM RECORD DATA. THEIR EXACT LOCATION MAY DIFFER FROM THAT AS SHOWN AND OTHERS MAY EXIST.
5. PROPERTY LINES SHOWN ARE APPROXIMATE AND FOR INFORMATION ONLY. PROPERTY LINES ARE SHOWN BY COMPARING INFORMATION TAKEN FROM A MAP ENTITLED "SURVEY MAP PREPARED FOR TOWN OF UNION VALE" DATED MARCH 15, 1989 AND LAST REVISED AUGUST 18, 1989 AS PREPARED BY KEVEN CUNNNINGHAM, L.S. WITH LIMITED EVIDENCE LOCATED IN THE FIELD WHILE CONDUCTING THE TOPOGRAPHIC SURVEY.

PLOT SCALE 1=40
CAD OPERATOR M. DURAN
DATE LAST REVISED 11/07/94
MTD SQUARE 3MIL GD 8'-1.76" FOR NORTH COORD. (E=264113.2236)
DWG FILE NAME LMFIG3

Revisions:	Drawn By.	App'd. By:	Date:

Designed By:	Date: C.S.H. 11/94
Drawn By:	Date: M.C. 11/94
Checked By:	Date: C.H.F. 11/94

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

STATE OF NEW YORK — CARSTEN H. FLORIE — 061284 — LICENSED PROFESSIONAL ENGINEER

CHA COPYRIGHT © 1994
CLOUGH, HARBOUR & ASSOCIATES
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
III WINNERS CIRCLE - ALBANY, NEW YORK - 12205
P.O. BOX 5269 518-453-4500
CHA Project No. 2230.07

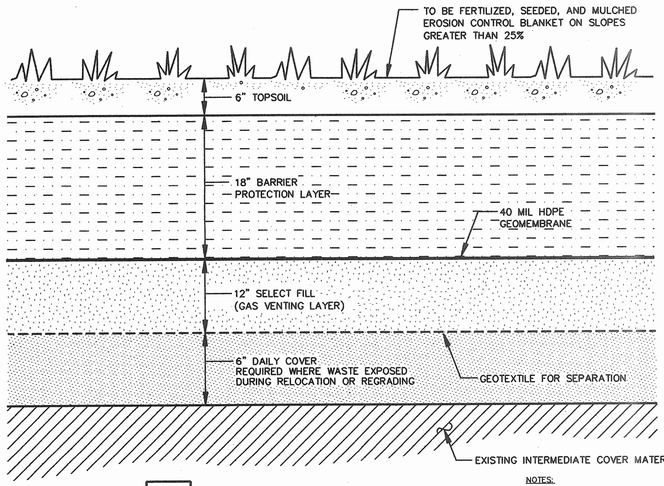
TOWN OF UNION VALE
SANITARY LANDFILL CLOSURE
TOWN OF UNION VALE DUTCHESS COUNTY
STATE OF NEW YORK

LANDFILL CLOSURE PLAN

FINAL CLOSURE PLAN

Drawing No. **G-3**

SCALE: 1"=40' | DATE: NOVEMBER, 1994 | SHEET 3 OF 7

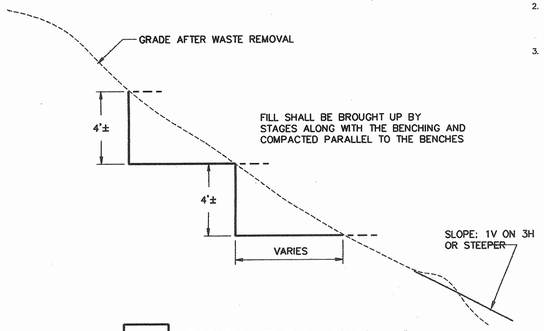


1 G-3 **TYPICAL SYNTHETIC CLOSURE COVER SYSTEM DETAIL**

NO SCALE

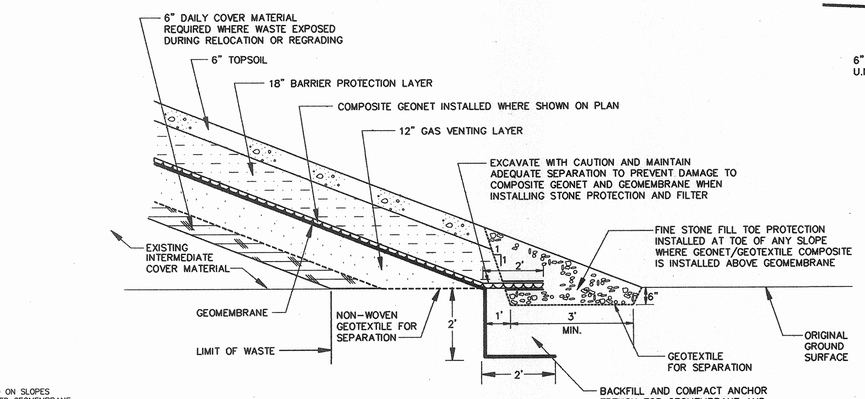
NOTES:

1. TEXTURED GEOMEMBRANE SHALL BE INSTALLED ON SLOPES EQUAL TO OR GREATER THAN 4H:1V. TEXTURED GEOMEMBRANE SHALL EXTEND TO A MINIMUM OF 25 FEET BEYOND BREAK IN SLOPE. SEAM BETWEEN SMOOTH AND TEXTURED MATERIAL SHALL BE LOCATED AT THIS POINT
2. GEONET/GEOTEXTILE COMPOSITE (GEOTEXTILE ON BOTH SIDES) SHALL BE INSTALLED ON SLOPES EQUAL TO OR GREATER THAN 4H:1V. COMPOSITE SHALL EXTEND TO A MINIMUM OF 25 FEET BEYOND BREAK IN SLOPE.
3. MINIMUM SLOPE OF CLOSURE COVER SYSTEM SHALL BE 25H:1V (i.e., 4%); MAXIMUM SLOPE OF CLOSURE COVER SYSTEM SHALL BE 3H:1V (i.e., 33%).



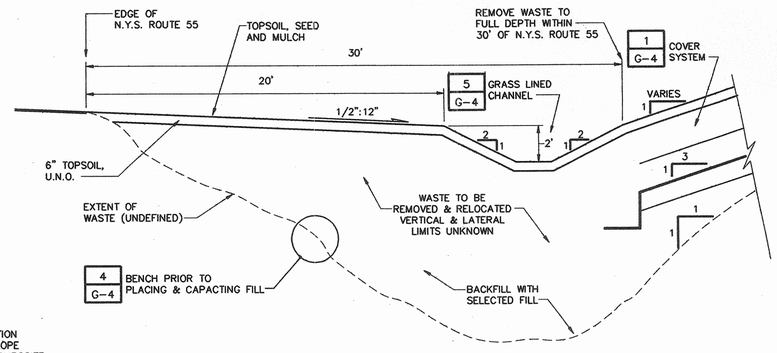
4 G-4 **TYPICAL EARTH BENCHING**

NO SCALE



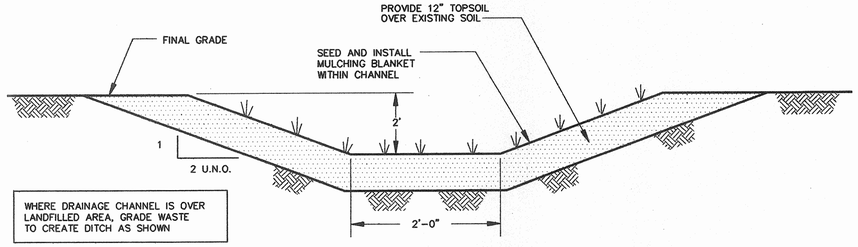
2 G-3 **COVER SYSTEM TIE-IN TO SOIL**

NO SCALE



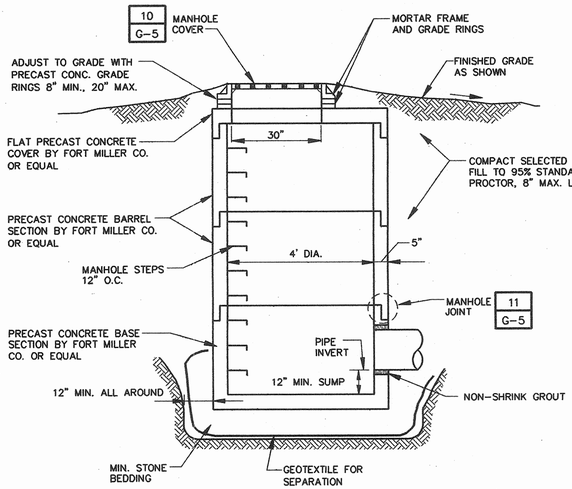
3 G-3 **WASTE REMOVAL & GRADING ON WEST SIDE ON N.Y.S. ROUTE 55**

NO SCALE



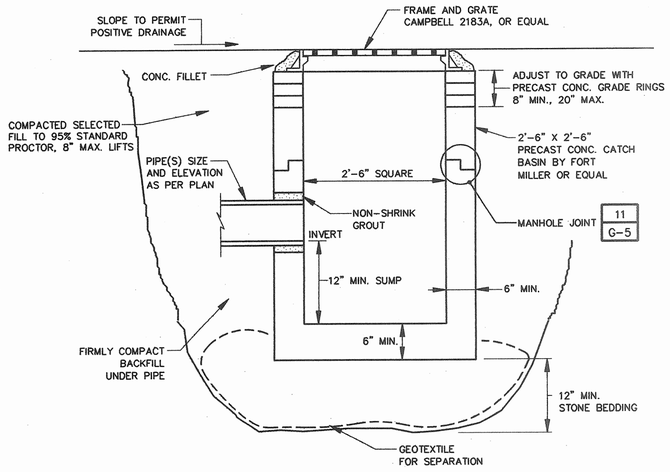
5 G-3 **TYPICAL GRASS LINED DRAINAGE CHANNEL**

NO SCALE



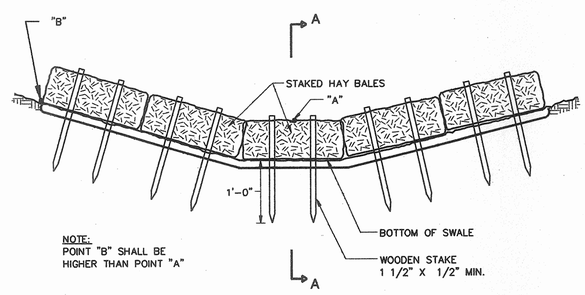
6 G-3 **STORM DRAINAGE STRUCTURES**

NO SCALE



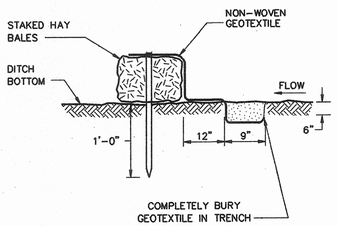
7 G-4 **CATCH BASIN DETAIL**

NO SCALE



NOTE: POINT "B" SHALL BE HIGHER THAN POINT "A"

ELEVATION



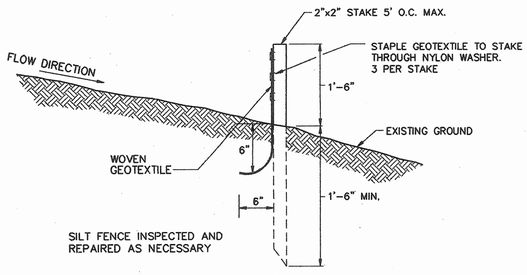
SECTION "A-A"

NOTES:

1. CONTRACTOR SHALL PROTECT BARRIER LAYER FROM DAMAGE WHEN STAKING HAY BALES.
2. CONTRACTOR SHALL REPAIR AS NECESSARY HAY BALE SILTATION CONTROLS.
3. INSTALL AT 100' INTERVALS IN GRASS LINED CHANNELS.

8 G-2 **HAY BALE SILTATION CONTROL**

NO SCALE



9 – **SILTATION FENCE**

NO SCALE

PLOT DATE: 3/4 | CAD OPERATOR: A. BORDAS | DATE LAST REVISED: 11/94/94 | DWG FILE NAME: USER11

Revisions:	Drawn By:	App'd. By:	Date:

	Date:
C.S.H.	11/94
Drawn By:	Date:
M.C.	11/94
Checked By:	Date:
C.H.F.	11/94

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

CERTIFIED STATE OF NEW YORK CARSTEN H. FLORIE 061261 LICENSED PROFESSIONAL ENGINEER

CHA COPYRIGHT © 1994
CLOUGH, HARBOUR & ASSOCIATES
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
III WINNERS CIRCLE – ALBANY, NEW YORK – 12205
P.O. BOX 5269 518-453-4500
CHA Project No. 2230.07

Designed By:
TOWN OF UNION VALE
SANITARY LANDFILL CLOSURE
TOWN OF UNION VALE DUTCHESS COUNTY
STATE OF NEW YORK

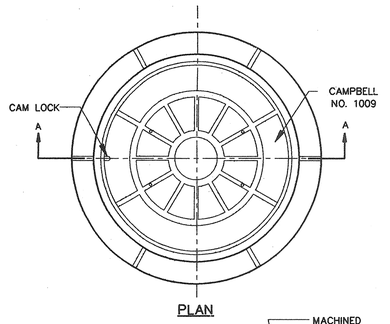
LANDFILL CLOSURE PLAN

GENERAL DETAILS

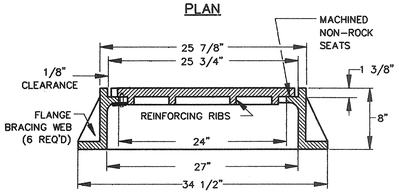
SCALE: AS SHOWN | DATE: NOVEMBER 1994

Drawing No. **G-4**

SHEET 4 OF 7

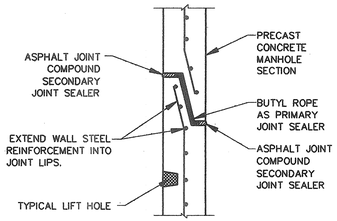


PLAN

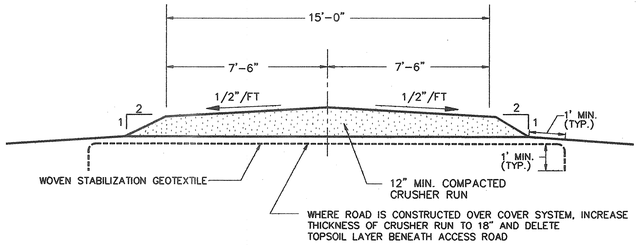


SECTION

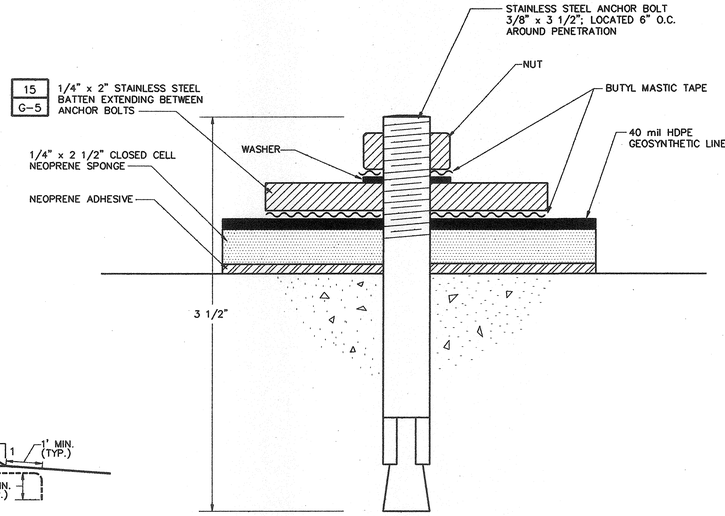
10 / G-4 MANHOLE COVER DETAIL
NO SCALE



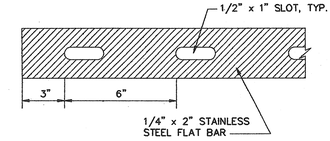
11 / – MANHOLE JOINT DETAIL
NO SCALE



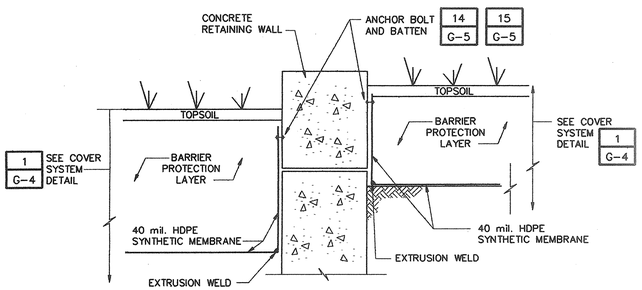
12 / G-3 ACCESS ROAD (TYPICAL)
NO SCALE



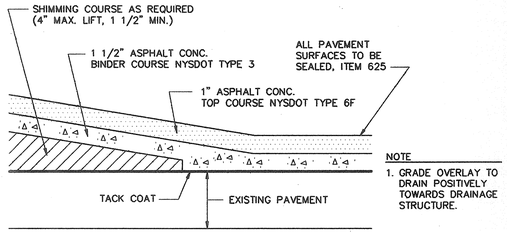
14 / G-5 ANCHOR BOLT DETAIL
NO SCALE



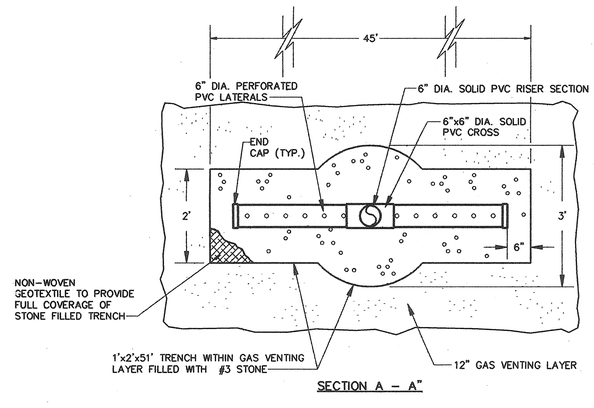
15 / G-5 STAINLESS STEEL BATTEN
NO SCALE



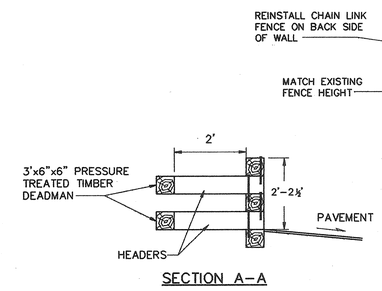
13 / G-3 RETAINING WALL TIE-IN
NO SCALE



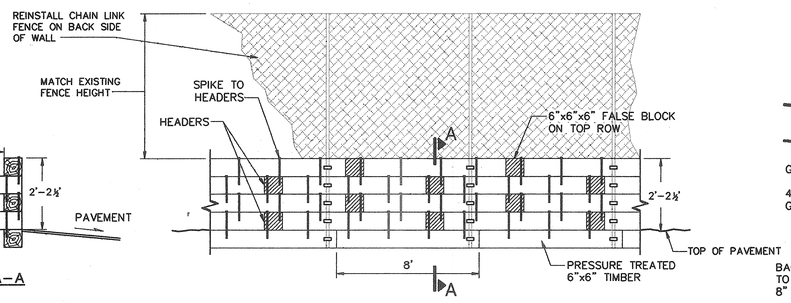
16 / G-3 ASPHALT PAVEMENT OVERLAY
NO SCALE



SECTION A – A"

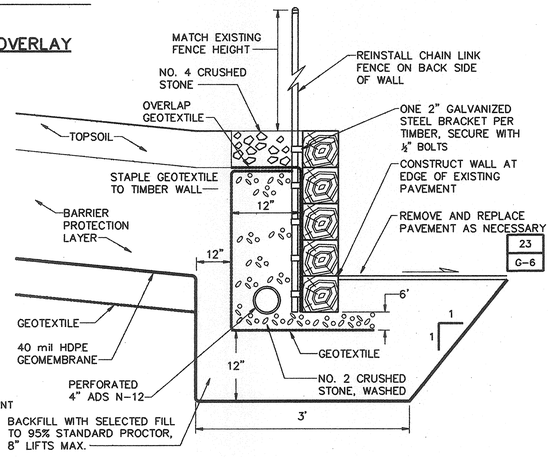


SECTION A–A

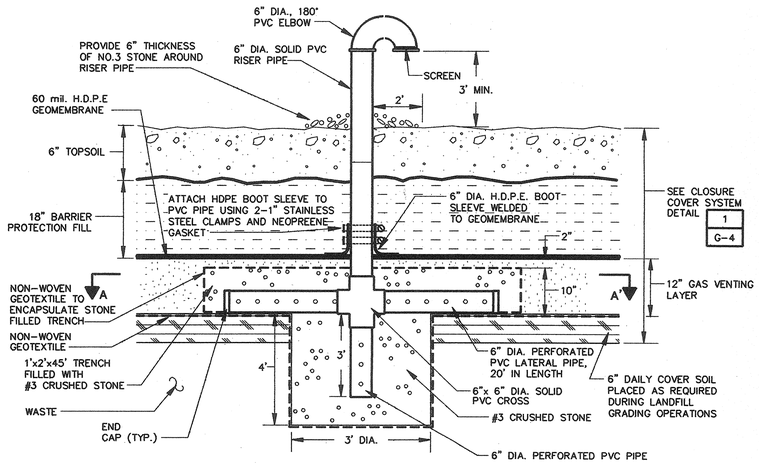


NOTE: ALL TIMBER TO BE PRESSURE TREATED.

17 / G-3 TIMBER RETAINING WALL ELEVATION
NO SCALE



18 / G-3 TIMBER RETAINING WALL SECTION
NO SCALE



19 / G-5 GAS VENTING DETAIL
NO SCALE

PLOT SCALE = 1=1
CAD OPERATOR = M. CUSANO
DATE LAST REVISED = 11/21/94
DWG FILE NAME = 07G572

Revisions:	Drawn By:	App'd. By:	Date:

Designed By:	C.S.H.	Date: 11/94
Drawn By:	M.C.	Date: 11/94
Checked By:	C.H.F.	Date: 11/94

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

STATE OF NEW YORK — CARSTEN H. FLUGE — LICENSED PROFESSIONAL ENGINEER — 061261

CHA COPYRIGHT © 1994
CLOUGH, HARBOUR & ASSOCIATES
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
III WINNERS CIRCLE – ALBANY, NEW YORK – 12205
P.O. BOX 5269 518-453-4500
CHA Project No. 2230.07

TOWN OF UNION VALE
SANITARY LANDFILL CLOSURE
TOWN OF UNION VALE DUTCHESS COUNTY
STATE OF NEW YORK

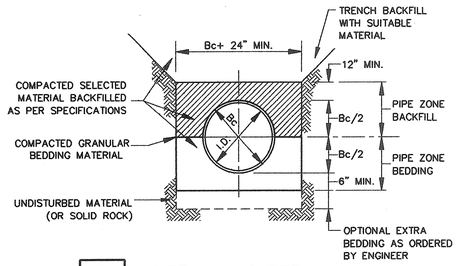
LANDFILL CLOSURE PLAN

GENERAL DETAILS

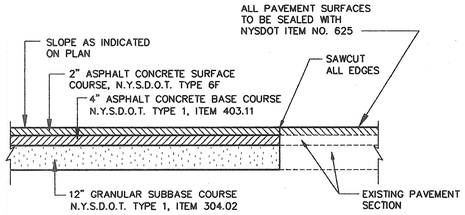
SCALE: AS SHOWN | DATE: NOVEMBER 1994

Drawing No. G-5

SHEET 5 OF 7



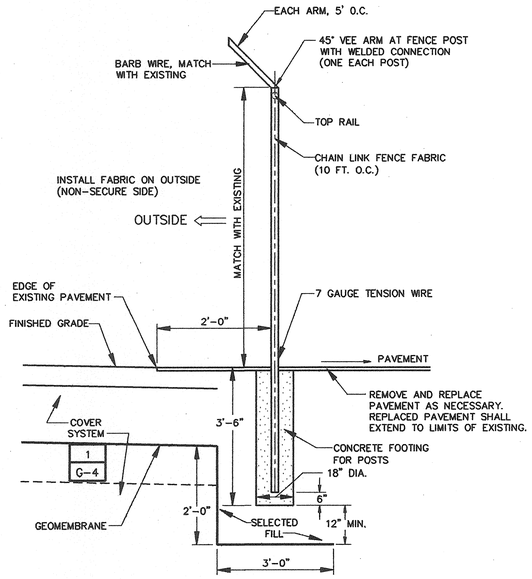
21 / G-3 PIPE LAYING DETAIL
NO SCALE



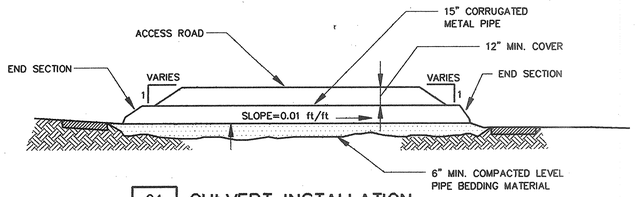
22 / G-3 ASPHALT CONCRETE PAVEMENT DETAIL
NO SCALE

NOTES:

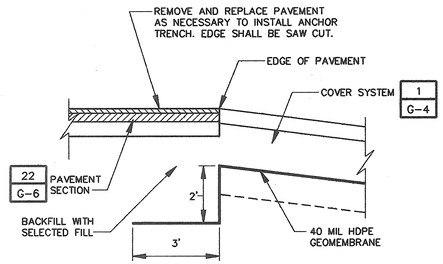
1. SAWCUT PAVEMENT AS REQUIRED FOR INSTALLATION OF FENCING, COVER SYSTEM TIE-INS, CULVERTS, ETC.
2. REPLACE PAVEMENT REMOVED. PAVEMENT SHALL BE PLACED IN ACCORDANCE WITH N.Y.S.D.O.T. "STANDARD SPECIFICATIONS".
3. ALL EXISTING PAVEMENT SHOULD BE CLEANED, TACK COATED, AND RECIEVE 1" SURFACE COURSE OF ASPHALT CONCRETE. SEAL SURFACE AS INDICATED.



23 / G-3 CHAIN LINK FENCE POST DETAIL
NO SCALE



24 / G-3 CULVERT INSTALLATION BENEATH ACCESS ROAD
NO SCALE



25 / G-3 ANCHOR TRENCH/PAVEMENT TIE-IN TRANSITION
NO SCALE

Revisions:	Drawn By:	App'd. By:	Date:

Designed By: C.S.H.	Date: 11/94
Drawn By: M.C.	Date: 11/94
Checked By: C.H.F.	Date: 11/94

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

STATE OF NEW YORK · CARSTEN H. FLOEGEL · 061261 · LICENSED PROFESSIONAL ENGINEER

CHA
COPYRIGHT © 1994

CLOUGH, HARBOUR & ASSOCIATES
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
III WINNERS CIRCLE – ALBANY, NEW YORK – 12205
P.O. BOX 5269 518-453-4500

CHA Project No. 2230.07

TOWN OF UNION VALE
SANITARY LANDFILL CLOSURE
TOWN OF UNION VALE DUTCHESS COUNTY
STATE OF NEW YORK

LANDFILL CLOSURE PLAN

GENERAL DETAILS

SCALE: AS SHOWN | DATE: NOVEMBER 1994

Drawing No. G-6

SHEET 6 OF 7