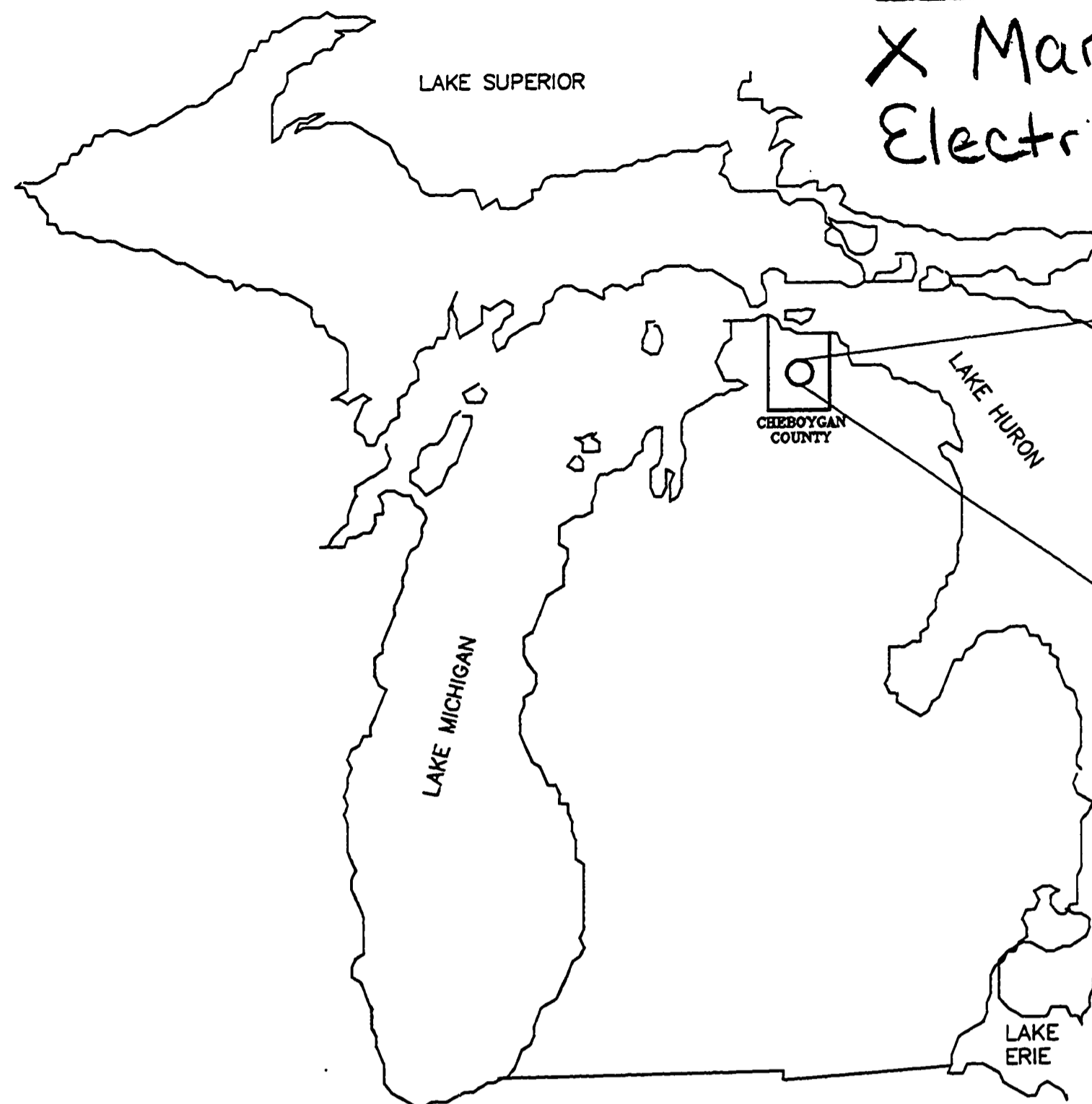
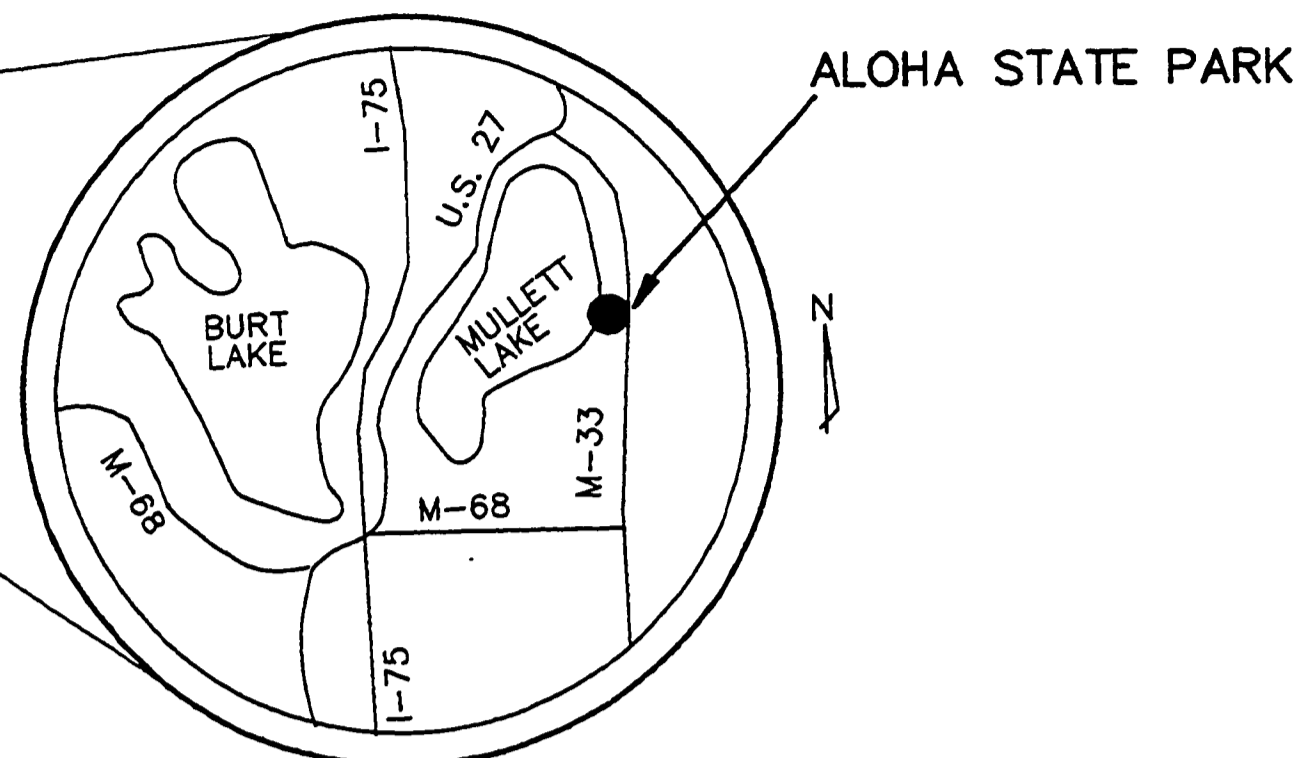


NOTE:
 X Marks 4x4 Post w/ Warning "Electric Cable Buried Here."
 Electric Cable is 12-3 w/ Romex type Cable.



STATE LOCATION MAP



SITE LOCATION MAP
NO SCALE



ESTIMATED QUANTITIES INDICATED ON THE PLANS ARE INCLUDED FOR GENERAL REFERENCE ONLY. THE CONTRACTOR SHALL USE HIS INDEPENDENT JUDGEMENT AS TO THE ACCURACY OF THE ESTIMATED QUANTITIES STATED ON THE PLANS. THE CONTRACTOR SHALL NOTE THAT NO ADJUSTMENTS TO THE LUMP SUM PRICE WILL BE MADE FOR AS CONSTRUCTED QUANTITIES WHICH ARE IN EXCESS OF THE ESTIMATED QUANTITIES INDICATED ON THE PLANS.

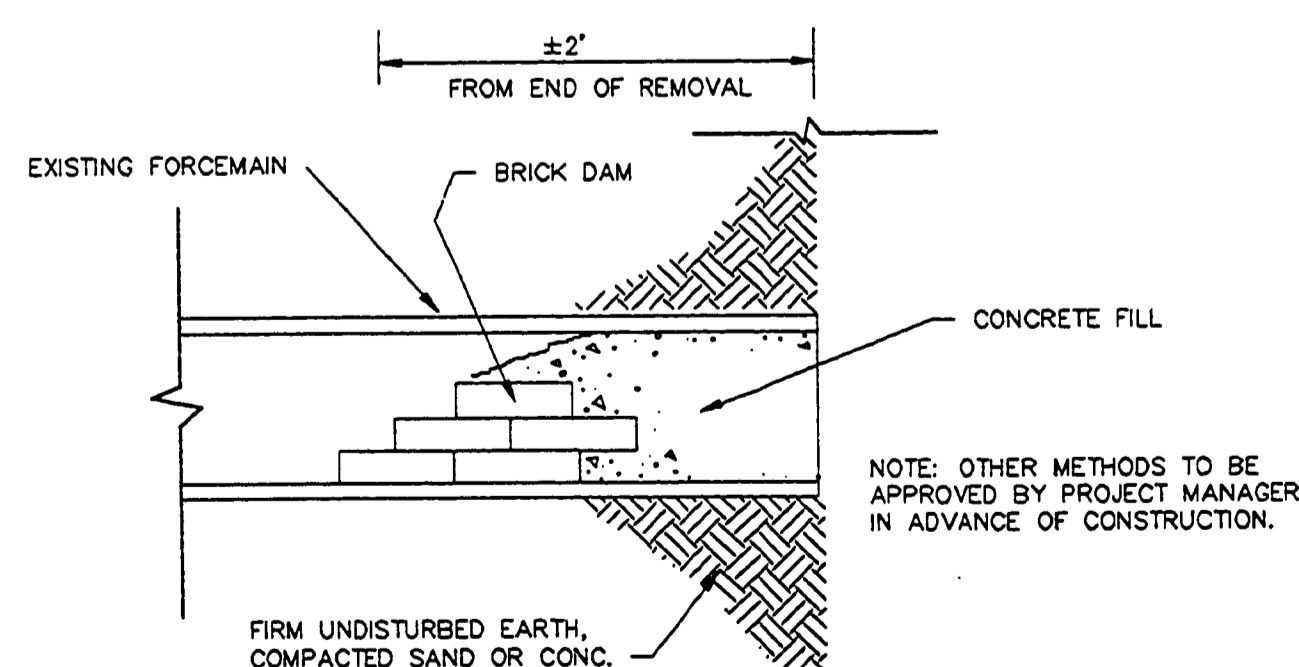
DEWATERING NOTES:

1. THE EXISTING WASTEWATER LAGOONS SHALL BE PUMPED DOWN AND DEWATERED INTO THE NEW AERATION TANK BY OTHERS ("WASTEWATER TREATMENT IMPROVEMENTS" CONTRACTOR). ABSOLUTELY NO SLUDGE WILL BE TRANSFERRED THROUGH THE PARK'S PUMP STATIONS. DEWATERING IS NOT SCHEDULED TO PROCEED UNTIL THE NEW STORAGE LAGOON AND AERATION TANK HAVE BEEN COMPLETED AND APPROVED BY THE PROJECT MANAGER. THE "LAGOON ABANDONMENT" CONTRACTOR IS RESPONSIBLE FOR COORDINATION BETWEEN THE PROJECT MANAGER AND THE "WASTEWATER TREATMENT IMPROVEMENTS" CONTRACTOR.
2. PUMPING OF ANY REMAINING WATER WITHIN THE EXISTING LAGOONS SHALL PRECLUDE REMOVAL OF THE ACCUMULATED SLUDGE AND IS THE RESPONSIBILITY OF THE "LAGOON ABANDONMENT" CONTRACTOR. IF DECANTING OF THE WASTEWATER IS NOT PRACTICAL OR FEASIBLE, THE WASTEWATER SHALL BE REMOVED WITH THE SLUDGE OFF-SITE OR TAKEN TO A WASTEWATER TREATMENT FACILITY FOR PROCESSING.

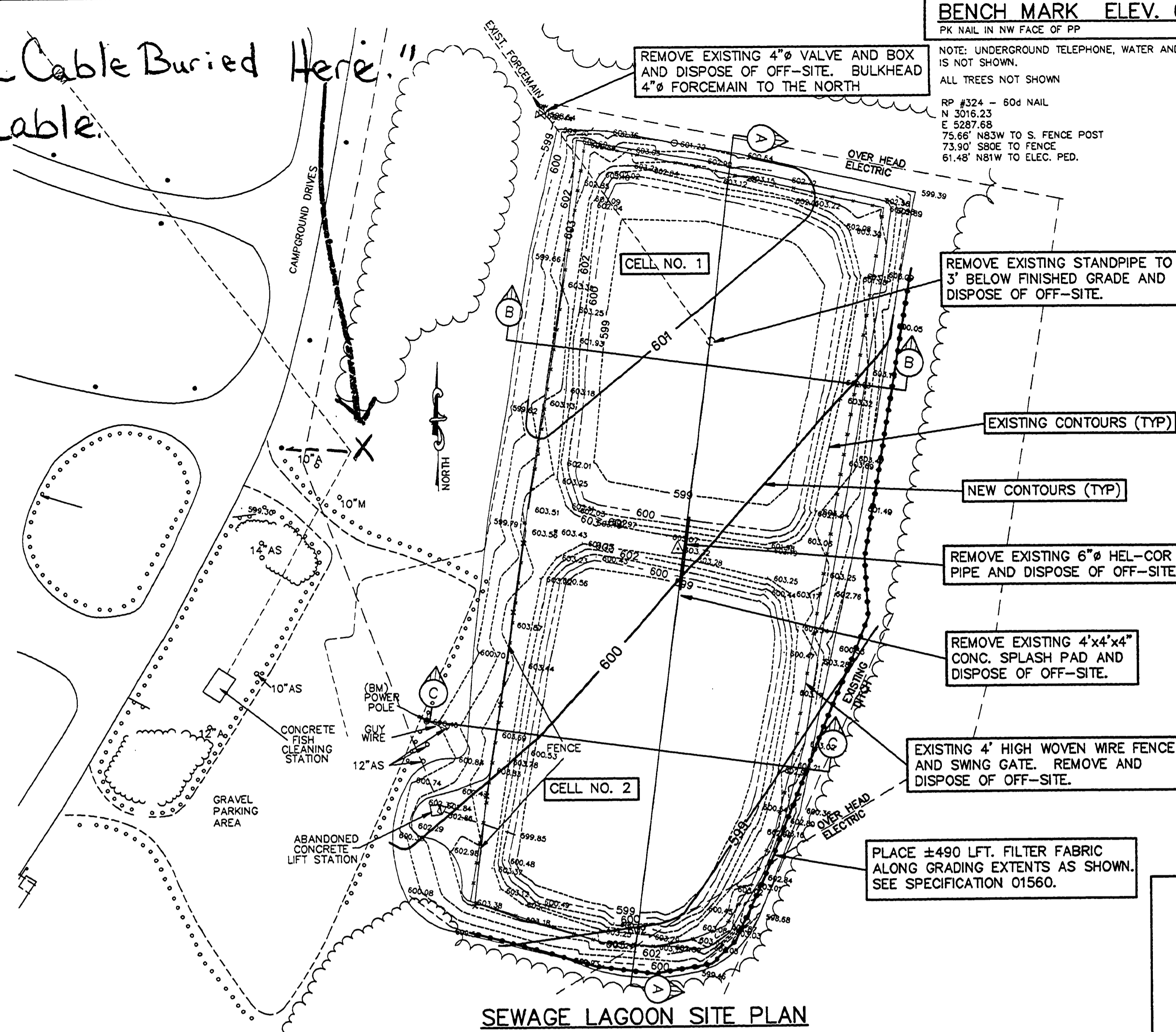
GENERAL CONSTRUCTION NOTES:

1. USE TWO BENCH MARKS FOR VERIFICATION OF GRADE ON ALL CONSTRUCTION. THE CONTRACTOR SHALL ESTABLISH A SECOND BENCHMARK.
2. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH STATE PARK STAFF AND PROJECT MANAGER FOR ACCESS TO SITE AND UTILITIES IN THE IMMEDIATE AREA.
3. THE CONTRACTOR SHALL MAINTAIN THE EXISTING GRAVEL DRIVE AND PARKING AREA. THE CONTRACTOR IS RESPONSIBLE TO FULLY RESTORE THE DRIVE AND PARKING AREA TO EXISTING OR BETTER CONDITIONS AFTER CONSTRUCTION.
4. THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES DURING CONSTRUCTION.
5. SLUDGE REMOVAL SHALL BE ACHIEVED THROUGH THE USE OF A PUMP. ADDITIONAL EFFORT SHALL BE MADE TO BACK-BLADE SLUDGE IN ORDER TO COLLECT ALL SOLIDS BY MEANS OF THE PUMP.
6. ALL RESIDUAL SLUDGE, PVC LINER, TOP 3" OF THE CLAY IN THE RECESSED AREA IN CELL 1, MISCELLANEOUS PIPING, AND CONCRETE SPLASH PADS BELOW THE EXISTING LAGOON AND BERMS OR AS SHOWN ON THE DRAWINGS SHALL BE REMOVED AND PROPERLY DISPOSED OF AT A LICENSED TYPE II SOLID WASTE LANDFILL IN ACCORDANCE WITH MDNR REQUIREMENTS.
7. THE PROJECT MANAGER SHALL INSPECT AND PROVIDE WRITTEN APPROVAL OF THE REMOVAL OF WASTEWATER, SLUDGE, LINER, CONCRETE PAD AND MISCELLANEOUS PIPING BEFORE THE CONTRACTOR IS ALLOWED TO BEGIN BACKFILLING, GENERAL ROUGH GRADING AND CLEAN-UP OPERATIONS.
8. AFTER COMPLETION AND APPROVAL OF SLUDGE, LINER, CONCRETE PAD AND PIPE WORK REMOVAL, ALL DISTURBED AREAS SHALL BE GRADED, TOPSOILED, SEEDED, FERTILIZED AND MULCHED PER SECTION 02936 OF THE SPECIFICATIONS.
9. ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 90% MAXIMUM DENSITY.
10. ALOHA STATE PARK'S CAMPGROUND ROADS HAVE BEEN NEWLY CONSTRUCTED. ALL HEAVY MACHINERY SHALL REMAIN OFF THESE ROADS. ACCESS TO THE WASTEWATER LAGOONS CLOSURE AREA SHALL BE PARTIALLY ALONG THE ABANDONED DETROIT AND MACKINAC RAILROAD GRADE WITH THE REMAINING DISTANCE OFF THE CAMPGROUND DRIVES OR AN ALTERNATIVE ROUTE APPROVED BY THE PROJECT MANAGER.

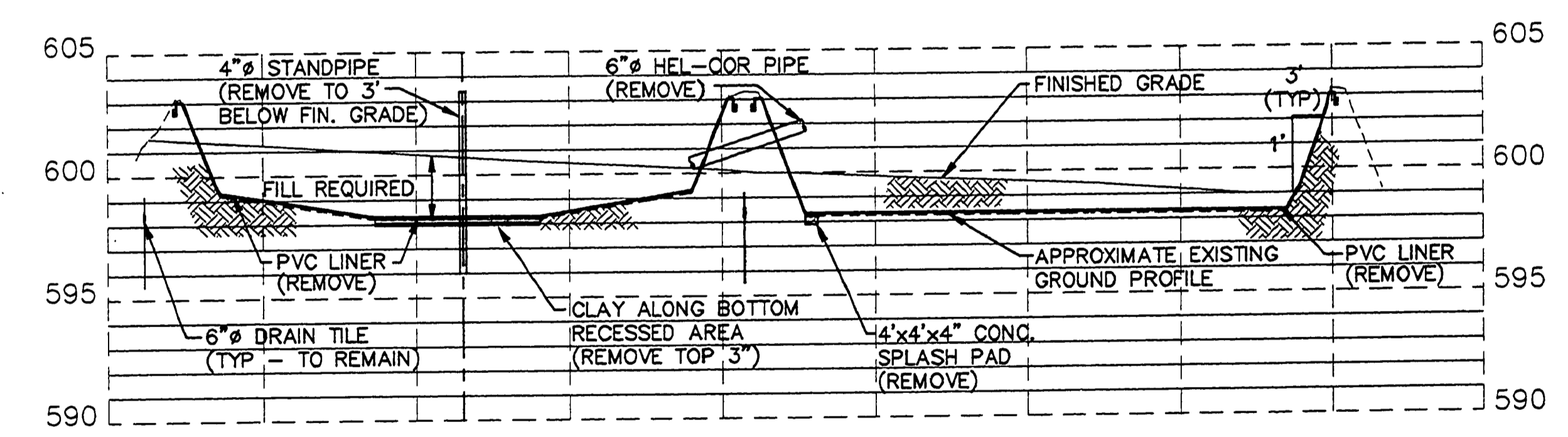
C. Scheener Construction
11/23/94



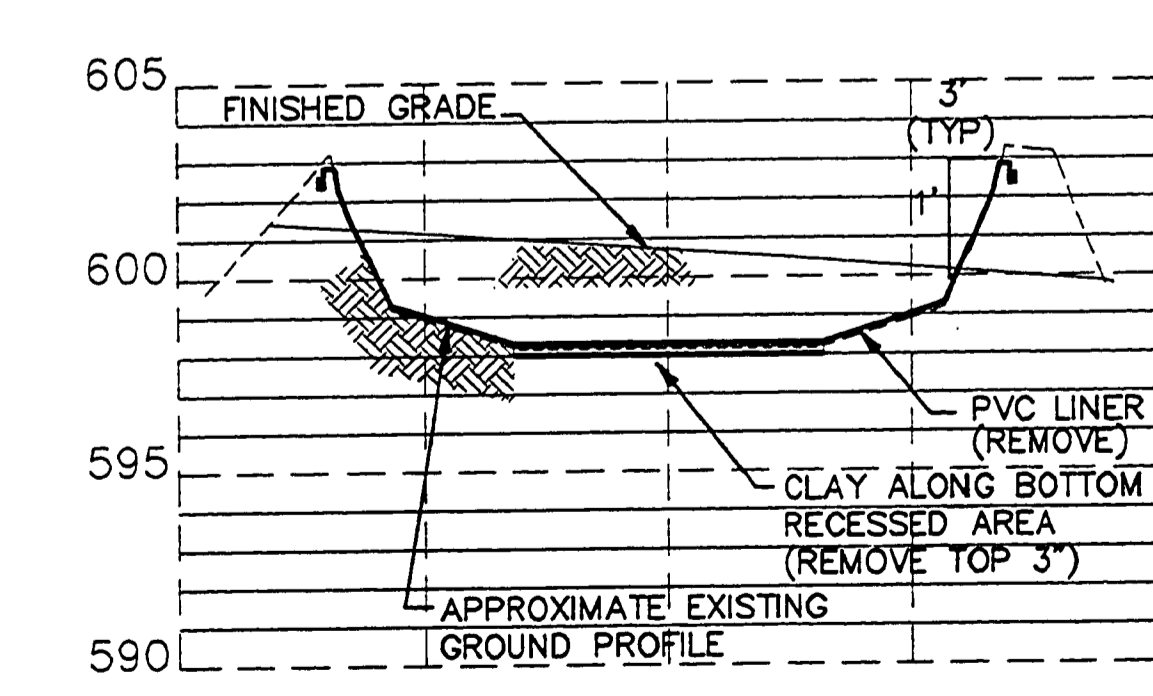
BULKHEAD DETAIL FOR FORCEMAIN
NO SCALE



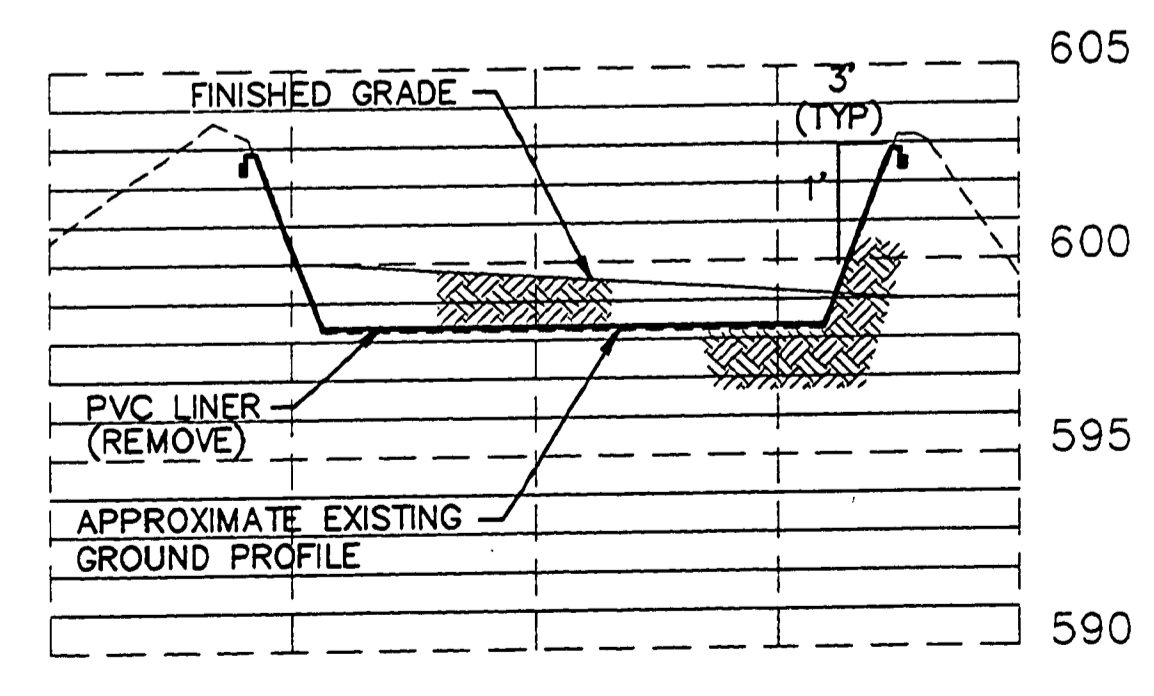
SEWAGE LAGOON SITE PLAN
SCALE: 1"=40'



SECTION A-A



SECTION B-B



SECTION C-C

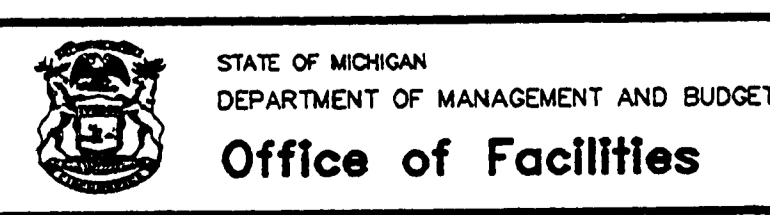
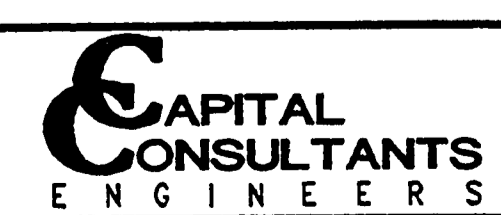
SEWAGE LAGOON SECTIONS
SCALE: 1"=40' HORIZONTAL
1"=5' VERTICAL

Heartland
 Professional Construction Services, Inc.
 1800 Michigan National Tower • Lansing, Michigan 48933 • 517-482-6100

STATE OF MICHIGAN
 DEPARTMENT OF NATURAL RESOURCES
 APPROVED BY: Robert Wolcott, Jr. 11/16/94
 DATE: 11/16/94
 CHIEF, PARKS & RECREATION DIVISION

AREA 1C - ALOHA STATE PARK - LAGOON ABANDONMENT

DRN BY: PMR	IDENTIFICATION NO.	ISSUED FOR	DATE	REVISED PER DNR COMMENTS
DES. BY: PMR	PROJECT - ALOHA	PRELIMINARY <input checked="" type="checkbox"/>	5-26-94	
QCD BY: GDA	STATE ACCOUNT	CONSTRUCTION <input checked="" type="checkbox"/>	6-29-94	
APP'D BY: GDA	607-75-2450-400	FINAL RECORD <input type="checkbox"/>		



QUALITY OF LIFE RECREATION BOND
 MICHIGAN DEPARTMENT OF NATURAL RESOURCES
 PARKS DIVISION - STATE ACCT. NO. 607-75-2450-400

ALOHA STATE PARK
 WASTEWATER LAGOON ABANDONMENT
 AND CLOSURE

SCALE: 1"=40'
 PROJ. NO.: 90134
 SHEET 1 OF 1

L-117