Public Notice

U S Army Corps of Engineers
Huntington District

In reply refer to Public Notice No.	Issuance Date:
LRH-2006-535-GMR	**August 21, 2007**
Stream:	Closing Date:
Buck Creek and Beaver Creek	**September 21, 2007**

Please address all comments and inquiries to:
U.S. Army Corps of Engineers, Huntington District
ATTN: CELRH-OR-F Public Notice No. (*reference above*)
502 Eighth Street
Huntington, West Virginia 25701-2070 Phone: (304) 399-5210

PUBLIC NOTICE: The purpose of this public notice is to inform you of a proposal for work in which you might be interested. It is also to solicit your comments and information to better enable us to make a reasonable decision on factors affecting the public interest. We hope you will participate in this process.

REGULATORY PROGRAM: Since its early history, the U.S. Army Corps of Engineers (Corps) has played an important role in the development of the nation's water resources. Originally, this involved construction of harbor fortifications and coastal defenses. Later duties included the improvement of waterways to provide avenues of commerce. An important part of our mission today is the protection of the nation's waterways through the administration of the Corps Regulatory Program.

SECTION 10: The Corps is directed by Congress under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403) to regulate all work or structures in or affecting the course, condition or capacity of navigable waters of the United States (U.S.). The intent of this law is to protect the navigable capacity of waters important to interstate commerce.

SECTION 404: The Corps is directed by Congress under Section 404 of the Clean Water Act (33 USC 1344) to regulate the discharge of dredged and fill material into all waters of the United States, including wetlands. The intent of the law is to protect the nation's waters from the indiscriminate discharge of material capable of causing pollution and to restore and maintain their chemical, physical and biological integrity.

TO WHOM IT MAY CONCERN: The following application has been submitted for a Department of the Army Permit under the provisions of Section 404 of the Clean Water Act. This notice serves as the Corps of Engineers' request to the Ohio Environmental Protection Agency to act on Section 401 Water Quality Certification for the following application.

APPLICANT: Springfield Conservancy District
515 N. Fountain Avenue
Springfield, Ohio 45504

LOCATION: The proposed project is located on an approximately 4.5 mile reach of Buck Creek beginning about 2.5 miles downstream of the Clarence J. Brown Reservoir Dam and ending just above its confluence with Mad River, and on Beaver Creek just above its confluence with Buck Creek, in Springfield, Clark County, Ohio. Latitude 39° 55' 26", Longitude 83° 48' 32".

DESCRIPTION OF PROPOSED WORK: The applicant proposes to place fill material in waters of the United States associated with the modification of a series of 4 low head dams, installation of fourteen grade control structures, and construction of terraced bank seating. The applicant's stated purpose is the improvement of safety, navigability, recreational characteristics, and in-stream habitat. Low head dam 1 is located on Beaver Creek just above its confluence with Buck Creek. Low head dam 2 is located at Municipal Stadium, 1101 Mitchell Boulevard. Low head dam 3 is located at the Art Museum, 107 Cliff Park Road. Low head dam 4 is located in Snyder Park, on Snyder Park Road. The applicant proposes to place an estimated total of 1,750 cubic yards of 4' – 6' diameter native stone boulders and 150 cubic yards of concrete grout within Buck Creek for the construction of the grade control structures. Boulders would be anchored to the banks and extend across the entire channel. The applicant proposes to place an estimated 210 cubic yards of native stone boulders at various locations to create or enhance riffles throughout the project reach. Approximately 1,200 cubic yards of 3' – 5' diameter native stone boulders would be used to construct terraced bank seating within Buck Creek. An estimated 330 cubic yards of native stone boulders and 50 cubic yards of grout would be placed within Beaver Creek for the construction of two grade control structures and a dam by-pass structure. About 70 cubic yards of native cobble, gravel, and imported clean fill would be used to construct temporary coffer dams at each proposed grade control structure during construction activities. Plans of the proposal are attached to this notice.

WATER QUALITY CERTIFICATION: A Section 401 Water Quality Certification is required for this project. It is the applicant's responsibility to obtain certification from the Ohio Environmental Protection Agency.

HISTORIC & CULTURAL RESOURCES: The National Register of Historic Places has been consulted and it has been determined there are no properties currently listed on the register that are in the area affected by the project. A copy of this public notice will be furnished to the State Historic Preservation Office for their review. Comments concerning archaeological sensitivity of the project area should be based on collected data.

THREATENED & ENDANGERED SPECIES: The project is located within the known or historic range of the following candidate, threatened, or endangered species:

Indiana bat (E)
Eastern prairie fringed orchid (T)
Eastern massasauga (C)

The Huntington District has consulted the most recently available information and based on this information, the proposed project is not likely to adversely affect the continued existence of any endangered species or threatened species, or result in the destruction or adverse modification of habitat of such species which has been determined to be critical. This public notice serves as a request to the USFWS for any additional information they may have on whether any listed or proposed to be listed endangered or threatened species may be present in the area which would be affected by the activity, pursuant to Section 7(c) of the Endangered Species Act of 1972 (as amended).

PUBLIC INTEREST REVIEW AND COMMENT: Any person who has an interest that may be adversely affected by the issuance of a permit may request a public hearing. The request must be submitted in writing to the District Engineer on or before the expiration date of this notice and must clearly set forth the interest which may be adversely affected and the manner in which the interest may be adversely affected by the activity. This application will be reviewed in accordance with 33 CFR 320-331, the Regulatory Program of the U. S. Army Corps of Engineers (USACE), and other pertinent laws, regulations, and executive orders. Our evaluation will also follow the guidelines published by the U. S. Environmental Protection Agency pursuant to Section 404(b) (1) of the CWA. Interested parties are invited to state any objections they may have to the proposed work. The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit that reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors that may be relevant to the proposal will be considered including the cumulative effects thereof; of those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people. Written statements on these factors received in this office on or before the expiration date of this public notice will become a part of the record and will be considered in the final determination. A permit will be granted unless its issuance is found to be contrary to the public interest.

SOLICITATION OF COMMENTS: The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. For accuracy and completeness of the administrative record, all data in support of or in opposition to the proposed work should be submitted in writing setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment

and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

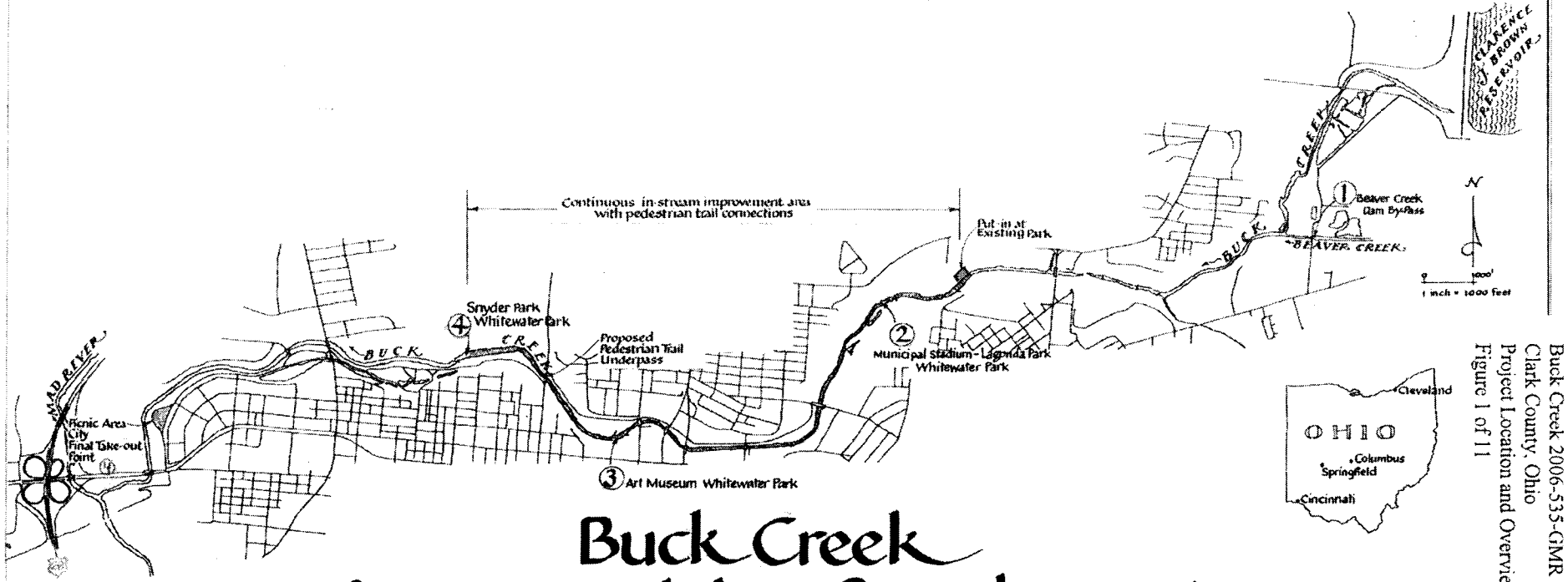
CLOSE OF COMMENT PERIOD: All comments pertaining to this Public Notice must reach this office on or before the close of the comment period listed on page one of this Public Notice. If no comments are received by that date, it will be considered that there are no objections. Comments and requests for additional information should be submitted to:

Ms. Denise Marmer, Project Manager
U. S. Army Corps of Engineers, Huntington District
ATTN: CELRH-OR-FN Public Notice No. LRH-2007-535-GMR
502 Eighth Street
Huntington, West Virginia 25701-2070

Please note, the names and addresses of those who submit comments in response to this public notice become part of our administrative record and, as such, are available to the public under provisions of the Freedom of Information Act. Thank you for your interest in our nation's water resources. If you have any questions concerning this public notice, please contact Ms. Denise Marmer of the North Regulatory Section, Cincinnati Regulatory Field Office, at 513-825-4518.

Ginger Mullins
Chief, Regulatory Branch

(O) (L)



Buck Creek
Safety, Navigability, & Whitewater Improvements

Springfield, Ohio

APRIL 2005

PREPARED FOR: SPRINGFIELD CONSERVANCY DISTRICT
515 North Fountain Avenue
Springfield, Ohio 45504

JOHN LOFTIS
515 Dover Road
Springfield, Ohio 45504
(937) 408-5849

PREPARED BY: RECREATION ENGINEERING & PLANNING
485 Arapahoe Avenue
Boulder, Colorado 80302
(303) 545-5883

SALIDA FIELD OFFICE:
332 ½ W. Sackett Avenue
Salida, Colorado 81201
(719) 221-1710

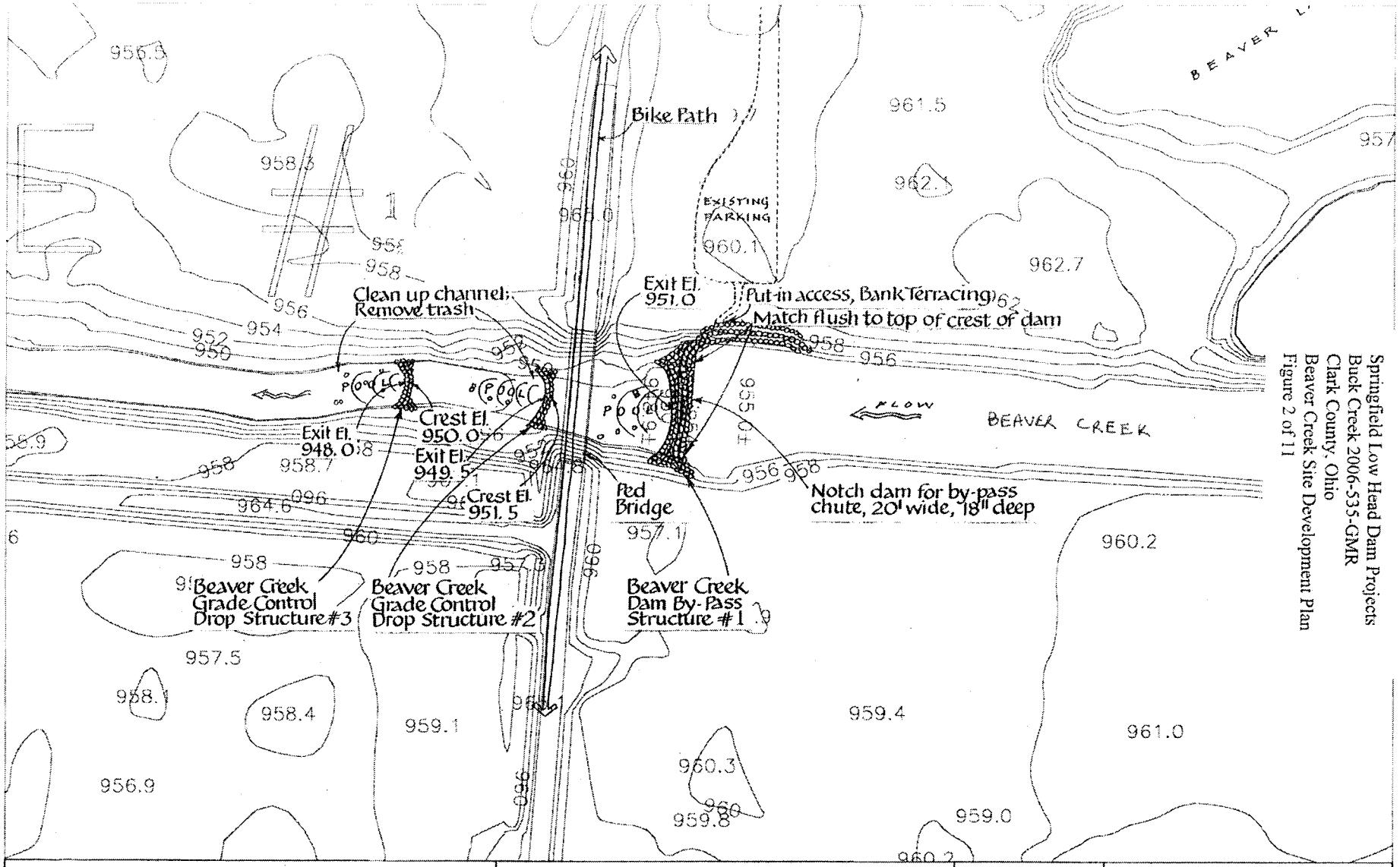
Recreation Engineering and Planning
wwparks.com

Springfield Low Head Dam Projects
Buck Creek 2006-535-GMR
Clark County, Ohio
Project Location and Overview
Figure 1 of 11

SHEET INDEX:
2 OF 5: BEAVER CREEK SITE
3 OF 5: MUNICIPAL STADIUM
4 OF 5: ART MUSEUM
5 OF 5: SNYDER PARK
ADDITIONAL SHEETS: TYPICAL DETAILS

DESIGNED: MCH
DRAFTED: AR
CHECKED: GML
REVISED: DEC. 05, JAN. 07, AUG. 07

NO SCALE



Springfield Low Head Dam Projects
Buck Creek 2006-535-GMR
Clark County, Ohio
Beaver Creek Site Development Plan
Figure 2 of 11

BEAVER CREEK SITE

BUCK CREEK SAFETY, NAVIGABILITY & WHITEWATER IMPROVEMENTS
SPRINGFIELD, OHIO

SCALE: 1"=100'

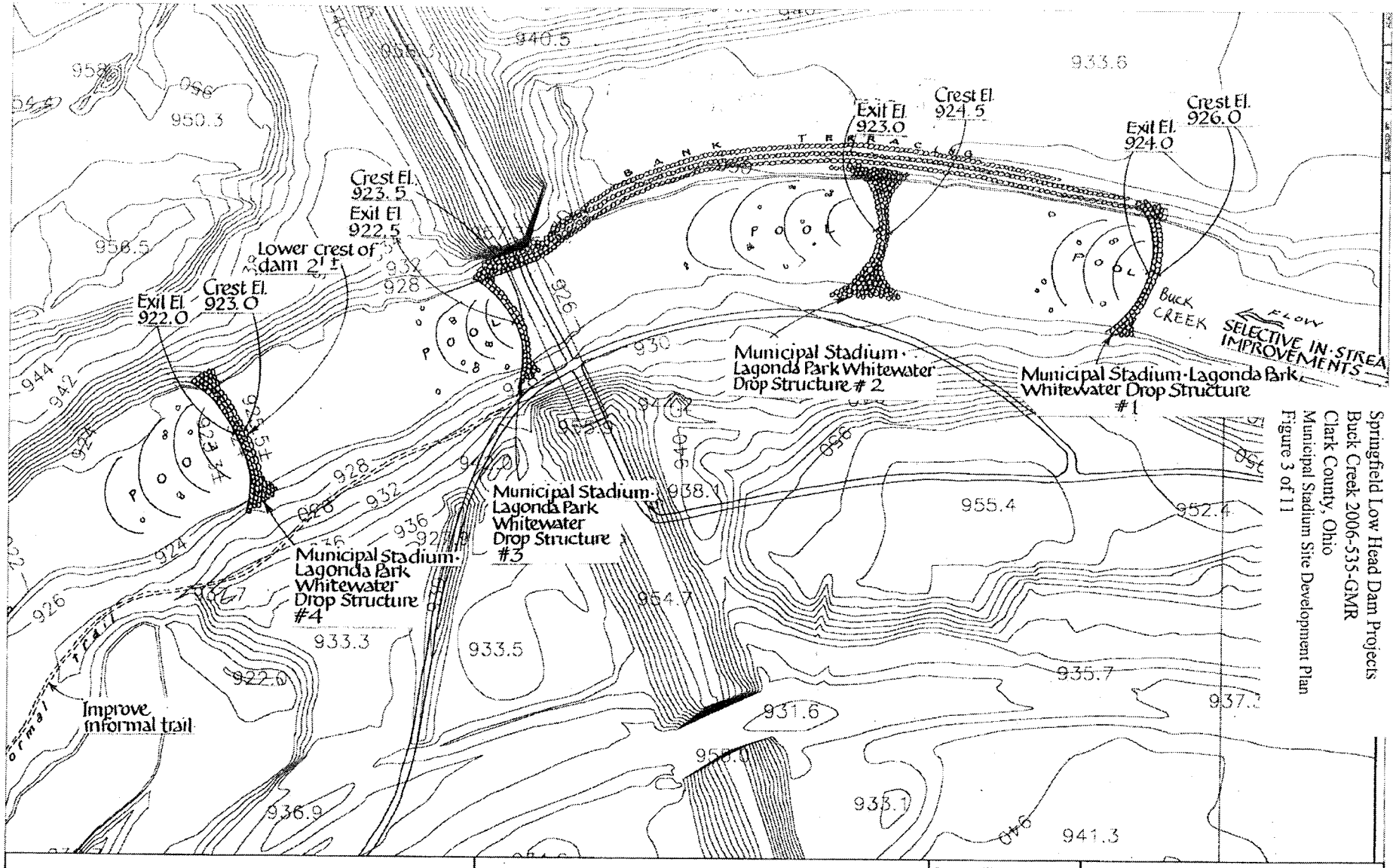
0 100

N

DESIGNED: MCH
DRAFTED: AR
CHECKED: GML
REVISED: DEC. 05, JAN. 07, AUG. 07

SHEET 2 OF 5

Recreation Engineering and Planning
wwparks.com



Springfield Low Head Dam Projects
Buck Creek 2006-535-GMR
Clark County, Ohio
Municipal Stadium Site Development Plan
Figure 3 of 11

MUNICIPAL STADIUM-LAGONDA PARK

BUCK CREEK SAFETY, NAVIGABILITY & WHITEWATER IMPROVEMENTS

SPRINGFIELD, OHIO

SCALE: 1"=100'

0 100

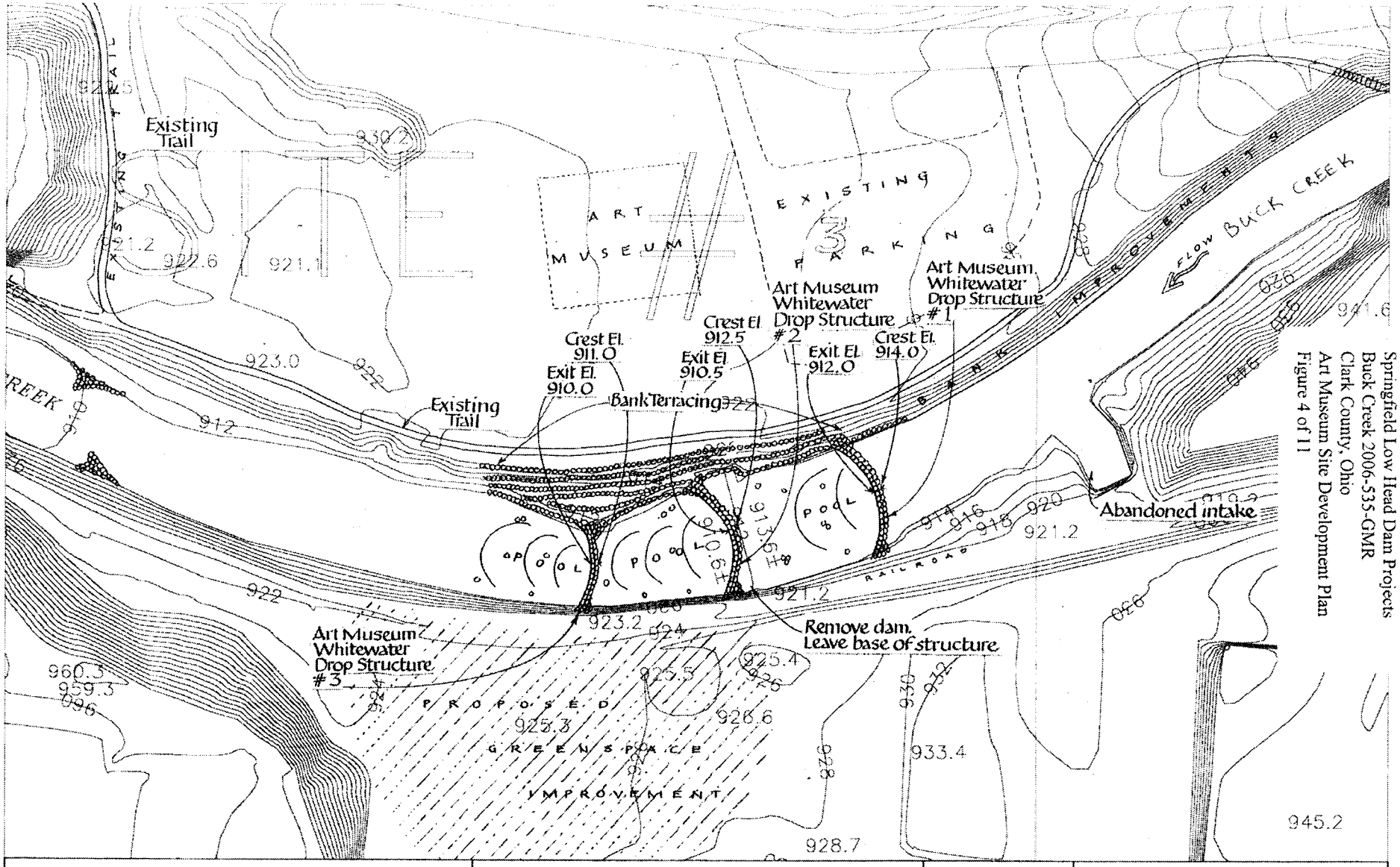
N

DESIGNED: MCH
DRAFTED: AR
CHECKED: GML
REVISED: DEC. 05, JAN. 07, AUG. 07

SHEET 3 OF 5

Recreation Engineering and Planning

wwparks.com



Springfield Low Head Dam Projects
Buck Creek 2006-535-GMR
Clark County, Ohio
Art Museum Site Development Plan
Figure 4 of 11

ART MUSEUM SITE

BUCK CREEK SAFETY, NAVIGABILITY & WHITEWATER IMPROVEMENTS
SPRINGFIELD, OHIO

SCALE: 1"=100'

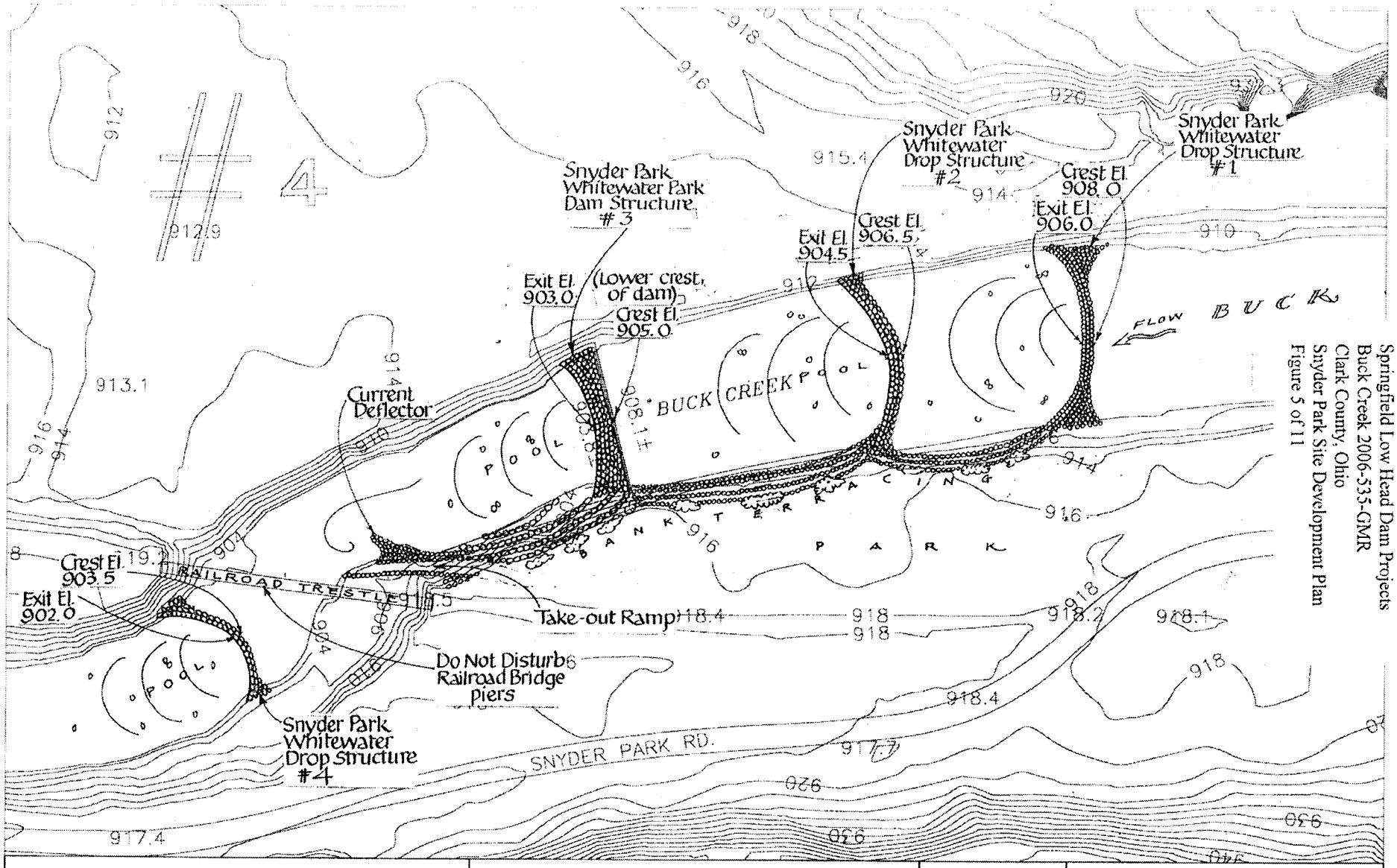
0 100

N

DESIGNED: MCH
DRAFTED: AR
CHECKED: GML
REVISED: DEC. 05, JAN. 07, AUG. 07

SHEET 4 OF 5

Recreation Engineering and Planning
wwparks.com



Springfield Low Head Dam Projects
Buck Creek 2006-535-GMR
Clark County, Ohio
Snyder Park Site Development Plan
Figure 5 of 11

SNYDER PARK SITE

BUCK CREEK SAFETY, NAVIGABILITY & WHITEWATER IMPROVEMENTS
SPRINGFIELD, OHIO

SCALE: 1"=100'

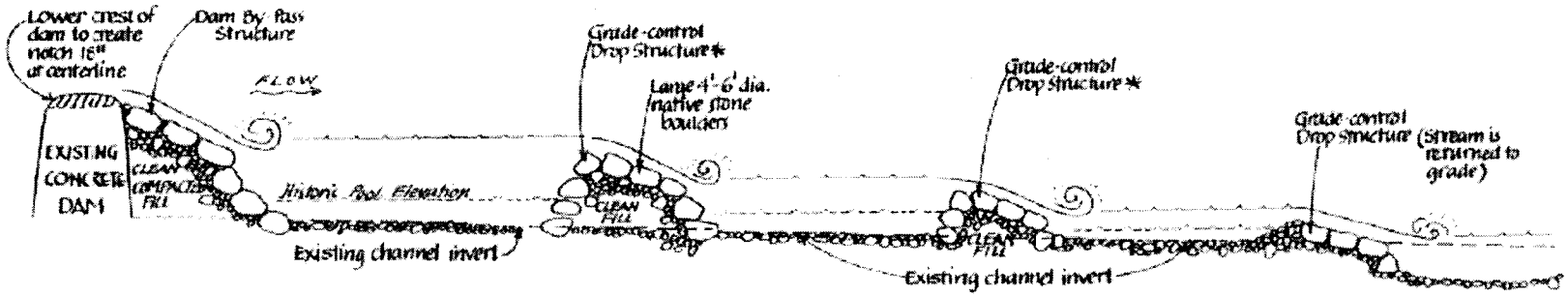
0 100

N

DESIGNED: MCH
DRAFTED: AR
CHECKED: GML
REVISED: DEC. 05, JAN. 07, AUG. 07

SHEET 5 OF 5

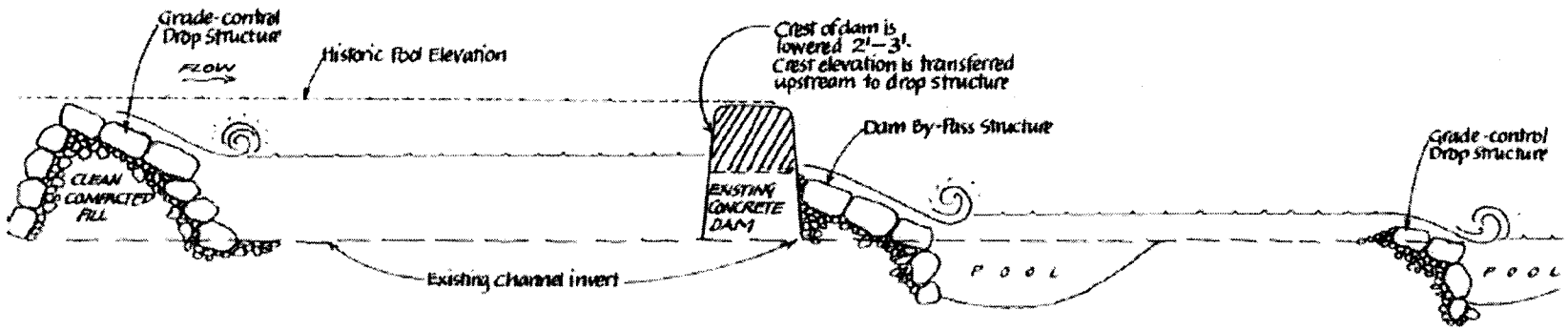
Recreation Engineering and Planning
wwparks.com



TYPICAL PROFILE VIEW of LOW HEAD DAM
NAVIGATION & SAFETY IMPROVEMENT NO SCALE

1 : Crest of dam and head are maintained for current function

*GRADE-CONTROL DROP STRUCTURES raise pool elevation below dam by-pass in order to step elevation loss down over a longer reach



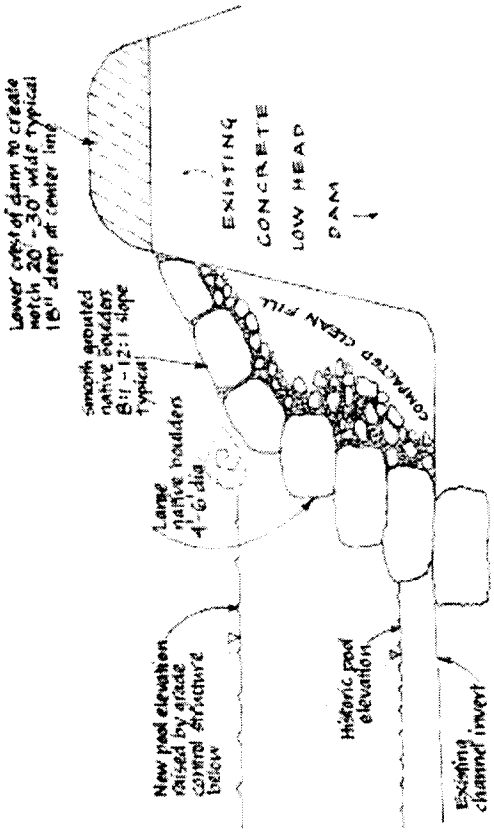
TYPICAL PROFILE VIEW of LOW HEAD DAM
NAVIGATION & SAFETY IMPROVEMENT NO SCALE

2: Crest of dam is lowered; grade is redistributed through reach

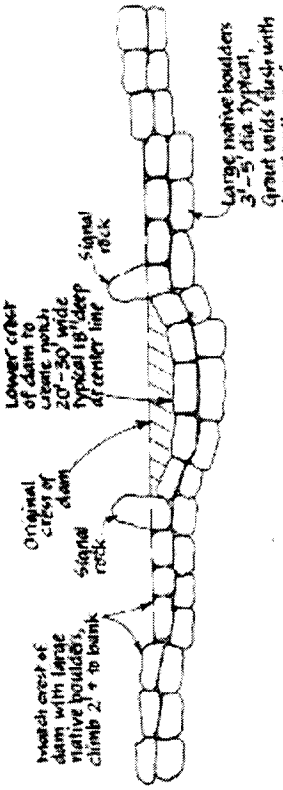
Recreation Engineering & Planning
1185 ARAPAHOE AVE., BOULDER, CO 80302
PHONE/FAX (303)545-5883

Springfield Low Head Dam Projects
Buck Creek 2006-535-GMR
Clark County, Ohio
Typical Profiles – Low Head Dams
Figure 6 of 11

Springfield Low Head Dam Projects
Buck Creek 2006-535-GMR
Clark County, Ohio
Details – Dam By-Pass Structure
Figure 7 of11

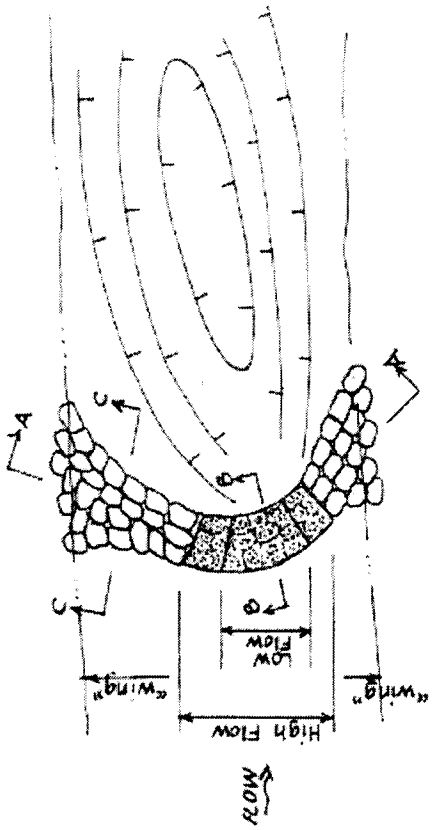


TYPICAL PROFILE VIEW OF DAM BY-PASS STRUCTURE
no scale

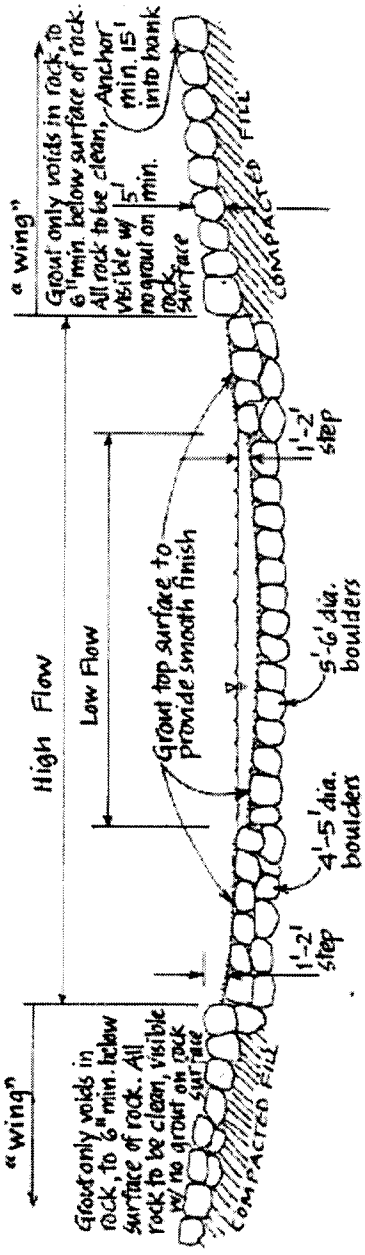


TYPICAL SECTION VIEW OF DAM BY-PASS STRUCTURE
no scale

Springfield Low Head Dam Projects
Buck Creek 2006-535-GMR
Clark County, Ohio
Details – Drop Structure
Figure 8 of 11

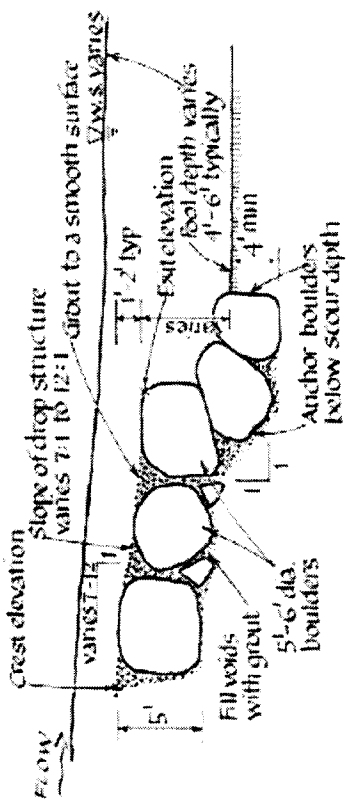


TYPICAL DROP STRUCTURE
no scale

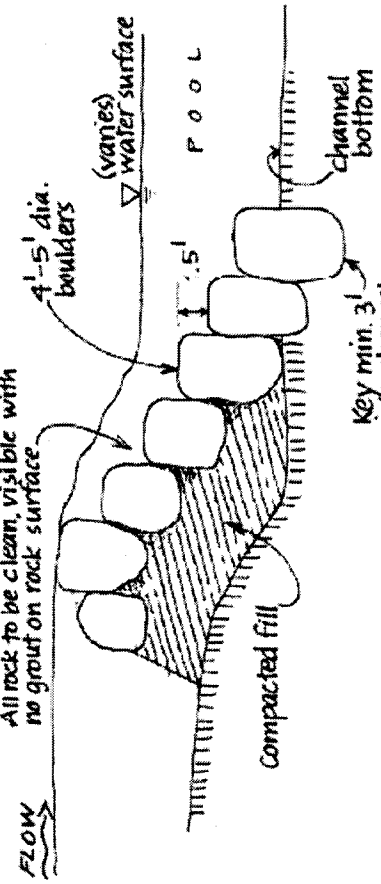


TYPICAL CROSS SECTION DROP STRUCTURE BANK TO BANK, A-A
looking downstream, no scale

Springfield Low Head Dam Projects
Buck Creek 2006-535-GMR
Clark County, Ohio
Cross Sections – Drop Structure
Figure 9 of 11

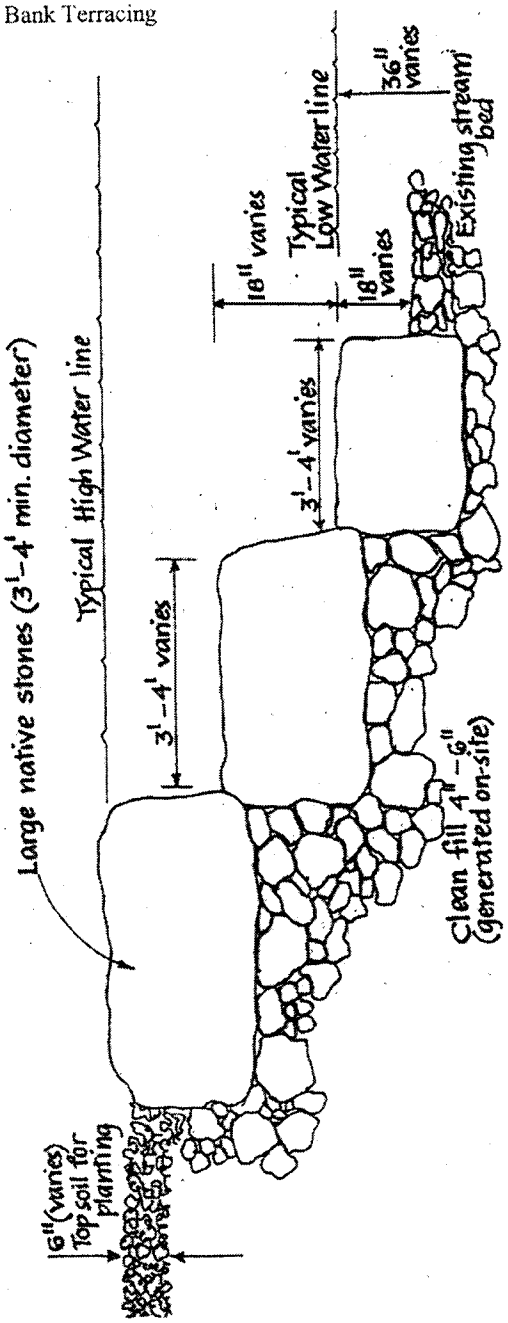


TYPICAL ℄ PROFILE VIEW of LOW & HIGH FLOW AREAS, B - B



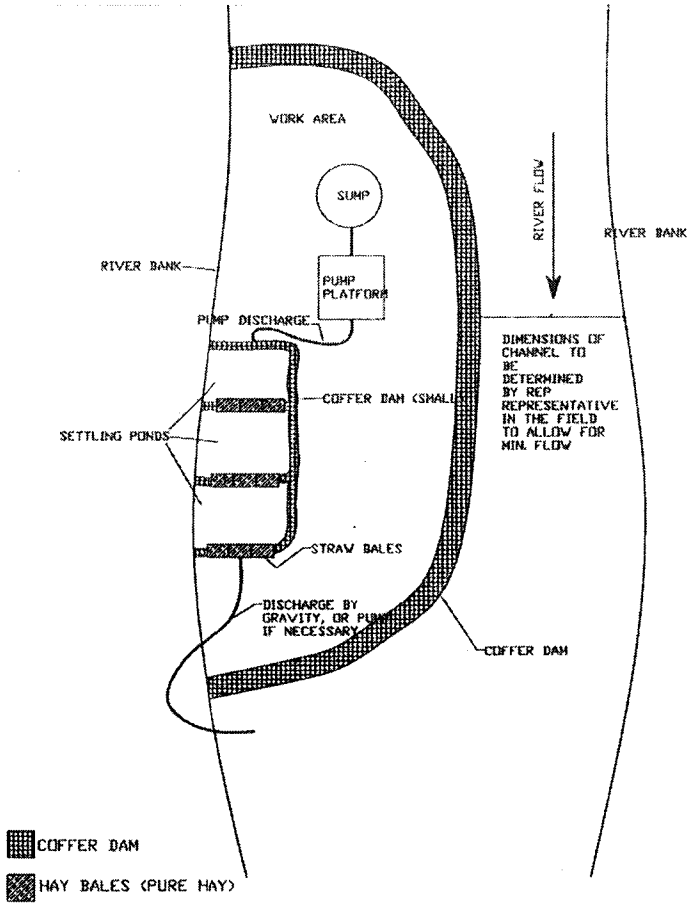
TYPICAL SECTION OF "WING", C-C
no scale

Springfield Low Head Dam Projects
Buck Creek 2006-535-GMR
Clark County, Ohio
Cross Section – Bank Terracing
Figure 10 of 11



TYPICAL CROSS SECTION BANK TERRACING no scale

Recreation Engineering & Planning
455 ARAPAHOE AVE., BOULDER, CO 80302
PHONE/FAX (303)545-5883



NOTES: DEWATERING AREA DETAILS:

1. COFFER DAM TO BE CONSTRUCTED USING CLEAN, NATIVE, NON-ERODABLE MATERIAL.
2. SUMPS CAN BE MADE FROM DIGGING A HOLE AND INSERTING A PERFORATED PIPE AND BACKFILLING WITH CLEAN DRAIN ROCK OR OTHER APPROVED METHOD.
2. SETTLING BASINS SHOULD BE BASED UPON SITE SPECIFICS (I.E. INFILTRATION AND SETTLING RATES, PARTICLE SIZE). DETENTION TIMES WILL BE BASED UPON THE SIZE OF THE SUSPENDED PARTICLES. IF THERE IS EXCESSIVE LEAKAGE THROUGH ANY COFFER DAM, BASE ROCK IS TO BE LINED WITH VISQUENE PRIOR TO BEING COVERED IN COBBLE. NUMBER OF SETTLING PONDS TO BE DETERMINED BY CLARITY OF DISCHARGE FLUID.
3. UPON COMPLETION VISQUENE AND SETTLED FINES SHALL BE REMOVED AND DISPOSED OF OFFSITE BY THE CONTRACTOR.
4. PUMP STATION SHALL BE ELEVATED. FUEL CONTAINMENT BMP'S SHALL BE ONSITE AT ALL TIMES.
5. PUMP REMAINING WATER IN CONSTRUCTION AREA AS NECESSARY, TO MANAGE GROUNDWATER AND LEAKAGE. ALL DISCHARGED WATER MUST BE ROUTED TO THE SETTLING BASINS.

Springfield Low Head Dam Projects
Buck Creek 2006-535-GMR
Clark County, Ohio
Details – Temporary Coffer Dam
Figure 11 of 11

TYPICAL LAYOUT DEWATERING AREA
NOTE: SCHEMATIC LAYOUT TO DESCRIBE FUNCTIONALITY ONLY. ACTUAL LAYOUT TO BE DETERMINED FOR EACH STRUCTURE.

BUCK CREEK SAFETY, NAVIGABILITY & WHITEWATER IMPROVEMENTS SPRINGFIELD, OHIO	TYPICAL DETAIL-NO SCALE	DESIGNED: SS DRAFTED: BS CHECKED: MOH REVISED:	Recreation Engineering and Planning wwparks.com