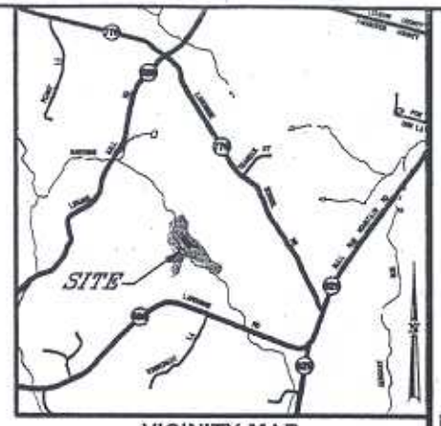
PROPOSED HEIGHT OF DAM = 34.0'

PROPOSED IMPOUNDMENT VOLUME
AT NORMAL POOL LEVEL, EL. 550.0' = 285 AC-FT

PROPOSED IMPOUNDMENT SURFACE AREA = 20.85 AC.



VICINITY MAP
1"=2000'

A. LOW-FLOW WEIR BOX: PRE-CAST CONCRETE WITH 90-DEGREE, V-NOTCH WEIR IN ALUMINUM PLATE. TO ALLOW CONTINUOUS STREAM FLOWS DOWNSTREAM OF IMPOUNDMENT, DURING DROUGHT CONDITIONS WHEN NORMAL STREAM FLOWS DROP BELOW THE 550-FT. ELEVATION OF THE PRINCIP SPILLWAY. WATER INTAKE TO THE LOW-FLOW WEIR BOX IS 10 FEET BELOW NORMAL POOL ELEVATION TO PROVIDE A COOL-WATER FLOW DURING DROUGHT FLOW CONDITIONS.

B. POND-FILL BYPASS LINE: 12-INCH DIAMETER, DUCTILE IRON PRESSURE PIPE, CL 52, WITH 12-INCH RESILIENT-SEAT GATE VALVE AT INVERT 532.5 AND CONTROL STEM TO SURFACE AT ELEVATION 551.5. PURPOSE OF THIS LINE AND VALVE IS TO PROVIDE A NORMAL-STREAM FLOW PASS OF THE IMPOUNDMENT DURING THE POND FILL PERIOD. VALVE WILL BE PARTIALLY OPEN UNTIL STORM FLOWS FILL THE POND TO THE MID-LEVEL DRAIN ELEVATION OF 546.0. AT THAT TIME THE POND-FILL BYPASS LINE VALVE WILL BE CLOSED AND THE NORMAL-FLOW BYPASS WILL BE STROLLED BY THE MID-LEVEL DRAIN LINE AND VALVE.

C. MID-LEVEL DRAIN: 8-INCH DIAMETER, DUCTILE IRON PRESSURE PIPE, CL 52, WITH 8-INCH RESILIENT-SEAT GATE VALVE AT INVERT 539.5 AND CONTROL STEM TO SURFACE AT ELEVATION 551.5. THE LONG-TERM PURPOSE OF THIS LINE AND VALVE IS TO PROVIDE A POND DRAIN FOR MAINTENANCE PURPOSES. DURING THE POND FILLING TIME PERIOD, THIS LINE WILL ALSO SERVE AS A NORMAL-FLOW BYPASS LINE WHEN THE WATER ELEVATION

RECEIVED
JUL 28 2003
COMMUNITY DEVELOPMENT

FREDERICK WARD ASSOCIATES, INC.
ENGINEERS ARCHITECTS SURVEYORS
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Phone: 540-349-8355 Fax: 540-349-8355
Columbia, Maryland Bel Air, Maryland

REVISIONS

SPECIAL EXCEPTION PLAT

HIGH MOUNTAIN FARM IMPOUNDMENT

FAUQUIER COUNTY, VIRGINIA

SCOTT MASTERSON, DIRECTOR

DESIGNED BY JDL/JAD
DRAWN BY JJD/DSM
SCALE 1" = 100'
DATE 06/13/03