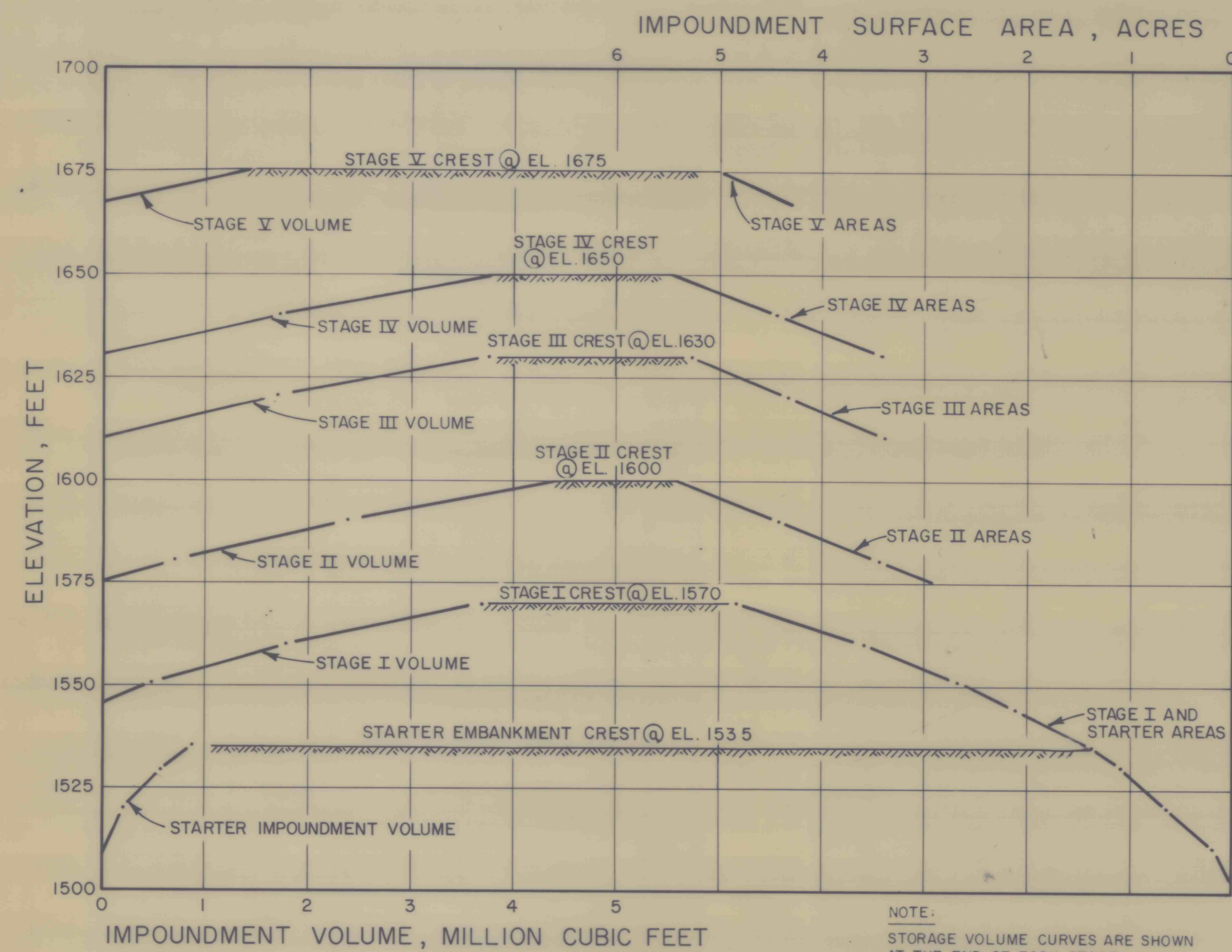
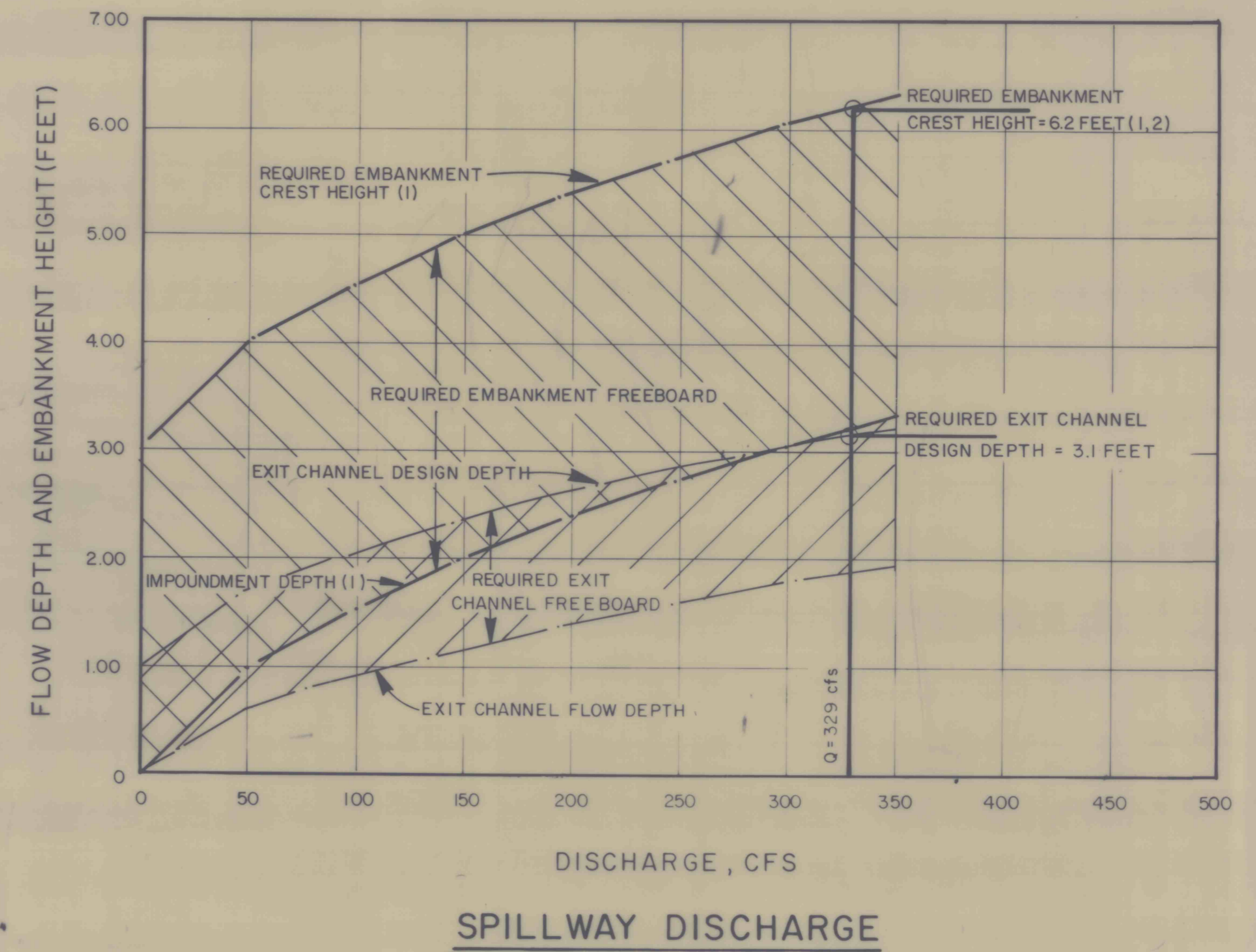
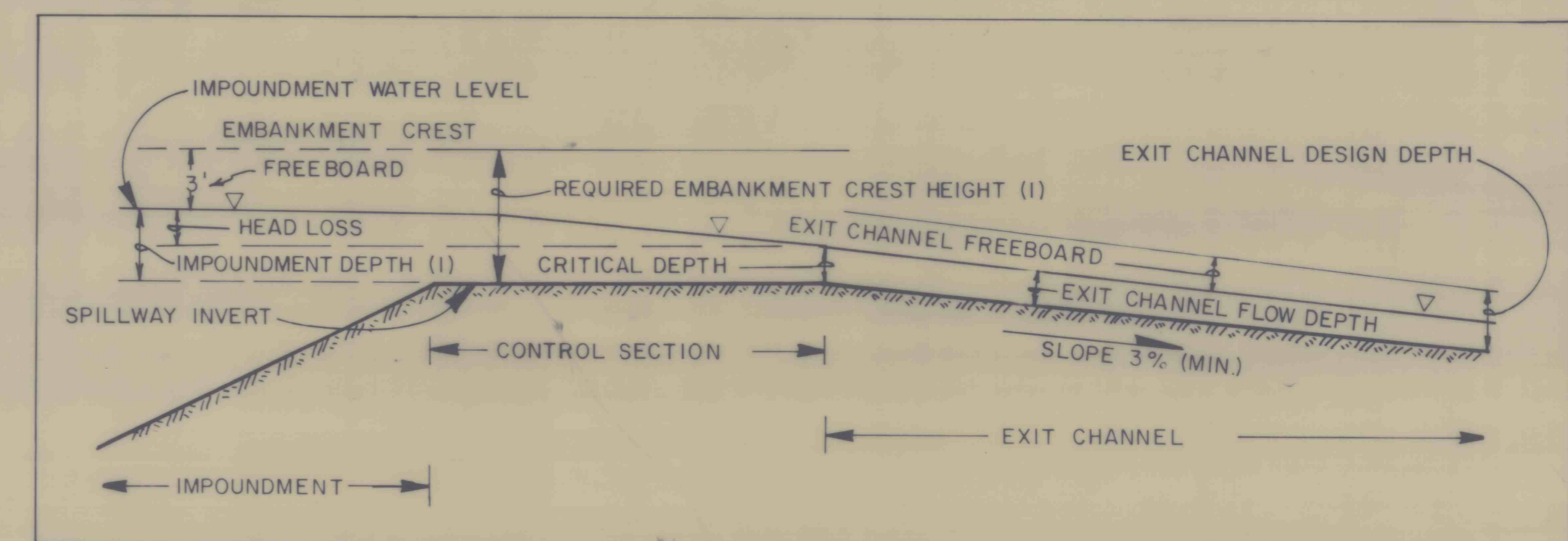


INFLOW HYDROGRAPH - 0.8 PMP STORM

- NOTES
1. WATERSHED DATA
DRAINAGE AREA = 0.03 Sq.Mi. (17 Ac.)
FLOW PATH = 0.18 Mi.
RUNOFF CURVE NO. = 71
ELEVATION DIFFERENCE = 215 Ft.
RUNOFF COEFFICIENT = 0.12
ANTECEDENT MOISTURE CONDITION II
 2. INFLOW HYDROGRAPHS DEVELOPED IN ACCORDANCE WITH PROCEDURE OUTLINED IN MSHA'S ENGINEERING AND DESIGN MANUAL, COAL REFUSE DISPOSAL FACILITIES, PREPARED BY D'APPOLONIA CONSULTING ENGINEERS, INC. 1975 EDITION
 3. DESIGN PRECIPITATION OBTAINED FROM TECHNICAL PAPER 40, RAINFALL FREQUENCY ATLAS OF THE UNITED STATES, U.S. WEATHER BUREAU, 1963.



IMPOUNDMENT STORAGE VOLUME AND AREA CURVES



TYPICAL SPILLWAY PROFILE

- NOTES:
1. EMBANKMENT CREST HEIGHT AND IMPOUNDMENT DEPTH ARE MEASURED FROM THE SPILLWAY INVERT.
 2. THE REQUIRED MINIMUM EMBANKMENT CREST HEIGHT IS 6.2 FEET. A HEIGHT OF 7 FEET HAS BEEN USED IN THE DESIGN OF EACH STAGE.
 3. THE SPILLWAYS HAVE BEEN DESIGNED WITH CAPACITIES EQUAL TO THE 0.8 PMP PEAK INFLOW RATE. THEREFORE, STORM ROUTING CALCULATIONS ARE NOT REQUIRED.

STAGE	EMBANKMENT CREST EL. (ft)	SPILLWAY / INVERT EL. (ft)
I	1570	1563
II	1600	1593
III	1630	1623
IV	1650	1643
V	1675	1668

DRAWING NO. 78-359-E20 SHEET NO. FIGURE NO. 22

HYDROLOGIC, HYDRAULIC AND STORAGE VOLUME DATA SHEET

BETHLEHEM MINE No. 101 CENTURY, WEST VIRGINIA

PREPARED FOR

BETHLEHEM MINES CORPORATION BRIDGEPORT, WEST VIRGINIA

D'APPOLONIA