26 SEP 2022 Stilling Basins used to create/fix hydraulic jump in a known location to dissipate excess energy and prevent damage from supercritical flows Spilling (typical) OUCRETE NATROPAL:
CHANNEL ON THIS HAPRON" CALLED STILLING BASIN

CHANNEL ROSEHNESS CHANNEL ROUGHNESS IMPACTS VUMP; AS ROUGHENESS INCREASES, 42 DECREASES, DECREASES BAFFIE BLOCKS - STABILIZE TOMAS M, -M2 = DRAS-FDRAG = COSPAPV, 2 AD = PROJECTED AREA OF BLOCKS FACING CROTREAM FOR ACC BLOCKS

CSUPPOSE 1 BLOCK 15 4×4=16742 TOTAL 50 BLOCKS, THEN Ap = 50(16) fx2 CD = DRAG COEFFICIENT - LOOK UP FOR VARIOUS GEOMETRIES STILLING BASINS ARE COMBINATIONS OF BAFFLE BLOCKS, CHUTE BLOCKS SILLS WITH CONCRETE LINER & WALLS - CAN ALSO USE "NATURAL" ROCKS CHUTE CHINE BLOCK 514 CWEIR LIKE) m · · · m · · STEEP SW DE BAFFLE BLOCKS

ENERGY DISSIPATION AFTER SUPERURITICAL USBR Types - Figs 3.11-3.13 TYPICALLY KNOW PRESIGN, By, JV, # BLOCKS Ap -> y2 FOR A GIVEN CASE NEED APPROCK