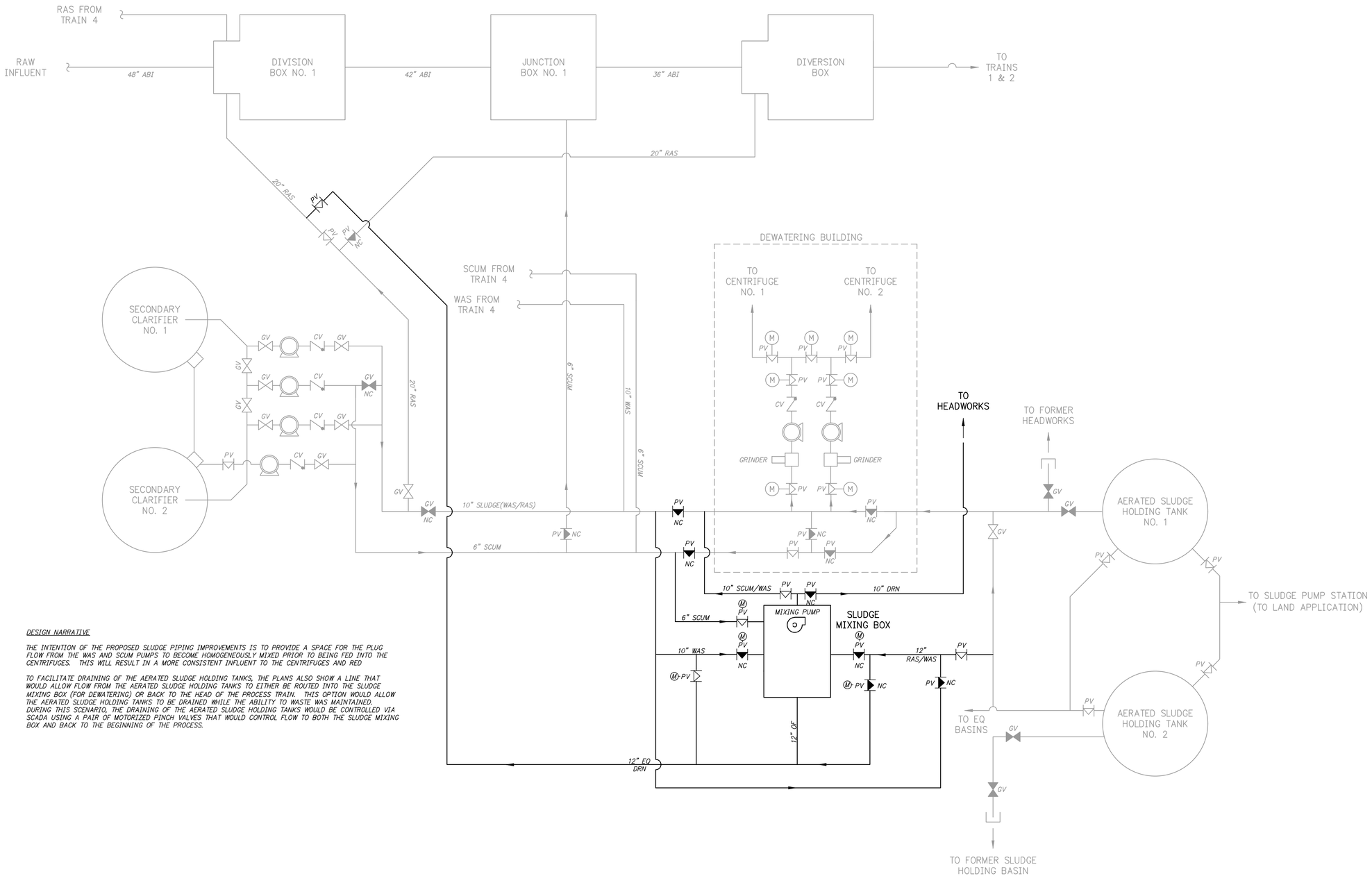

DESIGN NARRATIVE

THE INTENTION OF THE PROPOSED SLUDGE PIPING IMPROVEMENTS IS TO PROVIDE A SPACE FOR THE PLUG FLOW FROM THE WAS AND SCUM PUMPS TO BECOME HOMOGENEOUSLY MIXED PRIOR TO BEING FED INTO THE CENTRIFUGES. THIS WILL RESULT IN A MORE CONSISTENT INFLUENT TO THE CENTRIFUGES AND RED

TO FACILITATE DRAINING OF THE AERATED SLUDGE HOLDING TANKS, THE PLANS ALSO SHOW A LINE THAT WOULD ALLOW FLOW FROM THE AERATED SLUDGE HOLDING TANKS TO EITHER BE ROUTED INTO THE SLUDGE MIXING BOX (FOR DEWATERING) OR BACK TO THE HEAD OF THE PROCESS TRAIN. THIS OPTION WOULD ALLOW THE AERATED SLUDGE HOLDING TANKS TO BE DRAINED WHILE THE ABILITY TO WASTE WAS MAINTAINED. DURING THIS SCENARIO, THE DRAINING OF THE AERATED SLUDGE HOLDING TANKS WOULD BE CONTROLLED VIA SCADA USING A PAIR OF MOTORIZED PINCH VALVES THAT WOULD CONTROL FLOW TO BOTH THE SLUDGE MIXING BOX AND BACK TO THE BEGINNING OF THE PROCESS.

1"
ONE INCH AT FULL SIZE
IF NOT ONE INCH SCALE ACCORDINGLY

REVISION	DATE

STATE OF ARKANSAS *** LICENSED PROFESSIONAL ENGINEER *** No. 15397 JOSHUA S. DUNN 12/05/24

HAWKINS WEIR ENGINEERS, INC.

BLACK & VEATCH

ROGERS, ARKANSAS
ROGERS POLLUTION CONTROL FACILITY (PCF)
SOLIDS HANDLING IMPROVEMENTS, PHASE II

SLUDGE PIPING DIAGRAM

FOR: ROGERS WATER UTILITIES

DATE: AUGUST 2024
SCALE: N.T.S
DESIGNED BY: JSD
DRAWN BY: MAW
HWEI NO.: 2020043
FILENAME: G-18 PROC

SHEET NO.
G-18