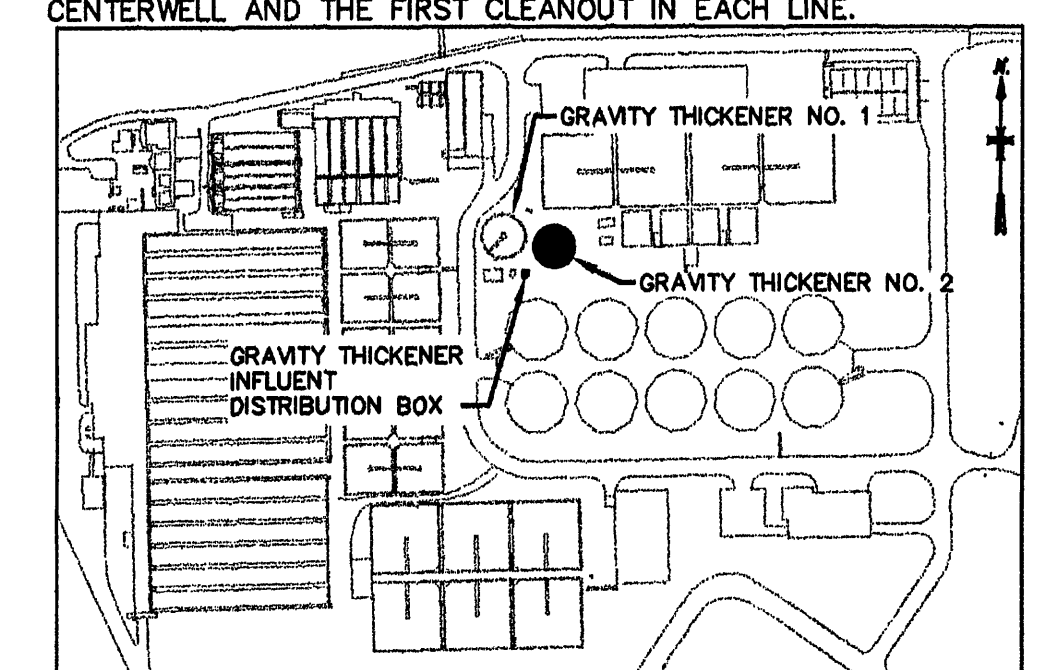
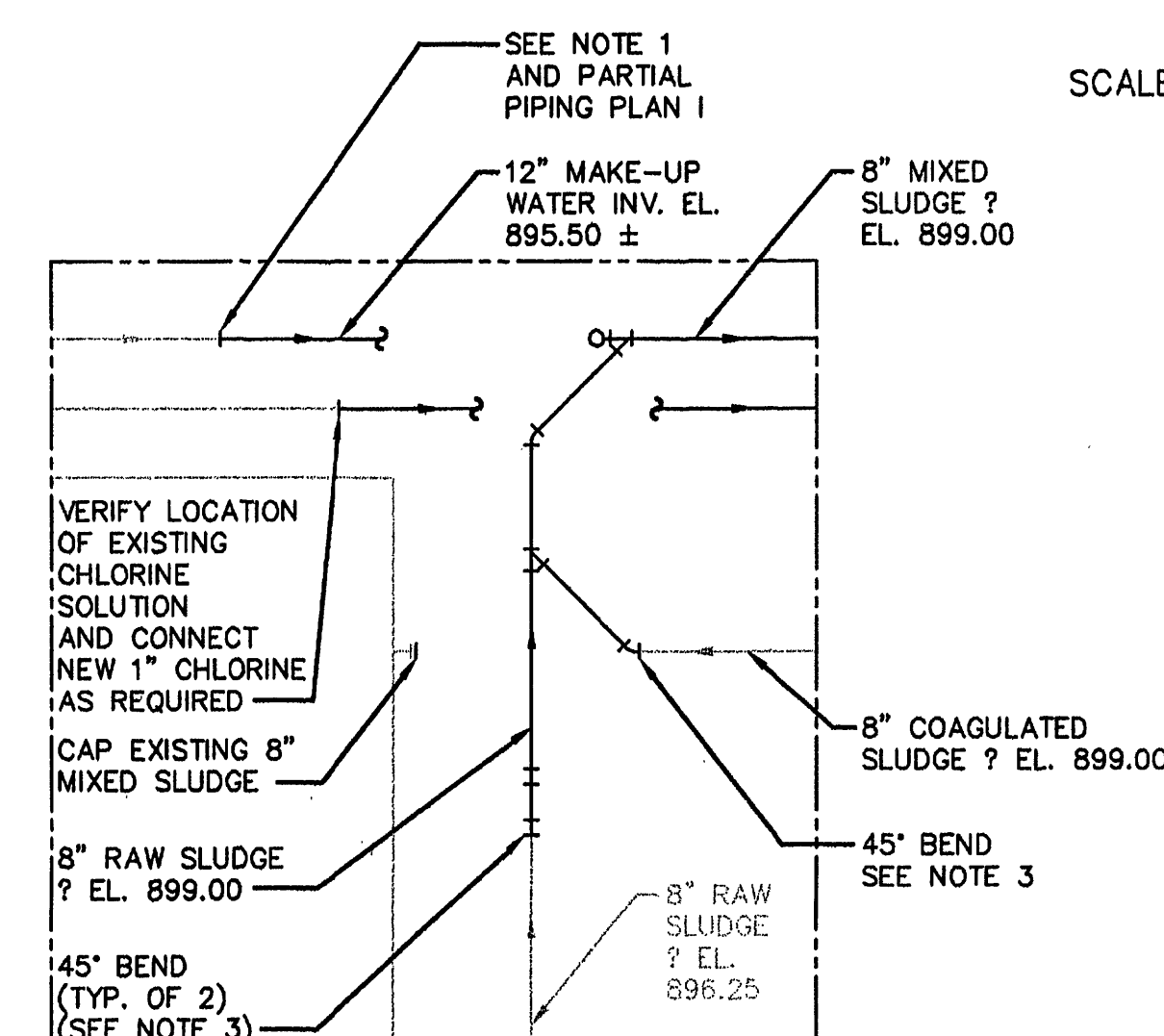
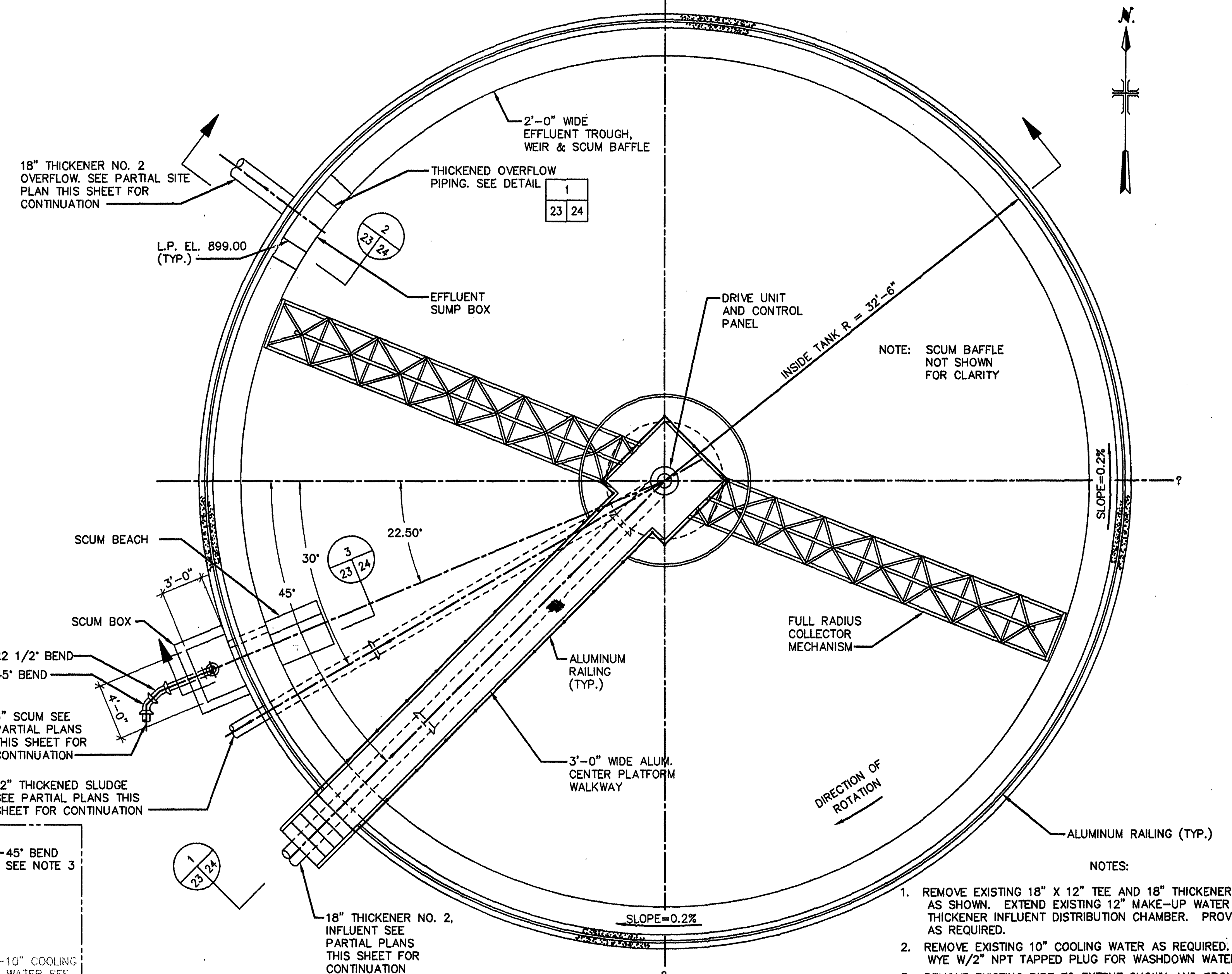
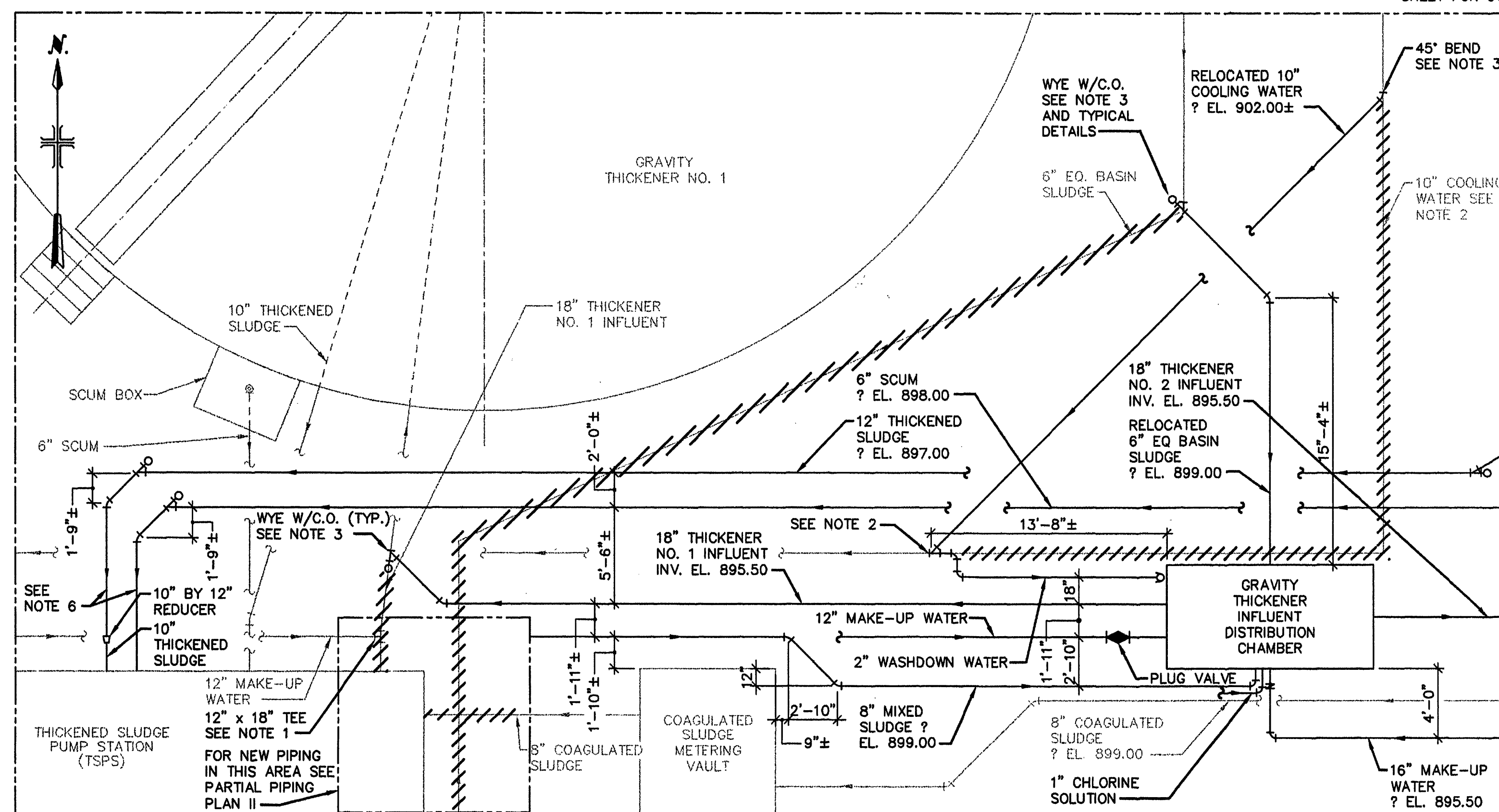
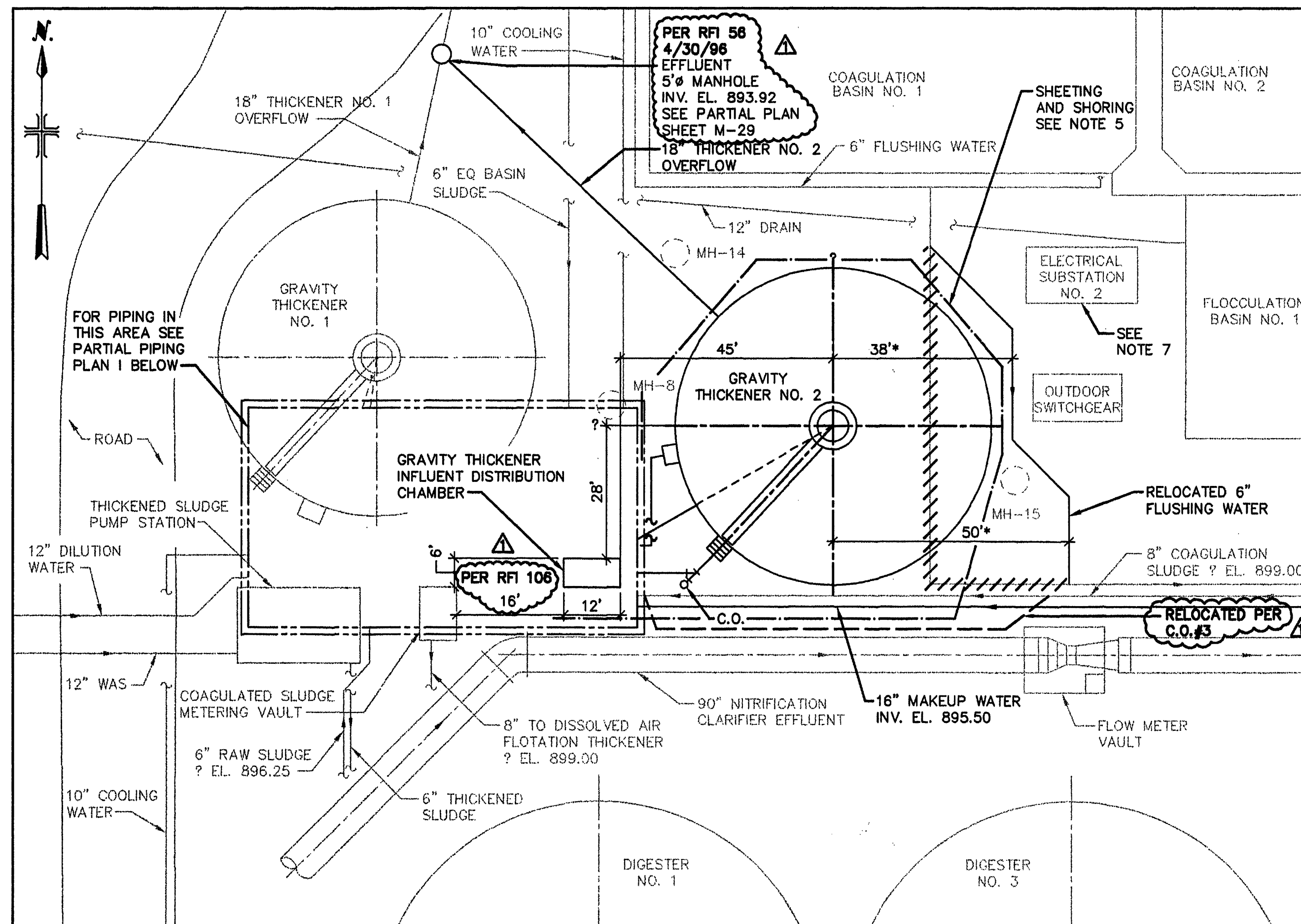




1. REMOVE EXISTING 18" x 12" TEE AND 18" THICKENER NO. 1 INFLUENT AS SHOWN. EXTEND EXISTING 12" MAKE-UP WATER TO NEW GRAVITY THICKENER INFLUENT DISTRIBUTION CHAMBER. PROVIDE FITTING AS REQUIRED.
2. REMOVE EXISTING 10" COOLING WATER AS REQUIRED. PROVIDE 10" M.J. WYE W/2" NPT TAPPED PLUG FOR WASHDOWN WATER LINE AS SHOWN.
3. REMOVE EXISTING PIPE TO EXTENT SHOWN AND PROVIDE NEW FITTINGS AS REQUIRED TO MAKE CONNECTIONS.
4. LOCATIONS OF EXISTING PIPING ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING PIPING AND PROVIDE ALL FITTINGS REQUIRED TO MAKE REQUIRED CONNECTIONS.
5. SEE SPECIFICATIONS FOR SHEETING & SHORING REQUIREMENTS.
6. SLOPE PIPE BETWEEN TSPS AND 45° BEND AS REQUIRED TO MAKE-UP CHANGE IN ELEVATION.
7. SEE ELECTRICAL DRAWINGS AND SECTION 01014 FOR SHUTDOWNS FOR RELOCATION OF ELECTRICAL DUCT BANKS AROUND THICKENER NO. 2.
8. PROVIDE FITTINGS AS REQUIRED IN BOTH THE 12" THICKENED SLUDGE AND 18" THICKENER NO. 2 INFLUENT LINES TO MAKE UP THE REQUIRED CHANGE IN ELEVATION BETWEEN THE CENTERLINE ELEVATION OF THE LINES AT THE THICKENER CENTERWELL AND THE CENTERLINE ELEVATIONS AT THE 22-1/2" DRAIN PIPING. BENDS SHALL BE A MAXIMUM OF 22-1/2 DEGREES. MAXIMUM DEFLECTION USING MECHANICAL JOINTS SHALL BE 3 DEGREES. CHANGE IN ELEVATION SHALL BE COMPLETED BETWEEN THE CENTERWELL AND THE FIRST CLEANOUT IN EACH LINE.

[illegible]

DES CWM

DWN MPK

CKD GJJ



CITY OF ROANOKE, VIRGINIA
WATER POLLUTION
CONTROL PLANT
UPGRADE AND EXPANSION

GRAVITY THICKENER

PLAN AND PARTIAL PLANS

SCALE AS NOTED