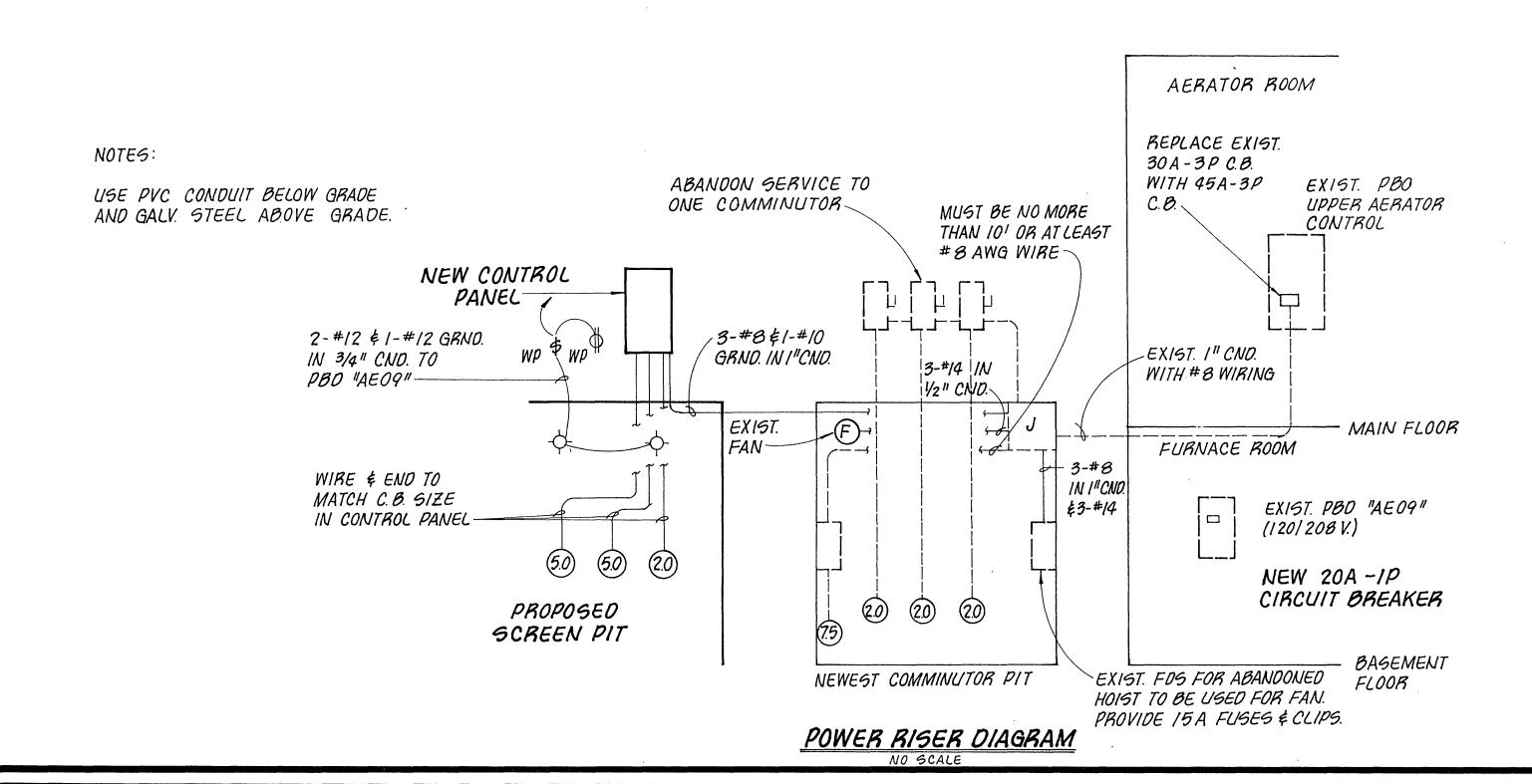


ELECTRICAL PLAN



ELECTRICAL LEGEND

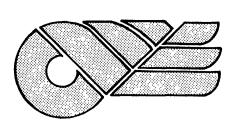
- S SINGLE POLE LIGHT SWITCH
- J WIRING JUNCTION BOX OR EQUIPMENT JUNCTION
- N NOTE
- PBD PANELBOARD
- LIGHT FIXTURE-WALL MOUNT
- (M) MOTOR
- R REMOTE STATION

SHEET NOTES

- N1. Tap 480V service to existing comminutors at wall penetration into main control building. Replace existing 30A breaker for this service with 40A breaker.
- N2. Run conduit underground and beneath slab to screens and conveyor drive motors.
- N3. Light switch and upper level receptacle to be handrail mounted at 908.50. Lower level receptacle to be wall mounted at 892.50.
- N4. 120V/20A service to receptacles and lights shall be run from existing lighting panel located in mechanical room beneath laboratory.
- N5. Lighting fixtures shall be 20A/120V wall mount high pressure sodium as manufactured by General Electric, Model No. H2107L3WGG w/guard, or equal.

MOTOR BRANCH CIRCUIT LOADING				
MOTOR	НР	AMPERAGE		
EXIST. COMMINUTOR	2.0	3.4		
EXIST. COMMINUTOR	2.0	3.4		
EXIST. PROSSER PUMP	7.5	11.0		
EXIST. EXHAUST FAN	FRACT.	1.0		
NEW GCREEN ORIVE (4') NEW GCREEN ORIVE (4') NEW CONVEYOR DRIVE	1.5 1.5 2.0	3.2 3.2 3.4		
	2.0			
TOTAL AMPS		28. <i>6</i>		

CONDUCTOR GIZING: NEC SECT. 430-24 (28.6A. + 25%(11.0)) = 31.4 A.



CLEAN WATER ENGINEERS, INC.

P.O. BOX 218 FINCASTLE, VIRGINIA 24090

P.O. BOX 3225 STAUNTON VIRGINIA, 24401 HEADWORKS IMPROVEMENTS
FOR
ROANOKE CITY
WASTEWATER TREATMENT FACILITY
ROANOKE, VIRGINIA

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REVISIONS		DESIGNED: CES	
NO.	DATE	BY	DRAWN:
			CCB / TAN
			CHECKED:
			CES
			APPROVED
			DJR

DESIGNED: CES	SHEET. 8 OF 8
DRAWN: CCB / TAM	SCALE: AS SHOWN
 CHECKED: CES	DATE: NOV., 1987
APPROVED: DJR	PROJECT: F87025