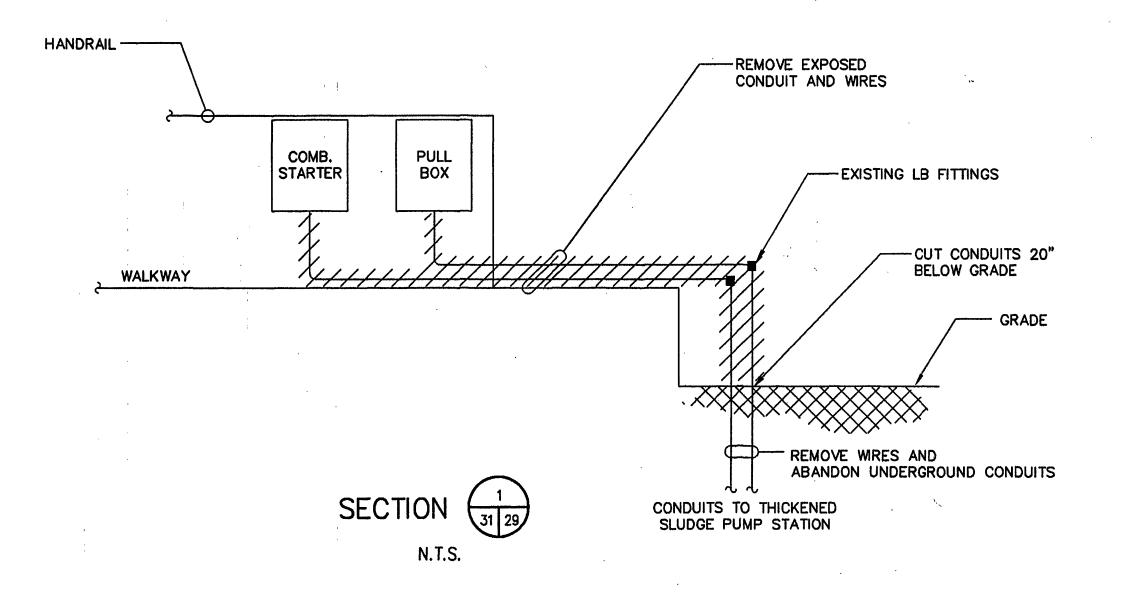
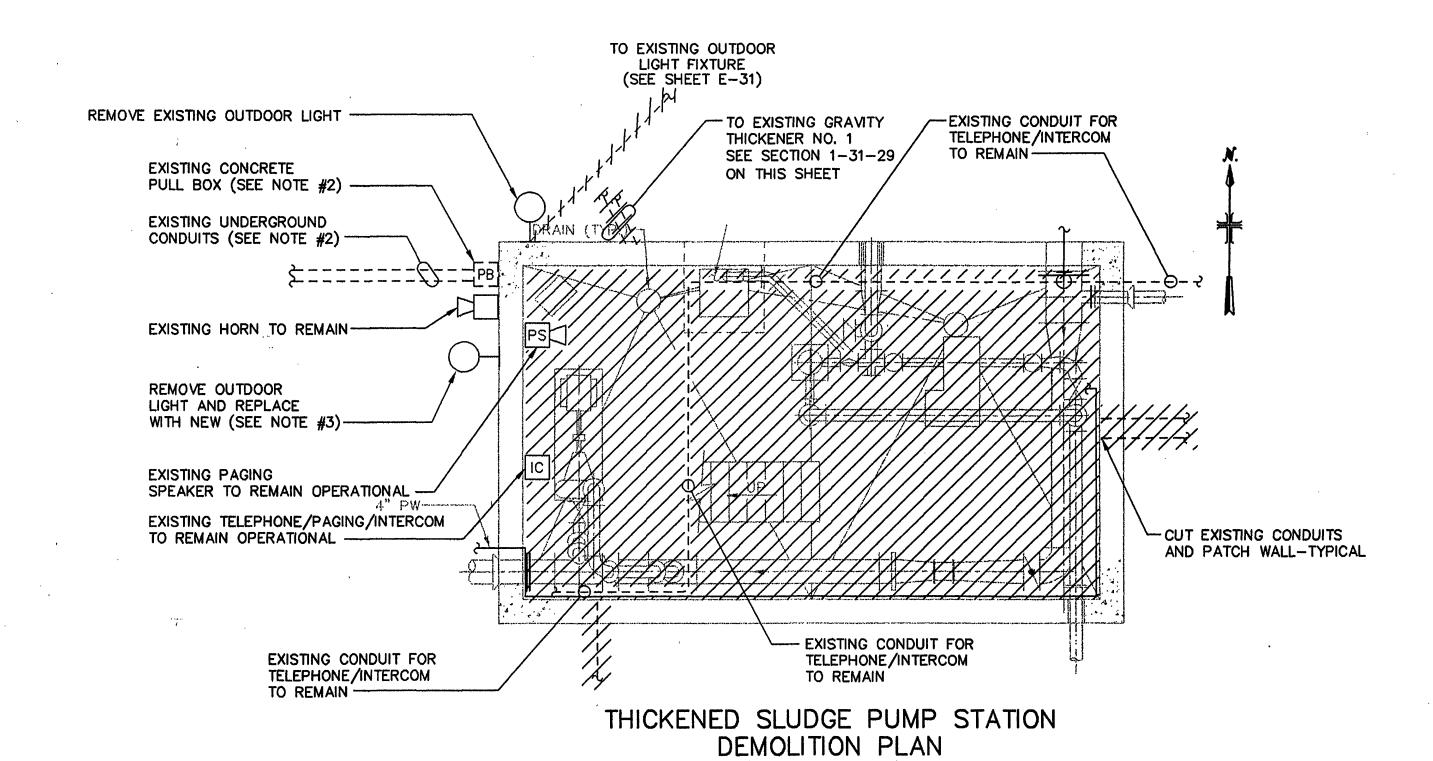
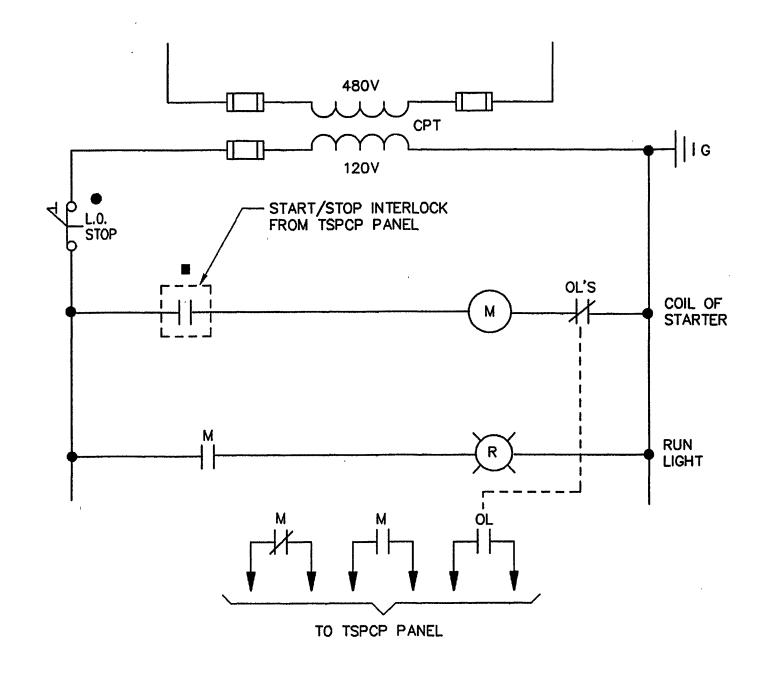
NOTES:

- 1. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, INSTRUMENTS, LIGHTING FIXTURES. ASSOCIATED SWITCHES, CONDUIT AND WRE INSIDE THE PUMP STATION EXCEPT FOR THE PAGING SPEAKER AND THE TELEPHONE/INTERCOM AND ASSOCIATED CONDUIT, WIRES AND ACCESSORIES. THE SPEAKER AND TELEPHONE/INTERCOM ARE TO REMAIN OPERATIONAL.
- 2. EXISTING PULL BOX IS FOR 120 VOLT AND 480 VOLT POWER FROM THE BASIN CONTROL HOUSE TO THE THICKENED SLUDGE PUMP STATION. FEEDERS AND PULL BOX SHALL BE REMOVED IN A STAGED SEQUENCE. INITIALLY THE POWER TO THE EXISTING GRAVITY THICKENER NO. 1 (FED VIA THESE FEEDERS) SHALL REMAIN UNTIL THE NEW POWER FROM POWER PANEL PP-1 RE-FEEDS GRAVITY THICKENER NO. 1. AFTER GRAVITY THICKENER NO. 1 IS RE-FED AND OPERATIONAL, CONTRACTOR SHALL (FIELD DETERMINE THE PANEL'S AND CIRCUIT NUMBERS IN THE BASIN CONTROL HOUSE FOR THE EXISTING FEEDERS) DISCONNECT AND REMOVE WRING FROM PANEL AND EXISTING CONDUITS AT THICKENED SLUDGE PUMP STATION AND LABEL CIRCUIT BREAKERS AS SPARE. REMOVE EXISTING PULL BOX AND ALL EXPOSED CONDUITS ASSOCIATED WITH THESE FEEDERS AND ABANDON EXISTING UNDERGROUND CONDUITS IN PLACE. PRIOR TO NEW POWER TO GRAVITY THICKENER NO. 1 FROM POWER PANEL PP-1 BEING INSTALLED CONTRACTOR MAY REMOVE ALL CONDUIT AND WIRE AS OUTLINED IN NOTE #1 ABOVE THAT DOES NOT EFFECT THE OPERATION OF GRAVITY THICKENER NO. 1
- 3. CONTRACTOR SHALL REMOVE EXISTING OUTDOOR LIGHT, CONDUIT AND WRES AND REPLACE WITH NEW IN IT'S PLACE. PROVIDE ALL NEW CONDUIT AND WIRING TO NEW LIGHT.
- 4. TEMPORARY POWER:
- a. UTILIZE EXISTING POWER SOURCES FOR CONSTRUCTION PURPOSES UNTIL NEW POWER PANEL PP-1 IS INSTALLED AND ENERGIZED.
- 5. CONTRACTOR SHALL VERIFY IN THE FIELD ALL CONDUIT RUNS PRIOR TO DEMOLITION WORK. EXTEND AND RECONNECT EXISTING CONDUITS AS REQUIRED.

	CKT	TRIP AMPS	DESCRIPTION OF LOAD		LOAD KVA	KVA PER LEG		LOAD	DESCRIPTION OF LOAD		CKT
	NO.	₽₹				Α	В	KVA	DESCRIPTION OF LOAD	TRIP	NO.
	1	20	PUMP STATION LIGHTING	0.72	1.64		1.00	CONTROL PANEL TSPCP POWER	20	2	
	3	20	PUMP STATION RECEPTACLES	0.72		1.02	0.30	OUTDOOR LIGHTING-GRAVITY THICKENER #1	20	4	
	5	20	EXHAUST FAN TS-EF-1 (VIA ATC	0.70	1.10		0.40 OUTDOOR LIGHTING-GRAVITY THICKENER			6	
	7	20	SUPPLY FAN TS-SF-1 (MA.ATC	1.20		1.30	0.10	FLOW TRANSMITTER FIT-104	20	8	
	9	20	PANEL ATC-1	0.75	0.75		-	SPARE	20	10	
	11	20	INSTRUMENTS	0.75		1.65	0.90	SUMP PUMP RECEPTACLE IN EMH#8	20	12	
	13	20	VALVE ACTUATORS	-	-		-	20	14		
	15	20	SPARE	euro .		-		SPARE	20	16	
	17	20	SPARE		-			SPARE	20	18	
	19	20	SPARE	-		94	-	SPARE	20	20	
	21	_	SPACE		•••	-		- SPACE		-	22
	23	-	SPACE			-	- SPACE			24	
	MINI-POWER CENTER LIGHTING PANEL MP-2 LOCATION: THICKENED SLUDGE PUMP STATION				OTAL KVA 3.49		3.97	SERVICE CHARACTERISTICS: 120/240 VOLT – 1 PHASE – 3 WRE – 60 Hz			
					RAND CONNECTED TOTAL KVA		7.43	PROVIDE MAIN BREAKER & SOLID NEUTRAL & GROUND BUS			







(SEE NOTE #1 & #5)

THICKENED SLUDGE PUMP #1

1. TYPICAL FOR THICKENED SLUGE PUMP #2 & #3.
ALL ITEMS SHOWN ON CONTROL SCHEMATICS ARE LOCATED IN COMBINATION STARTER ENCLOSURE(S) UNLESS NOTED OTHERWISE.



	REVISIONS									,	
	NO.	. sy ARB	DATE	REMARKS]	GJM	
M	1		JAN. 2000	RECORD	DRAWING				DES	<u>Golvi</u>	
V B									DWN	GJM	
uite 400 3606									CKD	TK/FAS	
3606							·				



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

GRAVITY THICKENER AND THICKENED SLUDGE PUMP STATION DEMOLITION PLAN AND SCHEMATICS

SCALE: 3/8"=1'-0"

COPYRIGHT © 1997
MALCOLM PIRNIE, INC.

DATE _____MAY 1997

SHEET _29_ OF ___36___

CAD REF. NO. 0060E706

060E706 Scale: 1:32i Date: 05/06/1997 Time: 10:2