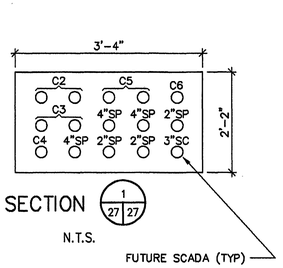
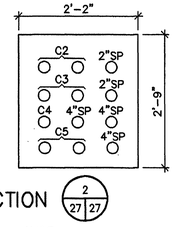


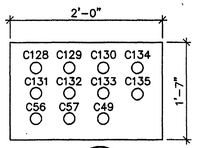
SECTION 1/27/27

N.T.S.



SECTION 2/27/27

N.T.S.

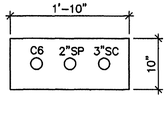


SECTION 4/27/27

N.T.S.

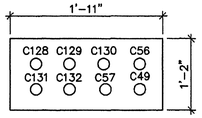
CONDUIT & WIRE IDENTIFICATION CHART

CONDUIT LETTER	CONDUIT SIZE & FILL
C128	2"C–4#4
C129	1"C–4#6
C130	2"C–SPARE
C131	2"C–SPARE
C132	2"C–(2)–12/C19/25 & 1–9/C#19/25 (SEE NOTE #11)
C133	1"C–2#10
C134	1"C–2/C#16(SH)
C135	2"C–FUTURE SCADA



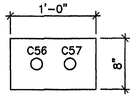
SECTION 5/27/27

N.T.S.



SECTION 6/27/27

N.T.S.

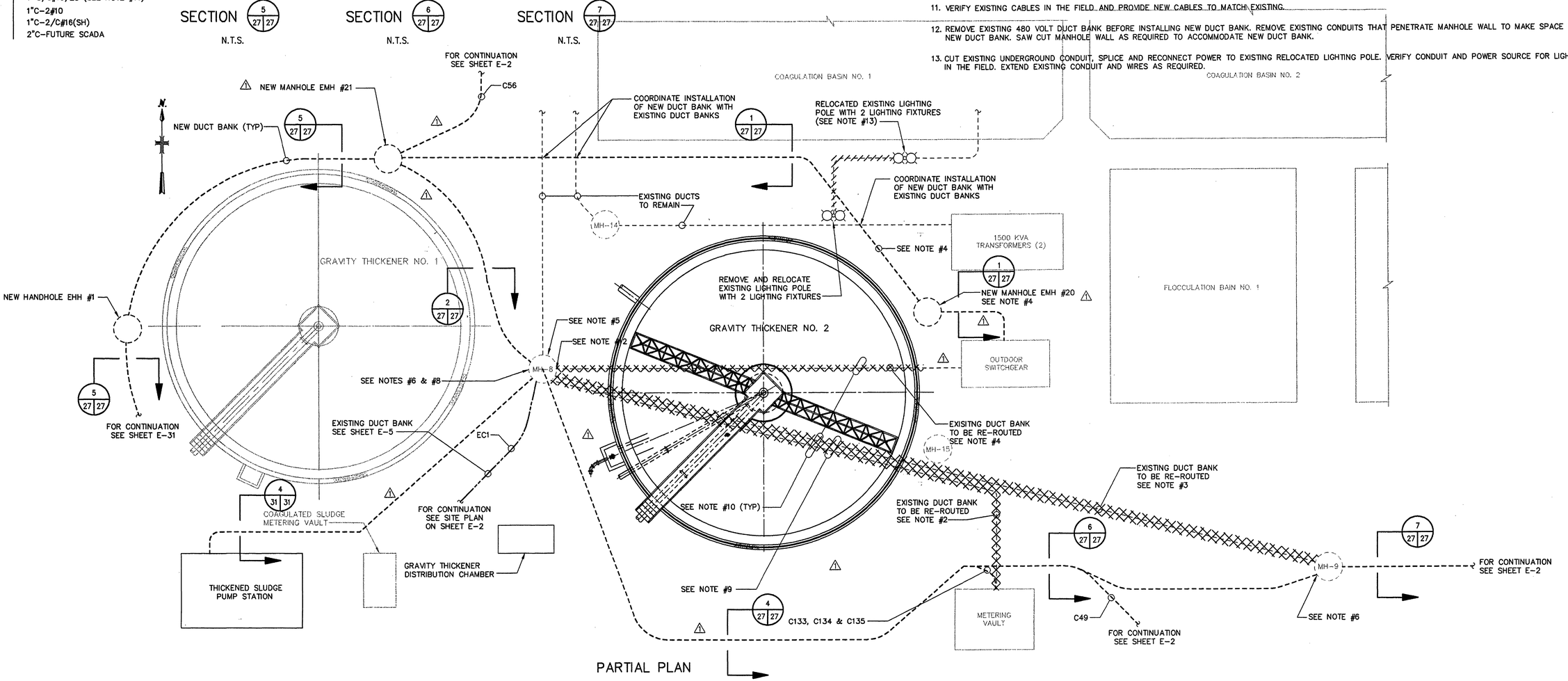


SECTION 7/27/27

N.T.S.

NOTES:

1. AREA CLASSIFICATION:
   a. OUTDOOR AREAS ARE CONSIDERED A WET LOCATION. ALL MATERIALS, EQUIPMENT AND INCIDENTALS SHALL MEET NEMA 4X REQUIREMENTS. ALL EXPOSED CONDUITS SHALL BE PVC COATED RIGID STEEEL.
2. THE EXISTING DUCT BANK FROM MH #8 TO THE EXISTING METERING VAULT IS TO BE RE–ROUTED. CONTRACTOR SHALL DISCONNECT AND REMOVE WIRING FROM EQUIPMENT AT METERING VAULT AND DEMOLISH BACK TO MANHOLE #8. IN MANHOLE #8 SPLICE NEW WIRES TO EXISTING AND ROUTE IN NEW DUCT BANK TO METERING VAULT AND CONNECT TO EXISTING EQUIPMENT. CONTRACTOR SHALL DETERMINE IN THE FIELD EXISTING EQUIPMENT BEING SERVED. SEE CONDUITS TAGGED "C133", "C134" & "C135" IN "CONDUIT & IDENTIFICATION CHART" ON THIS SHEET FOR CONDUIT AND WIRE REQUIREMENTS
3. THE EXISTING DUCT BANK FROM MH #8 TO EXISTING MH #9 IS TO BE RE–ROUTED. CONTRACTOR SHALL SHALL DEMOLISH WIRES BETWEEN MANHOLES AS SHOWN ON DRAWING. IN MANHOLE #8 SPLICE NEW WIRES AND ROUTE IN NEW DUCT BANK TO MANHOLE #9. AT MANHOLE #9 SPLICE NEW WIRES TO EXISTING. SEE CONDUITS TAGGED "C128", "C129", "C130", "C131" & "C132" IN "CONDUIT & WIRE IDENTIFICATION CHART" ON THIS SHEET FOR CONDUIT AND WIRE REQUIREMENTS..
4. SEE SHEETS E–3 & E–5 FOR DEMOLITION AND MODIFICATION REQUIREMENTS.
5. CONTRACTOR SHALL PROVIDE (FOR ALL CABLE SPLICING IN MANHOLE #8) SPLICING KITS SPECIFICALLY DESIGNED FOR SIGNAL, CONTROL AND POWER CABLES. THE KITS SHALL BE SUITABLE FOR USE ON SHIELDED AND NONSHIELDED CABLES AND BE WEATHERPROOF AND RE–ENTRABLE TYPE. IN ADDITION CONTRACTOR SHALL WRAP ALL ELECTRICAL CABLES WITHIN MANHOLE #8 WITH A ARCING AND FIREPROOFING TAPE.
6. PROVIDE EXPANSION/DEFLECTION FITTINGS FOR ALL CONDUITS TERMINATED IN THE EXISTING ELECTRICAL MANHOLES. SAW CUT MANHOLE WALLS TO ACCOMODATE NEW DUCT BANK.
7. EXACT LOCATION OF MANHOLE EMH#20 SHALL BE DETERMINED IN THE FIELD BASED ON LOCATION OF EXISTING UNDERGROUND DUCT BANK. LOCATION OF MANHOLE EMH#20 SHOWN ON THIS DRAWING IS APPROXIMATE.
8. ALL OTHER CABLES THAT ARE NOT INCLUDED IN EXISTING DUCT BANKS TO BE RE–ROUTED (SHOWN ON THIS SHEET) SHALL REMAIN. CONTRACTOR SHALL PROTECT EXISTING CABLES IN MANHOLE #8 TO AVOID DAMAGING OF CABLE INSULATION.
   a. PROVIDE ALL LABOR, MATERIALS AND INCIDENTALS AS REQUIRED TO RELOCATE DUCT BANKS TO EXISTING MANHOLES #8 & #9 AND RECONNECT ALL FEEDERS AND MISCELLANEOUS CABLES WITHIN MANHOLES #8 & #9. CLEAN AND REPAIR EXISTING MANHOLES AS REQUIRED.
9. INSTALL NEW DUCT BANK FIRST AND THEN SPLICE AND RE–CONNECT EXISTING CABLES IN MANHOLE #8 & #9.
10. CONTRACTOR SHALL OBTAIN FROM THE OWNER PLANT SITE PLAN DRAWING AND OTHER DRAWINGS THAT SHOW EXISTING DUCT BANKS AND UNDERGROUND UTILITIES.
11. VERIFY EXISTING CABLES IN THE FIELD AND PROVIDE NEW CABLES TO MATCH EXISTING.
12. REMOVE EXISTING 480 VOLT DUCT BANK BEFORE INSTALLING NEW DUCT BANK. REMOVE EXISTING CONDUITS THAT PENETRATE MANHOLE WALL TO MAKE SPACE FOR NEW DUCT BANK. SAW CUT MANHOLE WALL AS REQUIRED TO ACCOMMODATE NEW DUCT BANK.
13. CUT EXISTING UNDERGROUND CONDUIT, SPLICE AND RECONNECT POWER TO EXISTING RELOCATED LIGHTING POLE. VERIFY CONDUIT AND POWER SOURCE FOR LIGHTS IN THE FIELD. EXTEND EXISTING CONDUIT AND WIRES AS REQUIRED.



PARTIAL PLAN

7361 0060028696 L:\ACAD\PROJ\00600288\0060E704 Scale: 1:128 Date: 05/02/1997 Time: 12:49

MALCOLM PIRNIE
11832 Rock Landing Drive, Suite 400
Newport News, Virginia 23606

REVISIONS				
NO.	BY	DATE	REMARKS	
1	ARB	JAN. 2000	RECORD DRAWING	

DES GJM/TK
DWN GJM
CKD TK

ROANOKE VIRGINIA, CHARTERED 1882

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

GRAVITY THICKENER AND THICKENED SLUDGE PUMP STATION
RELOCATION OF EXISTING DUCT BANKS

SCALE: 3/32"=1'–0"

COPYRIGHT © 1997
MALCOLM PIRNIE, INC.

DATE MAY 1997

E SHEET 27 OF 36

CAD REF. NO. 0060E704