

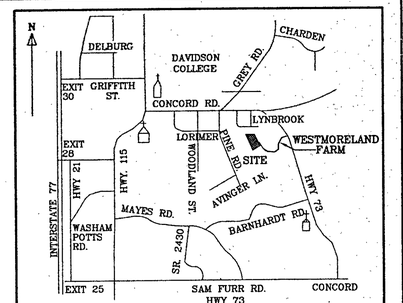
12852 WESTMORELAND FARM RD

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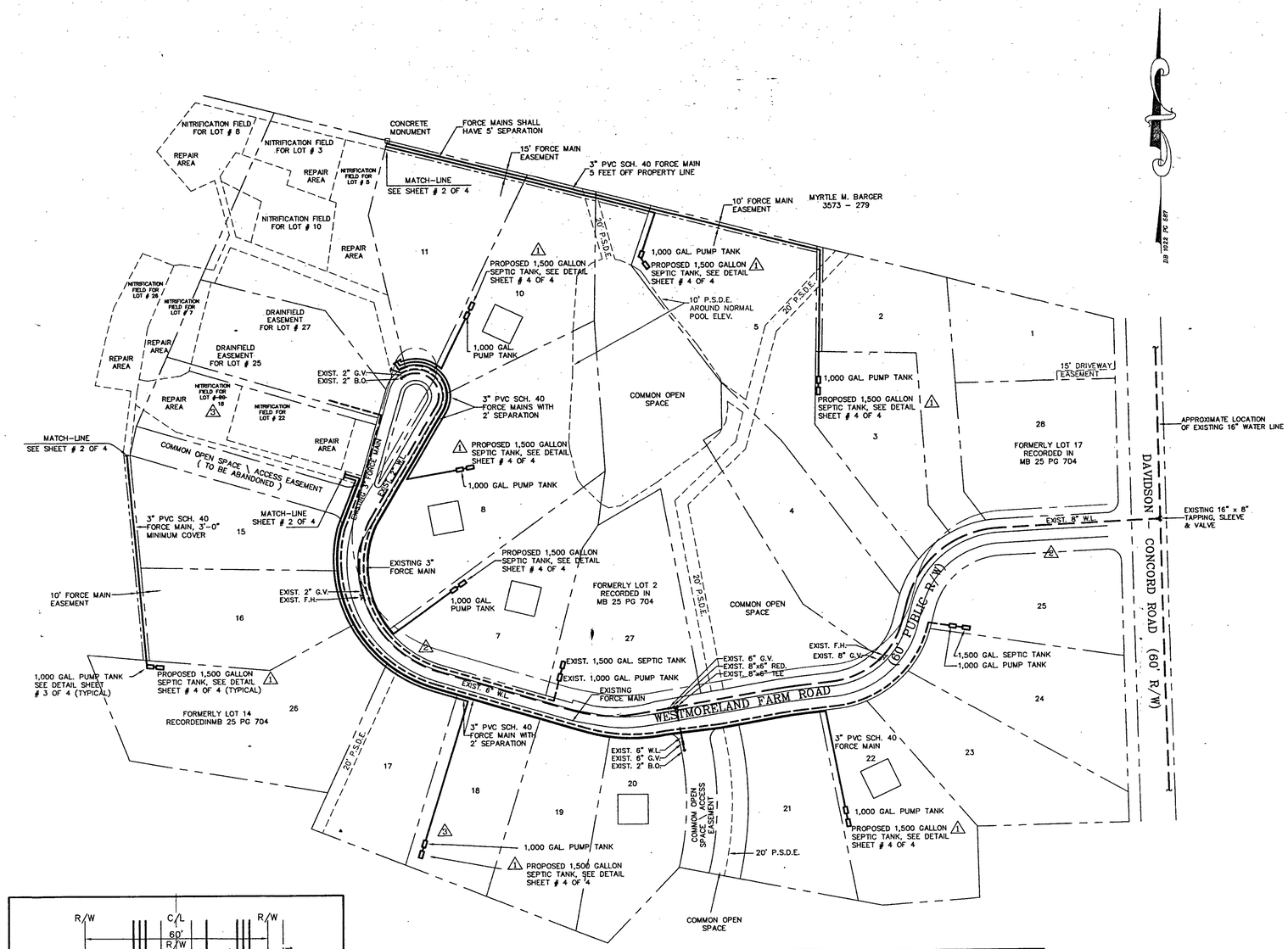
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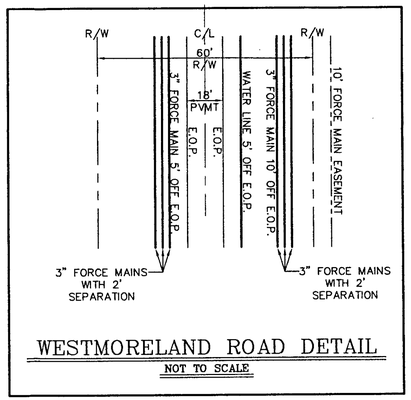
duponbj

Groundwater and Wastewater Services File Imaging Project
May 2007
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VICINITY MAP
NO SCALE





WESTMORELAND ROAD DETAIL
NOT TO SCALE

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

NOTES:

1) HOUSE LOCATION AND FLOOR PLAN NOT KNOWN AT THIS TIME.

2) LOCATION OF SEPTIC TANK AND PUMPING STATION APPROXIMATE AND ARE SUBJECT TO CHANGE. PUMP CONDITIONS MUST BE CHECKED ONCE EXACT LOCATION HAS BEEN DETERMINED BY HOMEOWNER.

3) CONTRACTOR SHALL STAKE EACH INDIVIDUAL NITRIFICATION LINE PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL NOTIFY MECKLENBURG COUNTY HEALTH DEPARTMENT FOR APPROVAL OF LINE LOCATIONS.

NORTH CAROLINA SEAL 9319 ENGINEER DANIEL H. KISER 7/12/98

NOTE: CONTRACTOR SHALL CONTACT " NORTH CAROLINA ONE CALL " AT 1-800-632-4949 FOR ASSISTANCE IN LOCATING ANY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

NO.	DATE	DESCRIPTION OF REVISIONS	MADE	APP.
3	5/14/98	NITRIFICATION FIELD #20 REVISED TO SERVE LOT #18	A.M.L.	J.M.M.
2	8/11/97	ADDED EDGE OF PVMN'T.	A.M.L.	F.C.C.
1	10/25/96	REV. PER MECKLENBURG COUNTY HEALTH DEPT.	A.M.L.	B.E.S.
		APPROVED		

JAMES W. HERRING

WESTMORELAND FARMS

DEWEESE TOWNSHIP, MECKLENBURG COUNTY, NORTH CAROLINA

SITE PLAN

DATE: 07/12/98
CONV. NO. C7054
SCALE: 1" = 100'
SHEET NO. 1 OF 4

FRANK C. COCKINOS & ASSOCIATES, INC.
CONSULTING ENGINEERS
600 LEXINGTON AVE., CHARLOTTE, N C 28205

DESIGN B.E.S., P.E.
DRAWN A.M.L.
PROJECT MANAGER F.C. COCKINOS, P.E.

P:\DRAFTING\C7054\10F4.DWG Fri May 15 09:02:42 1998

PYRAMID
LAND SURVEYING
RUFUS J. LOVE #2844
P.O. Box 11
Davidson, NC 28036
(704) 892-4249

NORTH
BASED ON MB. 26-459
1994

NOTES:

1. This property _____ located in a designated flood zone.
2. Area determined by coordinate computation.
3. CP denotes computed point, no monument found or set.
4. All distances are horizontal ground distances.
5. Property is subject to any right-of-ways and easements of record.
6. Underground utilities not located as of this date.
7. Elevations based on an assumed elevation, (rr spike=100')
8. This map does not represent a Boundary Survey, see references for basis of information.
9. Bearings on record map do not close.

REFERENCES:

1. Map Book 26-459
2. Drainfield survey by Pyramid Land Surveying for James Herring dated 12/30/94 and last revised on 9/25/95.

LEGEND

119 EXISTING CONTOUR
81.25' NITRIFICATION LINE
EASEMENT LINE

NOTE:
CONTRACTOR SHALL STAKE EACH INDIVIDUAL NITRIFICATION LINE PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL NOTIFY MECKLENBURG COUNTY HEALTH DEPARTMENT FOR APPROVAL OF LINE LOCATIONS.

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CONTRACTOR SHALL STAKE EACH INDIVIDUAL NITRIFICATION LINE PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL NOTIFY MECKLENBURG COUNTY HEALTH DEPARTMENT FOR APPROVAL OF LINE LOCATIONS.

NOTE: CONTRACTOR SHALL CONTACT " NORTH CAROLINA ONE CALL " AT 1-800-632-4949 FOR ASSISTANCE IN LOCATING ANY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

NO.	DATE	DESCRIPTION OF REVISIONS	MADE	APP.
1	6/23/98	REV. NITRIFICATION FIELD FOR LOT #26	A.M.L.	J.M.M.
2	5/14/98	NITRIFICATION FIELD #20 REVISED TO SERVE LOT #18	A.M.L.	J.M.M.
1	10/25/96	REV. PER MECKLENBURG COUNTY HEALTH DEPT.	A.M.L.	B.E.S.

APPROVED

JAMES W. HERRING

WESTMORELAND FARMS

DEWEESE TOWNSHIP, MECKLENBURG COUNTY, NORTH CAROLINA

NITRIFICATION FIELD LAYOUT

DATE: 7/12/96
COMM. NO. C7054
SCALE: 1" = 30'

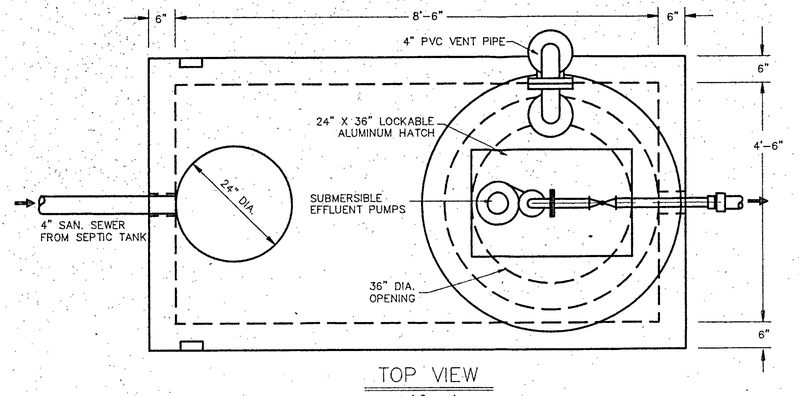
FRANK C. COCKINOS & ASSOCIATES, INC.
CONSULTING ENGINEERS
600 LEXINGTON AVE., CHARLOTTE, N C 28203

DESIGN B.E.S., P.E.
DRAWN C.F.C.
PROJECT MANAGER F.C. COCKINOS, P.E.

SHEET NO. 2 OF 4

NORTH CAROLINA REGISTERED LAND SURVEYOR 5464 H. L. MOOREFIELD, JR. 23 Jun 98

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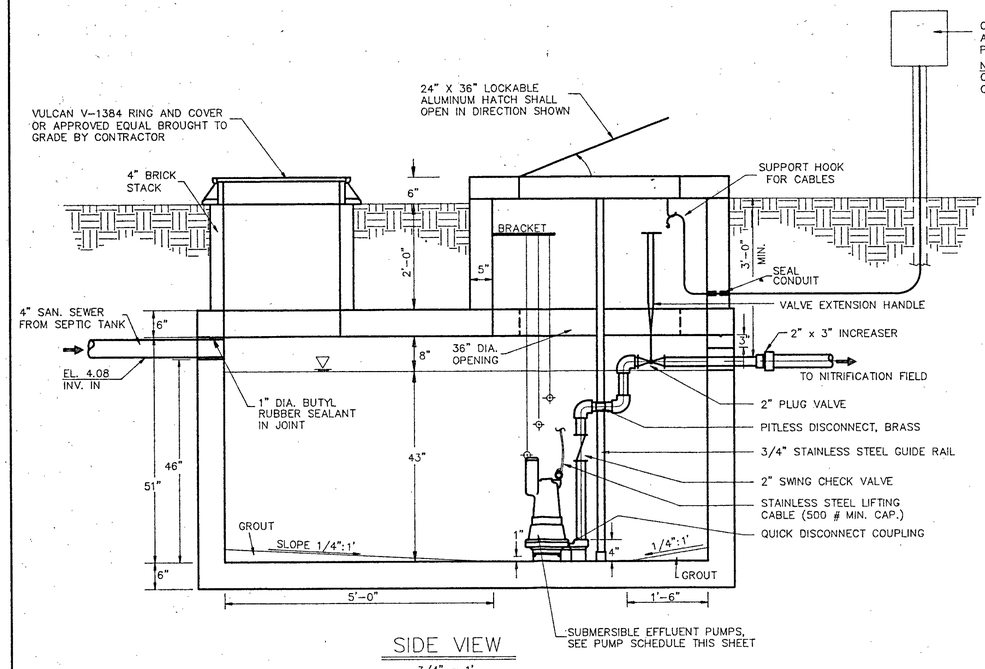
TOP VIEW

3/4" = 1'

PUMP SCHEDULE				
LOT	PUMP	FLOW (GPM)	TDH (FT)	HP
3	MYERS ME-50	45	43	1/2
5	MYERS ME-50	45	43	1/2
7	BARNES EH	48	36	1.0
8	BARNES EH	48	36	1.0
10	BARNES EH	48	36	1.0
~~20~~ 18	MYERS ME-75	45	51	3/4
22	MYERS ME-75	45	51	3/4
26	BARNES EH	45	36	1.0

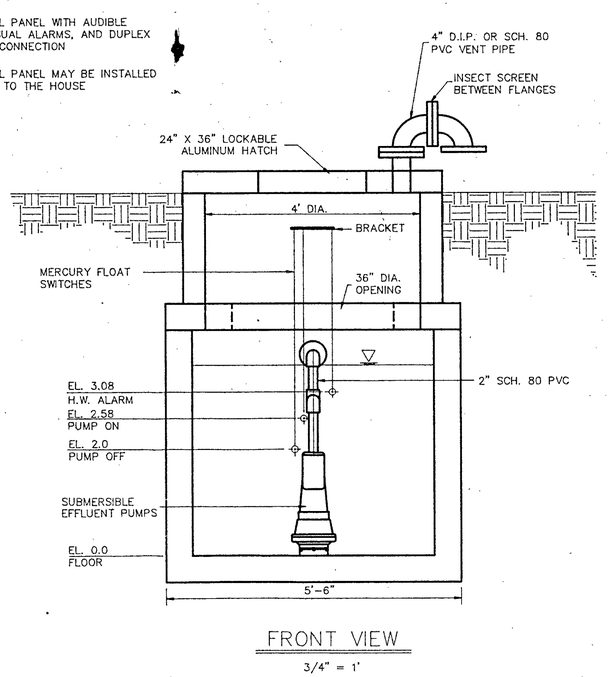
2

NOTE:
ONCE FINAL LOCATION OF PUMPING STATION IS DETERMINED. THE HOMEOWNER SHALL HAVE PUMP CONDITIONS VERIFIED PRIOR TO ORDERING PUMPS.



SIDE VIEW

3/4" = 1'



FRONT VIEW

3/4" = 1'

TECHNICAL SPECIFICATIONS
FOR
WESTMORELAND FARM
DAVIDSON, NORTH CAROLINA

PART 1. GENERAL

1.01 WORK

1. INSTALLATION OF FACILITIES SHALL CONFORM TO THE STANDARDS OF THE FOLLOWING SPECIFICATIONS AND THE LOCAL HEALTH DEPARTMENT.

2. CONTRACTOR SHALL BE REGISTERED WITH LOCAL HEALTH DEPARTMENT FOR INSTALLING SANITARY SEWAGE SYSTEMS.

3. CONTRACTOR SHALL BE AUTHORIZED IN WRITING BY THE MANUFACTURER TO INSTALL THE CHAMBER TRENCH SYSTEM. MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED.

4. NITRIFICATION FIELDS IN WOODED AREAS SHALL BE CLEARED ONLY, NO GRUBBING OR STUMP REMOVAL. HEAVY EQUIPMENT SHALL NOT BE ALLOWED ON NITRIFICATION FIELDS.

5. TRENCHES SHALL BE KEPT AS NARROW AS POSSIBLE AND SHALL NOT EXCEED 36-INCHES. ALL TRENCHES SHALL BE HAND-TAMPED TO ONE (1) FOOT ABOVE THE PIPE. THE REMAINDER OF THE DITCH SHALL BE BACKFILLED IN SIX TO EIGHT INCH LIFTS AND TAMPED WITH MECHANICAL TAMPERS.

   NITRIFICATION TRENCHES SHALL BE LEVEL AND FOLLOW THE EXISTING CONTOURS.

   PVC GRAVITY SEWER LINES SHALL BE BEDDED IN STONE (NCDOT #5); FOUR (4) INCHES SHOULD BE PLACED BENEATH THE PIPE. ADDITIONAL STONE SHALL BE PLACED TO THE SPRING LIEN OF THE PIPE, AFTER IT HAS BEEN FIRMLY FIXED IN THE INITIAL FOUR-INCH LAYER.

6. ROCK SHALL BE REMOVED FROM TRENCHES TO A DEPTH SIX (6) INCHES BELOW THE BARREL AND BELL OF ALL PIPE. TRENCH SHALL BE BACKFILLED WITH CLEAN MATERIAL OBTAINED FROM ON-SITE SOURCES. NO EXCAVATED ROCK SHALL BE USED IN THE FIRST TWO (2) FEET OF BACKFILL. ROCK EXCAVATION SHALL BE PAID FOR ON A UNIT PRICE BASIS FOR EACH CUBIC YARD REMOVED WITH PRIOR APPROVAL OF THE OWNER.

7. SOIL EROSION AND SEDIMENTATION CONTROL SHALL BE PROVIDED WHICH MAY INCLUDE BUT NOT BE LIMITED TO SILT FENCES, DITCH PROTECTION AND SEEDING. CONTRACTOR SHALL BE RESPONSIBLE FOR SOIL EROSION PROTECTION DEVICES, FURNISHED AT HIS EXPENSE, WHERE SEEDING DOES NOT FOLLOW PIPE LAYING.

PART 2. SEWER LINES

2.01 SEWER MAINS

PIPE FOR SEWER MAINS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS FOR THE TYPE OF PIPE SHOWN ON THE DRAWINGS.

1. DUCTILE IRON PIPE
   DUCTILE IRON PIPE FOR SEWERS SHALL CONFORM TO ANSI A21.51 FOR TYPE 2 LAYING CONDITIONS, SUITABLE FOR 16-FEET OF COVER OVER THE PIPE. DUCTILE IRON PIPE 4-INCHES IN DIAMETER AND SMALLER SHALL BE CLASS 51; PIPE 6-INCHES AND LARGER SHALL BE CLASS 50 FOR BURIED SERVICE. PIPE JOINTS SHALL BE RUBBER-GASKET, PUSH-ON JOINTS AS DESCRIBED IN ANSI A21.11. MECHANICAL JOINTS CONFORMING TO ANSI A21.22 SHALL BE USED WHERE SHOWN ON THE DRAWINGS. ALL EXPOSED INTERIOR DUCTILE IRON PIPE SHALL BE CLASS 53, THREADED AND FLANGED CONFORMING TO ANSI A21.15.

   FITTINGS SHALL BE MECHANICAL JOINT, CLASS 350, DUCTILE IRON, EQUAL TO OR EXCEEDING CLASS 53 PIPE THICKNESS, CONFORMING TO AWWA C-110 OR C-153. FLANGED JOINTS, CLASS 125, WITH FULL FACE RUBBER GASKETS SHALL CONFORM TO AWWA C-110. FITTING ACCESSORIES SHALL CONFORM TO THE FITTING AND PIPE SPECIFICATIONS ABOVE.

   ALL EXTERIOR SURFACES OF DUCTILE IRON SEWER PIPE AND FITTINGS FOR UNDERGROUND INSTALLATION SHALL BE GIVEN A COAT OF BITUMINOUS COATING APPROXIMATELY 1-MIL THICK. ALL PIPE AND FITTINGS SPECIFIED FOR EXPOSED, INTERIOR INSTALLATION AND TO BE PAINTED SHALL NOT BE BITUMINOUS COATED.

2. POLYVINYL CHLORIDE PIPE (PVC)
   PVC SCHEDULE 40 AND 80 PIPE SHALL CONFORM TO ASTM D-1785. SCHEDULE 40 FITTINGS SHALL CONFORM TO ASTM D-2466, SCHEDULE 80 SOCKET FITTINGS TO ASTM 3-2467 AND ASTM D-2464 FOR THREADED SCHEDULE 80 FITTINGS. BOTH PIPE AND FITTINGS SHALL BE THE PRODUCT OF ONE MANUFACTURER. GLUED JOINTS ARE NOT AN OPTION.

3. BRACING, SUPPORTING AND ANCHORING PIPE
   ALL FORCE MAIN INSTALLED UNDER THIS CONTRACT SHALL BE ADEQUATELY SECURED AGAINST MOVEMENT BY THE USE OF METAL PIPE SUPPORTS, HANGERS, TIES, INSERTS, CLAMPS OR CONCRETE PIERS AND BLOCKING. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO SECURE PIPING AS REQUIRED OR DIRECTED TO PROVIDE A COMPLETE AND WORKING INSTALLATION AT CONTRACTOR'S EXPENSE.

   ALL BURIED FORCE MAIN FITTINGS AT BENDS SHALL BE FIRMLY WEDGED BETWEEN THE FITTINGS AND THE UNDISTURBED VERTICAL FACE OF THE TRENCH, WITH CLASS 3000 CONCRETE OR RESTRAINED WITH STEEL RODS IN ORDER TO PREVENT THE FITTINGS FROM BEING BLOWN OFF THE LINE WHEN UNDER PRESSURE. BLOCKING SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C-600.

   EXPOSED FLANGE PIPING SHALL BE SECURED BY USE OF HANGERS, BRACKETS, SUPPORTS, PIERS OR CONCRETE BLOCKING IN SUCH A MANNER THAT VALVES AND EQUIPMENT CAN BE REMOVED FROM THE PIPING WITHOUT THE NECESSITY FOR TEMPORARY BLOCKING OR SUPPORT OF THE REMAINING PIPING. TIE RODS AND CLAMPS SHALL BE PLACED IN THE FORMS BEFORE CONCRETE IS POURED. EACH LENGTH AND EVERY FITTING OF PIPING SHALL BE SUPPORTED BY AT LEAST ONE HANGER, APPLIED AT THE BELL.

4. PRESSURE AND LEAKAGE TESTS
   FINAL CONNECTION TO THE EXISTING SYSTEM TO BE MADE ONLY AFTER COMPLETION OF TESTING.

   HYDROSTATIC TESTING SHALL BE DONE IN ACCORDANCE WITH AWWA C-600, SECTION 4. NO PIPE INSTALLATION WILL BE ACCEPTED IF THE LEAKAGE IS GREATER THAN THAT DETERMINED BY THE FOLLOWING FORMULA:

$$L = \frac{SD\sqrt{P}}{133{,}200}$$

   WHERE L IS THE ALLOWABLE LEAKAGE, IN GALLONS PER HOUR; S IS THE LENGTH OF PIPE TESTED, IN FEET, D IS THE NOMINAL DIAMETER OF THE PIPE, IN INCHES; AND P IS THE AVERAGE TEST PRESSURE DURING THE LEAKAGE TEST, IN POUNDS PER SQUARE INCH GAUGE.

PART 3. PUMPING STATION

3.01 GENERAL

CONTRACTOR SHALL INSTALL A 4-FOOT DIAMETER WETWELL FOR THE PUMPING STATION AS SHOWN ON THESE DRAWINGS. THE PRINCIPAL ITEMS OF EQUIPMENT SHALL INCLUDE ONE (1) SUBMERSIBLE SEWAGE PUMP, INTERNAL PIPING, CONTROL PANEL WITH CIRCUIT BREAKER, MOTOR STARTER AND AUTOMATIC PUMPING LEVEL CONTROLS, HIGH WATER ALARM HORN AND LIGHT WITH SILENCE SWITCH, AND ALL INTERNAL WIRING. SERVICE VOLTAGE SHALL BE 208.

3.02 OPERATING CONDITIONS

SEE PUMP SCHEDULE ON DRAWINGS FOR OPERATING CONDITIONS FOR EACH LOT. THE PUMP SHALL BE NON-OVERLOADING THROUGHOUT THE CURVE.

THE CONTROL SEQUENCE SHALL BE SUCH THAT AN INCREASE IN LIQUID LEVEL ABOVE A SPECIFIED ELEVATION IN THE WETWELL SHALL START THE PUMP. PUMP SHALL CONTINUE TO OPERATE UNTIL THE LEVEL IN THE WETWELL FALLS BELOW A SPECIFIED LOW WATER ELEVATION AND THEN SHUT OFF. SHOULD THE LIQUID LEVEL IN THE WETWELL CONTINUE TO RISE ABOVE THE SPECIFIED HIGH WATER LEVEL AN AUDIBLE ALARM SHALL SOUND AND A VISUAL ALARM SHALL LIGHT. IT SHALL BE POSSIBLE TO MANUALLY SILENCE THE AUDIBLE ALARM, BUT THE VISUAL ALARM SHALL REMAIN LIGHTED UNTIL THE CONDITION IS CORRECTED. SHOULD THE PUMP EXPERIENCE ABNORMALLY HIGH OPERATING TEMPERATURE, A HEAT SENSOR IN THE MOTOR WINDINGS SHALL OPERATE TO STOP THE AFFECTED PUMP. WHEN THE TEMPERATURE FALLS TO AN ACCEPTABLE LEVEL, THE SENSOR SHALL AUTOMATICALLY RESET AND ALLOW THE PUMP TO OPERATE NORMALLY.

3.03 MOTOR

PUMP MOTOR SHALL BE THE SEALED SUBMERSIBLE TYPE. SEE PUMP SCHEDULE FOR HORSEPOWER. MOTOR SHALL OPERATE AT 3450 RPM, THREE-PHASE, 208-VOLTS, 60-HERTZ. STATOR WINDING SHALL BE OF THE OPEN TYPE, WITH CLASS B INSULATION RATED FOR 130 C MAXIMUM OPERATING TEMPERATURE. WINDING HOUSING SHALL BE FILLED WITH CLEAN DIELECTRIC OIL, MAKING IT CAPABLE OF OPERATING IN A TOTALLY, PARTIALLY OR NON-SUBMERGED CONDITION FOR EXTENDED PERIODS OF TIME WITHOUT DAMAGE DUE TO THE HEAT BEING GENERATED. THE MOTOR SHALL BE OF 416 STAINLESS STEEL, AND MEET THE STANDARD NEMA DESIGN B FOR THREE-PHASE.

THE MOTOR SHALL BE EQUIPPED WITH HEAT SENSING THERMOSTATS EMBEDDED IN THE MOTOR WINDING TO SENSE EXCESSIVE OPERATING TEMPERATURES. THE PUMP (MOTOR FOR SUBMERSIBLE AND CLOSE COUPLED DESIGNS) SHAFT BEARINGS SHALL BE DESIGNED FOR A MINIMUM ANSI B-10 LIFE OF 40,000 HOURS WHEN THE PUMP IS OPERATING AT 25 PERCENT OF THE BEST EFFICIENCY POINT CAPACITY FOR THE IMPELLER DIAMETER SUPPLIED AT THE MAXIMUM SPEED OF OPERATION.

3.04 LIQUID LEVEL SENSORS

FURNISH THREE (3) MERCURY LIQUID LEVEL SENSOR FLOAT SWITCHES WITH 25-FEET OF ELECTRICAL CABLE. LEVEL SENSORS SHALL BE A NON-FLOATING, DISPLACEMENT TYPE. LEVEL SENSORS SHALL BE RATED FOR OPERATIONS AT MILLIWATT LEVELS.

3.05 LIFT-OUT RAIL SYSTEM

RAIL SYSTEM SHALL BE FURNISHED BY THE PUMP MANUFACTURER FOR A SIMPLEX PUMP SYSTEM INSTALLED IN A CONCRETE PUMPING STATION BY THE CONTRACTOR.

3.06 VALVES

VALVES FURNISHED AS PART OF THE PUMPING STATION PACKAGE QUOTED BY A MANUFACTURER SHALL BE THE RESPONSIBILITY OF THAT MANUFACTURER. ALL OTHER VALVES NOT INCLUDED IN THE PUMPING STATION PACKAGE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

1. PLUG VALVE
   PLUG VALVE SHALL BE NON-LUBRICATED, CAST IRON BODY, ECCENTRIC TYPE WITH RESILIENT FACED PLUG WITH A FULL PORT AREA OF 100% OF THE PIPE FOR BURIED OR EXPOSED SERVICE ADAPTED FOR WRENCH OPERATION, OR WITH OPERATING LEVER FOR EXPOSED VALVE. VALVE SHALL BE FURNISHED WITH A WELDED OVERLAY SEAT OF NOT LESS THAN 90% PURE NICKEL. LEVEL ACTIVATOR SHALL BE CAPABLE OF LATCHING IN 10 DEGREE INCREMENTS FROM FULL OPEN TO FULL CLOSED POSITION. VALVE SHALL HAVE AN EXTENSION HANDLE. VALVE ENDS SHALL BE COMPATIBLE TO THE TYPE OF PIPE INDICATED ON THE DRAWINGS. VALVE SHALL BE DEZURIK SERIES 100 ECCENTRIC VALVE, OR APPROVED EQUAL.

2. CHECK VALVE
   CHECK VALVE SHALL BE SWING CHECK CAST IRON BODY, FULLY BRONZE MOUNTED WITH BRONZE DISC, SPRING LOADED, RATED FOR 175 PSI WORKING PRESSURE.

3.07 PUMPING STATION

THE TANK SHALL BE A 1,000 GALLON PRECAST CONCRETE TANK MANUFACTURED BY STAY RIGHT TANK COMPANY OR APPROVED EQUAL. THE TANK SHALL CONFORM TO 4,000 PSI CONCRETE WITH 6"x6"x10/10 WWM ON ALL FACES. TANK SHALL BE CONSTRUCTED WITHOUT A BAFFLE. RINGS AND COVERS SHALL BE BROUGHT TO GRADE BY CONTRACTOR.

NORTH CAROLINA PROFESSIONAL SEAL 022009 ENGINEER BRYAN E. SMITH — 10/25/96

NO.	DATE	DESCRIPTION OF REVISIONS	MADE	APP.
2	5/4/98	NITRIFICATION FIELD #20 REVISED TO SERVE LOT #18	A.M.L.	J.M.M.
1	10/25/96	REV. PER MECKLENBURG COUNTY HEALTH DEPT.	A.M.L.	B.E.S.

APPROVED

JAMES W. HERRING

WESTMORELAND FARMS

DEWEESE TOWNSHIP, MECKLENBURG COUNTY, NORTH CAROLINA

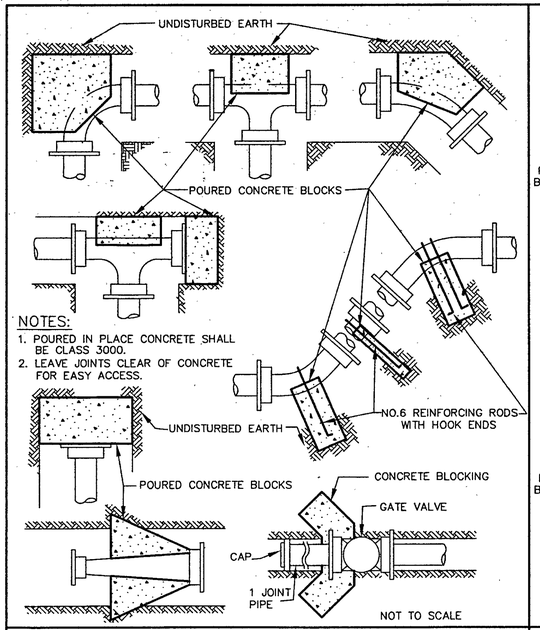
PUMPING STATION & SPECIFICATION

DATE: 07/12/96
COMM. NO. C7054
SCALE: AS SHOWN

FRANK C. COCKINOS & ASSOCIATES, INC.
CONSULTING ENGINEERS
600 LEXINGTON AVE., CHARLOTTE, N C 28203

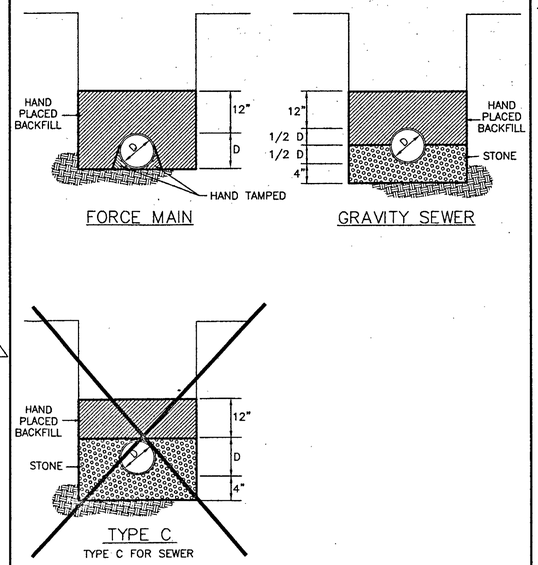
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DRAWN A.M.L.
PROJECT MANAGER F.C. COCKINOS, P.E.

SHEET NO. 3 OF 4



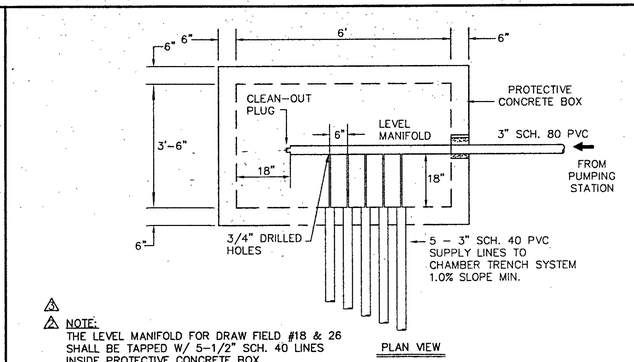
CONCRETE BLOCKING

STANDARD DWG. NO. 10-1



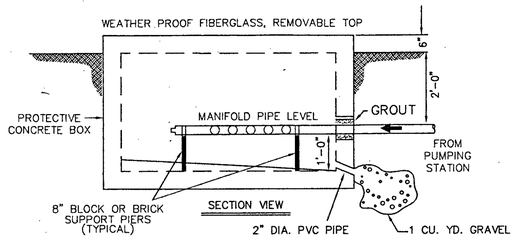
TRENCH BEDDING

STANDARD DWG. NO. 20-13



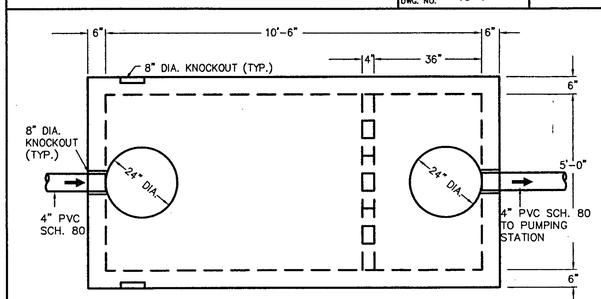
⚠
⚠ NOTE:
THE LEVEL MANIFOLD FOR DRAW FIELD #18 & 26 SHALL BE TAPPED W/ 5-1/2" SCH. 40 LINES INSIDE PROTECTIVE CONCRETE BOX.

PLAN VIEW

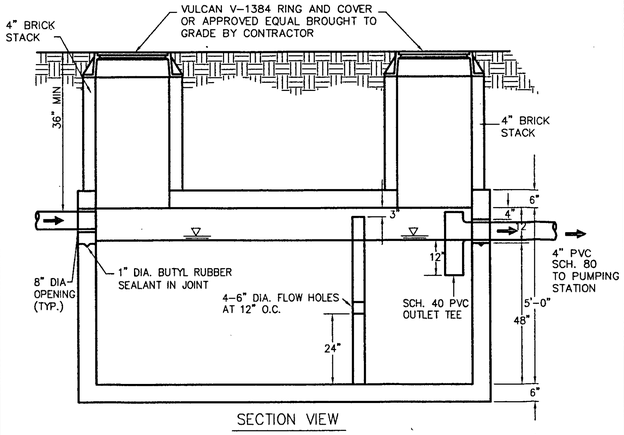


PRESSURE MANIFOLD DETAIL

SCALE: 1/2" = 1'-0"



PLAN VIEW

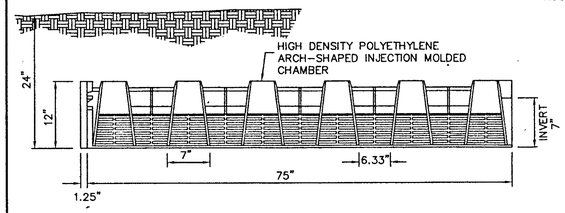


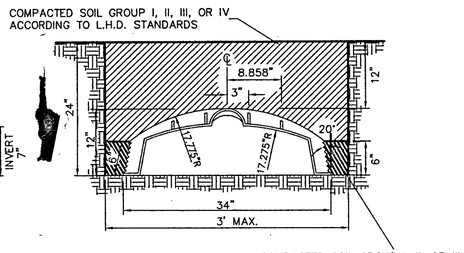
SECTION VIEW

NOTE:
SEPTIC TANK SHALL BE MANUFACTURED BY STAY-RIGHT TANK OR OTHERS ON LOCAL HEALTH DEPARTMENTS APPROVED LIST.

1500 GALLON SEPTIC TANK ⚠

SCALE: 1/2" = 1'-0"





NOTES:

1. NO EXCAVATION EQUIPMENT SHALL TRAVEL OVER CHAMBER SYSTEM.
2. INDIVIUAL CHAMBER TRENCHES SHALL BE CONSTRUCTED LEVEL IN ALL DIRECTIONS AND SHALL FOLLOW CONTOURS OF THE GROUND.
3. CONTRACTOR TO INSTALL CHAMBER TRENCH SYSTEM ACCORDINLY TO MANUFACTURER'S INSTALLATION INSTRUCTIONS EXCEPT AS REQUIRED BY THE LOCAL HEALTH DEPARTMENT (L.H.D.).
4. SYSTEM SHALL BE INSTALLED BY CONTRACTOR AUTHORIZED IN WRITING BY MANUFACTURER.

STANDARD CHAMBER TRENCH SYSTEM

NOT TO SCALE

SEEDBED PREPARATION NOTES

1. SURFACE WATER CONTROL MEASURES TO BE INSTALLED ACCORDING TO PLAN.
2. AREAS TO BE SEEDED SHALL BE RIPPED AND SPRED WITH AVAILABLE TOPSOIL 3" DEEP. TOTAL SEEDBED PREPARED DEPTH SHALL BE 4" TO 6" DEEP.
3. LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS SHALL BE REMOVED FROM THE SURFACE SO THAT THEY WILL NOT INTERFERE WITH ESTABLISHMENT AND MAINTENANCE OF VEGETATION. SURFACE FOR FINAL SEEDBED PREPARATION, AT FINISH GRADES SHOWN, SHALL BE REASONABLY SMOOTH AND UNIFORM.
4. IF NO SOIL TEST IS TAKEN, FERTILIZER AND LIME TO BE ACCORDING TO SEEDING SPECIFICATIONS ON PLAN.
5. IF SOIL TEST IS TAKEN, PROVIDE LIME AND FERTILIZER ACCORDING TO SOIL TEST REPORT.
6. LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY AND MIXED WITH THE SOIL DURING SEEDBED PREPARATION.

SEEDING SPECIFICATIONS

GRASS:	KENTUCKY FESCUE # 31	80 LB./AC. (ADD 30 LB./AC. RYE-GRAIN NOV. thru FEB.)
FERTILIZER:	10-10-10	1,000 LB./AC.
	0-20-0	500 LB./AC.
LIME:		2T / AC.
MULCH:	SMALL GRAIN	1 1/2T / AC.
EMULSIFIED TACK		225 GAL./AC.

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER 5444 23 Jun 98 H. L. MOOREFIELD, JR.

JAMES W. HERRING

WESTMORELAND FARMS

DEWEESE TOWNSHIP, MECKLENBURG COUNTY, NORTH CAROLINA

STANDARD DETAILS

DATE: 07/12/96
COMM. NO. C7054
SCALE: AS SHOWN

NO.	DATE	DESCRIPTION OF REVISIONS	MADE	APP.
⚠	6/23/98	REV. PER MECKLENBURG COUNTY HEALTH DEPT.	A.M.L.	J.M.M.
⚠	5/26/98	REV. PER MECKLENBURG COUNTY HEALTH DEPT.	A.M.L.	J.M.M.
⚠	10/25/96	REV. PER MECKLENBURG COUNTY HEALTH DEPT.	A.M.L.	B.E.S.

APPROVED

FRANK C. COCKINOS & ASSOCIATES, INC.
CONSULTING ENGINEERS
600 LEXINGTON AVE., CHARLOTTE, N C 28203

DESIGN B.E.S., P.E.
DRAWN A.M.L.
PROJECT MANAGER F.C. COCKINOS, P.E.

SHEET NO. 4 OF 4

P:\DRAFTING\C7054\40F4.DWG Tue Jun 23 11:40:47 1998