



**Howard County
Health Department**

Bureau of Environmental Health
8930 Stanford Boulevard, Columbia, MD 21045
Main: 410-313-2640 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
Facebook: www.facebook.com/hocohealth

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 6-28-19

ONSITE SEWAGE DISPOSAL SYSTEM

P 565538

APPROVAL DATE: 09/20/2009
~~5-20-19~~

PERMIT: CONSTRUCTION

A _____

PROPERTY ADDRESS: 13804 Mill Creek Court

SUBDIVISION: Crawford & O'Keefe LOT: 1 TAX ID: _____

CONTRACTOR: South Carroll Backhoe EMAIL: scbackhoe@comcast.net

CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157 PHONE: (410) 596-3618

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: MDE MANUFACTURER:

PROPERTY OWNER: NVR Inc. EMAIL: _____

OWNER ADDRESS: 9720 Patuxent Woods Drive, Columbia, MD 21046 PHONE: 410-379-5956

SEPTIC TANK SIZE: 2000 GALLON Pump Tank TANK
Size 1500 MANUFACTURER: BABYLON

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: _____ DATE RECORDED: _____

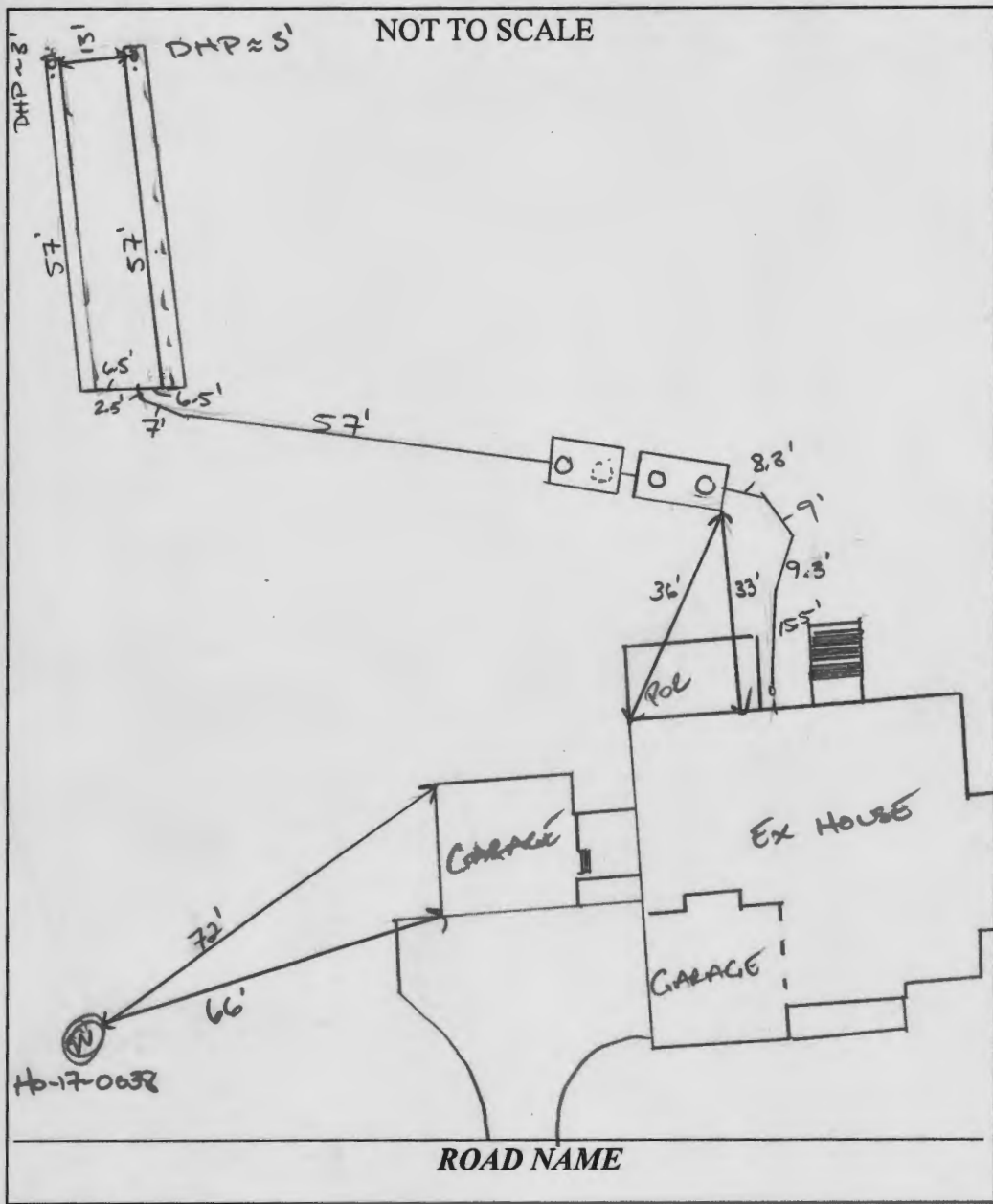
DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>113.8</u>	INLET DEPTH: <u>3.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Install per plan. Low Pressure Dose System.	

ISSUED BY: Dana Bernard ISSUE DATE: 6-28-19 EXPIRATION DATE: 6-28-20

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRAIDENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM
 ELECTRICAL PERMIT ISSUED E 19003770
- NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.
CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

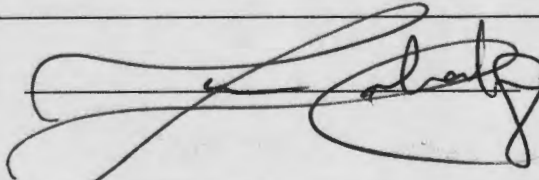


TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3	3.5'	7
NUMBER OF TRENCHES		2
TOTAL LENGTH		114 F
ABSORPTION AREA		342 SF
DISTRIBUTION BOX LEVEL		N/A
DISTRIBUTION BOX BAFFLE		-
DISTRIBUTION BOX PORT		-

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	2'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	05/20/2019
PUMP/SEPTIC TANK LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	2.5
BAFFLES	-
BAFFLE FILTER	-
MANHOLE LOC	OUTLET
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	-
DATE ON LID	6/3/2019

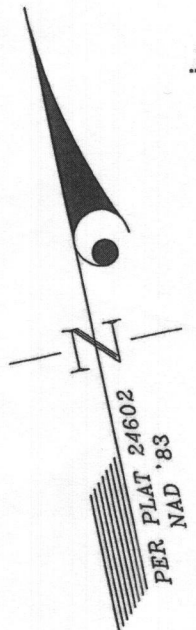
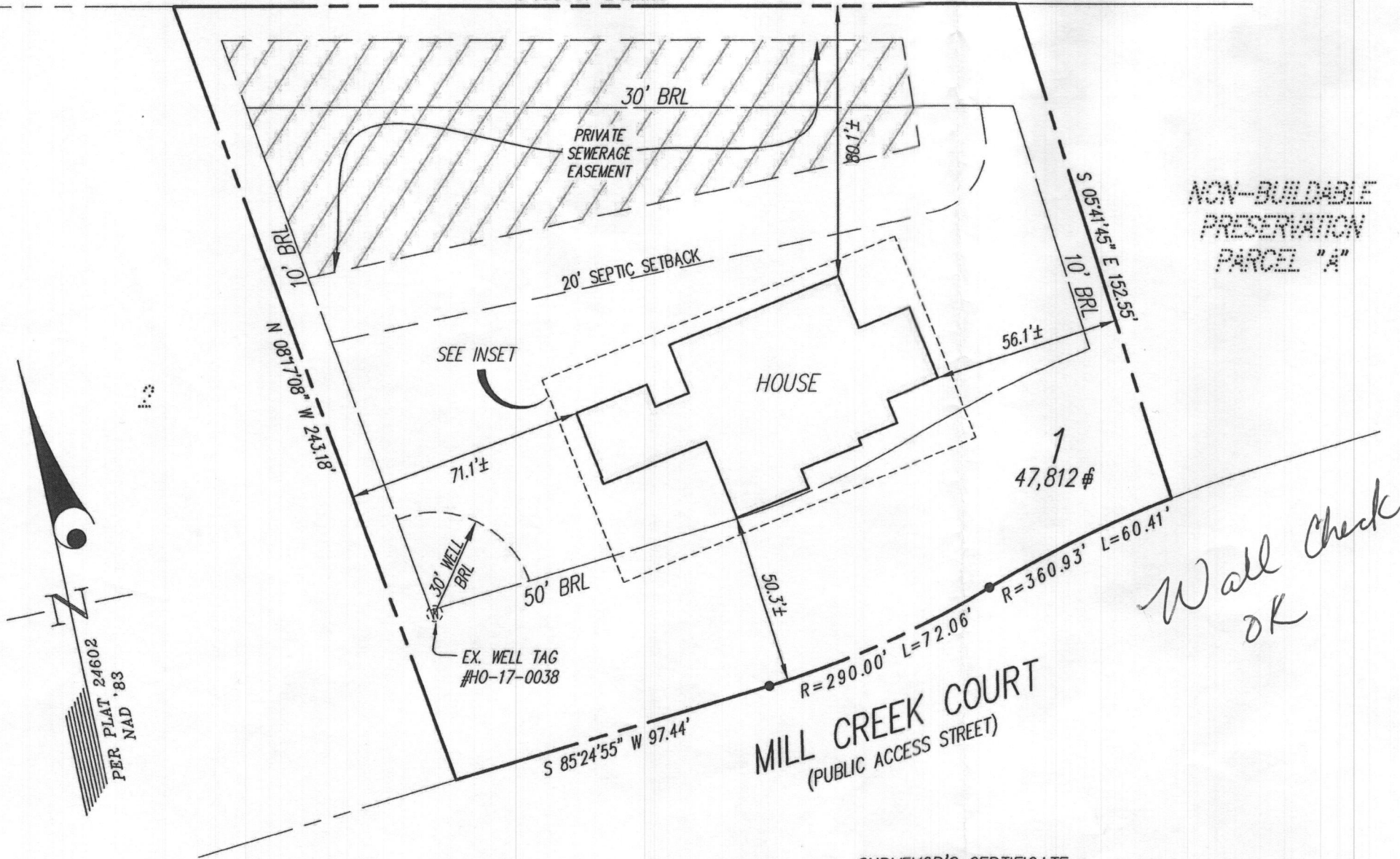
PRE-CONSTRUCTION: 07/09/2019 TANK, SIA, TRENCHES STAKED. CONFIRMED CONTOUR ST STAKES KNECKED DOWN. OK TO START. UPPER TRENCH 5.5' HIGHER ON DISTAL END. 9" HIGHER DISTAL END OF LOWER TRENCH. TRENCHES ARE ON A SLIGHT CREST/BUTT. SPLIT DIFFERENCE ON LOWER TRENCH.

INSTALLATION: 7/10/2019 TRENCHED AND LATERALS COMPLETE. HOLE SPACING INSPECTED ON LOWER TRENCH. CONFIRMED VERBALLY UPPER IS SAME. 7/11/2019 TANKS SET. 7/12/2019 SHC AND P/A. SEWER LINE INSTALLED TO TANK. FORCE MAIN AND DISTAL HEAD PRESSURE CHECKED VIA GENERATOR. REINSP. SHC AND P/A. 09/20/2019 SHC OBSERVED. ELECTRICAL CONFIRMED ON SEP. BREAKERS. VIA CONTRACTOR CORP.

FINAL INSPECTOR  DATE OF APPROVAL 09/20/2019

STATE OF MARYLAND,
DEPARTMENT OF NATURAL RESOURCES
LIBER 939 FOLIO 287

S 78°05'51" E 251.35'



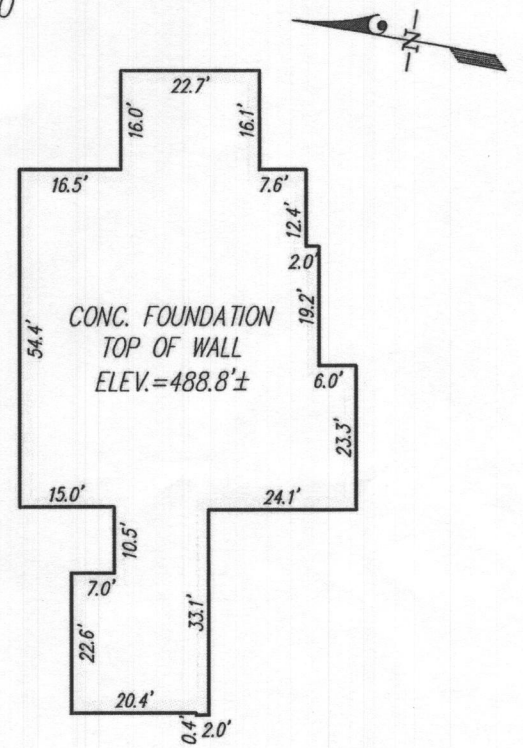
NOTES:
THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS-OF-WAY, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED.
THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.

THE PROPERTY SHOWN HEREON LIES WITHIN ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON THE F.E.M.A. FLOOD INSURANCE RATE MAP, MAP NUMBER 24027C0140D, EFFECTIVE DATE NOVEMBER 6, 2013.

BUILDING SETBACKS (B.R.L.'S) SHOWN HEREON PER PLOT PLAN.

SETBACK DISTANCES SHOWN HEREON ARE TO THE OUTERMOST FACE OF THE FOUNDATION WALLS AND HAVE AN ACCURACY OF ± 0.1' FOOT.

INSET 1"=30'



Wall Check
OK

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY TO:
'NVR, INC.'

THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF,
THE POSITION OF THIS BUILDING FOUNDATION
HAS BEEN ESTABLISHED BY ACCEPTED FIELD PRACTICES.

[Signature] 6/19/2019
For Gutschick, Little and Weber, P.A.:
Thomas C. O'Connor, Jr.,
Professional Land Surveyor, No. 10954 (EXP. DATE: 07/03/2020)

THIS WALLCHECK IS VALID ONLY WITH AN ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE SURVEYOR.

WALLCHECK
(SPECIAL PURPOSE SURVEY)

CRAWFORD SUBDIVISION

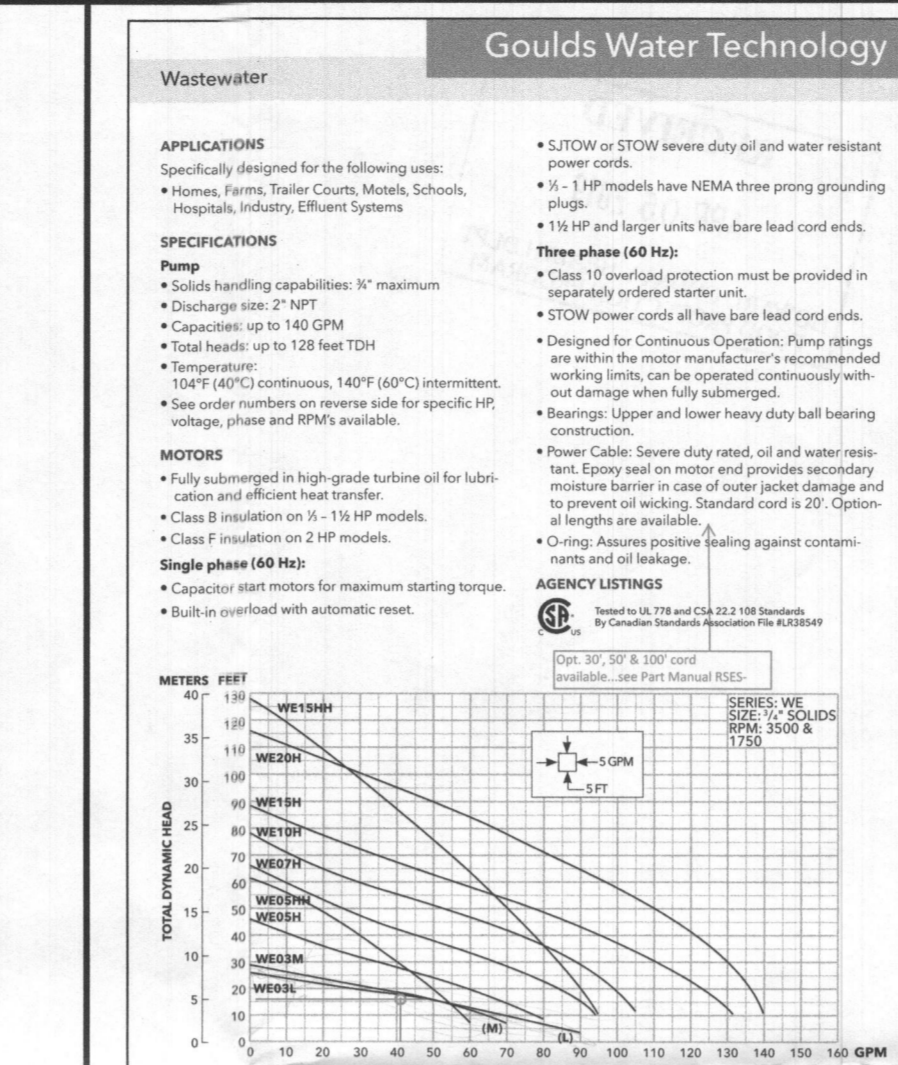
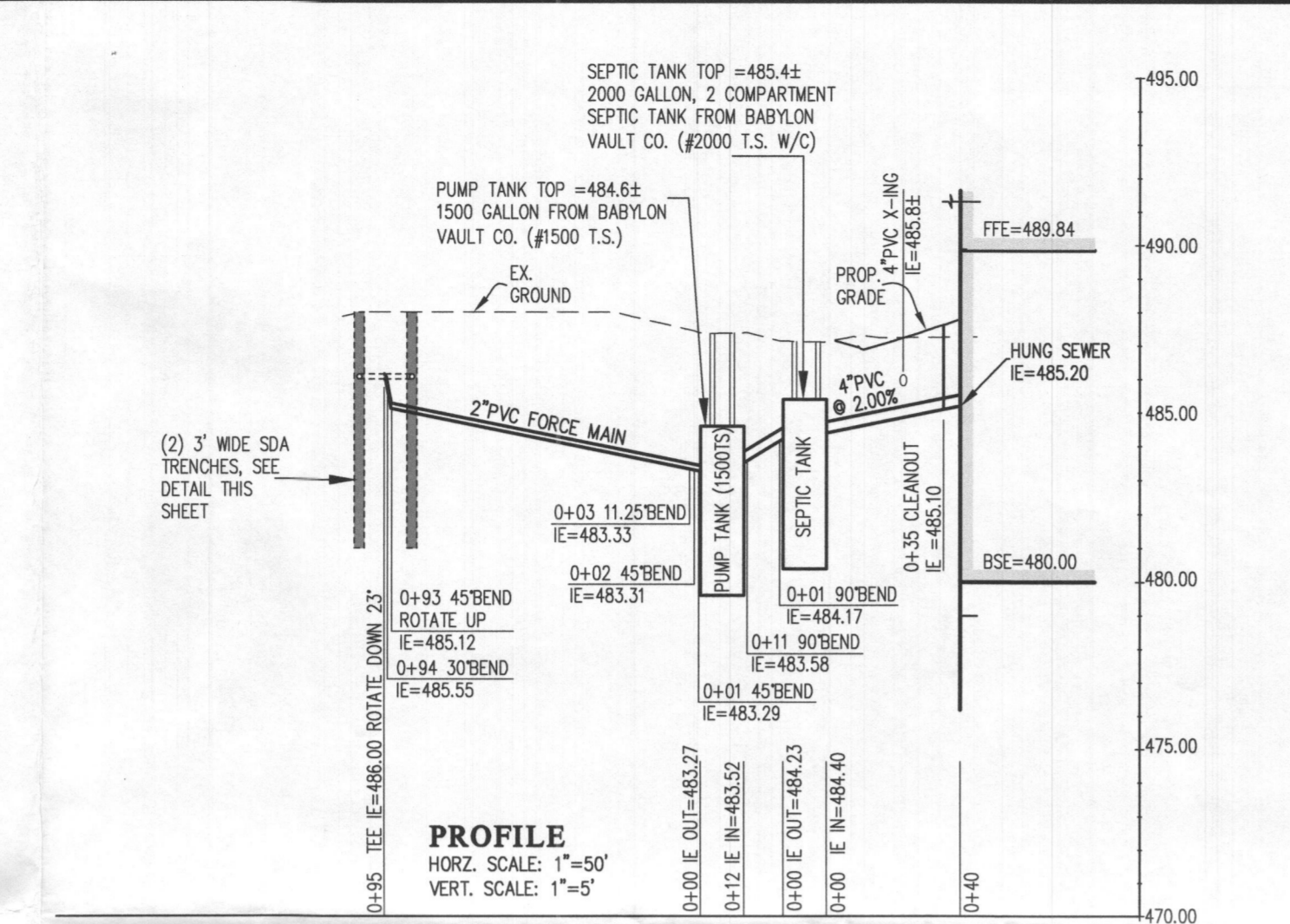
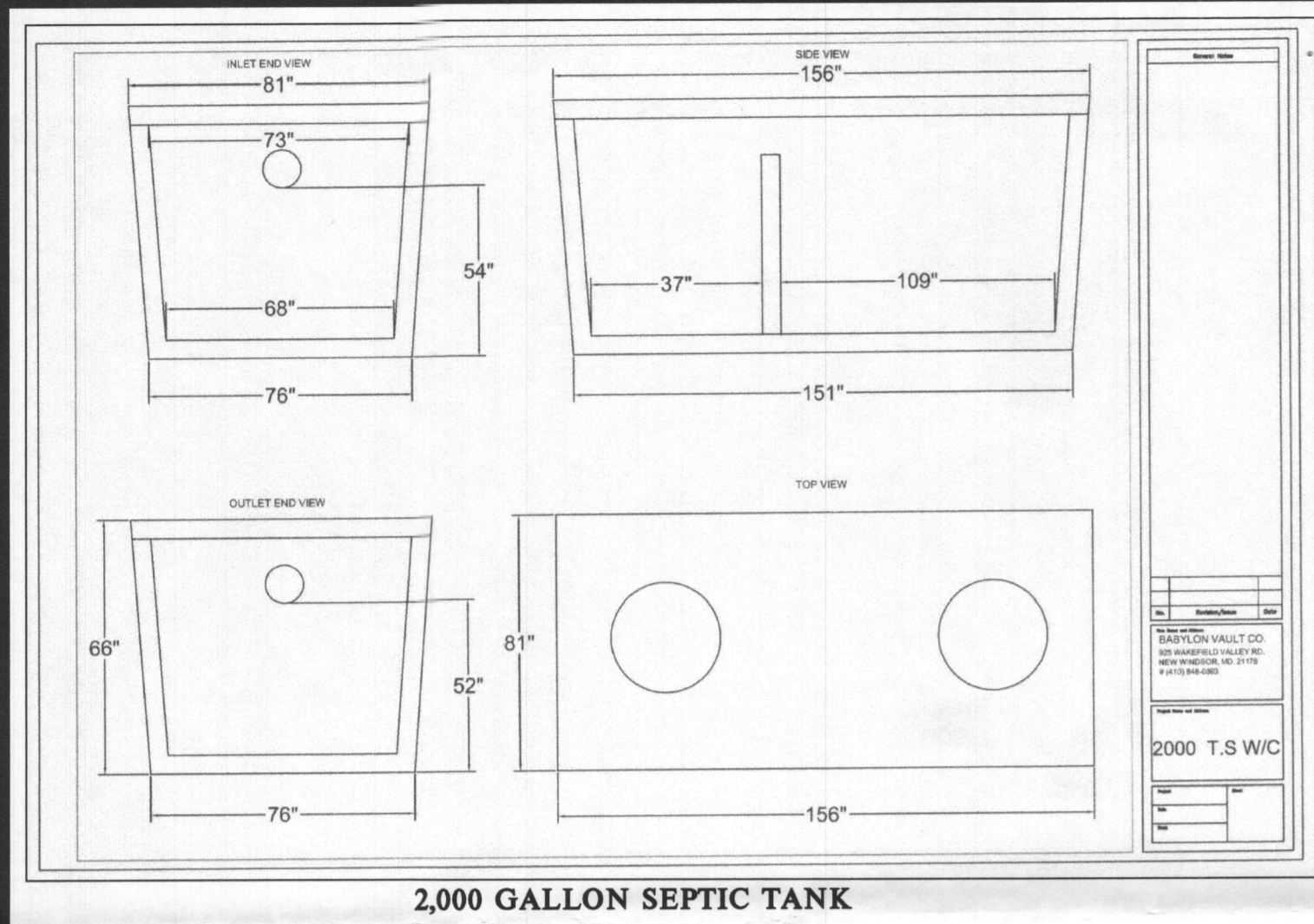
LOT 1
13804 MILL CREEK COURT

HOWARD COUNTY, MARYLAND	
DATE OF LATEST FIELD WORK: 6/18/2019	G.L.W. FILE No. 17071
REFERENCE: PLAT No.: 24602	SCALE: 1"=40'

S:\Survey Drawings\WALLCHECK\MILL CREEK-1707\WCK-1.dwg, 6/19/2019 3:02:09 PM, morgantb, 5601_SURVEY (COLOR).pc3, 1:1



DES.	PREPARED FOR: NVR, INC. 9720 PATUXENT WOODS DRIVE COLUMBIA, MD 21046
DRN. MAB	
CHK.	

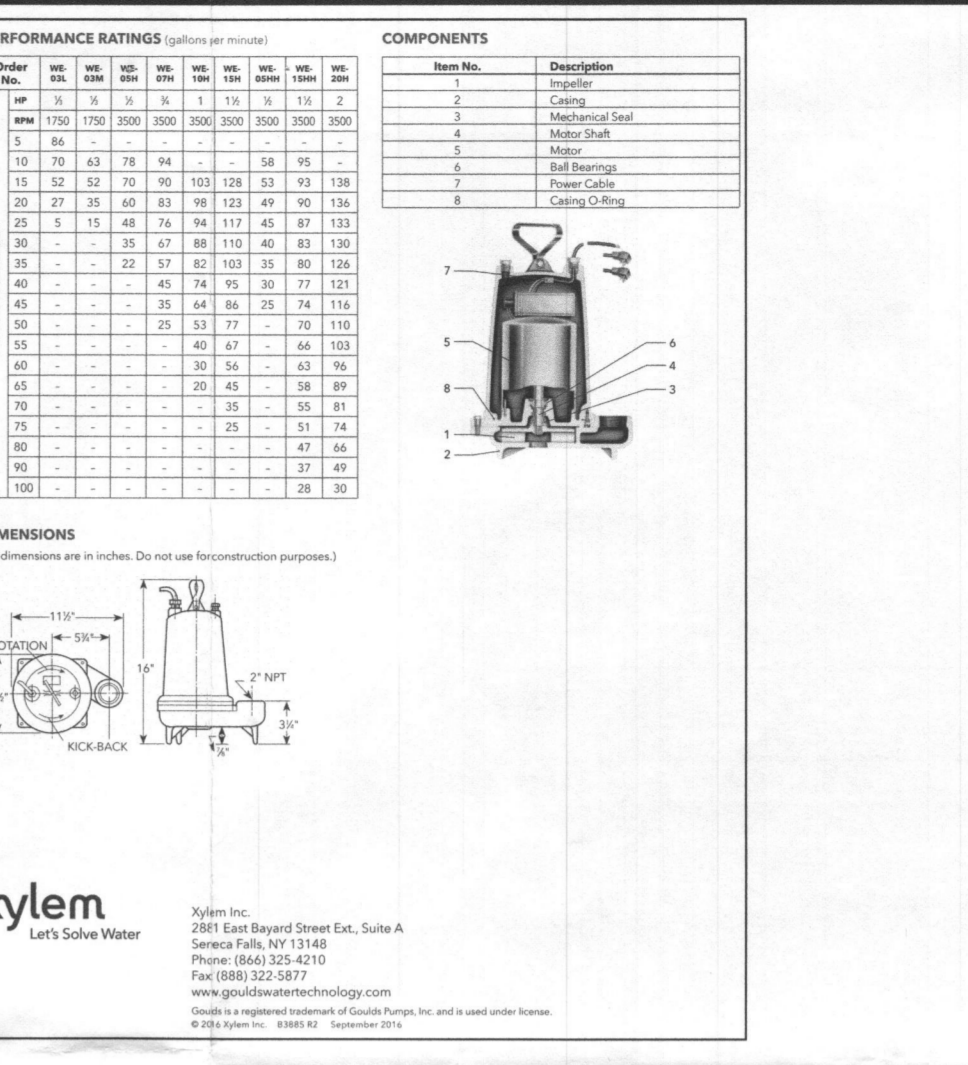


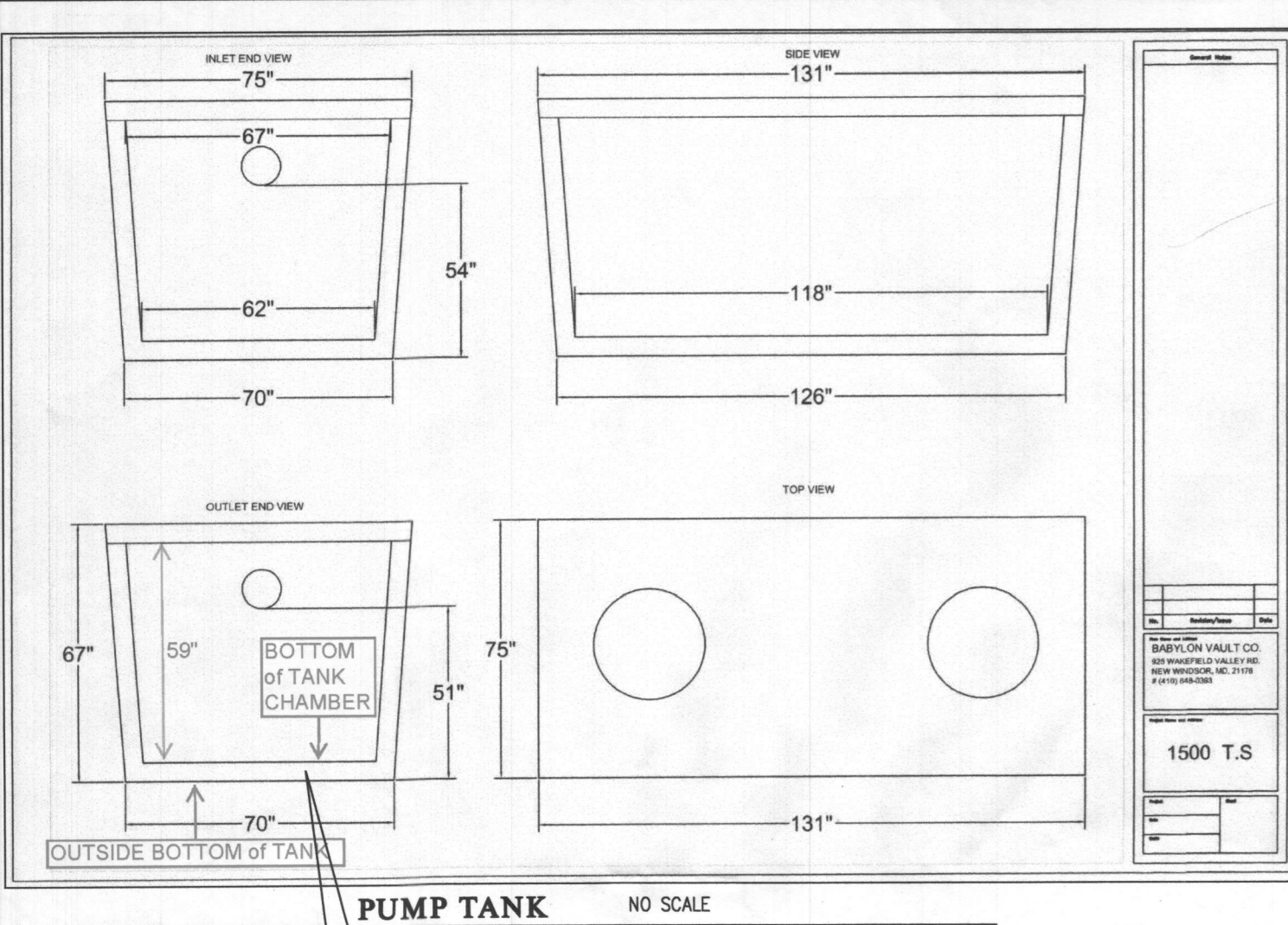
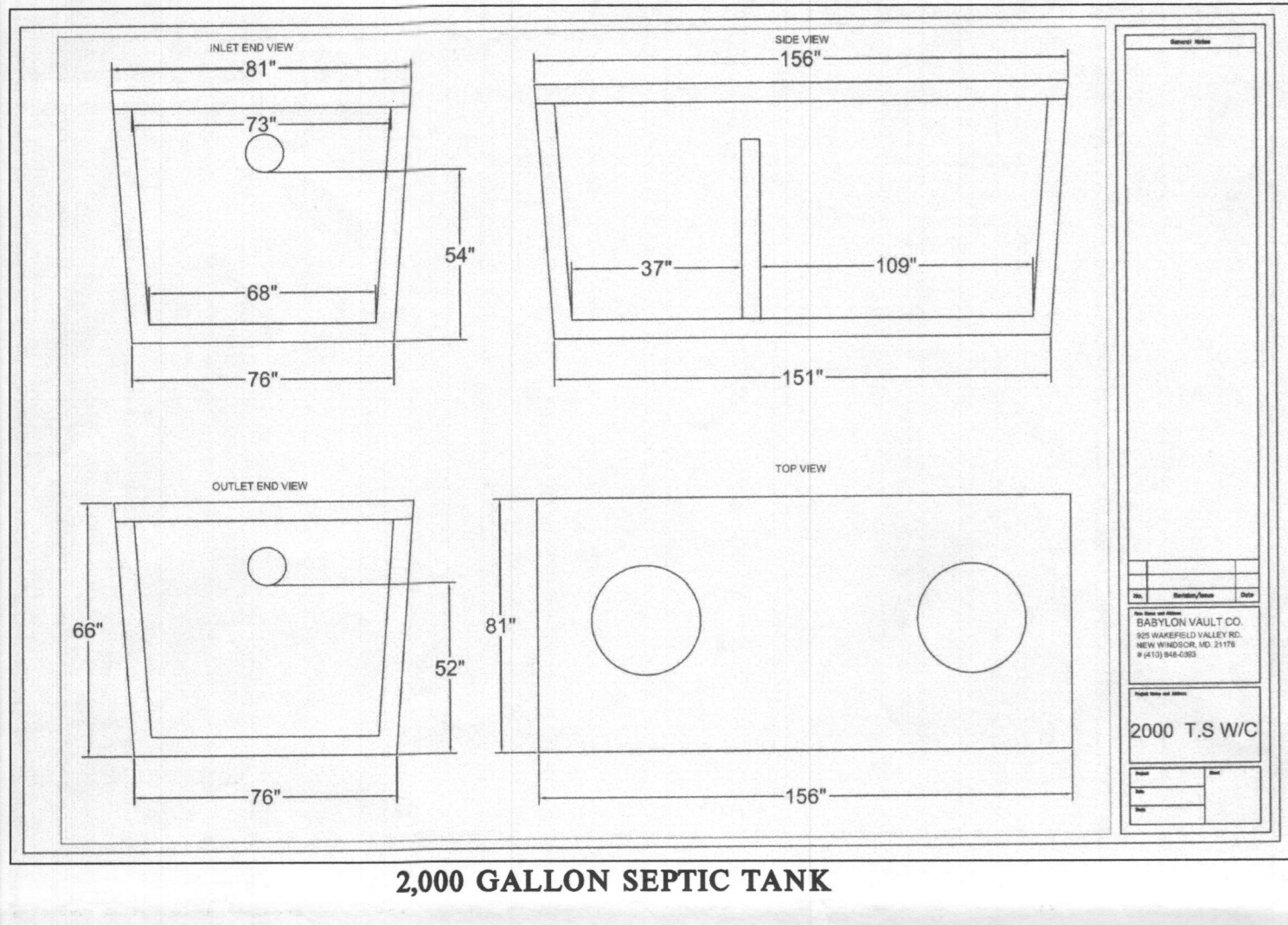
Goulds Water Technology

Wastewater

PUMP SELECTED

Order Number	HP	Phase	RPM	Discharge Rate (GPM)	Maximum Head (ft)	Weight (lbs)	Height (in)
4800111	1.5	3	3450	110	110	110	110
4800112	2.0	3	3450	140	140	140	140
4800113	2.5	3	3450	170	170	170	170
4800114	3.0	3	3450	200	200	200	200
4800115	3.5	3	3450	230	230	230	230
4800116	4.0	3	3450	260	260	260	260
4800117	4.5	3	3450	290	290	290	290
4800118	5.0	3	3450	320	320	320	320
4800119	5.5	3	3450	350	350	350	350
4800120	6.0	3	3450	380	380	380	380
4800121	6.5	3	3450	410	410	410	410
4800122	7.0	3	3450	440	440	440	440
4800123	7.5	3	3450	470	470	470	470
4800124	8.0	3	3450	500	500	500	500
4800125	8.5	3	3450	530	530	530	530
4800126	9.0	3	3450	560	560	560	560
4800127	9.5	3	3450	590	590	590	590
4800128	10.0	3	3450	620	620	620	620
4800129	10.5	3	3450	650	650	650	650
4800130	11.0	3	3450	680	680	680	680
4800131	11.5	3	3450	710	710	710	710
4800132	12.0	3	3450	740	740	740	740
4800133	12.5	3	3450	770	770	770	770
4800134	13.0	3	3450	800	800	800	800
4800135	13.5	3	3450	830	830	830	830
4800136	14.0	3	3450	860	860	860	860
4800137	14.5	3	3450	890	890	890	890
4800138	15.0	3	3450	920	920	920	920
4800139	15.5	3	3450	950	950	950	950
4800140	16.0	3	3450	980	980	980	980
4800141	16.5	3	3450	1010	1010	1010	1010
4800142	17.0	3	3450	1040	1040	1040	1040
4800143	17.5	3	3450	1070	1070	1070	1070
4800144	18.0	3	3450	1100	1100	1100	1100
4800145	18.5	3	3450	1130	1130	1130	1130
4800146	19.0	3	3450	1160	1160	1160	1160
4800147	19.5	3	3450	1190	1190	1190	1190
4800148	20.0	3	3450	1220	1220	1220	1220
4800149	20.5	3	3450	1250	1250	1250	1250
4800150	21.0	3	3450	1280	1280	1280	1280
4800151	21.5	3	3450	1310	1310	1310	1310
4800152	22.0	3	3450	1340	1340	1340	1340
4800153	22.5	3	3450	1370	1370	1370	1370
4800154	23.0	3	3450	1400	1400	1400	1400
4800155	23.5	3	3450	1430	1430	1430	1430
4800156	24.0	3	3450	1460	1460	1460	1460
4800157	24.5	3	3450	1490	1490	1490	1490
4800158	25.0	3	3450	1520	1520	1520	1520
4800159	25.5	3	3450	1550	1550	1550	1550
4800160	26.0	3	3450	1580	1580	1580	1580
4800161	26.5	3	3450	1610	1610	1610	1610
4800162	27.0	3	3450	1640	1640	1640	1640
4800163	27.5	3	3450	1670	1670	1670	1670
4800164	28.0	3	3450	1700	1700	1700	1700
4800165	28.5	3	3450	1730	1730	1730	1730
4800166	29.0	3	3450	1760	1760	1760	1760
4800167	29.5	3	3450	1790	1790	1790	1790
4800168	30.0	3	3450	1820	1820	1820	1820
4800169	30.5	3	3450	1850	1850	1850	1850
4800170	31.0	3	3450	1880	1880	1880	1880
4800171	31.5	3	3450	1910	1910	1910	1910
4800172	32.0	3	3450	1940	1940	1940	1940
4800173	32.5	3	3450	1970	1970	1970	1970
4800174	33.0	3	3450	2000	2000	2000	2000
4800175	33.5	3	3450	2030	2030	2030	2030
4800176	34.0	3	3450	2060	2060	2060	2060
4800177	34.5	3	3450	2090	2090	2090	2090
4800178	35.0	3	3450	2120	2120	2120	2120
4800179	35.5	3	3450	2150	2150	2150	2150
4800180	36.0	3	3450	2180	2180	2180	2180
4800181	36.5	3	3450	2210	2210	2210	2210
4800182	37.0	3	3450	2240	2240	2240	2240
4800183	37.5	3	3450	2270	2270	2270	2270
4800184	38.0	3	3450	2300	2300	2300	2300
4800185	38.5	3	3450	2330	2330	2330	2330
4800186	39.0	3	3450	2360	2360	2360	2360
4800187	39.5	3	3450	2390	2390	2390	2390
4800188	40.0	3	3450	2420	2420	2420	2420
4800189	40.5	3	3450	2450	2450	2450	2450
4800190	41.0	3	3450	2480	2480	2480	2480
4800191	41.5	3	3450	2510	2510	2510	2510
4800192	42.0	3	3450	2540	2540	2540	2540
4800193	42.5	3	3450	2570	2570	2570	2570
4800194	43.0	3	3450	2600	2600	2600	2600
4800195	43.5	3	3450	2630	2630	2630	2630
4800196	44.0	3	3450	2660	2660	2660	2660
4800197	44.5	3	3450	2690	2690	2690	2690
4800198	45.0	3	3450	2720	2720	2720	2720
4800199	45.5	3	3450	2750	2750	2750	2750
4800200	46.0	3	3450	2780	2780	2780	2780





PUMP CHAMBER FLOAT SWITCH INFORMATION:

- ALARM HIGH WATER LEVEL @ 23.5"
- PUMP-ON WATER LEVEL @ 21.1"
- PUMP-OFF @ 18.5"

NOTES:

- SWITCH WATER LEVELS ARE MEASURED FROM THE BOTTOM OF THE TANK CHAMBER.
- TANK SHALL BE INSTALLED SO THAT THE BOTTOM OF THE CHAMBER IS ABSOLUTELY LEVEL.
- SWITCH LEVELS ARE CALCULATED FOR THE TANK CHAMBER DIMENSIONS SHOWN. IF A CHAMBER DIMENSION CHANGES, THEN THE SWITCH WATER LEVEL MUST BE RECALCULATED.
- PROVIDE A 1/2" HOLE IN THE BOTTOM OF THE DISCHARGE PIPE AFTER THE CHECK VALVE.
- USE A UNION DISCONNECT TO FACILITATE PUMP REPLACEMENT.
- SET PUMP FOR LPD SYSTEM ON A 6" BLOCK.

LOW PRESSURE DISTRIBUTION SYSTEM CALCULATIONS
Per MDE BASIC LPD DESIGN - Draft Version 1 - Date July 1, 2014
ADDRESS: 13804 Mill Creek Dr. SUBDIVISION: Crawford DATE: May 2019 LOT: 1

Design Flow: 900 gpd
Pump Off Elevation: 481.36
Inv. Out of Pump Tank: 483.90
Pump Bottom Elevation: 480.48

Number of Manifolds: 1 Type: End-Feed

Trench	Length (ft)	Flow (gpm)	Head (ft)	Friction Loss (ft)	Static Head (ft)	Total Head (ft)
1	57	486.0	2.0	57.0	486.0	543.0
2	57	486.0	2.0	57.0	486.0	543.0

Calculate Total Design Head

- Friction Loss in FM & Mnfold: 2.7 ft
- Friction Loss from Fittings: 49 ft
- Static Head: 4.64 ft
- Min. Distal (discharge) head: 2.0 ft

TDH = 14.9 ft

GLW PLANNING | ENGINEERING | SURVEYING
3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20886 | GLWPA.COM
PHONE: 301-421-4024 | BALTIMORE: 410-880-1820 | DC/VA: 301-889-2524 | FAX: 301-421-4186

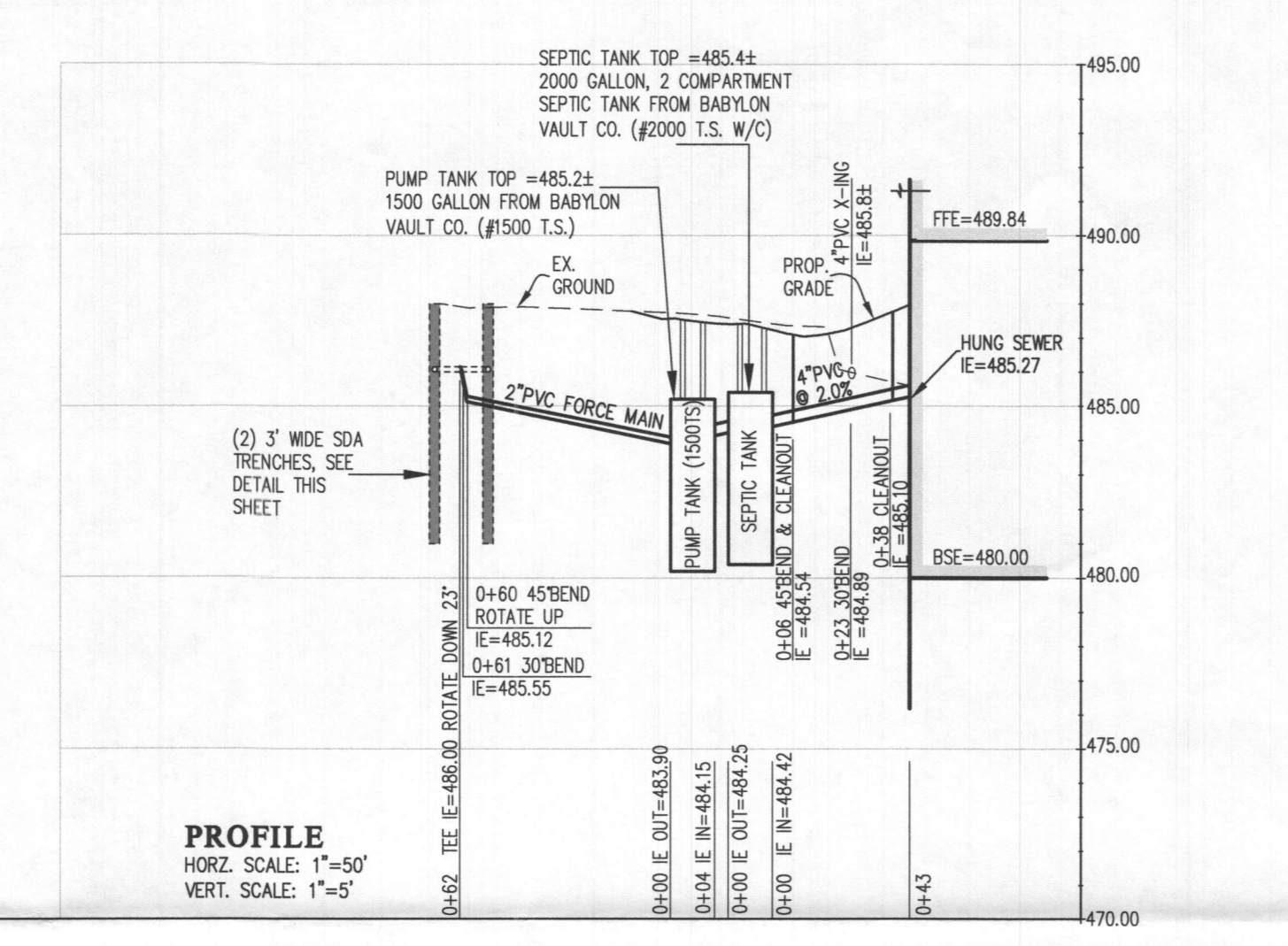
DESIGNED BY: MBT
DRAWN BY: KLP
CHECKED BY: CKG
DATE: _____

PREPARED FOR: NVR INC. 9720 PATUXENT WOODS DRIVE COLUMBIA, MARYLAND 21046 PH: 410-379-5956

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 12975, EXPIRATION DATE: MAY 26, 2020

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
CRAWFORD SUBDIVISION LOT 1 (13804 MILL CREEK COURT)
SCALE: 1"=30' ZONING: RR-DEO PLAT No. 24600-24607

DATE: MAY 2019 TAX MAP - GRID: 34&39-19&6 SHEET: 1 OF 1



Lot-1 LPD Pump Tank (Babylon 1500 TS) Elevations

High finished grade at top of tank	487.70
Top of tank elevation	485.23
Delta (cover above tank, 3' max.)	2.47 ft.
Outside bottom of tank	479.65
Bottom of chamber elevation	479.98
Invert in	484.15
Invert out	483.30
Bottom of Pump (set on 6" block)	480.48

Lot-1 Septic Tank (Babylon 2000TS W/C) Elevations

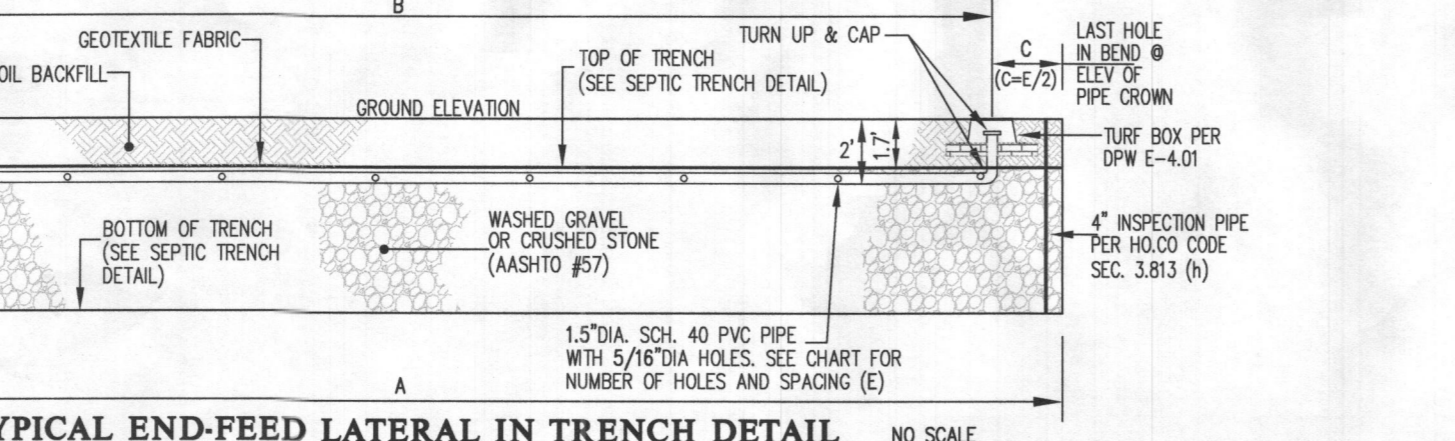
High finished grade at top of tank	487.60
Top of tank elevation	485.42
Delta (cover above tank, 3' max.)	2.18 ft.
Outside bottom of tank elevation	479.92
Invert in	484.42
Invert out	480.25

Rectangular Trapezoidal Pump Chamber Volume Calculations (Babylon Vault 1500 T.S.)

H: Height (inside dimension from bottom of chamber to top seam)	59.0 in.
W: Top Width (inside dimension)	67.0 in.
L: Top Length (inside dimension)	123.0 in.
a: Bottom Width (inside dimension)	62.0 in.
b: Bottom Length (inside dimension)	118.0 in.
Chamber Bottom Area (a x b)	7316.0 sq. in.
Height from bottom of chamber to inlet level (S)	50.0 in.
Chamber width at inlet level (C)	66.24 in.
Chamber length at inlet level (D)	122.24 in.
Chamber Sectional Area at inlet level (C x D)	8096.7 sq. in.
Chamber Volume at inlet level (V)	385167 cu. in.

Float Switch Setting Parameters & Volume Calculations

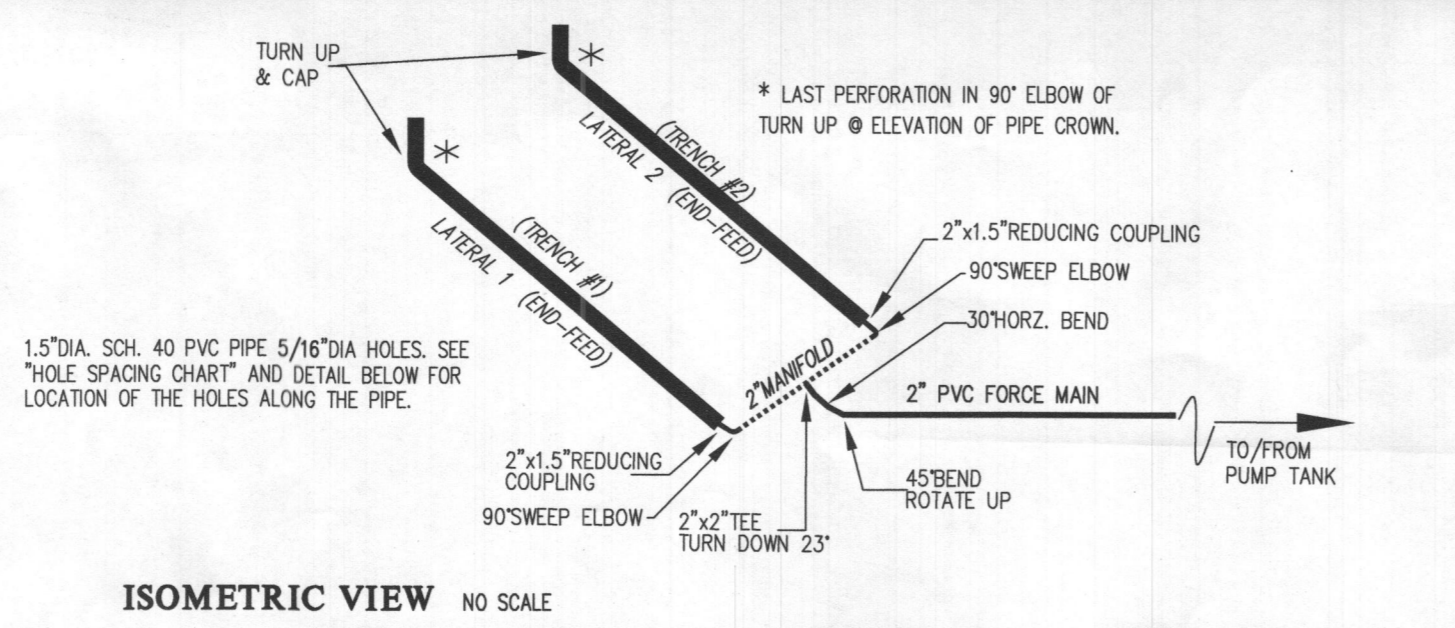
Design Flow per day (min. reserved capacity to set alarm level)	900 gal.
Dosing frequency per day & volume per dose	6 doses at 150.0 gal./dose
Water level (Sa) to switch on alarm	23.600 in.
Chamber width at alarm level (Ca)	64.00 in.
Chamber length at alarm level (Ca)	123.00 in.
Chamber Sectional Area at alarm level (Ca x Da)	7680.0 sq. in.
Water volume at alarm level (Va)	176937 cu. in.
Reserved Capacity provided at alarm setting (Vi-Va)	208230 cu. in.
Back check reserved capacity ((S1-Sa)/g)*(C1*Di) + (C1*Di)*(D1+D1+Ca*Da)	208230 cu. in.



HOLE SPACING CHART

Trench No.	Feed Type	A	B	C	D	E
1	End	57.0 ft	54.96 ft	2.04 ft	14	4.07 ft
2	End	57.0 ft	54.96 ft	2.04 ft	14	4.07 ft

A: Trench Length
B: Lateral Length (of pipe within trench)
C: Distance from the end of the trench to the first and last holes.
D: Total number of holes including the first and last holes.
E: Orifice Spacing (distance between holes)



Goulds Water Technology

Wastewater

APPLICATIONS: Specifically designed for the following uses:
• Homes, Farms, Trailer Courts, Motels, Schools, Hospitals, Industry, Effluent Systems

SPECIFICATIONS:
• Solids handling capabilities: 1" maximum
• Discharge rate: 2" HP
• Capacities up to 150 GPM
• Total heads up to 128 feet TDH
• Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent
• See order numbers on reverse side for specific HP, voltage, phase and RPM available.

NOTES:
• Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
• Class B insulation on 1-1/2 HP models.
• Class F insulation on 2 HP models.
• O-ring. Assures positive flange gasket containment and no leakage.

AGENCY LISTINGS:
• Home Depot
• Lowe's
• Menards
• Tractor Supply Co.
• Tractor Supply Co. (Canada)
• Tractor Supply Co. (UK)
• Tractor Supply Co. (Australia)
• Tractor Supply Co. (New Zealand)
• Tractor Supply Co. (South Africa)
• Tractor Supply Co. (India)
• Tractor Supply Co. (China)
• Tractor Supply Co. (Japan)
• Tractor Supply Co. (Korea)
• Tractor Supply Co. (Thailand)
• Tractor Supply Co. (Vietnam)
• Tractor Supply Co. (Philippines)
• Tractor Supply Co. (Indonesia)
• Tractor Supply Co. (Malaysia)
• Tractor Supply Co. (Singapore)
• Tractor Supply Co. (Taiwan)
• Tractor Supply Co. (Hong Kong)
• Tractor Supply Co. (Macau)
• Tractor Supply Co. (Brazil)
• Tractor Supply Co. (Mexico)
• Tractor Supply Co. (Colombia)
• Tractor Supply Co. (Peru)
• Tractor Supply Co. (Chile)
• Tractor Supply Co. (Argentina)
• Tractor Supply Co. (Venezuela)
• Tractor Supply Co. (Cuba)
• Tractor Supply Co. (Dominican Republic)
• Tractor Supply Co. (Puerto Rico)
• Tractor Supply Co. (Guatemala)
• Tractor Supply Co. (Honduras)
• Tractor Supply Co. (Nicaragua)
• Tractor Supply Co. (Costa Rica)
• Tractor Supply Co. (Panama)
• Tractor Supply Co. (Ecuador)
• Tractor Supply Co. (Bolivia)
• Tractor Supply Co. (Paraguay)
• Tractor Supply Co. (Uruguay)
• Tractor Supply Co. (Colombia)
• Tractor Supply Co. (Venezuela)
• Tractor Supply Co. (Cuba)
• Tractor Supply Co. (Dominican Republic)
• Tractor Supply Co. (Puerto Rico)
• Tractor Supply Co. (Guatemala)
• Tractor Supply Co. (Honduras)
• Tractor Supply Co. (Nicaragua)
• Tractor Supply Co. (Costa Rica)
• Tractor Supply Co. (Panama)
• Tractor Supply Co. (Ecuador)
• Tractor Supply Co. (Bolivia)
• Tractor Supply Co. (Paraguay)
• Tractor Supply Co. (Uruguay)

Wastewater

PUMP SELECTED

Order Number	HP	Phase	Volts	RPM	Max. Head (ft)	Max. Flow (GPM)	Max. Power (kW)	Max. Power (HP)	Max. Power (kW)	Max. Power (HP)
1000000001	1/2	3	208	1750	10.7	30.0	0.4	0.5	11.9	1.3
1000000002	3/4	3	208	1750	16.7	45.0	0.7	0.9	17.8	2.0
1000000003	1	3	208	1750	22.7	60.0	1.0	1.3	23.7	2.6
1000000004	1 1/2	3	208	1750	28.7	75.0	1.3	1.7	29.7	3.2
1000000005	2	3	208	1750	34.7	90.0	1.6	2.1	35.7	3.9
1000000006	2 1/2	3	208	1750	40.7	105.0	1.9	2.5	41.7	4.5
1000000007	3	3	208	1750	46.7	120.0	2.2	2.9	47.7	5.2
1000000008	3 1/2	3	208	1750	52.7	135.0	2.5	3.3	53.7	5.9
1000000009	4	3	208	1750	58.7	150.0	2.8	3.7	59.7	6.6
1000000010	4 1/2	3	208	1750	64.7	165.0	3.1	4.1	65.7	7.3
1000000011	5	3	208	1750	70.7	180.0	3.4	4.5	71.7	8.0
1000000012	5 1/2	3	208	1750	76.7	195.0	3.7	4.9	77.7	8.7
1000000013	6	3	208	1750	82.7	210.0	4.0	5.3	83.7	9.4
1000000014	6 1/2	3	208	1750	88.7	225.0	4.3	5.7	89.7	10.1
1000000015	7	3	208	1750	94.7	240.0	4.6	6.1	95.7	10.8
1000000016	7 1/2	3	208	1750	100.7	255.0	4.9	6.5	101.7	11.5
1000000017	8	3	208	1750	106.7	270.0	5.2	6.9	107.7	12.2
1000000018	8 1/2	3	208	1750	112.7	285.0	5.5	7.3	113.7	12.9
1000000019	9	3	208	1750	118.7	300.0	5.8	7.7	119.7	13.6
1000000020	9 1/2	3	208	1750	124.7	315.0	6.1	8.1	125.7	14.3
1000000021	10	3	208	1750	130.7	330.0	6.4	8.5	131.7	15.0
1000000022	10 1/2	3	208	1750	136.7	345.0	6.7	8.9	137.7	15.7
1000000023	11	3	208	1750	142.7	360.0	7.0	9.3	143.7	16.4
1000000024	11 1/2	3	208	1750	148.7	375.0	7.3	9.7	149.7	17.1
1000000025	12	3	208	1750	154.7	390.0	7.6	10.1	155.7	17.8
1000000026	12 1/2	3	208	1750	160.7	405.0	7.9	10.5	161.7	18.5
1000000027	13	3	208	1750	166.7	420.0	8.2	10.9	167.7	19.2
1000000028	13 1/2	3	208	1750	172.7	435.0	8.5	11.3	173.7	20.0
1000000029	14	3	208	1750	178.7	450.0	8.8	11.7	179.7	20.7
1000000030	14 1/2	3	208	1750	184.7	465.0	9.1	12.1	185.7	21.4
1000000031	15	3	208	1750	190.7	480.0	9.4	12.5	191.7	22.2
1000000032	15 1/2	3	208	1750	196.7	495.0	9.7	12.9	197.7	22.9
1000000033	16	3	208	1750	202.7	510.0	10.0	13.3	203.7	23.6
1000000034	16 1/2	3	208	1750	208.7	525.0	10.3	13.7	209.7	24.4
1000000035	17	3	208	1750	214.7	540.0	10.6	14.1	215.7	25.1
1000000036	17 1/2	3	208	1750	220.7	555.0	10.9	14.5	221.7	25.9
1000000037	18	3	208	1750	226.7	570.0	11.2	14.9	227.7	26.6
1000000038	18 1/2	3	208	1750	232.7	585.0	11.5	15.3	233.7	27.4
1000000039	19	3	208	1750	238.7	600.0	11.8	15.7	239.7	28.1
1000000040	19 1/2	3	208	1750	244.7	615.0	12.1	16.1	245.7	28.9
1000000041	20	3	208	1750	250.7	630.0	12.4	16.5	251.7	29.6
1000000042	20 1/2	3	208	1750	256.7	645.0	12.7	16.9	257.7	30.4
1000000043	21	3	208	1750	262.7	660.0	13.0	17.3	263.7	31.1
1000000044	21 1/2	3	208	1750	268.7	675.0	13.3	17.7	269.7	31.9
1000000045	22	3	208	1750	274.7	690.0	13.6	18.1	275.7	32.6
1000000046	22 1/2	3	208	1750	280.7	705.0	13.9	18.5	281.7	33.4
1000000047	23	3	208	1750	286.7	720.0	14.2	18.9	287.7	34.1
1000000048	23 1/2	3	208	1750	292.7	735.0	14.5	19.3	293.7	34.9
1000000049	24	3	208	1750	298.7	750.0	14.8	19.7	299.7	35.6
1000000050	24 1/2	3	208	1750	304.7	765.0	15.1	20.1	305.7	36.4

PERFORMANCE RATINGS (gallons per minute)

Order No.	HP	Phase	Volts	RPM	Max. Head (ft)	Max. Flow (GPM)	Max. Power (kW)	Max. Power (HP)
101	1/2	3	208	1750	10.7	30.0	0.4	0.5
102	3/4	3	208	1750	16.7	45.0	0.7	0.9
103	1	3	208	1750	22.7	60.0	1.0	1.3
104	1 1/2	3	208	1750	28.7	75.0	1.3	1.7
105	2	3	208	1750	34.7	90.0	1.6	2.1
106	2 1/2	3	208	1750	40.7	105.0	1.9	2.5
107	3	3	208	1750	46.7	120.0	2.2	2.9
108	3 1/2	3	208	1750	52.7	135.0	2.5	3.3
109	4	3	208	1750	58.7	150.0	2.8	3.7
110	4 1/2	3	208	1750	64.7	165.0	3.1	4.1
111	5	3	208	1750	70.7	180.0	3.4	4.5
112	5 1/2	3	208	1750	76.7	195.0	3.7	4.9
113	6	3	208	1750	82.7	210.0	4.0	5.3
114	6 1/2	3	208	1750	88.7	225.0	4.3	5.7
115	7	3	208	1750	94.7	240.0	4.6	6.1
116	7 1/2	3	208	1750	100.7	255.0	4.9	6.5
117	8	3	208	1750	106.7	270.0	5.2	6.9
118	8 1/2	3	208	1750	112.7	285.0	5.5	7.3
119	9	3	208	1750	118.7	300.0	5.8	7.7
120	9 1/2	3	208	1750	124.7	315.0	6.1	8.1
121	10	3	208	1750	130.7	330.0	6.4	8.5
122	10 1/2	3	208	1750	136.7	345.0	6.7	8.9
123	11	3	208	1750	142.7	360.0	7.0	9.3
124	11 1/2	3	208	1750	148.7	375.0	7.3	9.7
125	12	3	208	1750	154.7	390.0	7.6	10.1
126	12 1/2	3	208	1750	160.7	405.0	7.9	10.5
127	13	3	208	1750	166.7	420.0	8.2	10.9
128	13 1/2	3	208	1750	172.7	435.0	8.5	11.3
129	14	3	208	1750	178.7	450.0	8.8	