

GENERAL NOTES

ZONING: HIGH DENSITY RESIDENTIAL

SETBACKS: 25' FRONT, 25' REAR, 6' SIDES

EASEMENT: WELL HEAD SERVING ADJACENT DEVELOPMENT TO BE ABANDONED

MDEGLE GROUNDWATER DISCHARGE PERMIT

RULE AUTHORIZATION: RULE 2216(3)
WASTEWATER TYPE: TREATED SANITARY SEWAGE
WASTEWATER TREATMENT METHOD: AERATED SEPTIC TANK W/ ENHANCED BACTERIAL TREATMENT
WASTEWATER DISPOSAL METHOD: SUBSURFACE DRIP IRRIGATION
AUTHORIZED TREATMENT VOLUME: 21252 GPD; 7756980 GPY
PERMIT NO.: GW1610094

PROPOSED INFRASTRUCTURE

SINGLE FAMILY HOMES: 36 3-BDRM HOMES
CONDO UNITS: 48 3-BDRM UNITS
12 2-BDRM UNITS

COMMUNITY BLDG: TO BE DETERMINED

PROPOSED WATER SUPPLY

MUNICIPAL WATER SUPPLY CONNECTION

PROPOSED WASTEWATER MANAGEMENT DESIGN

OVERALL DESIGN FLOWS: 154 GPD/HOME * (12) 2-BEDROOM CONDOS = 1848 GPD
231 GPD/HOME * (48) 3-BEDROOM CONDOS = 11088 GPD
231 GPD/HOME * (36) 3-BEDROOM HOMES = 8316 GPD
TOTAL = 21252 GPD

NEIGHBORHOOD CLUSTER SYSTEMS

SYSTEM	# OF UNITS	DISCHARGE VOLUME(GPD)	DOSE CYCLE	EMITTER DOSE	REQ'D DISPOSAL/ RESERVE AREA (FT^2)
SYSTEM A	10 3-BDR	2310	2x/HR	0.6 GPD/FT^2	3850
SYSTEM B	8 3-BDR	1848	2x/HR	0.6 GPD/FT^2	3080
SYSTEM C	10 3-BDR	2310	2x/HR	0.6 GPD/FT^2	3850
SYSTEM D	8 3-BDR	1848	2x/HR	0.6 GPD/FT^2	3080
SYSTEM E	20 3-BDRM	4620	2x/HR	1 GPD/FT^2	4620
SYSTEM F	16 3-BDRM	3696	2x/HR	1 GPD/FT^2	3696
SYSTEM G	12 3-BDRM	2772	2x/HR	0.7 GPD/FT^2	3960
SYSTEM H	12 2-BDRM	1848	2x/HR	1 GPD/FT^2	1848
SYSTEM I	1	TBD			

ADVANCED WASTEWATER TREATMENT: SLUDGEHAMMER AEROBIC BACTERIAL GENERATOR
SLUDGEHAMMER.NET
CERTIFICATIONS: NSF-40-CLASS 1
IAPMO ICC-180-2003
IMO-MARPOL-MEPC-159(55)

DESCRIPTION: THE SLUDGEHAMMER AEROBIC BACTERIAL GENERATOR IS AN AIR-DRIVEN COLUMN THAT HOUSES A MICROFINE BUBBLE DIFFUSER AT THE BOTTOM. INSIDE THE UNIT ARE A COILED MATRIX AND A REFUGE TO INSERT A PACKET OF AN ENHANCED BACTERIAL BLEND. THE TREATMENT CAPACITY IS FURTHER ENHANCED WITH THE ADDITION OF THREE SEPARATE FIXED FILM ELEMENTS. COMPLETE EFFLUENT TREATMENT OCCURS WITHIN STANDARD SEPTIC TANKS AND IS THEN DELIVERED VIA PUMP CHAMBER TO A PRESSURIZED DRIP IRRIGATION NETWORK.

EACH CLUSTER WILL BE SERVED BY A COLLECTION SYSTEM DIRECTED TO (2) 2000-GALLON SEPTIC TANKS IN SERIES. THE FIRST TANK(SINGLE CHAMBER) SHALL HOUSE THE SLUDGEHAMMER SYSTEM & ASSOCIATED COMPONENTS. THE SECOND TANK(DOUBLE CHAMBER) WILL BE UTILIZED FOR FURTHER MICROBIAL TREATMENT AND CLARIFICATION. TREATED EFFLUENT ENTERS A 500-750 GALLON PUMP CHAMBER. PUMPS IN EACH PUMP CHAMBER WILL BE INDIVIDUALLY SIZED BASED ON STANDARD HYDRAULIC ANALYSES. DOSING IS ACCOMPISHED WITH A COORDINATED TIMER AND FLOAT SYSTEM. ALARM SYSTEMS SHALL BE INSTALLED.

WATER DISPOSAL: GEOFLOW SUBSURFACE DRIP IRRIGATION @ 12" DEPTH
EMITTER INFO: 1 EMITTER = 0.6-1 GPD/FT^2 @ 2' O.C. & LINES @ 2' O.C.

EFFLUENT QUALITY: PLEASE SEE THE "DATA" TAB ON THE SLUDGEHAMMER.NET WEBSITE.

EXAMPLE SYSTEMS: SLUDGEHAMMER SYSTEMS ARE EFFECTIVELY OPERATING INTERNATIONALLY AND THROUGHOUT THE UNITED STATES, INCLUDING DOZENS IN MICHIGAN. SEE THE WEBSITE FOR INSTALLATION LOCATIONS.

SITE SOIL INFORMATION - SOURCE: USDA NRCS WEB SOIL SURVEY



Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ExB	Emmet gravelly sandy loam, 2 to 6 percent slopes	0.1	0.3%
EyB	Emmet sandy loam, 2 to 6 percent slopes	6.8	32.6%
EyD	Emmet sandy loam, 12 to 18 percent slopes	2.2	10.4%
EyE	Emmet sandy loam, 18 to 25 percent slopes	0.0	0.0%
KaA	Kalkaska loamy sand, 0 to 2 percent slopes	4.8	23.2%
LkA	Leelanau-Kalkaska loamy sands, 2 to 6 percent slopes	1.8	8.4%
LkC	Leelanau-Kalkaska loamy sands, 6 to 12 percent slopes	3.0	14.5%
LkD	Leelanau-Kalkaska loamy sands, 12 to 18 percent slopes	0.1	0.3%
RcA	Richter loams, 0 to 2 percent slopes, overwash	2.1	10.2%
Totals for Area of Interest		20.8	100.0%

Map Unit Symbol	Map Unit Name	Rating	Acres in AOI	Percent of AOI
ExB	Emmet gravelly sandy loam, 2 to 6 percent slopes	Well drained	0.1	0.3%
EyB	Emmet sandy loam, 2 to 6 percent slopes	Well drained	6.8	32.6%
EyD	Emmet sandy loam, 12 to 18 percent slopes	Well drained	2.2	10.4%
EyE	Emmet sandy loam, 18 to 25 percent slopes	Well drained	0.0	0.0%
KaA	Kalkaska loamy sand, 0 to 2 percent slopes	Somewhat excessively drained	4.8	23.2%
LkA	Leelanau-Kalkaska loamy sands, 2 to 6 percent slopes	Well drained	1.8	8.4%
LkC	Leelanau-Kalkaska loamy sands, 6 to 12 percent slopes	Well drained	3.0	14.5%
LkD	Leelanau-Kalkaska loamy sands, 12 to 18 percent slopes	Well drained	0.1	0.3%
RcA	Richter loams, 0 to 2 percent slopes, overwash	Somewhat poorly drained	2.1	10.2%
Totals for Area of Interest			20.8	100.0%

IT IS THE RESPONSIBILITY OF THE BUILDER OR GENERAL CONTRACTOR TO ENSURE THAT THE HOUSE DESIGNED IN THESE PLANS IS BUILT TO CODE AND IS STRUCTURALLY SOUND



OVERALL WASTEWATER PLAN

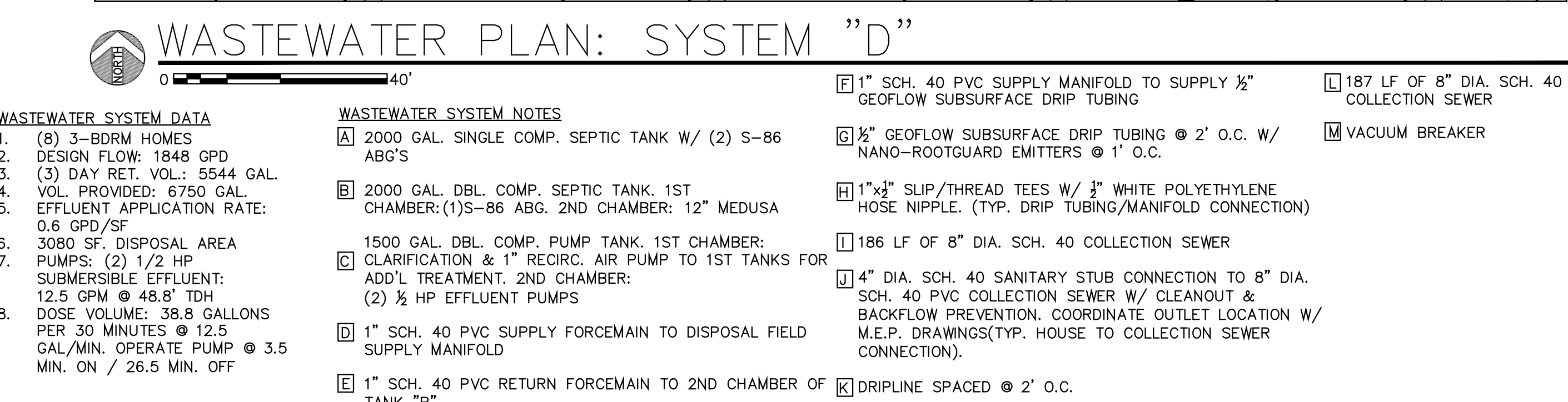
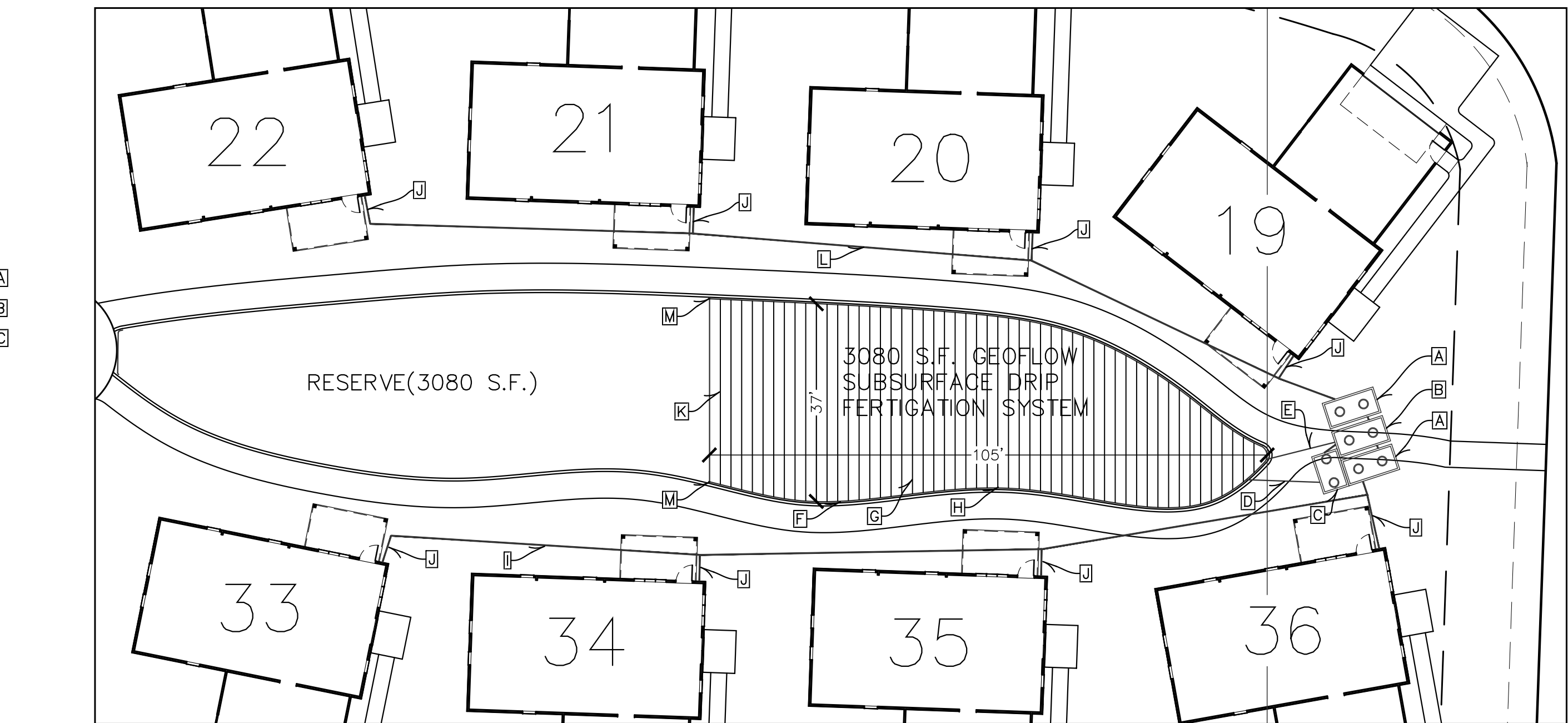
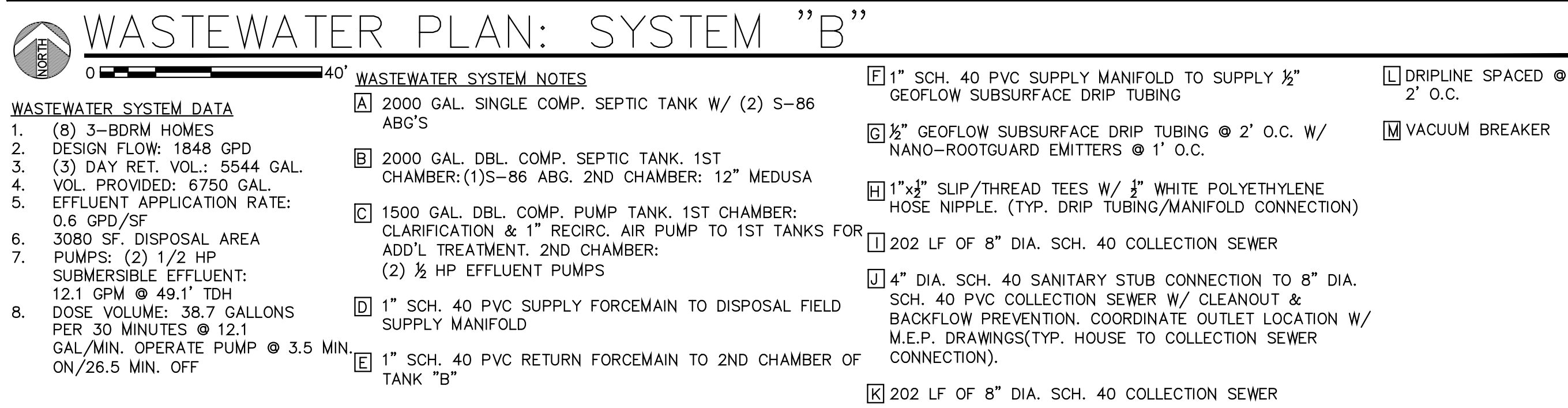
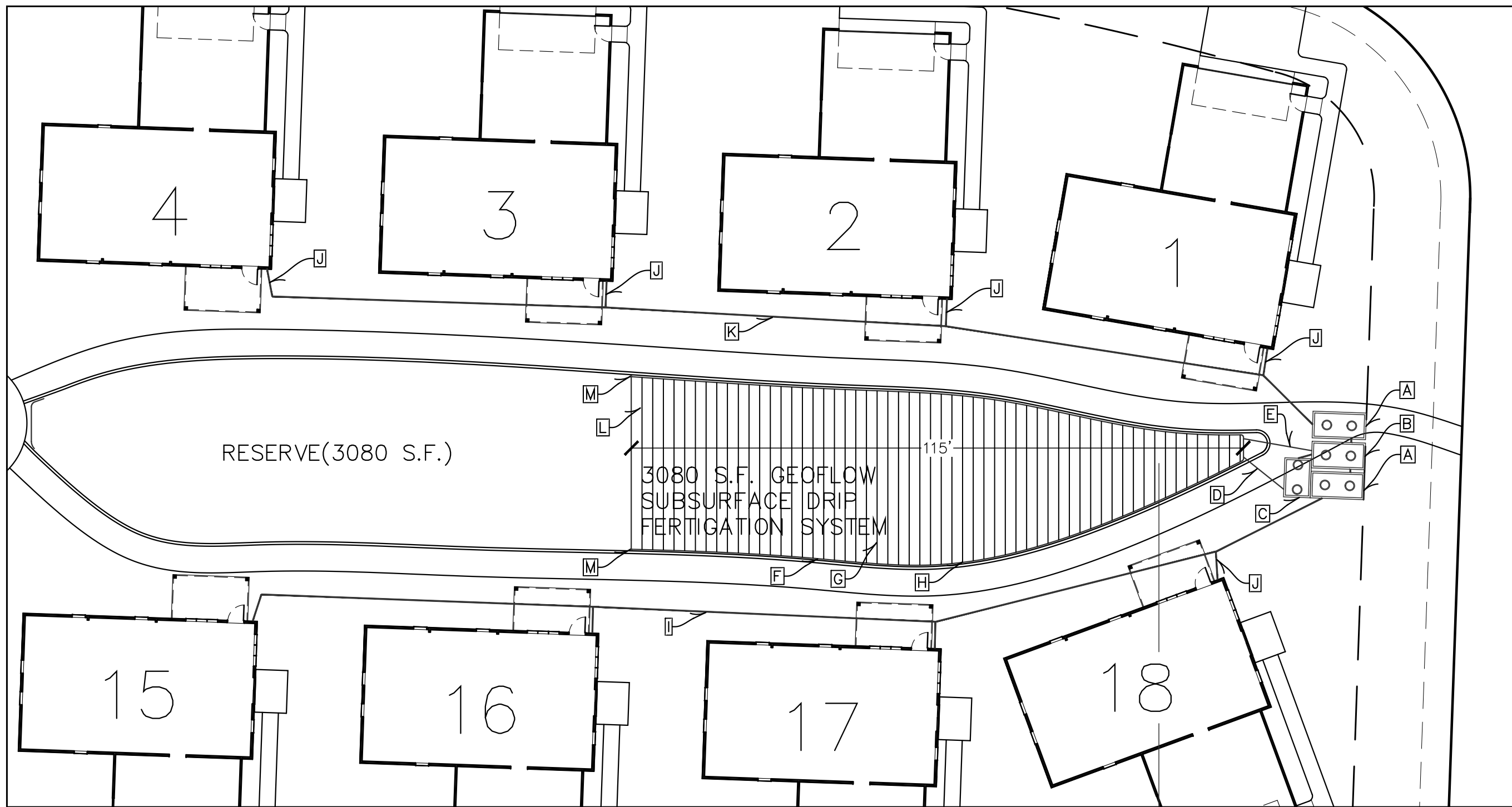
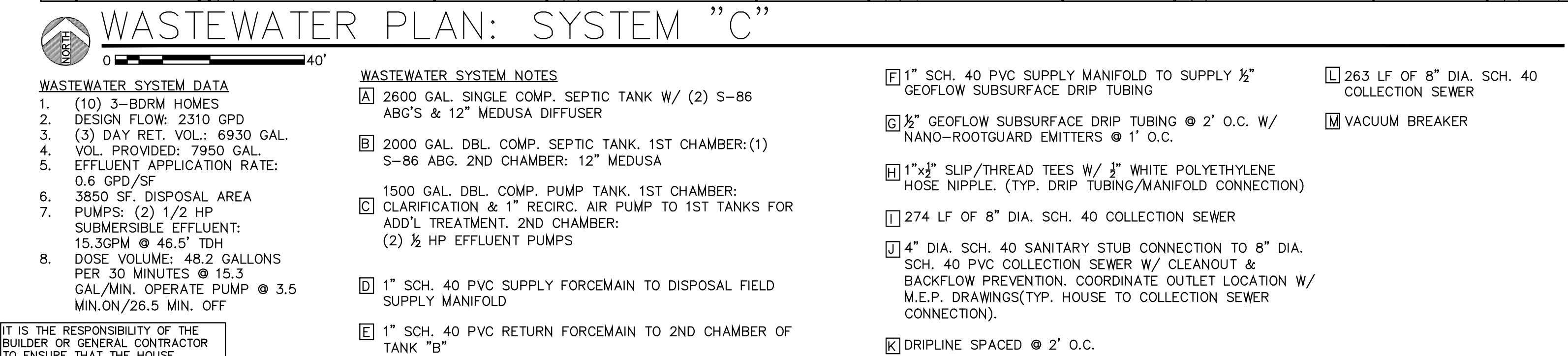
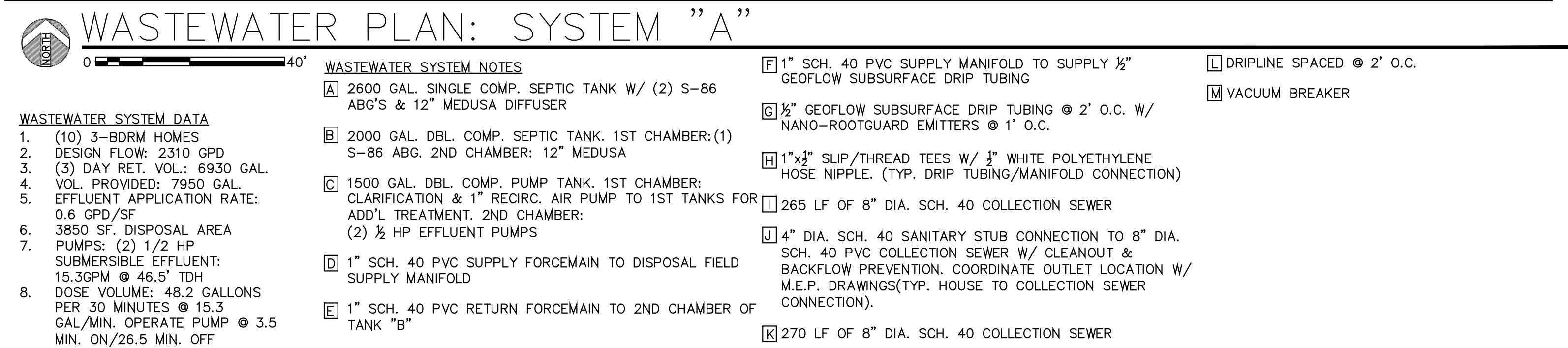
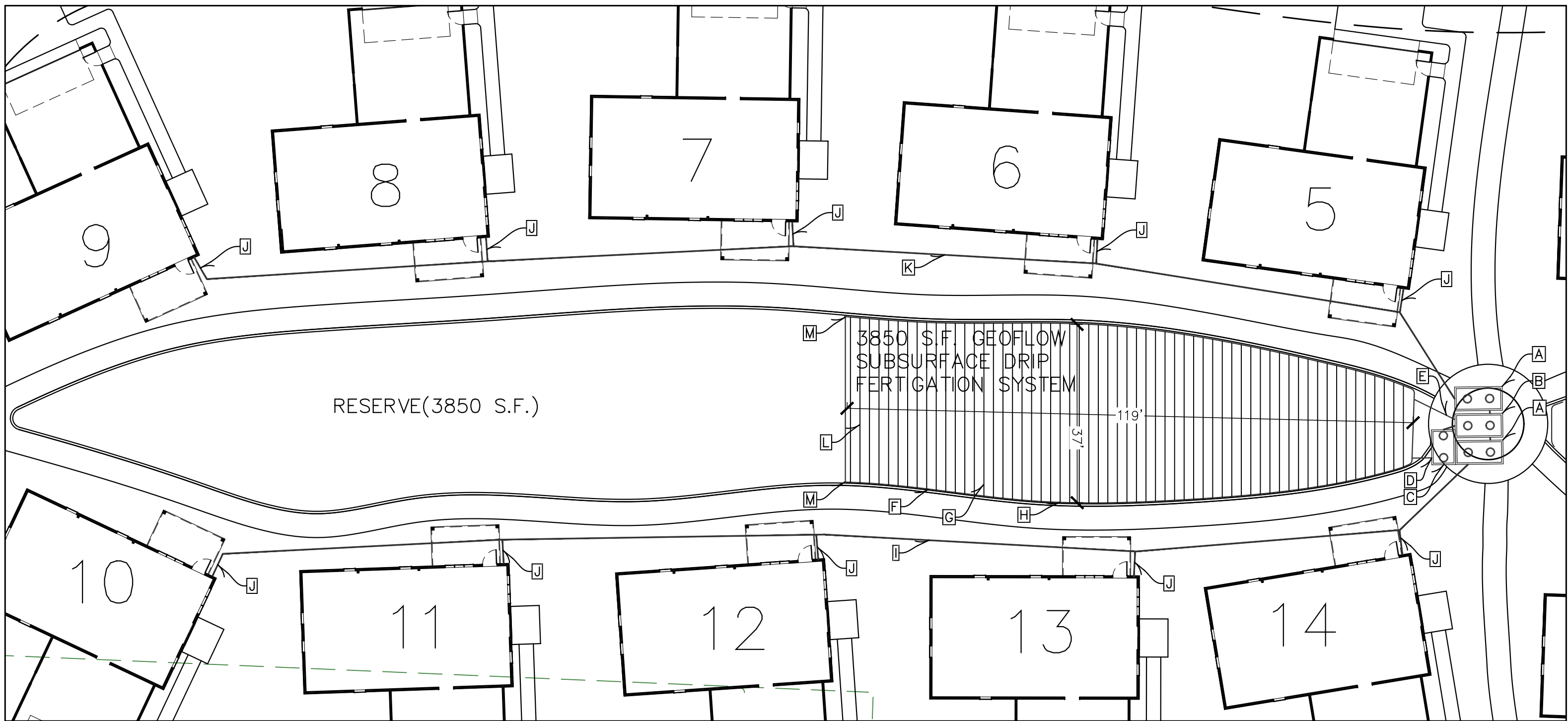
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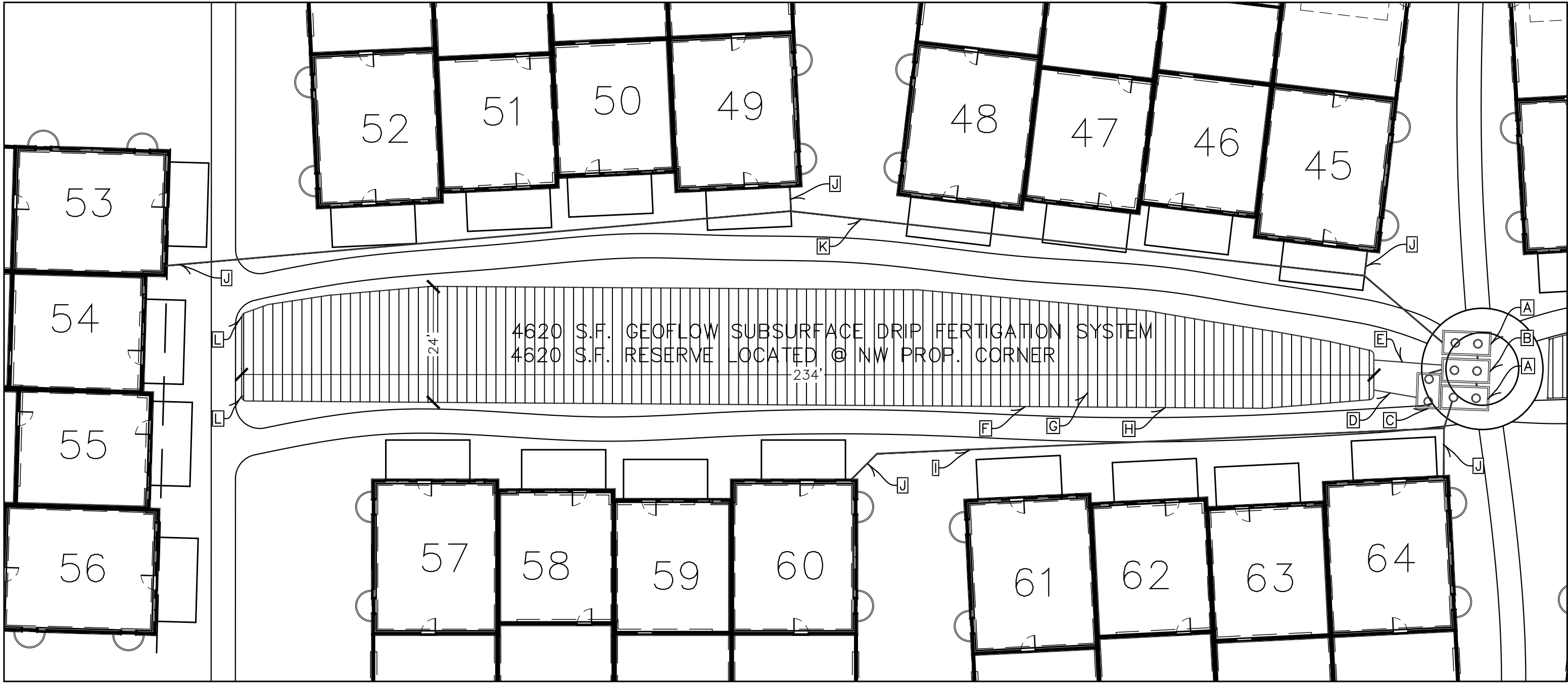
EVERGREEN TC DEVELOPMENT
XXXX GRAY RD.
TRAVERSE CITY, MI 49684

Project Name and Address
Drawn By: J. SORENSON
Project Number: 18052
Current Version #: WW SET
Date: MAR. 25, 2021
Scale: 1"=50'-0"
Sheet: C3
Page Description: Wastewater Plan



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DESIGNED IN THESE PLANS IS BUILT
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SOUND



WASTEWATER PLAN: SYSTEM "E"

WASTEWATER SYSTEM DATA

- (20) 3-BDRM HOMES
- DESIGN FLOW: 4620 GPD
- (3) DAY RET. VOL.: 13860 GAL.
- VOL. PROVIDED: 13900 GAL.
- EFFLUENT APPLICATION RATE: 1.0 GPD/SF
- 4620 SF. DISPOSAL AREA
- PUMPS: (2) 1½ HP SUBMERSIBLE EFFLUENT: 18.9 GPM @ 73.4' TDH
- DOSE VOLUME: 96.4 GALLONS PER 30 MINUTES @ 18.9 GAL/MIN. OPERATE PUMP @ 5.5 MIN. ON/24.5 MIN. OFF

WASTEWATER SYSTEM NOTES

[A] 4350 GAL. SINGLE COMP. SEPTIC TANK W/ (3) S-86 ABG'S & 12" MEDUSA DIFFUSER

[B] 2600 GAL. DBL. COMP. SEPTIC TANK. 1ST CHAMBER: (1) S-86 ABG. 2ND CHAMBER: (1) 12" MEDUSA

[C] 2600 GAL. DBL. COMP. TANK. 1ST CHAMBER: CLARIFICATION & 1" RECIRC. AIR PUMP TO 1ST TANKS FOR ADD'L TREATMENT. 2ND CHAMBER: (2) 1½ HP EFFLUENT PUMPS

[D] 1" SCH. 40 PVC SUPPLY FORCEMAIN TO DISPOSAL FIELD SUPPLY MANIFOLD

[E] 1" SCH. 40 PVC RETURN FORCEMAIN TO 2ND CHAMBER OF TANK "B"

[F] 1" SCH. 40 PVC SUPPLY MANIFOLD TO SUPPLY ½" GEOFLOW SUBSURFACE DRIP TUBING

[G] ½" GEOFLOW SUBSURFACE DRIP TUBING @ 2' O.C. W/ NANO-ROOTGUARD EMITTERS @ 1' O.C.

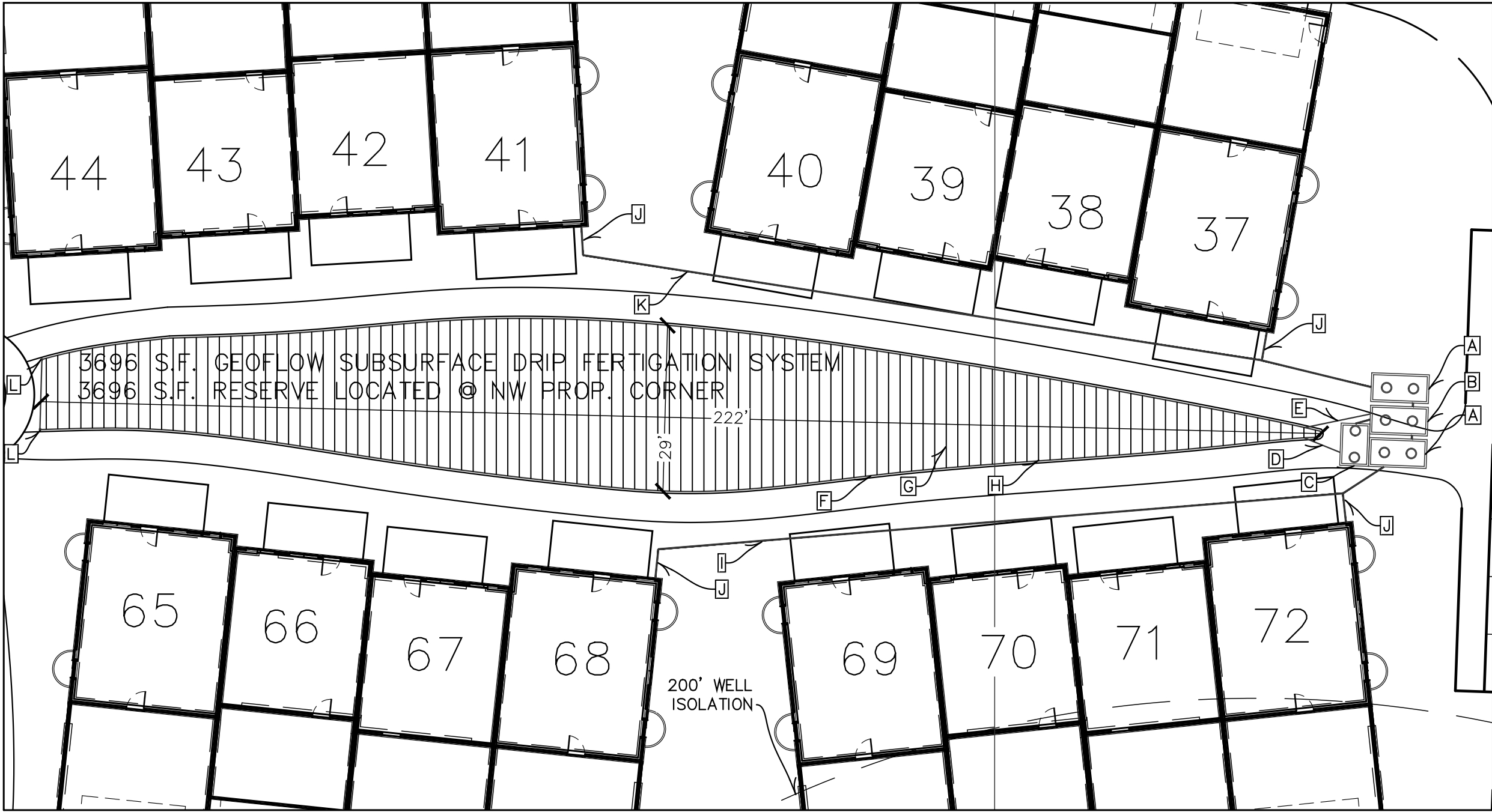
[H] 1"x½" SLIP/THREAD TEES W/ ½" WHITE POLYETHYLENE HOSE NIPPLE. (TYP. DRIP TUBING/MANIFOLD CONNECTION)

[I] 123 LF OF 8" DIA. SCH. 40 COLLECTION SEWER

[J] 4" DIA. SCH. 40 SANITARY STUB CONNECTION TO 8" DIA. SCH. 40 PVC COLLECTION SEWER W/ CLEANOUT & BACKFLOW PREVENTION. COORDINATE OUTLET LOCATION W/ M.E.P. DRAWINGS (TYP. HOUSE TO COLLECTION SEWER CONNECTION).

[K] 269 LF OF 8" DIA. SCH. 40 COLLECTION SEWER

[L] VACUUM BREAKER



WASTEWATER PLAN: SYSTEM "F"

WASTEWATER SYSTEM DATA

- (16) 3-BDRM HOMES
- DESIGN FLOW: 3696 GPD
- (3) DAY RET. VOL.: 11088 GAL.
- VOL. PROVIDED: 11300 GAL.
- EFFLUENT APPLICATION RATE: 1.0 GPD/SF
- 3696 SF DISPOSAL AREA
- PUMPS: (2) 1 HP SUBMERSIBLE EFFLUENT: 15.1 GPM @ 67' TDH
- DOSE VOLUME: 77 GALLONS PER 30 MINUTES @ 15.1 GAL/MIN. OPERATE PUMP @ 5.5 MIN. ON/24.5 MIN. OFF

WASTEWATER SYSTEM NOTES

[A] 3350 GAL. SINGLE COMP. SEPTIC TANK W/ (2) S-86 ABG'S & 12" MEDUSA DIFFUSER

[B] 2600 GAL. DBL. COMP. SEPTIC TANK. 1ST CHAMBER: (1) S-86 ABG. 2ND CHAMBER: (1) 12" MEDUSA

[C] 2600 GAL. DBL. COMP. TANK. 1ST CHAMBER: CLARIFICATION & 1" RECIRC. AIR PUMP TO 1ST TANKS FOR ADD'L TREATMENT. 2ND CHAMBER: (2) 1 HP EFFLUENT PUMPS

[D] 1" SCH. 40 PVC SUPPLY FORCEMAIN TO DISPOSAL FIELD SUPPLY MANIFOLD

[E] 1" SCH. 40 PVC RETURN FORCEMAIN TO 2ND CHAMBER OF TANK "B"

[F] 1" SCH. 40 PVC SUPPLY MANIFOLD TO SUPPLY ½" GEOFLOW SUBSURFACE DRIP TUBING

[G] ½" GEOFLOW SUBSURFACE DRIP TUBING @ 2' O.C. W/ NANO-ROOTGUARD EMITTERS @ 1' O.C.

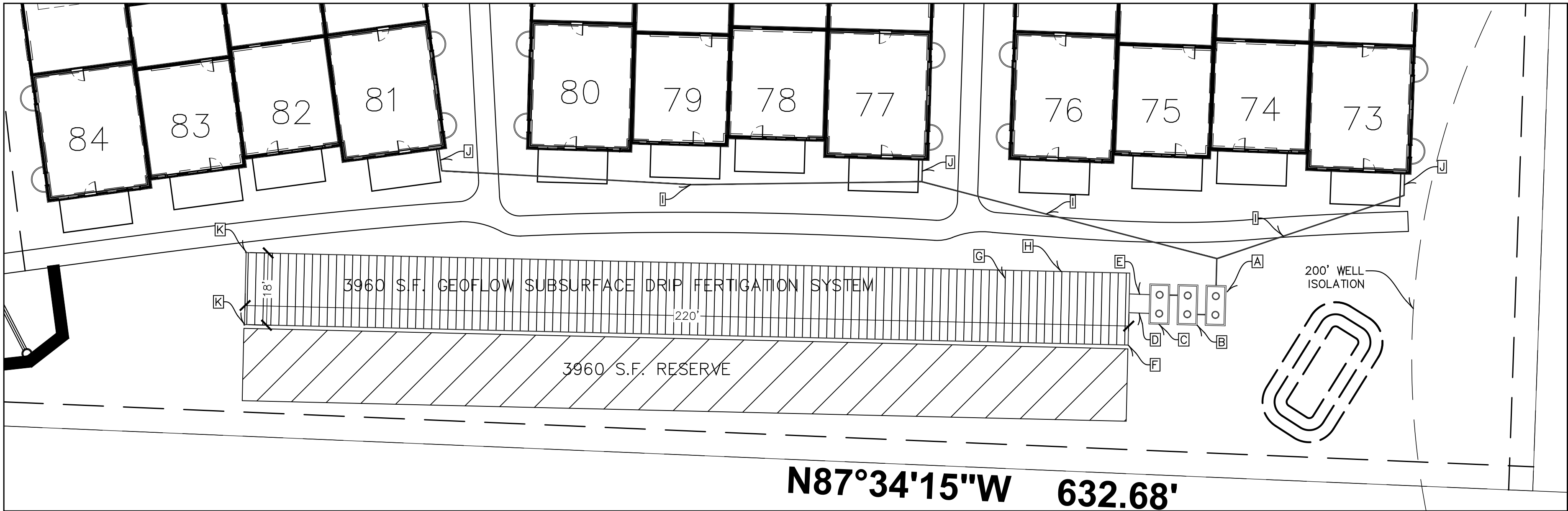
[H] 1"x½" SLIP/THREAD TEES W/ ½" WHITE POLYETHYLENE HOSE NIPPLE. (TYP. DRIP TUBING/MANIFOLD CONNECTION)

[I] 128 LF OF 8" DIA. SCH. 40 COLLECTION SEWER

[J] 4" DIA. SCH. 40 SANITARY STUB CONNECTION TO 8" DIA. SCH. 40 PVC COLLECTION SEWER W/ CLEANOUT & BACKFLOW PREVENTION. COORDINATE OUTLET LOCATION W/ M.E.P. DRAWINGS (TYP. HOUSE TO COLLECTION SEWER CONNECTION).

[K] 139 LF OF 8" DIA. SCH. 40 COLLECTION SEWER

[L] VACUUM BREAKER



WASTEWATER PLAN: SYSTEM "G"

WASTEWATER SYSTEM DATA

- (12) 3-BDRM HOMES
- DESIGN FLOW: 2772 GPD
- (3) DAY RET. VOL.: 8316 GAL.
- VOL. PROVIDED: 8550 GAL.
- EFFLUENT APPLICATION RATE: 0.7 GPD/SF
- 3960 SF. DISPOSAL AREA
- PUMPS: (2) 3/4 HP SUBMERSIBLE EFFLUENT: 16.2 GPM @ 50.4' TDH
- DOSE VOLUME: 58.3 GALLONS PER 30 MINUTES @ 16.2 GAL/MIN. OPERATE PUMP @ 4 MIN. ON/26 MIN. OFF

WASTEWATER SYSTEM NOTES

[A] 3350 GAL. SINGLE COMP. SEPTIC TANK W/ (2) S-86 ABG'S & 12" MEDUSA DIFFUSER

[B] 2600 GAL. DBL. COMP. SEPTIC TANK. 1ST CHAMBER: (1) S-86 ABG. 2ND CHAMBER: (1) 12" MEDUSA

[C] 2600 GAL. DBL. COMP. TANK. 1ST CHAMBER: CLARIFICATION & 1" RECIRC. AIR PUMP TO 1ST TANK FOR ADD'L TREATMENT. 2ND CHAMBER: (2) 3/4 HP EFFLUENT PUMPS

[D] 1" SCH. 40 PVC SUPPLY FORCEMAIN TO DISPOSAL FIELD SUPPLY MANIFOLD

[E] 1" SCH. 40 PVC RETURN FORCEMAIN TO 1ST CHAMBER OF TANK "C"

[F] 1" SCH. 40 PVC SUPPLY MANIFOLD TO SUPPLY ½" GEOFLOW SUBSURFACE DRIP TUBING

[G] ½" GEOFLOW SUBSURFACE DRIP TUBING @ 2' O.C. W/ NANO-ROOTGUARD EMITTERS @ 1' O.C.

[H] 1"x½" SLIP/THREAD TEES W/ ½" WHITE POLYETHYLENE HOSE NIPPLE. (TYP. DRIP TUBING/MANIFOLD CONNECTION)

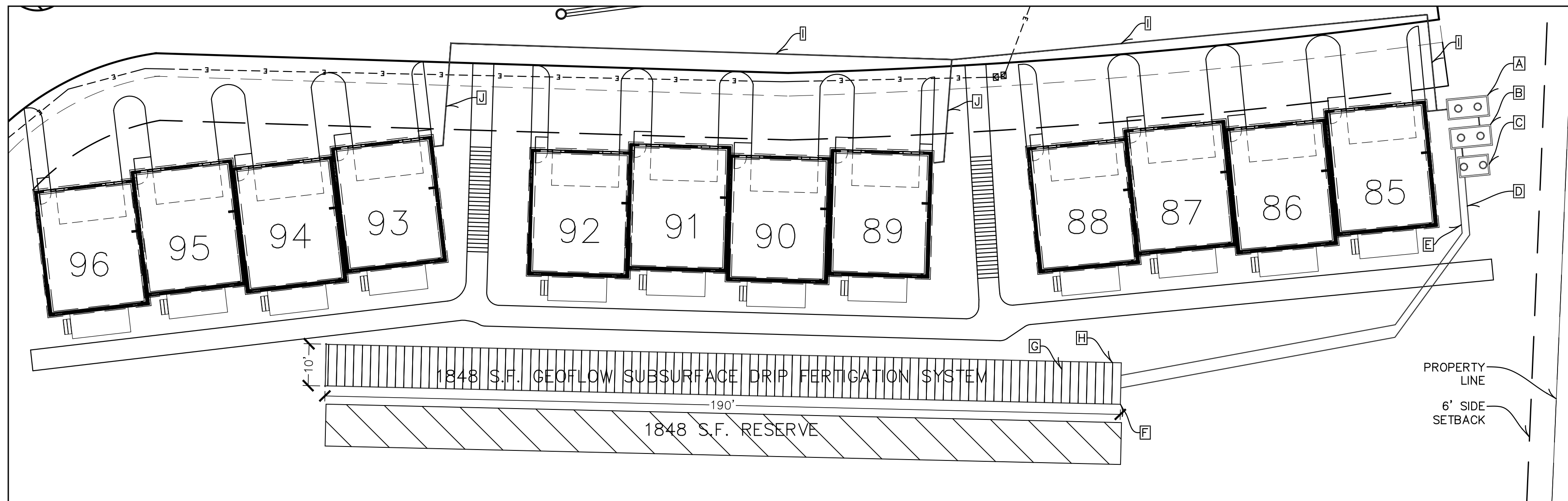
[I] 250 LF OF 8" DIA. SCH. 40 COLLECTION SEWER

[J] 4" DIA. SCH. 40 SANITARY STUB CONNECTION TO 8" DIA. SCH. 40 PVC COLLECTION SEWER W/ CLEANOUT & BACKFLOW PREVENTION. COORDINATE OUTLET LOCATION W/ M.E.P. DRAWINGS (TYP. HOUSE TO COLLECTION SEWER CONNECTION).

[K] VACUUM BREAKER

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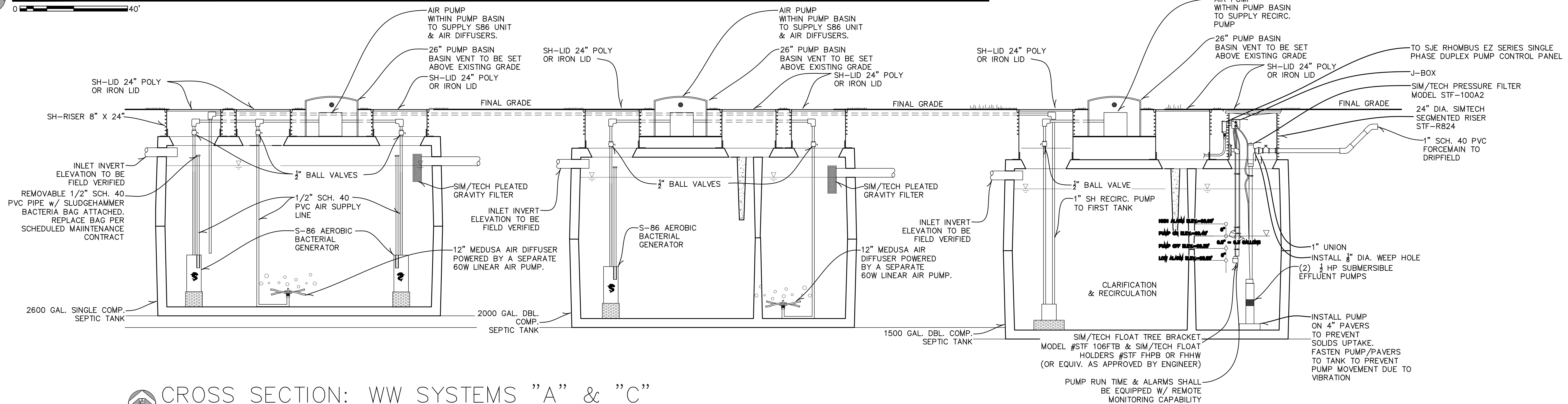
WASTEWATER PLAN: SYSTEM "H"

WASTEWATER SYSTEM NOTES

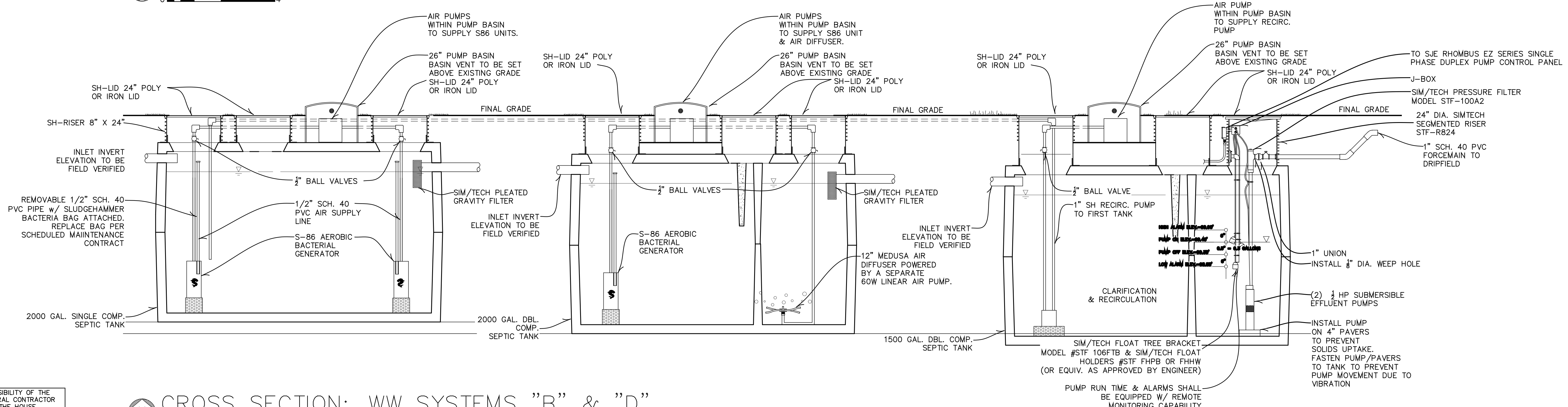
- [A] 2600 GAL. SINGLE COMP. SEPTIC TANK W/ (2) S-86 ABG'S & 12" MEDUSA DIFFUSER
- [B] 2600 GAL. DBL. COMP. SEPTIC TANK. 1ST CHAMBER: (1) S-86 ABG. 2ND CHAMBER: (1) 12" MEDUSA DIFFUSER.
- [C] 1500 GAL. DBL. COMP. TANK. 1ST CHAMBER: CLARIFICATION & 1" RECIRC. AIR PUMP TO 1ST TANK. 2ND CHAMBER: (2) 1 HP SUBMERSIBLE EFFLUENT PUMPS
- [D] 1" SCH. 40 PVC SUPPLY FORCEMAIN TO DISPOSAL FIELD SUPPLY MANIFOLD
- [E] 1" SCH. 40 PVC RETURN FORCEMAIN TO 2ND CHAMBER OF TANK "B"
- [F] 1" SCH. 40 PVC SUPPLY MANIFOLD TO SUPPLY 1/2" GEOFLOW SUBSURFACE DRIP TUBING
- [G] 1/2" GEOFLOW SUBSURFACE DRIP TUBING @ 2' O.C. W/ NANO-ROOTGUARD EMITTERS @ 1' O.C.
- [H] 1"x3/4" SLIP/THREAD TEES W/ 1/2" WHITE POLYETHYLENE HOSE NIPPLE. (TYP. DRIP TUBING/MANIFOLD CONNECTION)
- [I] 234 LF OF 8" DIA. SCH. 40 COLLECTION SEWER
- [J] 4" DIA. SCH. 40 SANITARY STUB CONNECTION TO 8" DIA. SCH. 40 PVC COLLECTION SEWER W/ CLEANOUT & BACKFLOW PREVENTION. COORDINATE OUTLET LOCATION W/ M.E.P. DRAWINGS(TYP. HOUSE TO COLLECTION SEWER CONNECTION).

WASTEWATER SYSTEM DATA

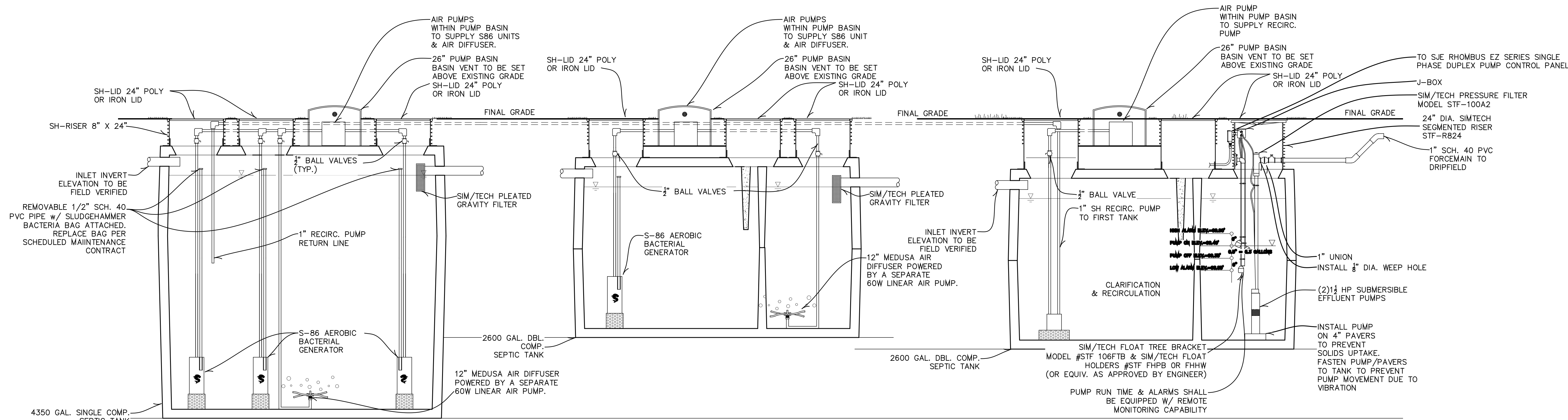
1. (12) 2-BDRM HOMES
2. DESIGN FLOW: 1848 GPD
3. (3) DAY RET. VOL.: 5544 GAL.
4. VOL. PROVIDED: 5950 GAL.
5. EFFLUENT APPLICATION RATE: 1.0 GPD/SF
6. 1848 SF. DISPOSAL AREA MIN.(1900 SF PROVIDED)
7. PUMPS: (2) 1 HP SUBMERSIBLE EFFLUENT: 7.55 GPM @ 63.4' TDH
8. DOSE VOLUME: 38.5 GALLONS PER 30 MINUTES @ 7.55 GAL/MIN. OPERATE PUMP @ 5.5 MIN. ON/24.5 MIN. OFF



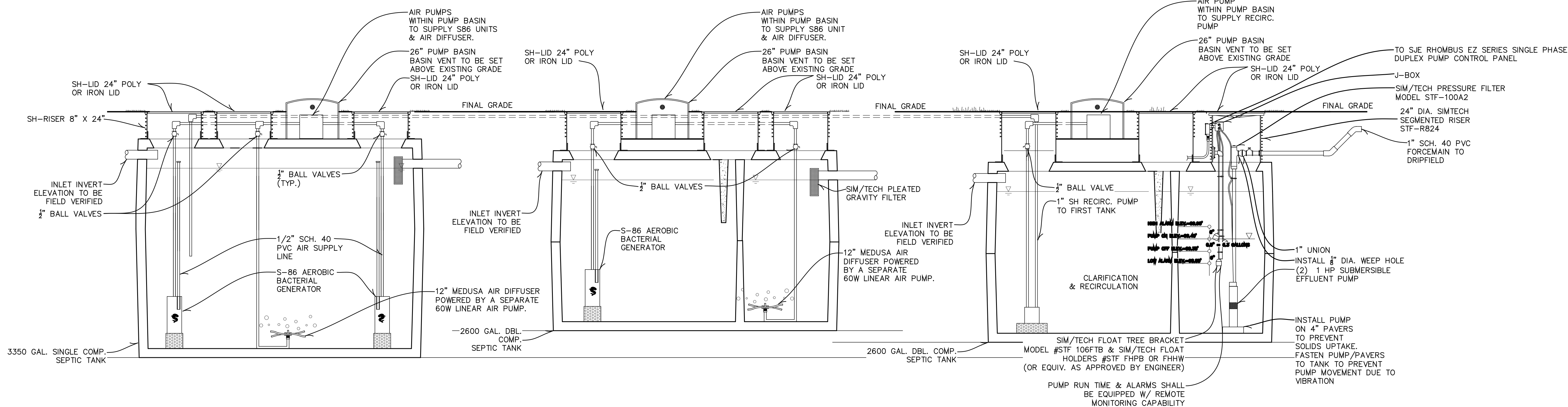
CROSS SECTION: WW SYSTEMS "A" & "C"



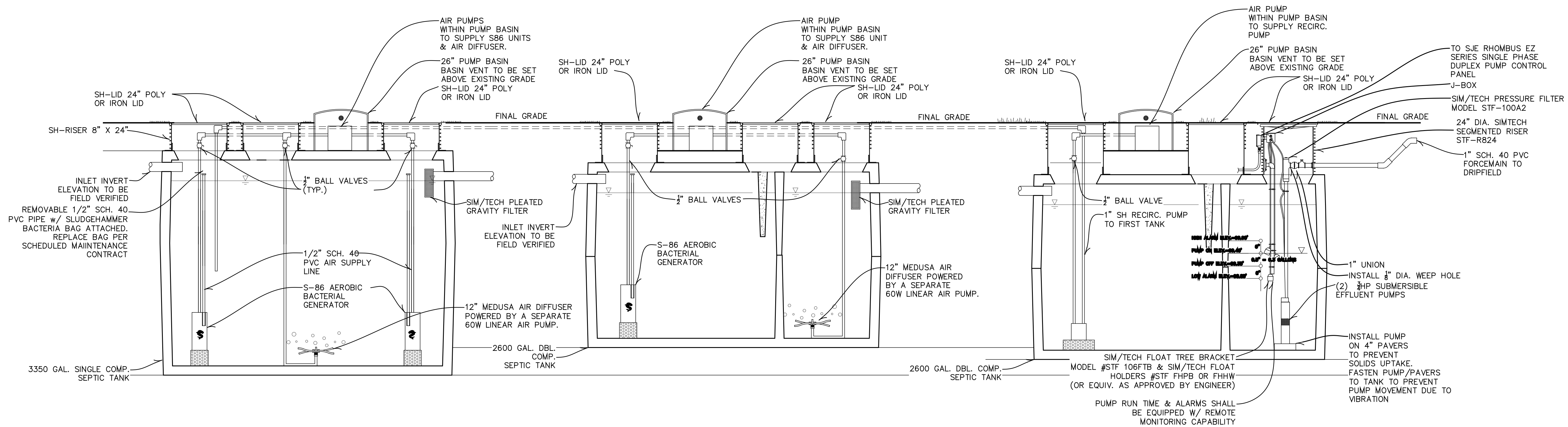
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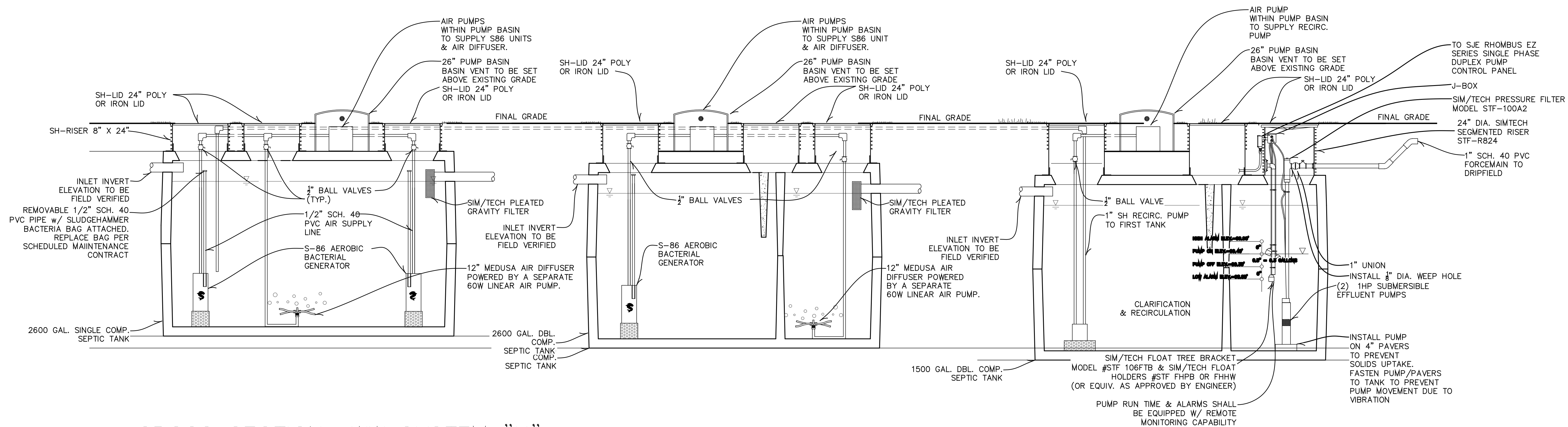
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CROSS SECTION: WW SYSTEM "F"



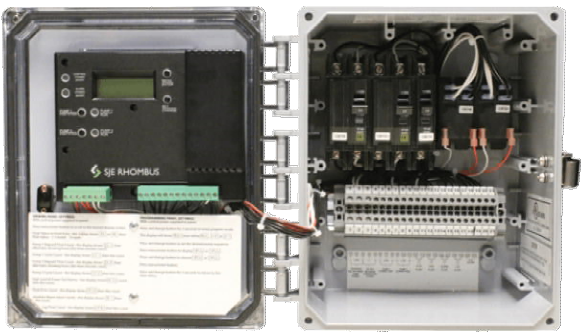
CROSS SECTION: WW SYSTEM "G"



CROSS SECTION: WW SYSTEM "H"

EZ Series® Single Phase Duplex

Single Phase Duplex Demand



The EZ Series® Single Phase Duplex control panel is designed to control two alternating 120/208/240V single phase pumps in water and wastewater installations. It features a digital display on the inside of the front cover for programming and system monitoring.

The optional mounting post features a removable access cover to allow for easier wiring. The post can be mounted in the ground, directly over a 4×4, or conduit.

Reg. Cdn. Pat. & TM Off

Features

Digital Display Features:

- Float status
- Elapsed time pump run
- Cycle counter
- Alarm counts (high water/power fail)
- Float error count
- Auxiliary alarm counter

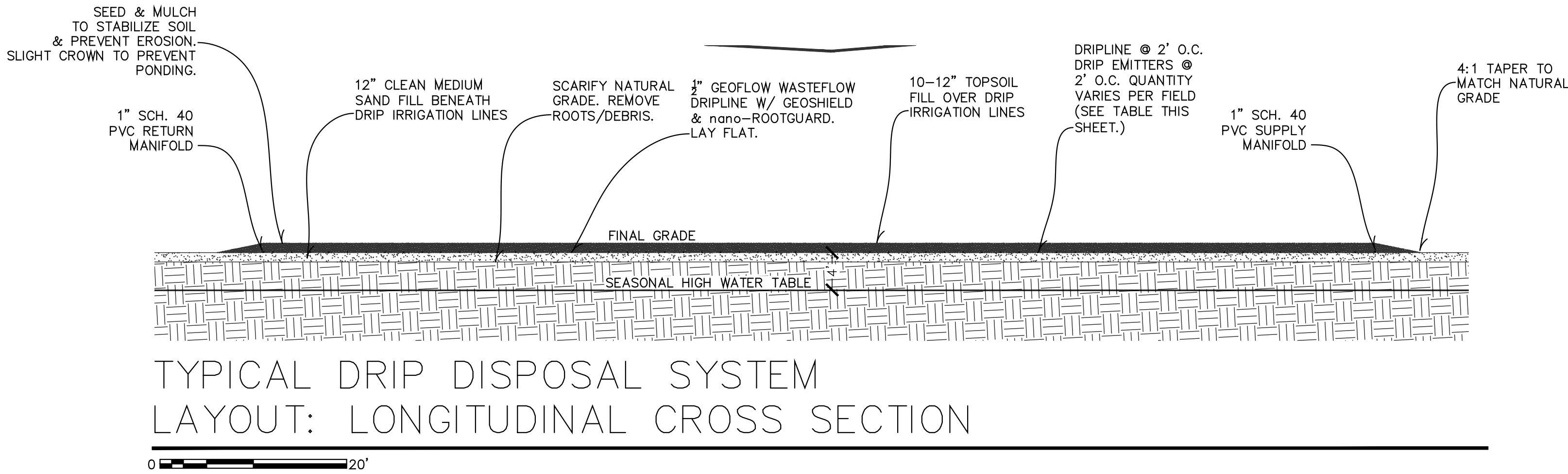
Panel Features:

- NEMA 4X enclosure with locking latch
- Red LED alarm beacon on cover provides visual check of alarm condition
- Exterior alarm test/silence switch allows horn and light to be tested and horn to be silenced in an alarm condition; alarm automatica resets once alarm condition is cleared
- Circuit breakers provide pump power disconnect and branch circuit protection
- Circuit breaker provides control/alarm power disconnect
- Power relays control pump(s) by switch electrical lines
- Float connection terminal block
- Incoming control/alarm power and pump power terminal block
- Control and alarm power indicators
- LED display shows system information (pump elapsed time hh:mm, events/cycles)
- Menu/Enter and Set/Change buttons for viewing and programming panel settings
- Alarm horn provides audio warning of alarm condition

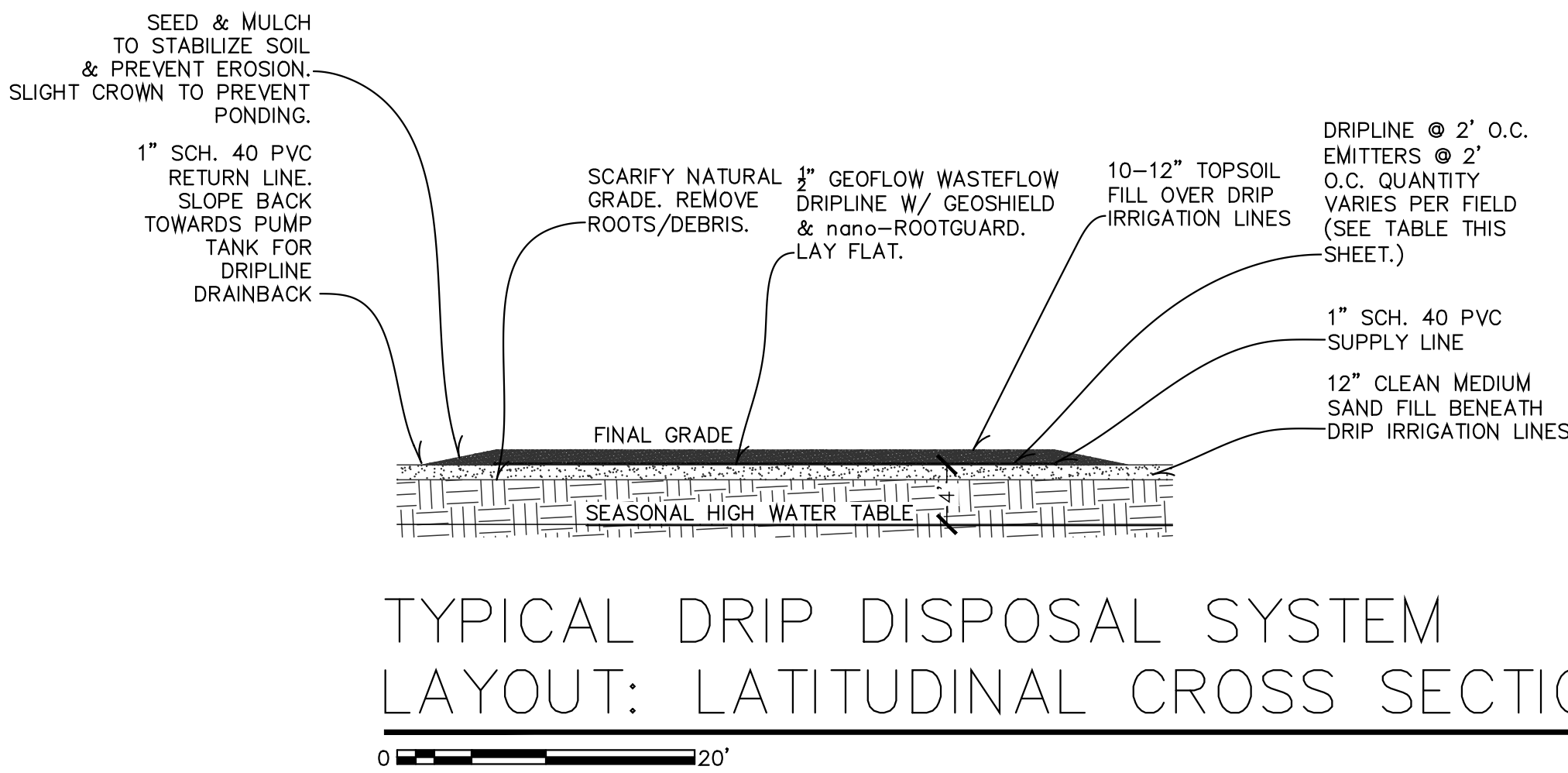
PUMP DETAIL

CONCRETE TANK INSTALLATION NOTES:

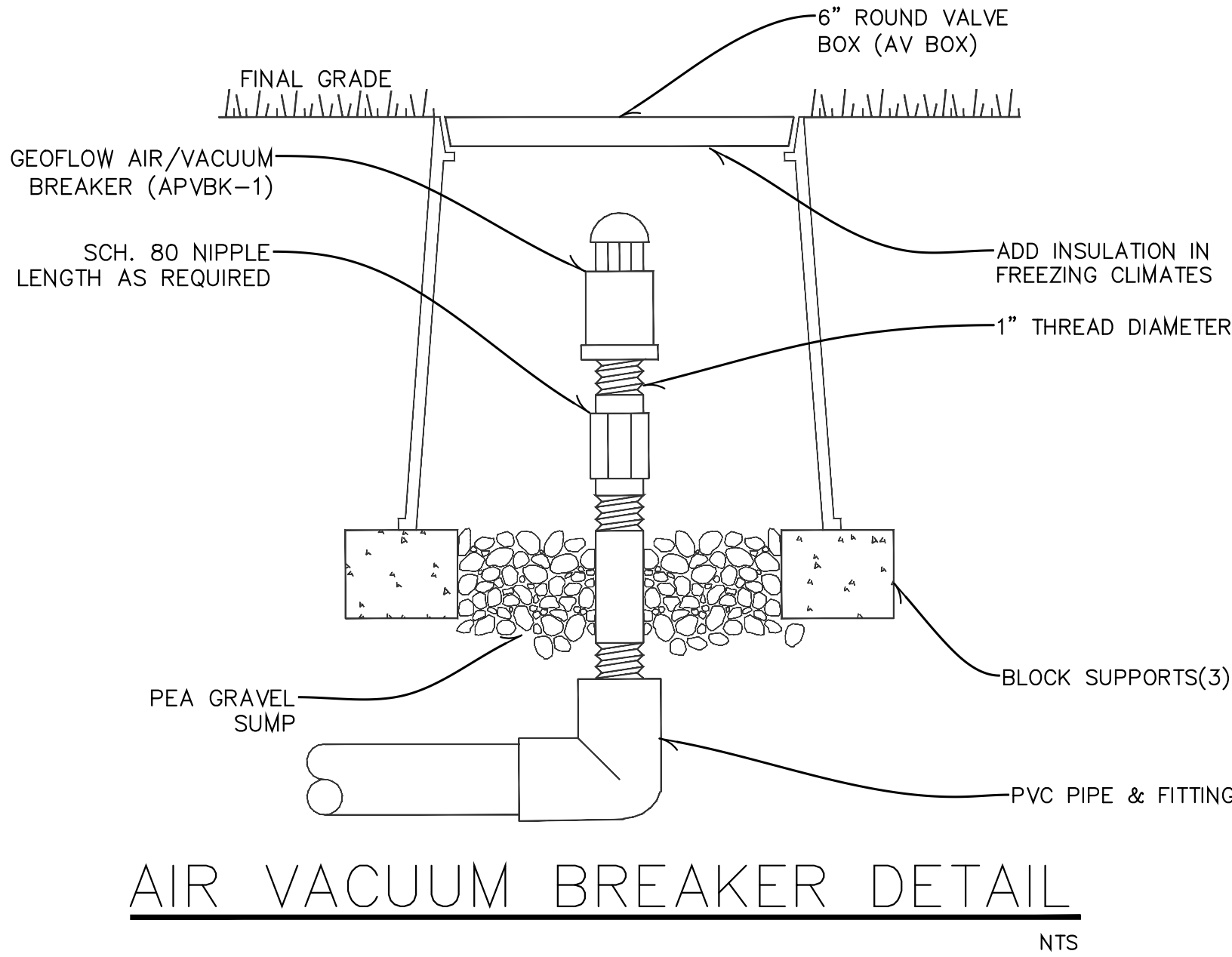
- DESIGN PER PERFORMANCE TEST PER ASTM C1227
- F'C @ 28 DAYS; CONCRETE = 6,000 PSI MIN.
- TANK TO BE SET ON 12" MIN. SAND BED OR PEA GRAVEL
- TANK TO BE BACKFILLED UNIFORMLY ON ALL SIDES IN LIFTS LESS THAN 24" AND MECHANICALLY COMPACTED
- EXCAVATED MATERIAL MAY BE USED FOR BACKFILL, PROVIDED LARGE STONES ARE REMOVED
- EXCAVATION SHOULD BE DEWATERED AND TANK FILLED WITH WATER PRIOR TO BEING PUT IN SERVICE FOR INSTALLATION WITH WATER TABLE LESS THAN 2' BELOW GRADE
- MEETS C1644-06 FOR RESILIENT CONNECTORS
- INLET AND OUTLET IDENTIFIED ABOVE PIPE
- DELIVERED COMPLETE WITH INTERNAL PIPING
- 4' MAXIMUM BURY DEPTH
- TANK DIMENSIONS/DETAIL MAY CHANGE DEPENDING ON CHOSEN TANK MANUFACTURER



TYPICAL DRIP DISPOSAL SYSTEM LAYOUT: LONGITUDINAL CROSS SECTION



TYPICAL DRIP DISPOSAL SYSTEM LAYOUT: LATITUDINAL CROSS SECTION



AIR VACUUM BREAKER DETAIL

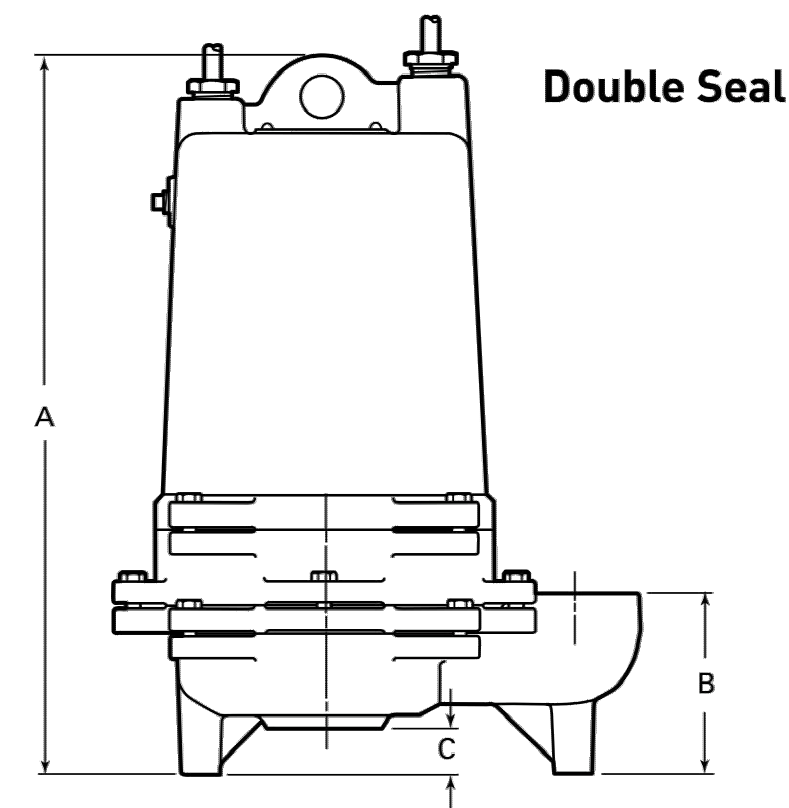
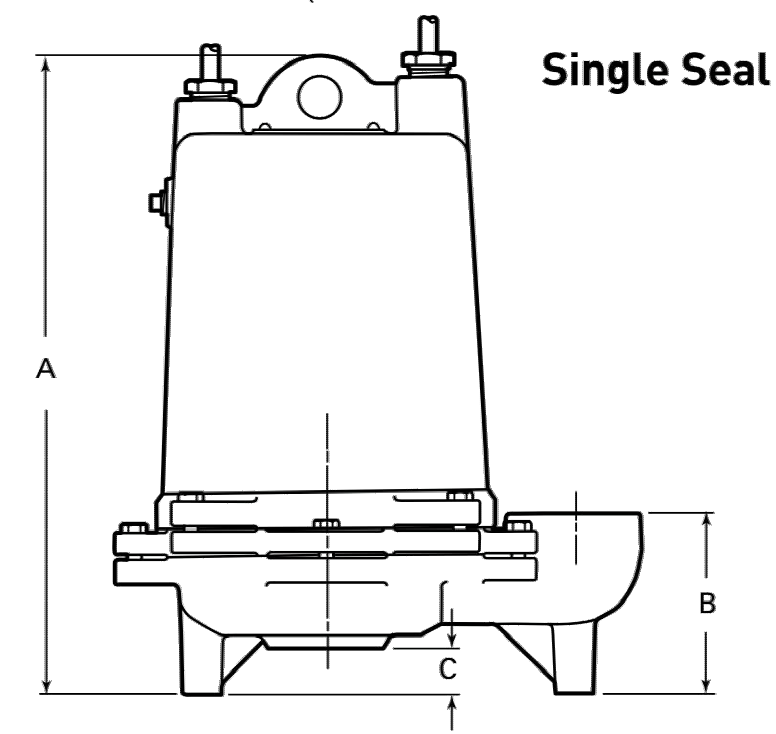
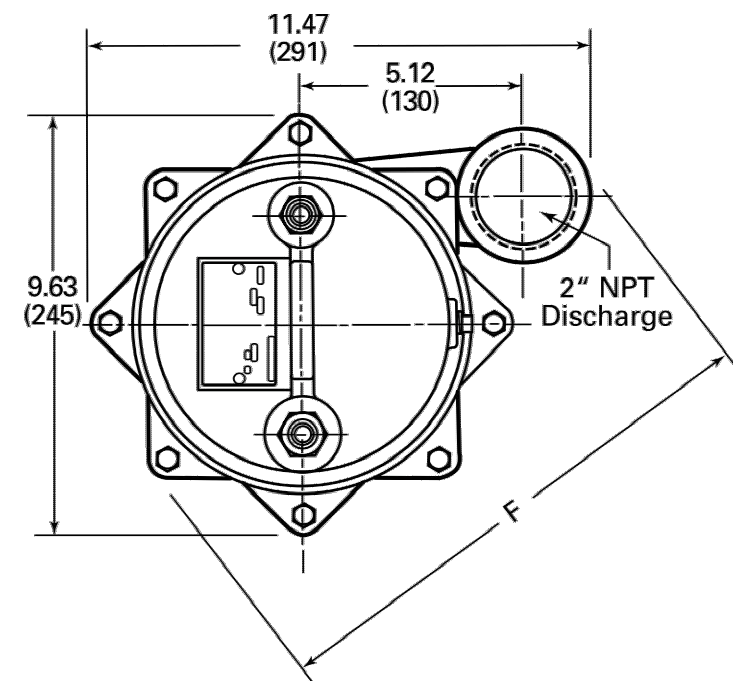
DRIPFIELD DESIGN SPECIFICATIONS

PER SLUDGEHAMMER GUIDANCE, EMITTERS ARE DESIGNED TO DISCHARGE 2–3 DRIPS/SEC.(0.98 GAL/HR)

SYSTEM	DISCHARGE VOLUME(GPD)	DOSE CYCLE	EMITTER DOSE	REQ'D DISPOSAL/ RESERVE AREA (FT^2)	# OF DRIPLINES	DRIPLINE LENGTH	# OF EMITTERS
SYSTEM A	2310	2x/HR	48.2 GAL	3850	59	1872 FT	936
SYSTEM B	1848	2x/HR	38.7 GAL	3080	57	1482 FT	741
SYSTEM C	2310	2x/HR	48.2 GAL	3850	59	1872 FT	936
SYSTEM D	1848	2x/HR	38.8 GAL	3080	51	1531 FT	765
SYSTEM E	4620	2x/HR	96.4 GAL	4620	120	2310 FT	1155
SYSTEM F	3696	2x/HR	77 GAL	3696	111	1848 FT	924
SYSTEM G	2772	2x/HR	58.3 GAL	3960	112	1980 FT	990
SYSTEM H	1848	2x/HR	38.5 GAL	1848	188	924 FT	462

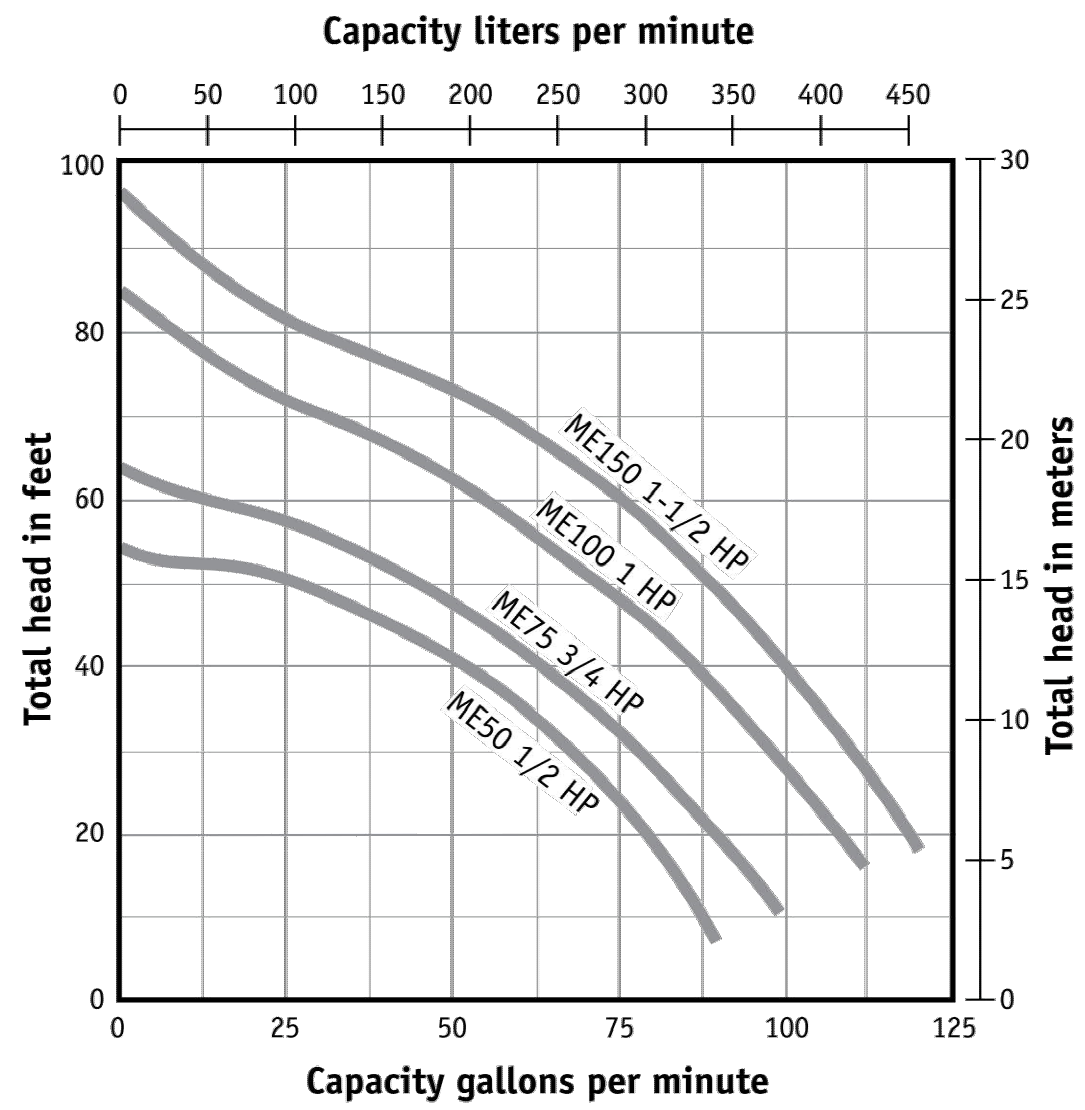
MYERS® ME SERIES

DIMENSIONS



Catalog Number	Inches (millimeters)			
	A	B	C	F
ME50S	16.8 (427)	4.09 (104)	1.03 (26)	12.13 (308)
ME50D	18.6 (472)	4.09 (104)	1.03 (26)	12.13 (308)
ME75S, ME100S, ME150S	16.8 (427)	4.0 (102)	1.06 (27)	12.5 (318)
ME75D, ME100D, ME150D	18.6 (472)	4.0 (102)	1.06 (27)	12.5 (318)

PUMP PERFORMANCE



EFFLUENT PUMP SELECTION SPECIFICATIONS

PUMP BRAND MAY BE CHANGED UPON CONSULTATION W/ ENGINEER

SYSTEM	DOSE RATE(GPM)	TOTAL DYNAMIC HEAD(FT)	PUMP SELECTION
SYSTEM A	15.3	46.5	ME50 1/2 HP
SYSTEM B	12.1	49.1	ME50 1/2 HP
SYSTEM C	15.3	46.5	ME50 1/2 HP
SYSTEM D	12.5	48.8	ME50 1/2 HP
SYSTEM E	18.9	73.4	ME150 1 1/2 HP
SYSTEM F	15.1	67	ME100 1 HP
SYSTEM G	16.2	50.4	ME75 3/4 HP
SYSTEM H	7.55	63.4	ME100 1 HP

