

ENVIROSERVER - ES SERIES ES4.5

DESCRIPTION:

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND SUSPENDED GROWTH WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS



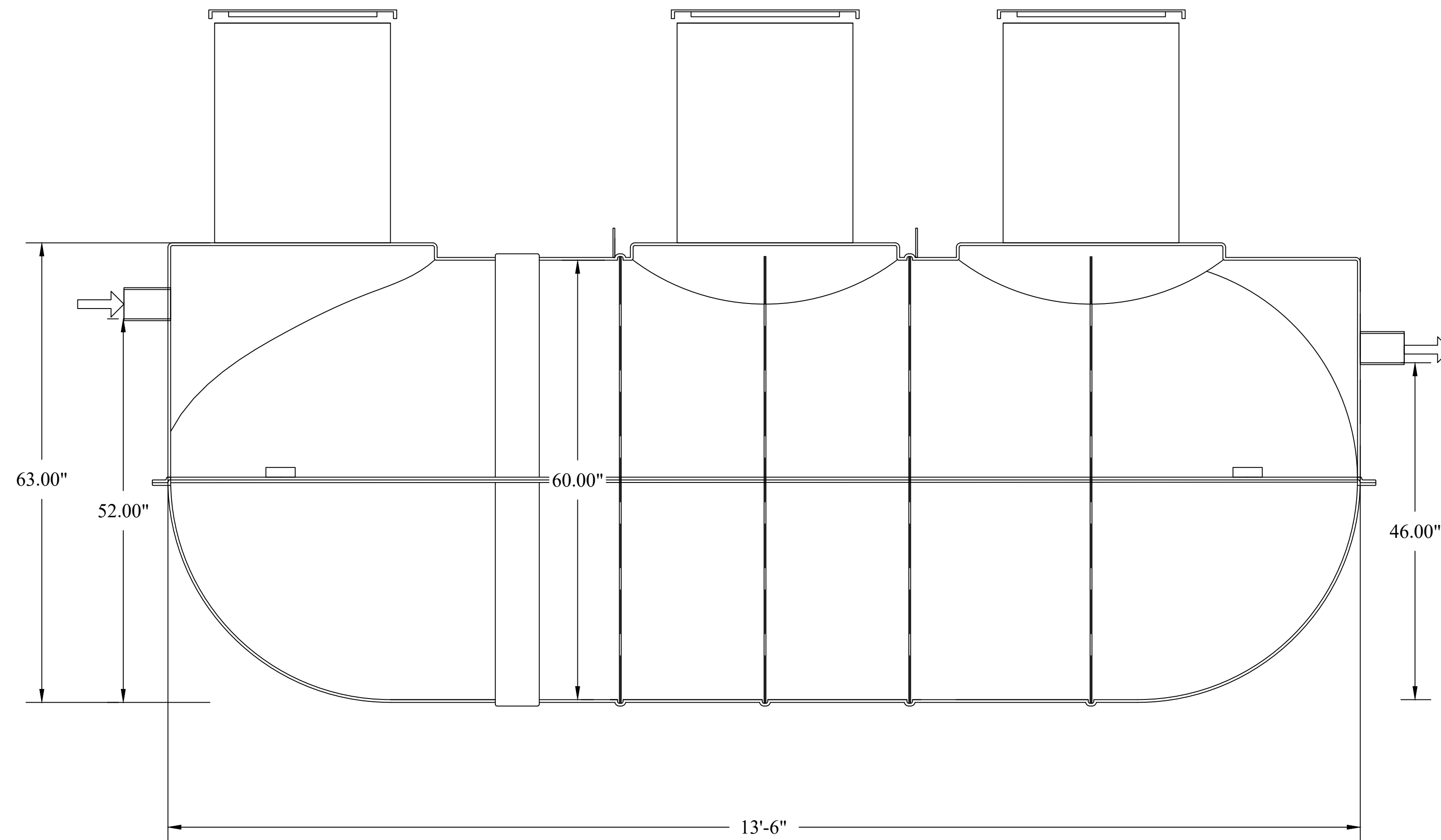
31 AFFONSO DRIVE
MOUND HOUSE, NV 89706
1(877)-4SEPTIC [1(877)473-7842]
WWW.MICROSEPTEC.COM

NOTES

- GENERAL:**
- THE MIDDLE THREE CHAMBERS SHOULD NEVER BE PUMPED DRY, ESPECIALLY IN HIGH GROUNDWATER CONDITIONS
 - RISERS AND RISER ADAPTERS NOT SUPPLIED BY MICROSEPTEC
 - PLUMBING DIMENSIONS FROM OUTSIDE EDGE OF TANK TO INVERT OF INLET AND OUTLET
 - CONTRACTOR TO PROVIDE ADDITIONAL PLUMBING FOR ANY BURIAL DEPTH GREATER THAN 4FT
 - SITE-SPECIFIC CHARACTERISTICS INCLUDING BUT NOT LIMITED TO: BURIAL DEPTH, TRAFFIC OR OTHER EXTERNAL LOADING, SEASONAL GROUNDWATER, AND SOIL CHARACTERISTICS SHOULD BE CONFIRMED WITH A LOCAL DESIGN ENGINEER BEFORE INSTALLATION

- TANK BURIAL:**
- THE DESIGNED TANK BURIAL DEPTH IS 2FT TO 6FT. ANY TANK BURIED BEYOND THAT RANGE MUST BE ANALYZED BY A LOCAL DESIGN ENGINEER
 - COVER TO BE A MINIMUM OF 2FT.
 - ENGINEERED BACKFILL TO BE A MINIMUM OF 12" ALONG SIDES AND BOTTOM OF TANK
 - GEOLOGIST OR GEOTECHNICAL ENGINEER TO DETERMINE IF ANCHORS AND TEXTILE FILTER ARE REQUIRED.
 - DEPTH OF SOIL SLOPE CUT PER LOCAL CODE OR SOIL REPORT
 - VERTICAL CUT FOR FILL HEIGHT CAN BE DONE IF APPROVED BY LOCAL CODE OR SOIL ENGINEER
 - GEOLOGIST OR GEOTECH ENGINEER SHOULD DETERMINE IF CORROSIVE RESISTANT MATERIAL SHOULD BE USED IN ANY STEEL PARTS EXPOSED IN THE SOIL.

DESIGN TREATMENT CAPACITY (gpd)	450
TOTAL TANK CAPACITY (gal)	1500
TOTAL LENGTH	13'-6"
DIAMETER (in.)	60
INLET HEIGHT (in.)	52
OUTLET HEIGHT (in.)	46



DRAWN:	DATE:	JOB NUMBER:
AJM	2/10/21	ES4.5

REVISION:		
REVISION:	DATE: BY:	DESCRIPTION:

SITE INFORMATION:

ES 4.5
ENVIROSERVER
ADVANCED WASTEWATER
TREATMENT SYSTEM

SHEET TITLE:

ES4.5

SHEET NUMBER:

1 OF 1

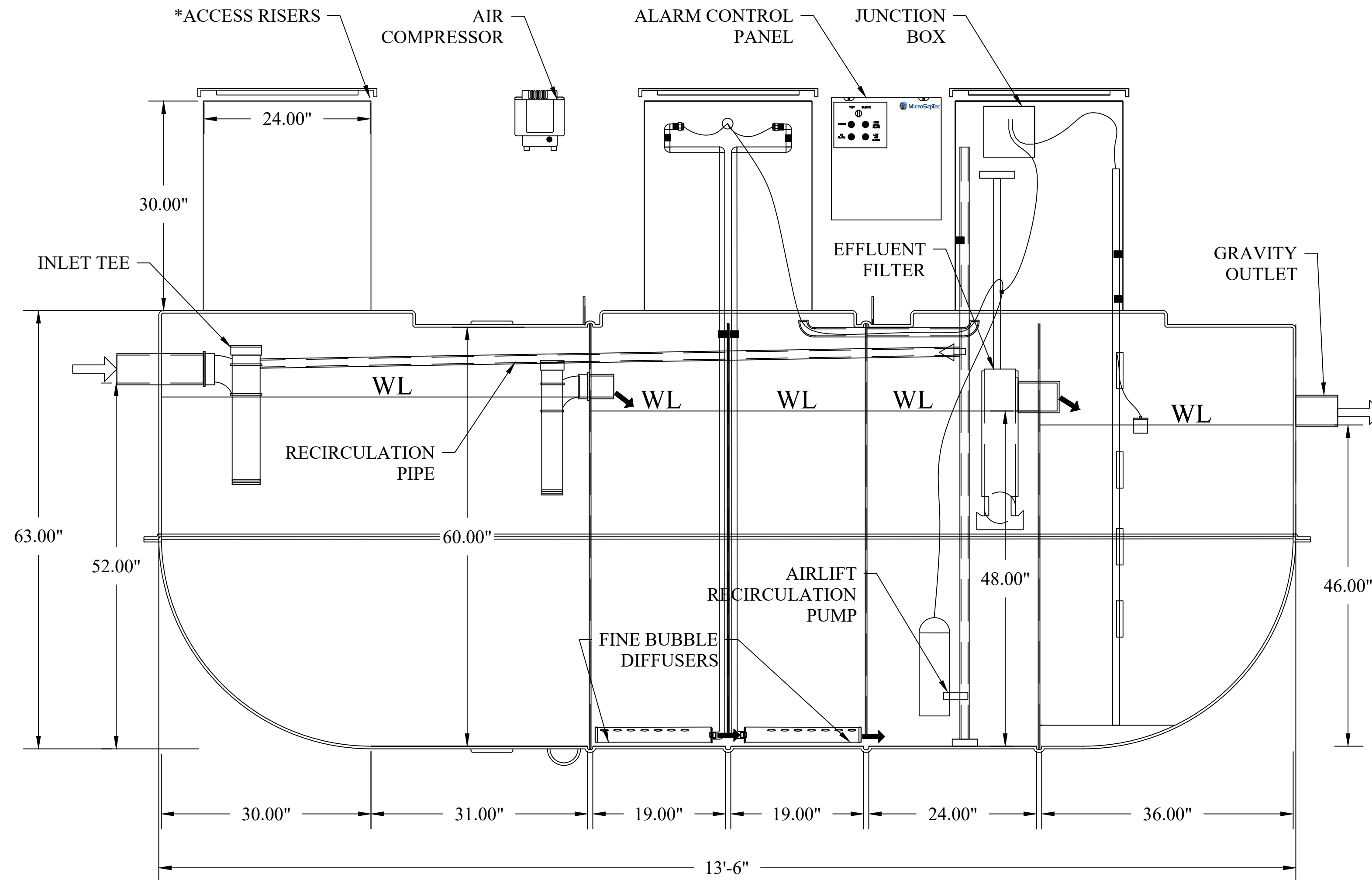
ENVIROSERVER - ES SERIES ES4.5-GRAV/SOL-MST



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OUTLET HEIGHT (in.)	46
BIOMEDIA VOLUME (cu.ft.)	15
AIR DIFFUSER	2-EDI FINE BUBBLE
AIR COMPRESSOR	HIBLOW 100LL
RECIRCULATION CONTROL	SOLENOID
ALARM CONTROL PANEL	MCPR-G
TELEMETRY	OPTIONAL

NOTES

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1 OF 1

ES4.5 CHAMBER VOLUMES

PRIMARY SETTLING	AERATION 1	AERATION 2	CLARIFIER	PUMP CHAMBER
564	200	200	252	268

NOTES:

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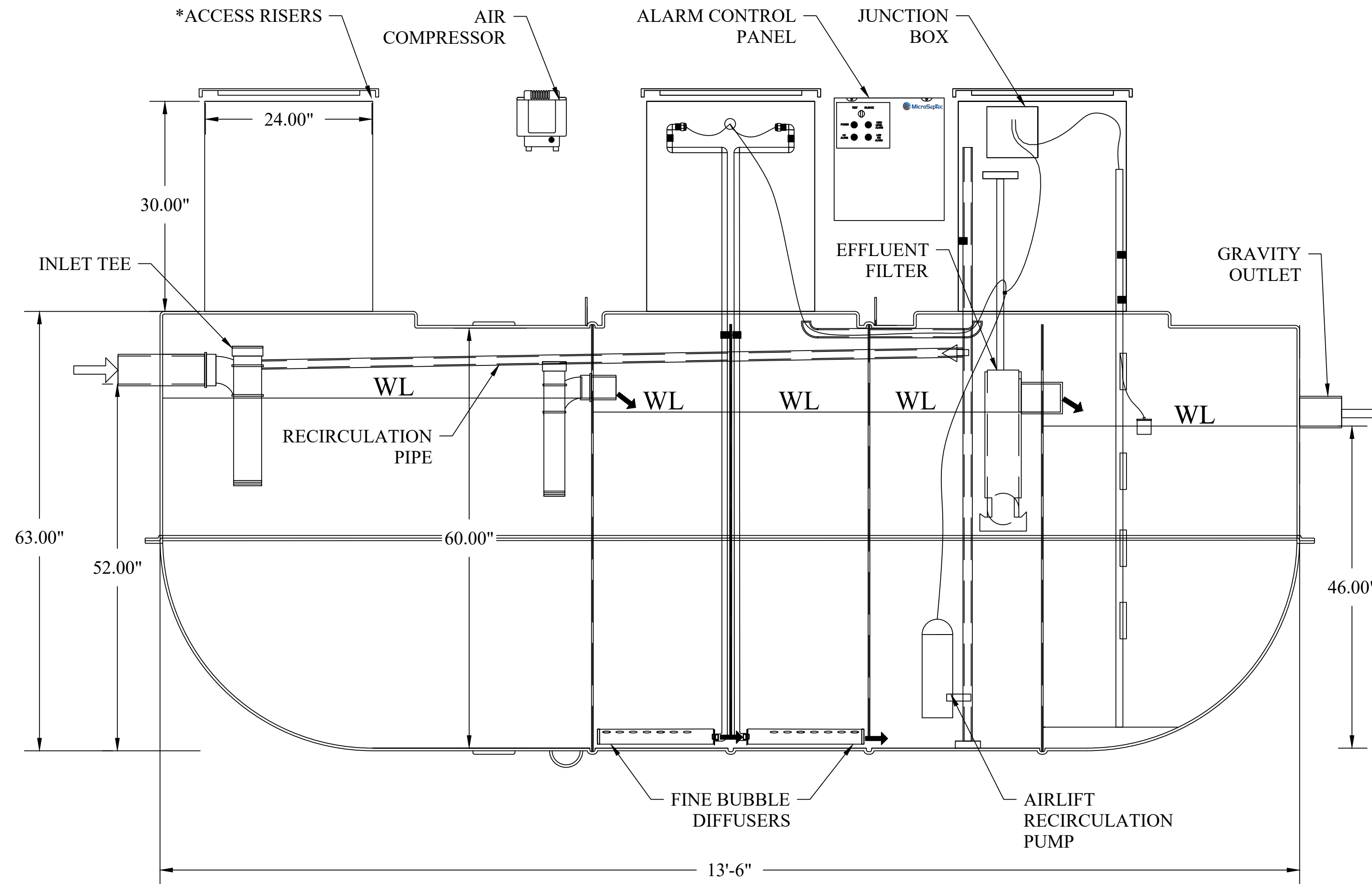


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BIOMEDIA VOLUME (cu.ft.)	15
AIR DIFFUSER	2-EDI FINE BUBBLE
AIR COMPRESSOR	HIBLOW 100LL
RECIRCULATION CONTROL	SOLENOID
ALARM CONTROL PANEL	MCPR-G
TELEMETRY	OPTIONAL

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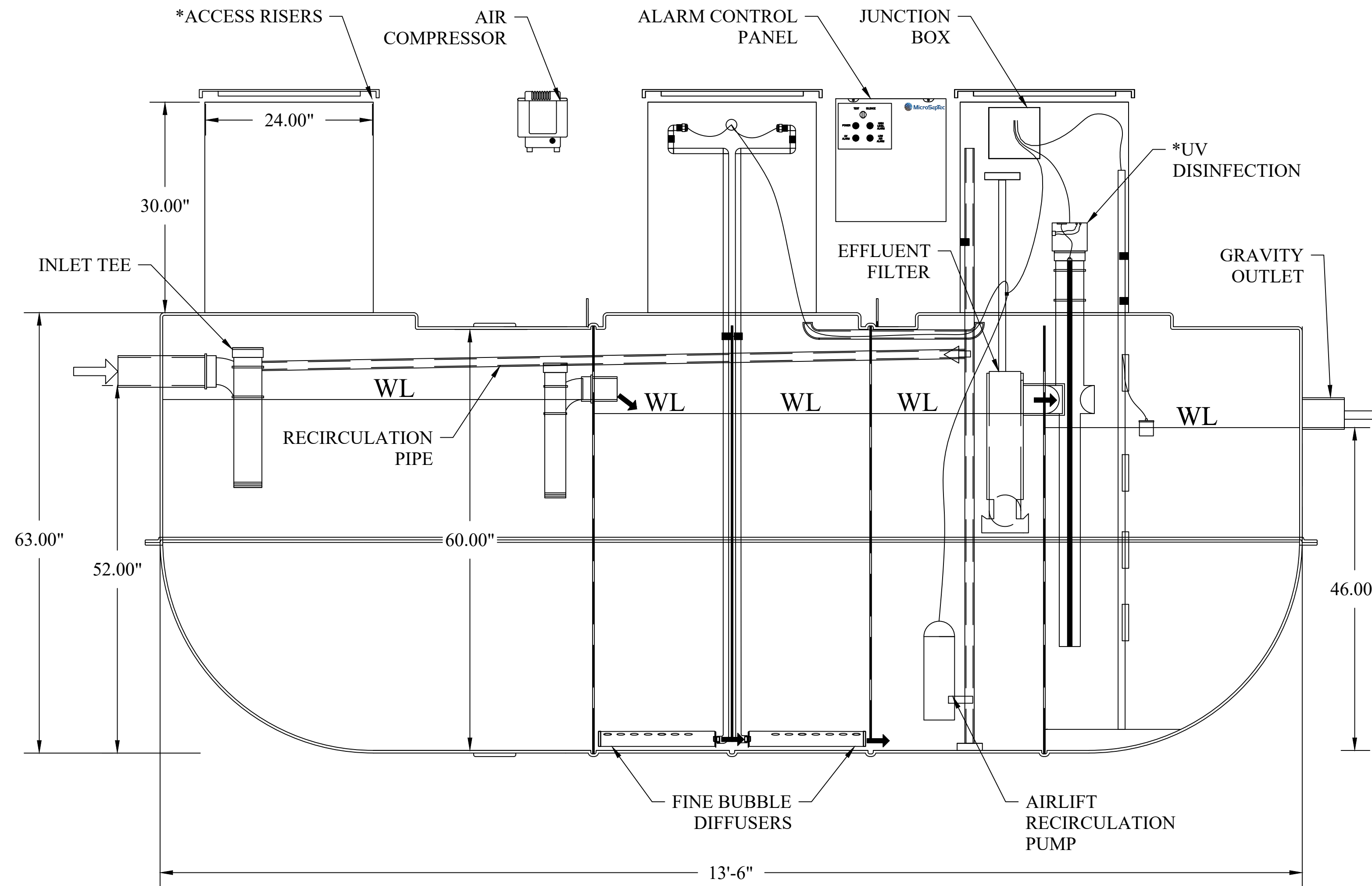
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TELEMETRY	OPTIONAL
DISINFECTION	SALCOR 3G

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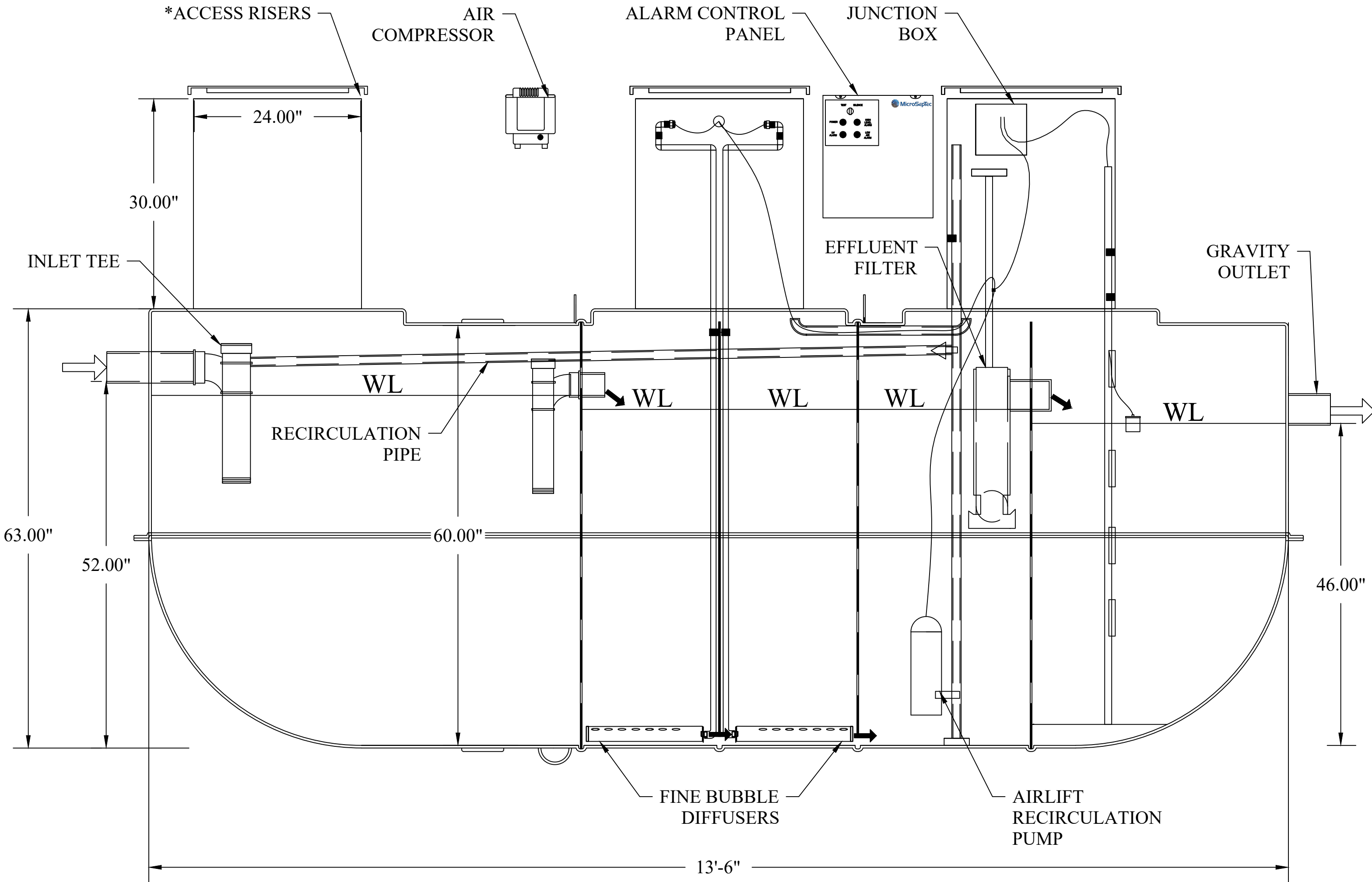


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ALARM CONTROL PANEL	MCP-G
TELEMETRY	OPTIONAL

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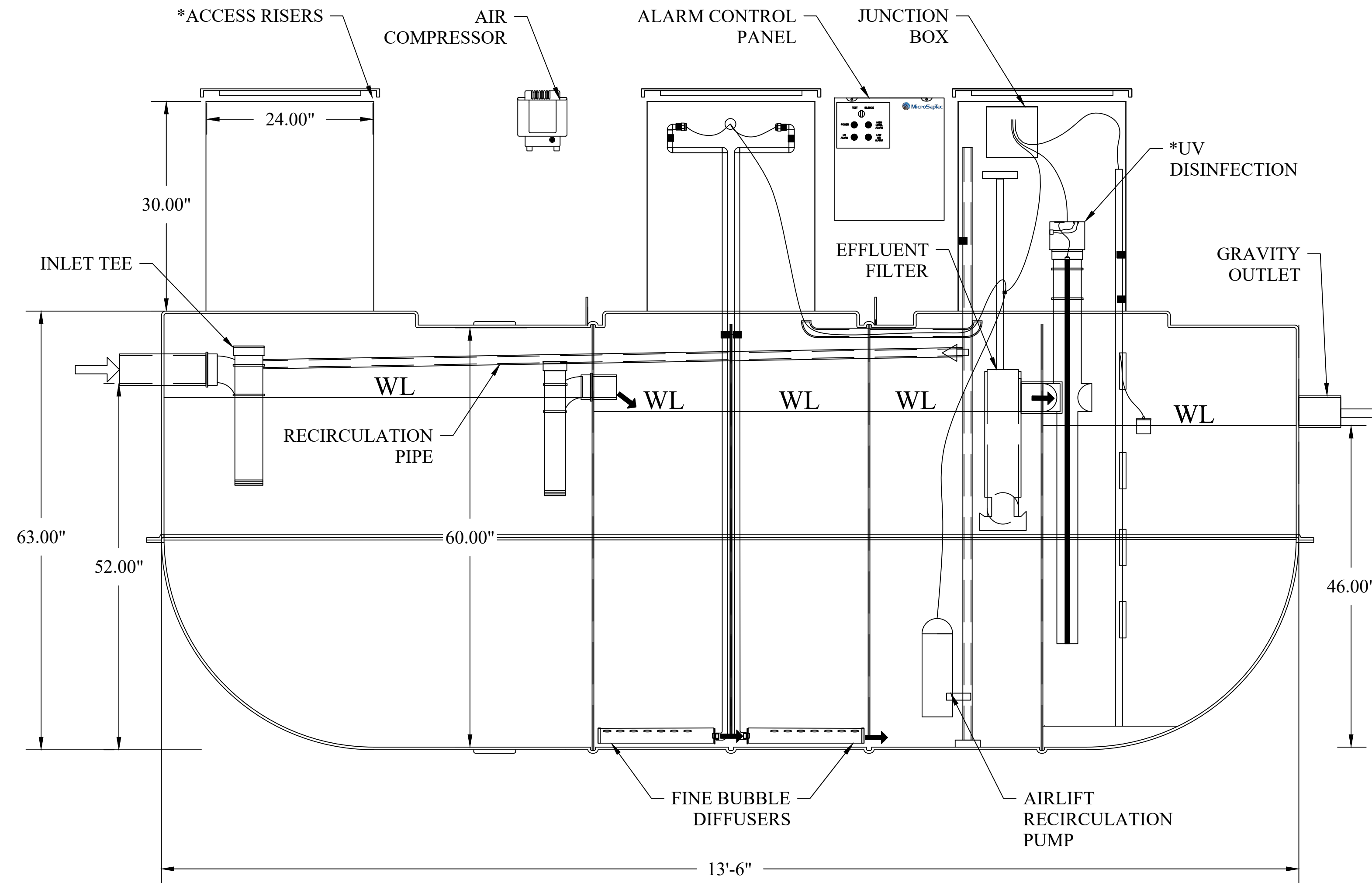
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ADVANCED WASTEWATER
TREATMENT SYSTEM

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1 OF 1

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ENVIROSERVER - ES SERIES ES4.5-GRAV/MRP

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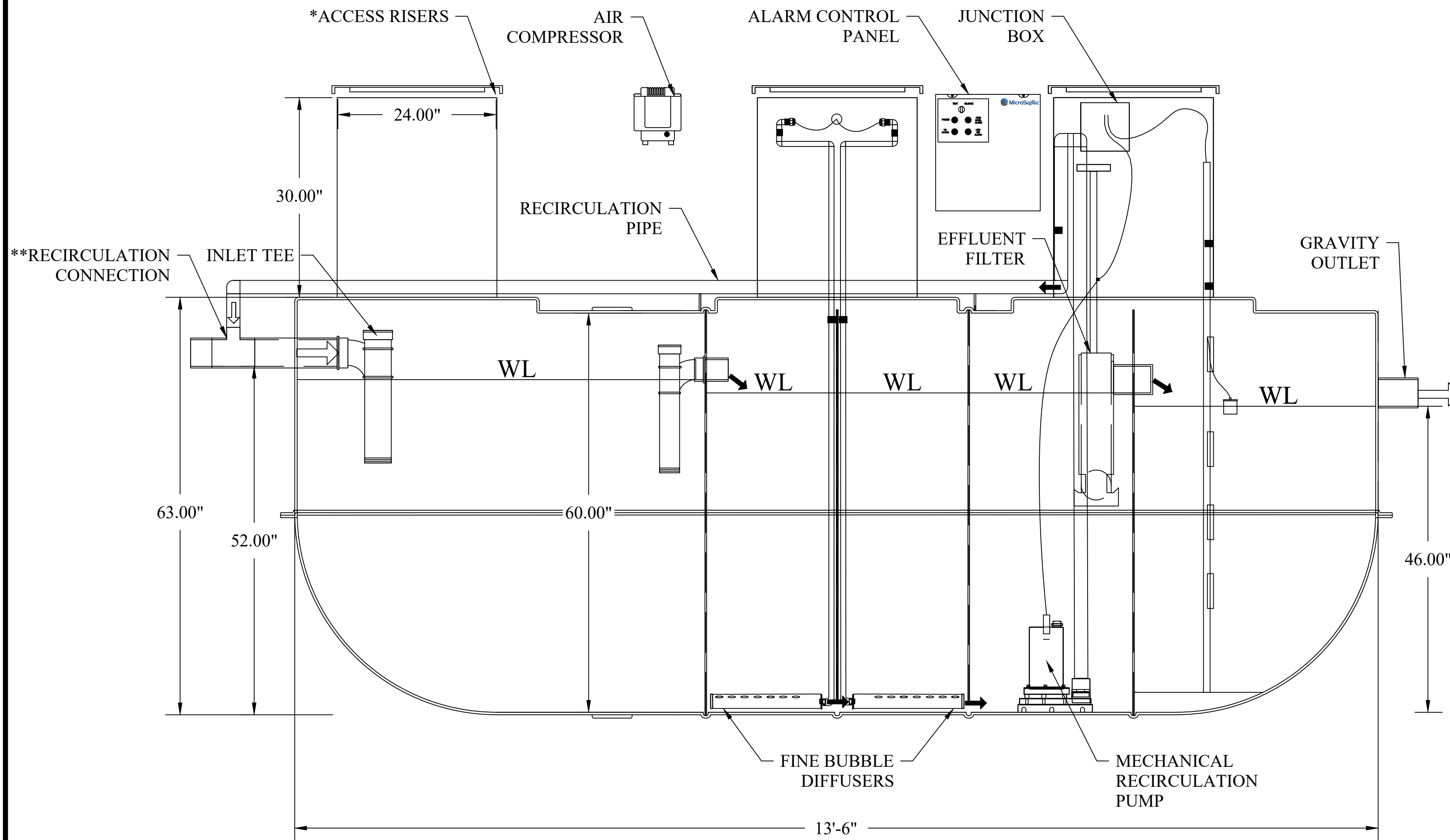
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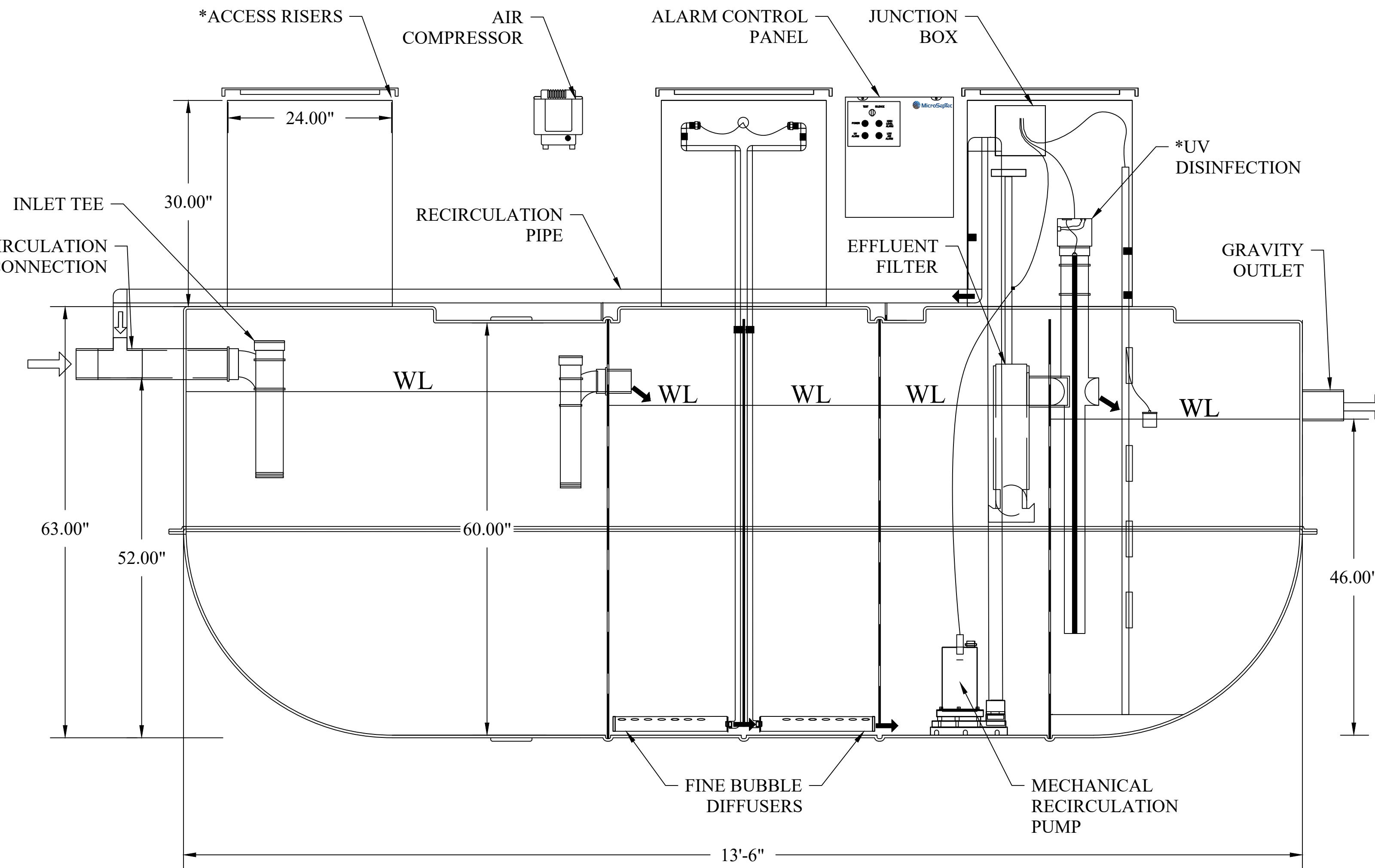
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- TANK BURIAL:
6. THE DESIGNED TANK BURIAL DEPTH IS 2FT TO 6FT. ANY TANK BURIED BEYOND THAT RANGE MUST BE ANALYZED BY A LOCAL DESIGN ENGINEER
 7. COVER TO BE A MINIMUM OF 2FT.
 8. ENGINEERED BACKFILL TO BE A MINIMUM OF 12" ALONG SIDES AND BOTTOM OF TANK
 9. GEOLOGIST OR GEOTECHNICAL ENGINEER TO DETERMINE IF ANCHORS AND TEXTILE FILTER ARE REQUIRED.
 10. DEPTH OF SOIL SLOPE CUT PER LOCAL CODE OR SOIL REPORT
 11. VERTICAL CUT FOR FILL HEIGHT CAN BE DONE IF APPROVED BY LOCAL CODE OR SOIL ENGINEER
 12. GEOLOGIST OR GEOTECH ENGINEER SHOULD DETERMINE IF CORROSIVE RESISTANT MATERIAL SHOULD BE USED IN ANY STEEL PARTS EXPOSED IN THE SOIL

DESIGN TREATMENT CAPACITY (gpd)	450
TOTAL TANK CAPACITY (gal)	1500
TOTAL LENGTH	13'-6"
DIAMETER (in.)	60
INLET HEIGHT (in.)	52
OUTLET HEIGHT (in.)	46
BIOMEDIA VOLUME (cu.ft.)	15
AIR DIFFUSER	2-EDI FINE BUBBLE
AIR COMPRESSOR	HIBLOW 100LL
RECIRCULATION CONTROL	MECHANICAL
ALARM CONTROL PANEL	MCPR-DP
TELEMETRY	OPTIONAL
DISCHARGE PUMP	SIMPLEX OR DUPLEX

DRAWN:	DATE:	JOB NUMBER:
AJM	2/10/21	ES4.5

REVISION:		
REVISION:	DATE:	DESCRIPTION:
BY:		

SITE INFORMATION:

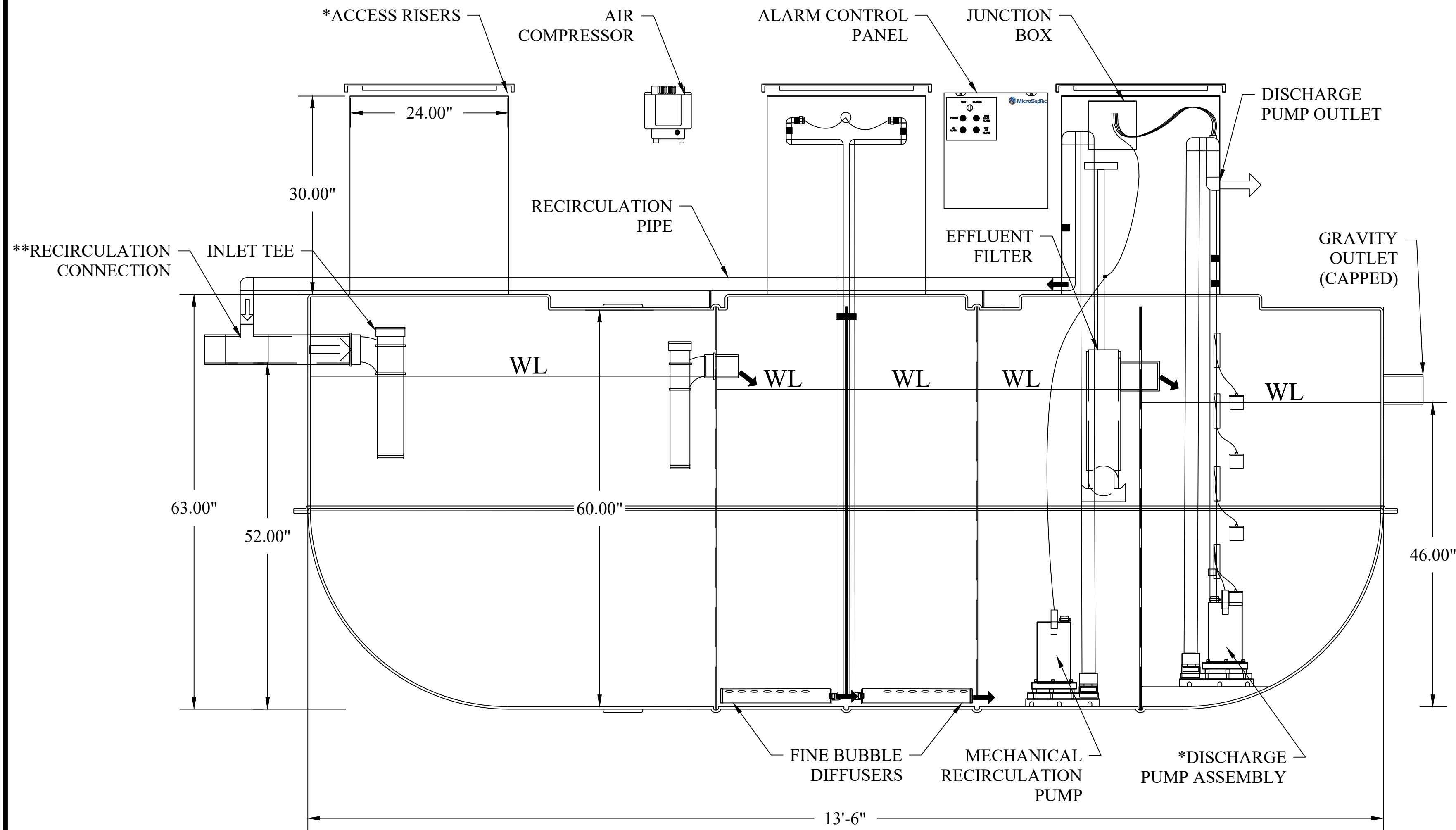
ES 4.5
ENVIROSERVER
ADVANCED WASTEWATER
TREATMENT SYSTEM

SHEET TITLE:

ES4.5-PUMP/MRP

SHEET NUMBER:

1 OF 1



NOTES:

- *MATERIALS NOT SUPPLIED BY MICROSEPTEC
- **RECIRCULATION CONNECTION MUST BE LOCATED AT A MINIMUM OF 3FT FROM THE TANK

ENVIROSERVER - ES SERIES ES4.5-PUMP/MRP/UV



31 AFFONSO DRIVE
MOUND HOUSE, NV 89706
1(877)-4SEPTIC [1(877)473-7842]
WWW.MICROSEPTEC.COM

DESCRIPTION:

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND SUSPENDED GROWTH WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS

NOTES

- GENERAL:
1. THE MIDDLE THREE CHAMBERS SHOULD NEVER BE PUMPED DRY, ESPECIALLY IN HIGH GROUNDWATER CONDITIONS
 2. RISERS AND RISER ADAPTERS NOT SUPPLIED BY MICROSEPTEC
 3. PLUMBING DIMENSIONS FROM OUTSIDE EDGE OF TANK TO INVERT OF INLET AND OUTLET
 4. CONTRACTOR TO PROVIDE ADDITIONAL PLUMBING FOR ANY BURIAL DEPTH GREATER THAN 4FT
 5. SITE-SPECIFIC CHARACTERISTICS INCLUDING BUT NOT LIMITED TO: BURIAL DEPTH, TRAFFIC OR OTHER EXTERNAL LOADING, SEASONAL GROUNDWATER, AND SOIL CHARACTERISTICS SHOULD BE CONFIRMED WITH A LOCAL DESIGN ENGINEER BEFORE INSTALLATION

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6. THE DESIGNED TANK BURIAL DEPTH IS 2FT TO 6FT. ANY TANK BURIED BEYOND THAT RANGE MUST BE ANALYZED BY A LOCAL DESIGN ENGINEER
 7. COVER TO BE A MINIMUM OF 2FT.
 8. ENGINEERED BACKFILL TO BE A MINIMUM OF 12" ALONG SIDES AND BOTTOM OF TANK
 9. GEOLOGIST OR GEOTECHNICAL ENGINEER TO DETERMINE IF ANCHORS AND TEXTILE FILTER ARE REQUIRED.
 10. DEPTH OF SOIL SLOPE CUT PER LOCAL CODE OR SOIL REPORT
 11. VERTICAL CUT FOR FILL HEIGHT CAN BE DONE IF APPROVED BY LOCAL CODE OR SOIL ENGINEER
 12. GEOLOGIST OR GEOTECH ENGINEER SHOULD DETERMINE IF CORROSIVE RESISTANT MATERIAL SHOULD BE USED IN ANY STEEL PARTS EXPOSED IN THE SOIL

DESIGN TREATMENT CAPACITY (gpd)	450
TOTAL TANK CAPACITY (gal)	1500
TOTAL LENGTH	13'-6"
DIAMETER (in.)	60
INLET HEIGHT (in.)	52
OUTLET HEIGHT (in.)	46
BIOMEDIA VOLUME (cu.ft.)	15
AIR DIFFUSER	2-EDI FINE BUBBLE
AIR COMPRESSOR	HIBLOW 100LL
RECIRCULATION CONTROL	MECHANICAL
ALARM CONTROL PANEL	MCPR-DP
TELEMETRY	OPTIONAL
DISCHARGE PUMP	SIMPLEX OR DUPLEX
DISINFECTION	SALCOR 3G

DRAWN:	DATE:	JOB NUMBER:
AJM	2/10/21	ES4.5

REVISION:		
REVISION:	DATE:	DESCRIPTION:
	BY:	

SITE INFORMATION:

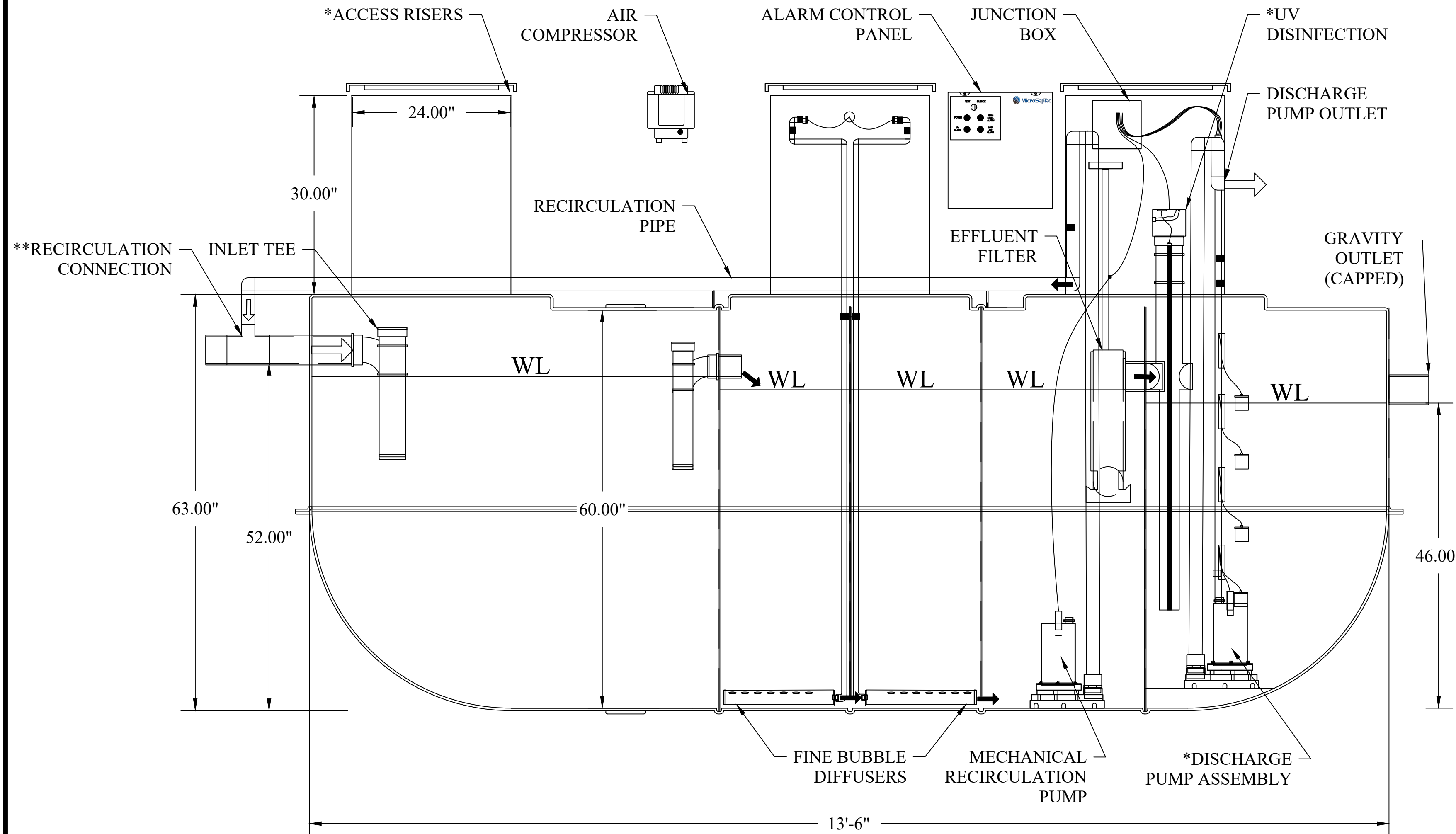
ES 4.5
ENVIROSERVER
ADVANCED WASTEWATER
TREATMENT SYSTEM

SHEET TITLE:

ES4.5-PUMP/MRP/UV

SHEET NUMBER:

1 OF 1



NOTES:

- *MATERIALS NOT SUPPLIED BY MICROSEPTEC
- **RECIRCULATION CONNECTION MUST BE LOCATED AT A MINIMUM OF 3FT FROM THE TANK

ENVIROSERVER - ES SERIES ES4.5-PUMP/SOL

DESCRIPTION:

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND SUSPENDED GROWTH WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS



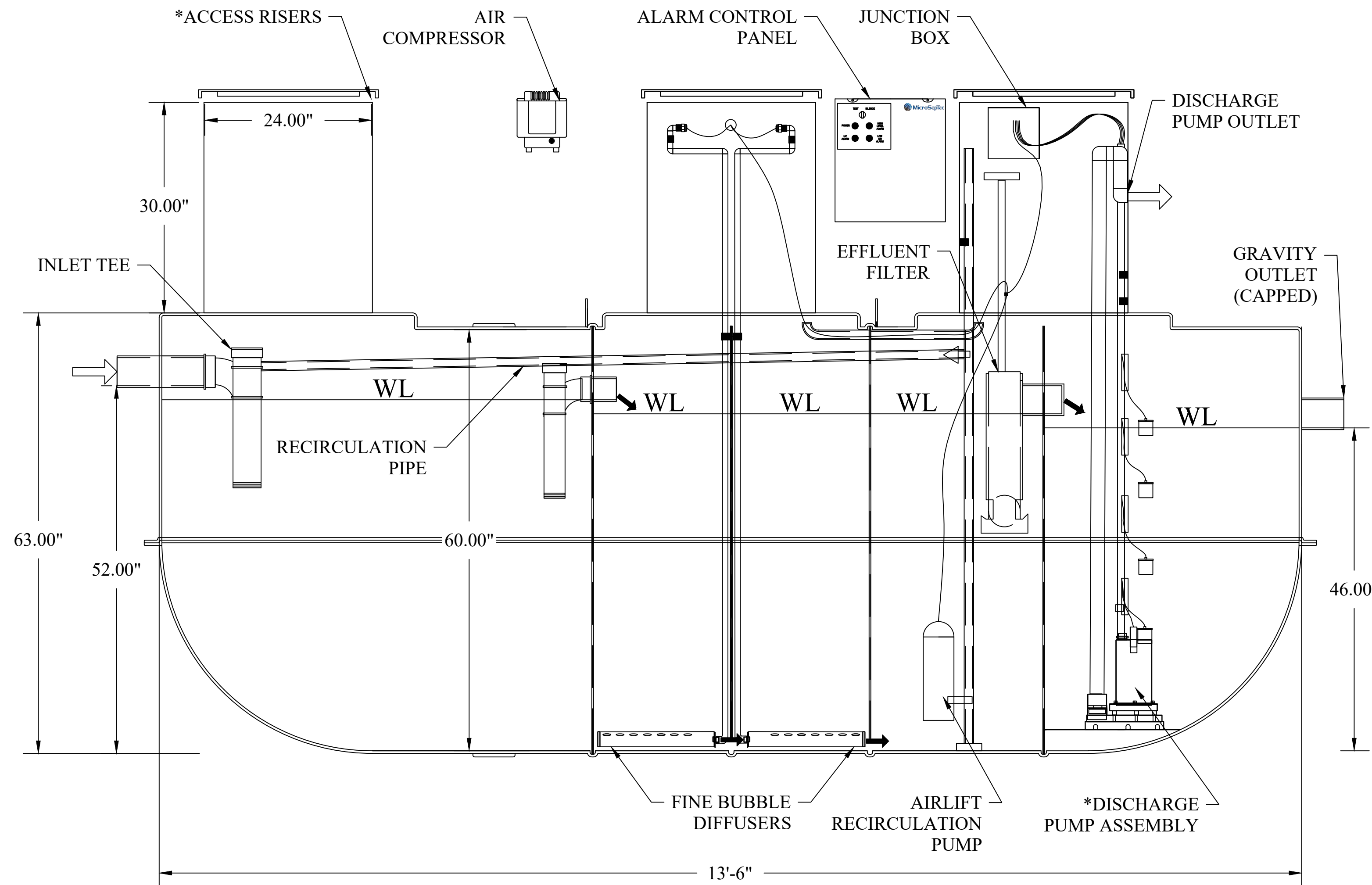
31 AFFONSO DRIVE
MOUND HOUSE, NV 89706
1(877)-4SEPTIC [1(877)473-7842]
WWW.MICROSEPTEC.COM

NOTES

- GENERAL:
1. THE MIDDLE THREE CHAMBERS SHOULD NEVER BE PUMPED DRY, ESPECIALLY IN HIGH GROUNDWATER CONDITIONS
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 3. PLUMBING DIMENSIONS FROM OUTSIDE EDGE OF TANK TO INVERT OF INLET AND OUTLET
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 11. VERTICAL CUT FOR FILL HEIGHT CAN BE DONE IF APPROVED BY LOCAL CODE OR SOIL ENGINEER
 12. GEOLOGIST OR GEOTECH ENGINEER SHOULD DETERMINE IF CORROSIVE RESISTANT MATERIAL SHOULD BE USED IN ANY STEEL PARTS EXPOSED IN THE SOIL

DESIGN TREATMENT CAPACITY (gpd)	450
TOTAL TANK CAPACITY (gal)	1500
TOTAL LENGTH	13'-6"
DIAMETER (in.)	60
INLET HEIGHT (in.)	52
OUTLET HEIGHT (in.)	46
BIOMEDIA VOLUME (cu.ft.)	15
AIR DIFFUSER	2-EDI FINE BUBBLE
AIR COMPRESSOR	HIBLOW 100LL
RECIRCULATION CONTROL	SOLENOID
ALARM CONTROL PANEL	MCPR-DP
TELEMETRY	OPTIONAL
DISCHARGE PUMP	SIMPLEX OR DUPLEX



NOTES:

*MATERIALS NOT SUPPLIED BY MICROSEPTEC

DRAWN:	DATE:	JOB NUMBER:
AJM	2/10/21	ES4.5

REVISION:		
REVISION:	DATE:	DESCRIPTION:
BY:		

SITE INFORMATION:

ES 4.5
ENVIROSERVER
ADVANCED WASTEWATER
TREATMENT SYSTEM

SHEET TITLE:

ES4.5-PUMP/SOL

SHEET NUMBER:

1 OF 1

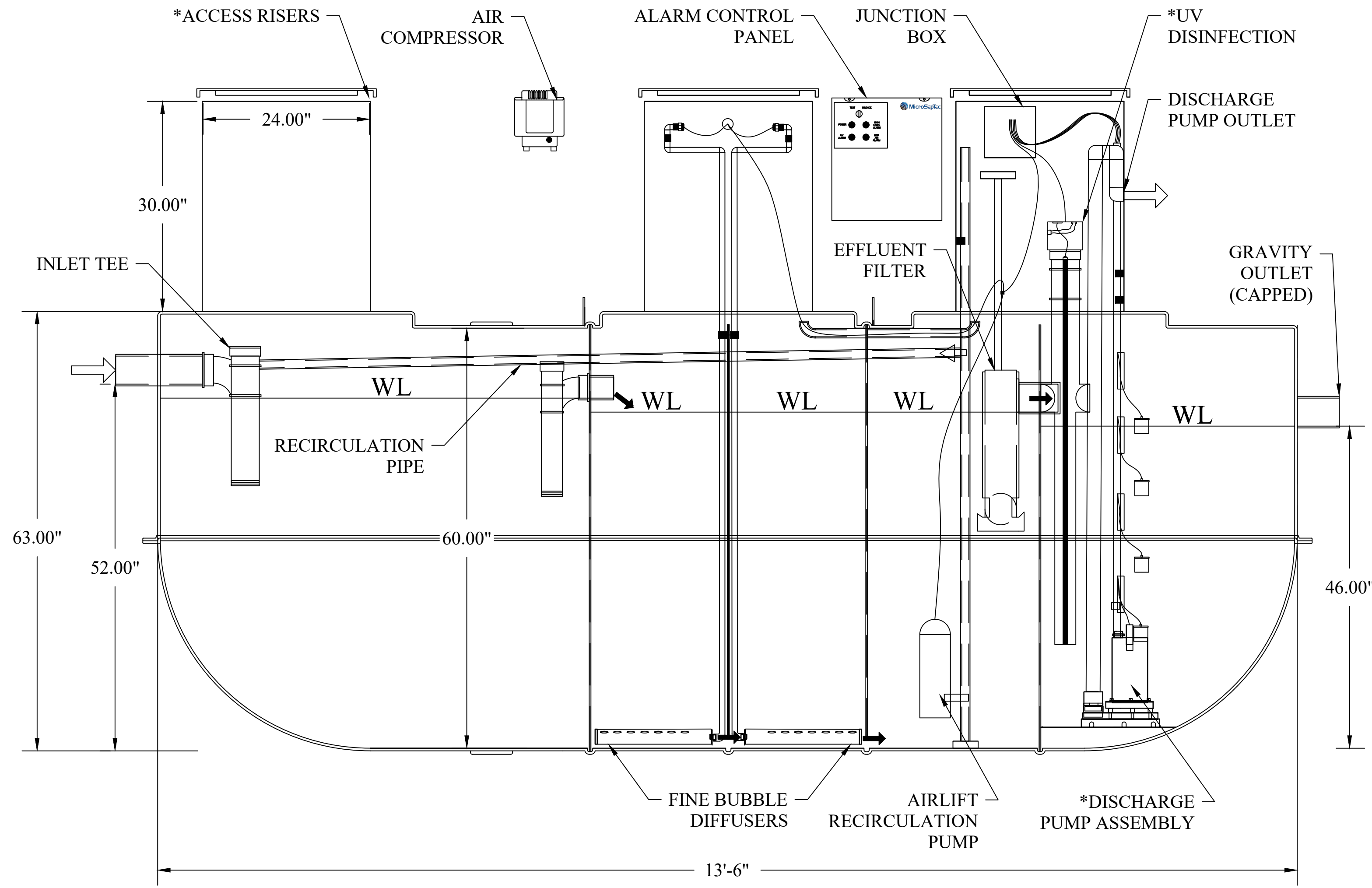
ENVIROSERVER - ES SERIES ES4.5-PUMP/SOL/UV



31 AFFONSO DRIVE
MOUND HOUSE, NV 89706
1(877)-4SEPTIC [1(877)473-7842]
WWW.MICROSEPTEC.COM

DESCRIPTION:

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND SUSPENDED GROWTH WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS



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TOTAL TANK CAPACITY (gal)	1500
TOTAL LENGTH	13'-6"
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INLET HEIGHT (in.)	52
OUTLET HEIGHT (in.)	46
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AIR DIFFUSER	2-EDI FINE BUBBLE
AIR COMPRESSOR	HIBLOW 100LL
RECIRCULATION CONTROL	SOLENOID
ALARM CONTROL PANEL	MCPR-DP
TELEMETRY	OPTIONAL
DISCHARGE PUMP	SIMPLEX OR DUPLEX
DISINFECTION	SALCOR 3G

NOTES

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DRAWN:	DATE:	JOB NUMBER:
AJM	2/10/21	ES4.5

REVISION:		
REVISION:	DATE:	DESCRIPTION:
BY:		

SITE INFORMATION:

ES 4.5
ENVIROSERVER
ADVANCED WASEWATER
TREATMENT SYSTEM

SHEET TITLE:

ES4.5-PUMP/SOL/UV

SHEET NUMBER:

1 OF 1

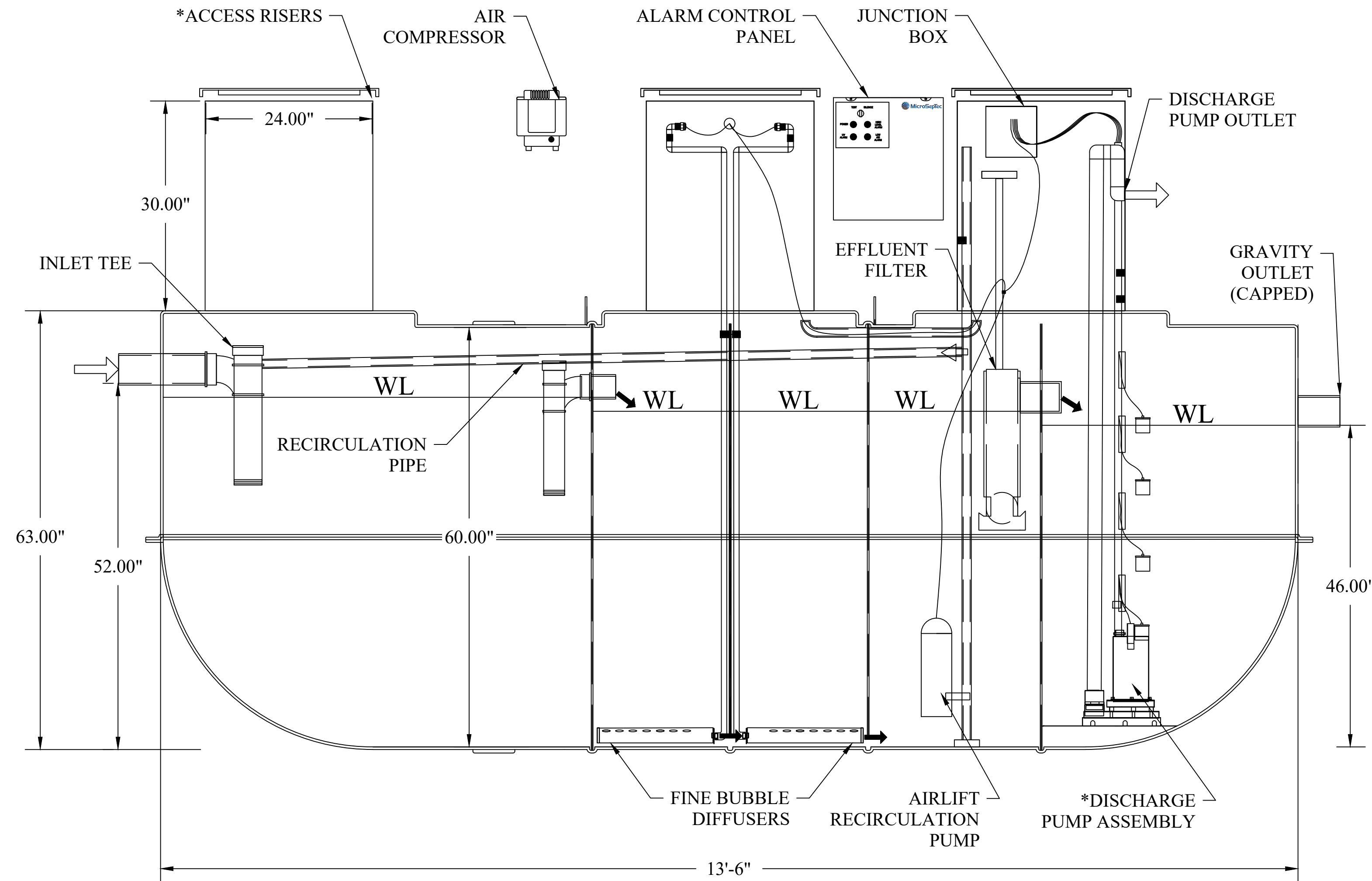
NOTES:

*MATERIALS NOT SUPPLIED BY MICROSEPTEC

ENVIROSERVER - ES SERIES ES4.5-PUMP/NV

DESCRIPTION:

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND SUSPENDED GROWTH WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS



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BIOMEDIA VOLUME (cu.ft.)	15
AIR DIFFUSER	2-EDI FINE BUBBLE
AIR COMPRESSOR	HIBLOW 100LL
RECIRCULATION CONTROL	NEEDLE VALVE
ALARM CONTROL PANEL	MCPR-DP
TELEMETRY	OPTIONAL
DISCHARGE PUMP	SIMPLEX OR DUPLEX

NOTES

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DRAWN:	DATE:	JOB NUMBER:
AJM	2/10/21	ES4.5

REVISION:

REVISION:	DATE:	DESCRIPTION:

SITE INFORMATION:

ES 4.5
ENVIROSERVER
ADVANCED WASTEWATER
TREATMENT SYSTEM

SHEET TITLE:

ES4.5-PUMP/NV

SHEET NUMBER:

1 OF 1

NOTES:

*MATERIALS NOT SUPPLIED BY MICROSEPTEC

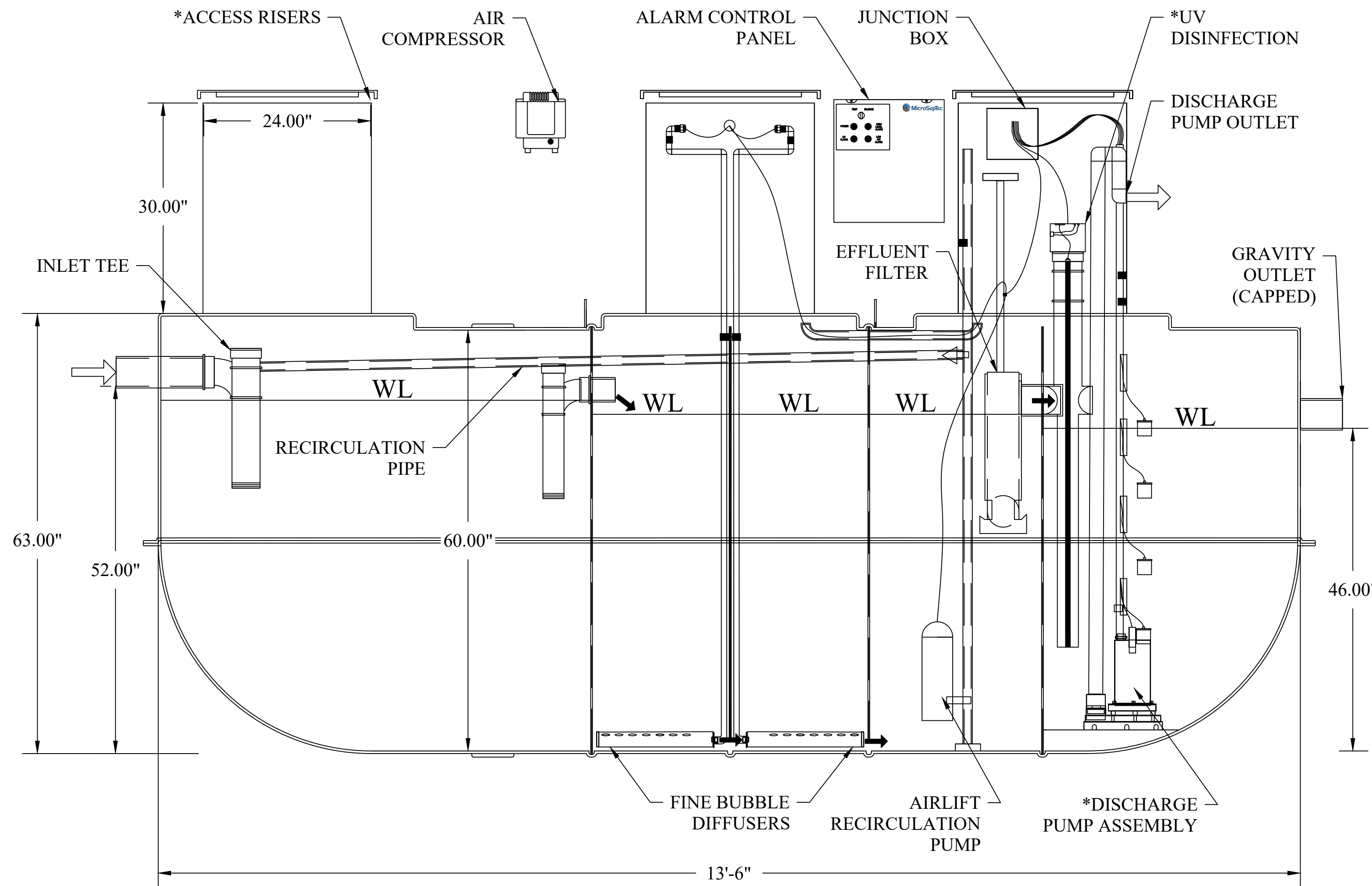
ENVIROSERVER - ES SERIES ES4.5-PUMP/NV/UV



31 AFFONSO DRIVE
MOUND HOUSE, NV 89706
1(877)-4SEPTIC [1(877)473-7842]
WWW.MICROSEPTEC.COM

DESCRIPTION:

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND SUSPENDED GROWTH WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS



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TOTAL TANK CAPACITY (gal)	1500
TOTAL LENGTH	13'-6"
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INLET HEIGHT (in.)	52
OUTLET HEIGHT (in.)	46
BIOMEDIA VOLUME (cu.ft.)	15
AIR DIFFUSER	2-EDI FINE BUBBLE
AIR COMPRESSOR	HIBLOW 100LL
RECIRCULATION CONTROL	NEEDLE VALVE
ALARM CONTROL PANEL	MCPR-DP
TELEMETRY	OPTIONAL
DISCHARGE PUMP	SIMPLEX OR DUPLEX
DISINFECTION	SALCOR 3G

NOTES

- GENERAL:
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DRAWN:	DATE:	JOB NUMBER:
AJM	2/10/21	ES4.5

REVISION:

REVISION:	DATE:	DESCRIPTION:

SITE INFORMATION:

ES 4.5
ENVIROSERVER
ADVANCED WASTEWATER
TREATMENT SYSTEM

SHEET TITLE:

ES4.5-PUMP/NV/UV

SHEET NUMBER:

1 OF 1

NOTES:

*MATERIALS NOT SUPPLIED BY MICROSEPTEC