



January 17, 2023

Truman Pisk
Foley Engineering, Inc.
105 Village Loop Suite B
Kalispell, MT 59901

RE: Bluemoon Estates
Flathead County
EQ#23-1597

Truman:

The plans and supplemental information relating to the water supply, sewage, solid waste disposal, and storm drainage (if any) for the above referenced division of land have been reviewed as required by ARM Title 17 Chapter 36(101-805) and have been found to be in compliance with those rules.

Two copies of the Certificate of Subdivision Plat Approval are enclosed. The original is to be filed at the office of the county clerk and recorder. The duplicate is for your personal records.

Development of the approved subdivision may require coverage under the Department's General Permit for Storm Water Discharges Associated with Construction Activity, if your development has construction-related disturbance of one or more acre. If so, please contact the Storm Water Program at (406) 444-3080 for more information or visit the Department's storm water construction website at <https://deq.mt.gov/water/assistance>. Failure to obtain this permit (if required) prior to development can result in significant penalties.

In addition, your project may be subject to Federal regulations relating to Class V injection wells. Please contact the United States Environmental Protection Agency regarding specific rules that may apply.

Your copy is to inform you of the conditions of the approval. Please note that you have specific responsibilities according to the plat approval statement primarily with regard to informing any new owner as to any conditions that have been imposed.

If you have any questions, please contact this office.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Rowland", is written over a horizontal line. The signature is stylized and somewhat cursive.

For
Shawn Rowland M.S., R.S.
Subdivision Section Supervisor
Engineering Bureau – Water Quality Division
Department of Environmental Quality

BKC

cc: County Sanitarian
County Planning Board (e-mail)
Owner

STATE OF MONTANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
CERTIFICATE OF SUBDIVISION PLAT APPROVAL
(Section 76-4-101 et seq.)

TO: County Clerk and Recorder
Flathead County
Kalispell, Montana

E.Q. #23-1597

THIS IS TO CERTIFY THAT the plans and supplemental information relating to the subdivision known as **BLUEMOON ESTATES**.

A TRACT OF LAND, SITUATED, LYING AND BEING IN THE WEST HALF OF THE NORTHWEST QUARTER OF SECTION 26, TOWNSHIP 29 NORTH, RANGE 22 WEST, P.M.M. FLATHEAD COUNTY, MONTANA AND MORE PARTICULARLY DESCRIBED AS FOLLOWS TO WIT:

LOT 2A OF THE AMENDED PLAT OF LOTS 2 & 3, D & K SUBDIVISION (RECORDS OF FLATHEAD COUNTY, MONTANA) AND CONTAINING 25.012 ACRES; SUBJECT TO AND TOGETHER WITH A 60 FOOT DECLARED COUNTY ROAD KNOWN AS WEST SPRINGCREEK ROAD AS SHOWN HERON; SUBJECT TO AND TOGETHER WITH A 60 FOOT PRIVATE ROAD AND UTILITY EASEMENT KNOWN AS BLUEMOON COURT AS SHOWN HEREON; SUBJECT TO AND TOGETHER WITH ALL APPURTENANT EASEMENTS OF RECORD.

THAT **Lots 1, 2, 3, 4, & 5** were reviewed by personnel of the Water Quality Division, and

THAT the documents and data required by ARM Chapter 17 Section 36 have been submitted and found to be in compliance therewith, and,

THAT the approval of the Plat is made with the understanding that the following conditions shall be met:

THAT the Lot sizes as indicated on the Plat to be filed with the county clerk and recorder will not be further altered without approval, and,

THAT each Lot shall be used for **two living units**, and,

THAT the shared water system will consist of a well drilled to a minimum depth of 25 feet constructed in accordance with the criteria established in Title 17, Chapter 36, Sub-Chapters 1, 3, and 6 ARM and the most current standards of the Department of Environmental Quality, and,

THAT data provided indicates an acceptable water source at a depth of approximately 280 feet, and,

THAT each shared sewage treatment system will consist of a septic tank, effluent filter, dose tank/chamber, effluent pump and pressure-dosed subsurface drainfield of such size and description as will comply with Title 17, Chapter 36, Sub-Chapters 1, 3, and 6 ARM, the most current standards

BLUEMOON ESTATES
Flathead County, Montana
E.Q. #23-1597

of the Department of Environmental Quality and the most current Flathead County Regulations for Sewage Treatment Systems, and,

THAT each shared subsurface drainfield shall have an absorption area of sufficient size to provide for an **application rate of 0.4 gpd/square foot** and,

THAT the bottom of the drainfield shall be at least four feet above the water table, and,

THAT no sewage treatment system shall be constructed within 100 feet of the maximum highwater level of a 100 year flood of any stream, lake, watercourse, or irrigation ditch, nor within 100 feet of any domestic water supply source, and,

THAT the stormwater design requires the installation of a minimum of **15,000 square feet** of lawn and landscaped area around the structures on each lot to absorb a portion the additional run-off from the living unit, and,

THAT the stormwater design requires a retention pond or swales with a minimum volume of **3,085 cubic feet** be constructed and located on **Lot 1** in accordance with the approved plans, and,

THAT the stormwater design requires a retention pond or swales with a minimum volume of **907 cubic feet** be constructed and located on **Lot 2** in accordance with the approved plans, and,

THAT the stormwater design requires a retention pond or swales with a minimum volume of **907 cubic feet** be constructed and located on **Lot 3** in accordance with the approved plans, and,

THAT the stormwater design requires a retention pond or swales with a minimum volume of **315 cubic feet** be constructed and located on **Lot 4** in accordance with the approved plans, and,

THAT the stormwater design requires a retention pond or swales with a minimum volume of **473 cubic feet** be constructed and located on **Lot 5** in accordance with the approved plans, and,

THAT the operation and maintenance of water supply, sewage treatment system, and stormwater facilities shall be the responsibility of each lot owner, and,

THAT water supply systems, sewage treatment systems and storm drainage systems will be located as shown on the approved plans, and,

THAT the developer and/or owner of record shall provide each purchaser of property with a copy of the Plat, approved location of water supply, sewage treatment system and storm drainage structures as shown on the attached lot layout, and a copy of this document, and,

THAT instruments of transfer for this property shall contain reference to these conditions, and,

**BLUEMOON ESTATES
Flathead County, Montana
E.Q. #23-1597**

THAT plans and specifications for any proposed sewage treatment systems will be reviewed and approved by the county health department and will comply with local regulations and ARM, Title 17, Chapter 36, Subchapters 3 and 9, before construction is started.

THAT departure from any criteria set forth in the approved plans and specifications and Title 17, Chapter 36, Sub-Chapters 1, 3, and 6 ARM when erecting a structure and appurtenant facilities in said subdivision without Department approval, is grounds for injunction by the Department of Environmental Quality.

Pursuant to Section 76-4-122 (2)(a), MCA, a person must obtain the approval of both the State under Title 76, Chapter 4, MCA, and local board of health under section 50-2-116(1)(i), before filing a subdivision plat with the county clerk and recorder.

YOU ARE REQUESTED to record this certificate by attaching it to the Plat filed in your office as required by law.

DATED this 17th day of January 2023.

CHRIS DORRINGTON
DIRECTOR, DEQ



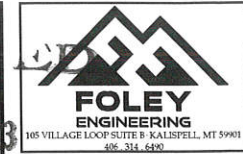
By: _____ (for)
Shawn Rowland M.S., R.S.
Subdivision Section Supervisor
Engineering Bureau – Water Quality Division
Department of Environmental Quality

Owner's Name: **Bluemoon Refinery LLC**

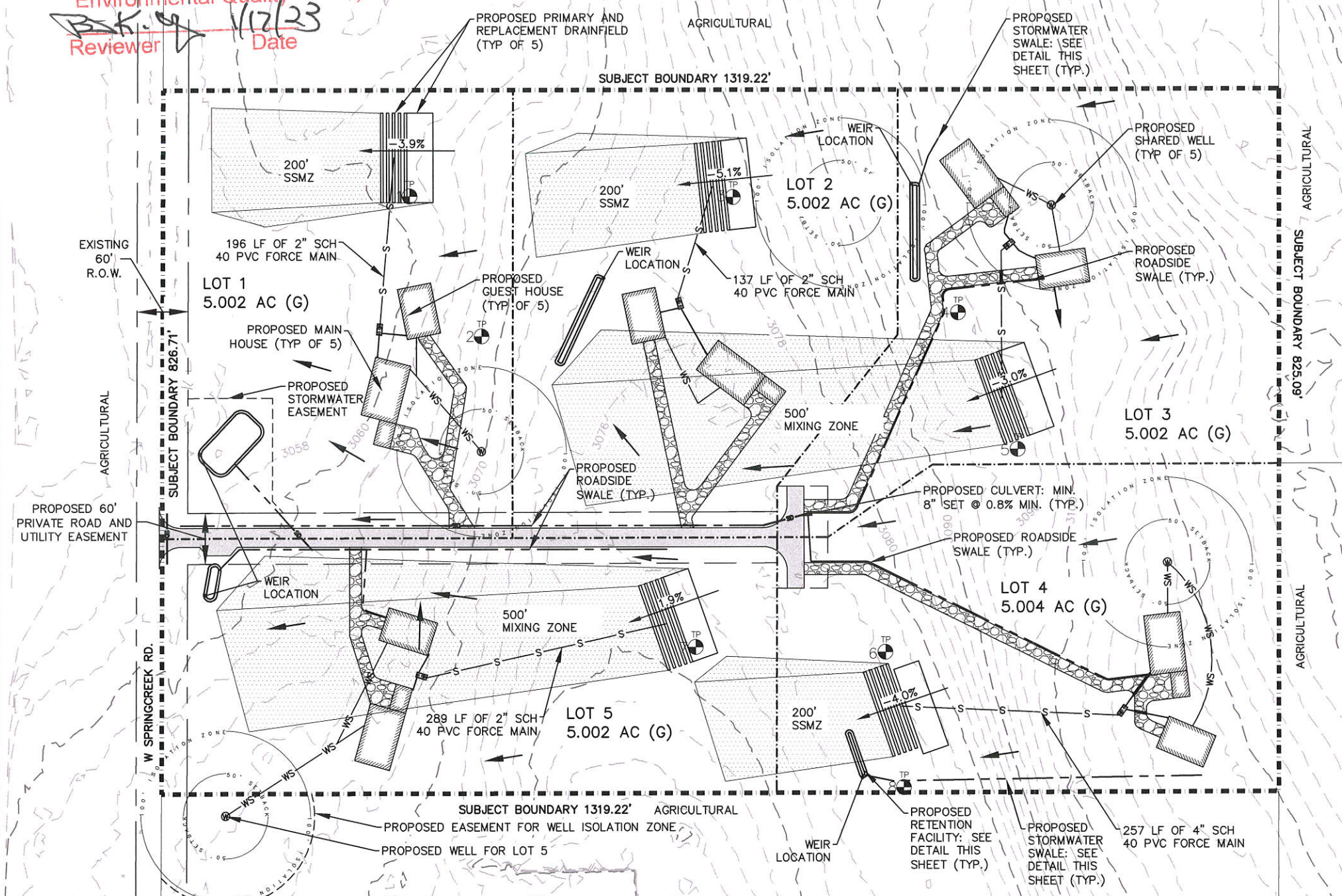
APPROVED
 Montana Department of
 Environmental Quality
 Reviewer: *B.K. [Signature]* / 1/12/23
 Date

BLUEMOON ESTATES, LLC
 W 1/2 NW 1/4 SEC. 26, T.29N., R.22W., P.M.,M.,
 FLATHEAD COUNTY MONTANA
 25.012 ACRES (GROSS) 23.319 ACRES (NET)
 LOT 2A, AMENDED PLAT OF LOTS 2 & 3,
 D & K SUBDIVISION

RECEIVED
 JAN 11 2023



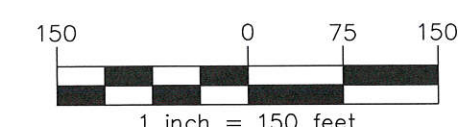
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 NOT FOR
 CONSTRUCTION
 SEAL



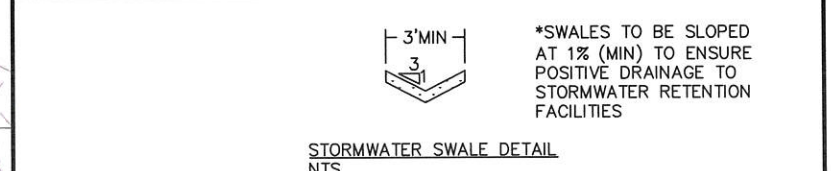
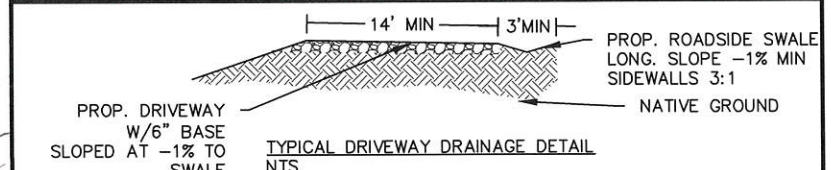
THERE ARE NO KNOWN WELLS, DRAINFIELDS AND/OR MIXING ZONES WITHIN 100 FEET OF SUBJECT BOUNDARIES

THERE ARE NO KNOWN SOURCES OF POSSIBLE CONTAMINATION WITHIN 500 FEET OF ANY PROPOSED SHARED WELL

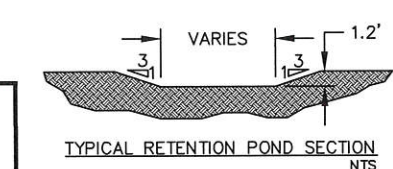
EACH LOT MAY INSTALL UP TO 15,000 SQ FT OF LAWN AND LANDSCAPING AROUND THE PROPOSED STRUCTURES



SCALE



RETENTION FACILITY FOR LOT 1 POND DIMENSIONS: BOTTOM WIDTH: 38 FT BOTTOM LENGTH: 75 FT DEPTH: 1.2 FT 6' WIDE WEIR SET @ 1 FT ABOVE BOTTOM SIDE SLOPES: 3:1 TOTAL STORAGE=3,085 FT ³	RETENTION FACILITY FOR LOT 4 POND DIMENSIONS: BOTTOM WIDTH: 3 FT BOTTOM LENGTH: 52.5 FT DEPTH: 1.2 FT 6' WIDE WEIR SET @ 1 FT ABOVE BOTTOM SIDE SLOPES: 3:1 TOTAL STORAGE=315 FT ³
RETENTION FACILITY FOR LOTS 2 AND 3 POND DIMENSIONS: BOTTOM WIDTH: 5 FT BOTTOM LENGTH: 110 FT DEPTH: 1.2 FT 6' WIDE WEIR SET @ 1 FT ABOVE BOTTOM SIDE SLOPES: 3:1 TOTAL STORAGE=907 FT ³	RETENTION FACILITY FOR LOT 5 POND DIMENSIONS: BOTTOM WIDTH: 9 FT BOTTOM LENGTH: 39 FT DEPTH: 1.2 FT 6' WIDE WEIR SET @ 1 FT ABOVE BOTTOM SIDE SLOPES: 3:1 TOTAL STORAGE=473 FT ³



STORM WATER FACILITY OPERATION AND MAINTENANCE PLAN

- LOT OWNERS ARE RESPONSIBLE FOR PERFORMING THE DUTIES DESCRIBED IN THIS OPERATION AND MAINTENANCE PLAN. LOT OWNERS ARE RESPONSIBLE FOR FEATURES CONSTRUCTED ON THEIR RESPECTIVE LOT.
- FACILITIES THAT ARE PART OF THIS STORM DRAINAGE PLAN ARE LAWN & LANDSCAPING, ROADSIDE DITCHES, AND RETENTION FACILITIES. THEY MUST BE OPERATED AND MAINTAINED CORRECTLY TO MITIGATE STORM WATER INCREASES IN FLOW RATES AND VOLUMES CREATED DUE TO THE DEVELOPMENT OF THESE PARCELS.
- THE FOLLOWING OPERATION AND MAINTENANCE PLAN REQUIREMENTS ARE DUTIES THAT SHALL BE PERFORMED BY THE LOT OWNER TO ENSURE PROPER FUNCTIONING OF THE STORM WATER FACILITIES.
 - GENERALLY: THE RESPONSIBLE ENTITY SHOULD WALK THE SITE TO LOOK FOR ANY SIGNS OF STORM DRAINAGE MALFUNCTIONING ONCE A MONTH. SIGNS OF STORM DRAINAGE MALFUNCTIONING INCLUDE PONDING STORM WATER, ANY SIGNS OF POTENTIAL STORM DRAINAGE FAILURE SHOULD BE INVESTIGATED AND FIXED.
 - LAWN AND LANDSCAPED AREAS SHALL BE MAINTAINED IN GOOD HEALTH TO ENSURE THE GROUND DOES NOT BECOME BARREN, WHICH DOES NOT ENCOURAGE INFILTRATION OF STORM WATER IN THE SOILS.
 - ROADSIDE DITCHES SHOULD BE VEGETATED TO REDUCE EROSION BUT KEPT FREE OF DEBRIS OR OTHER MATERIALS THAT DO NOT ALLOW STORM WATER TO FLOW DOWN THE DITCH. ROADSIDE DITCHES SHOULD BE CLEANED OF DEBRIS EVERY SPRING AND FALL OR AS OTHERWISE NEEDED.
 - CULVERTS SHALL BE KEPT FREE OF DEBRIS OR OTHER MATERIALS THAT DO NOT ALLOW STORM WATER TO FLOW DOWN THE CULVERT/DITCH. CULVERTS SHOULD BE CLEANED OF DEBRIS EVERY SPRING AND FALL OR AS OTHERWISE NEEDED.
 - RETENTION FACILITIES SHOULD BE VEGETATED TO REDUCE EROSION AND ENCOURAGE INFILTRATION OF STORM WATER BUT OTHERWISE SHOULD BE KEPT FREE OF DEBRIS OR OTHER MATERIALS THAT WOULD REDUCE THE CAPACITY OF THE STORM WATER FACILITY. STORM WATER FACILITIES SHOULD BE CLEANED EVERY SPRING AND THE FALL OR AS OTHERWISE NEEDED.

- EXISTING UTILITIES AND SITE CONDITION NOTES**
- ALL EXISTING UTILITY LOCATIONS SHOWN ARE FROM THE BEST INFORMATION AVAILABLE AT THE TIME OF DESIGN AND ARE APPROXIMATE.
 - ACCURACY OF UTILITY INFORMATION IS NOT GUARANTEED AND CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING AND VERIFYING THE EXISTENCE, LOCATIONS, AND DEPTHS OF ALL UTILITIES THAT MAY BE PRESENT ON AND ADJACENT TO THE SITE.
 - UTILITIES MAY NOT BE BURIED AT CONSISTENT DEPTHS OR AS SHOWN WITHIN THE PLANS. CONTRACTOR SHALL NOTIFY EACH UTILITY COMPANY PRIOR TO PERFORMING ANY EXCAVATION OR EARTH DISTURBING ACTIVITIES.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY UTILITIES DAMAGED BY THEIR ACTIVITIES.

LEGEND

-----	SUBJECT BOUNDARY
-----	PROPERTY LINE
-----	RIGHT-OF-WAY
-----	EASEMENT
-----	SEWER FORCE MAIN
-----	PAVED ROAD
-----	GRAVEL ROAD
-----	STORMWATER FLOW DIRECTION
-----	TEST PIT
-----	STORMWATER RETENTION FACILITY
-----	CMP CULVERT
-----	STORMWATER SWALE

LOT LAYOUT
BLUEMOON ESTATES SUBDIVISION
FLATHEAD COUNTY, MONTANA

NO.	REV.	DATE
1.	DEQ COMMENTS	12.08.22
2.	DEQ COMMENTS	01.11.23

PROJECT NO.:	241.01
DESIGNED BY:	T.PISK
DRAWN BY:	T.PISK
CHECKED BY:	B.FOLEY

OCTOBER 28, 2022

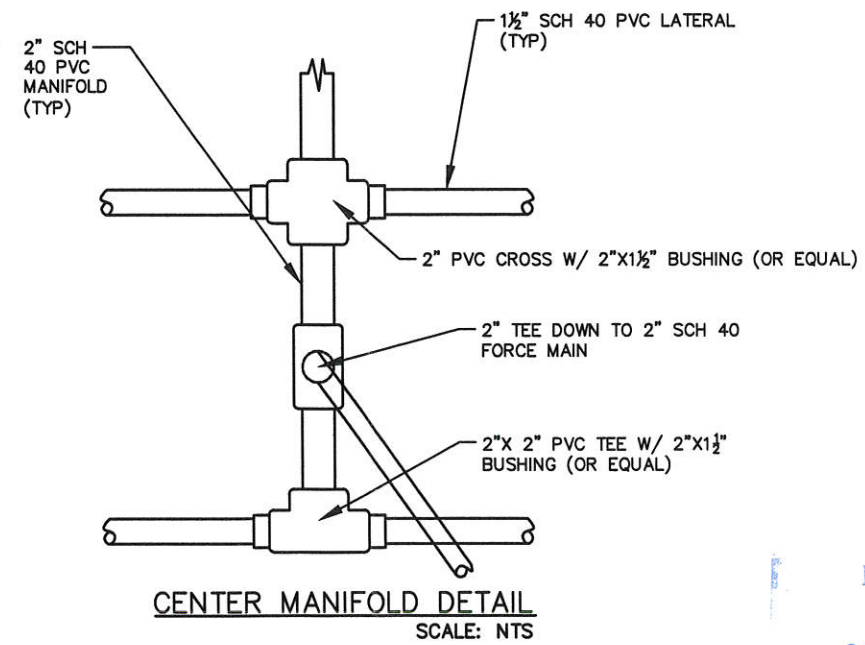
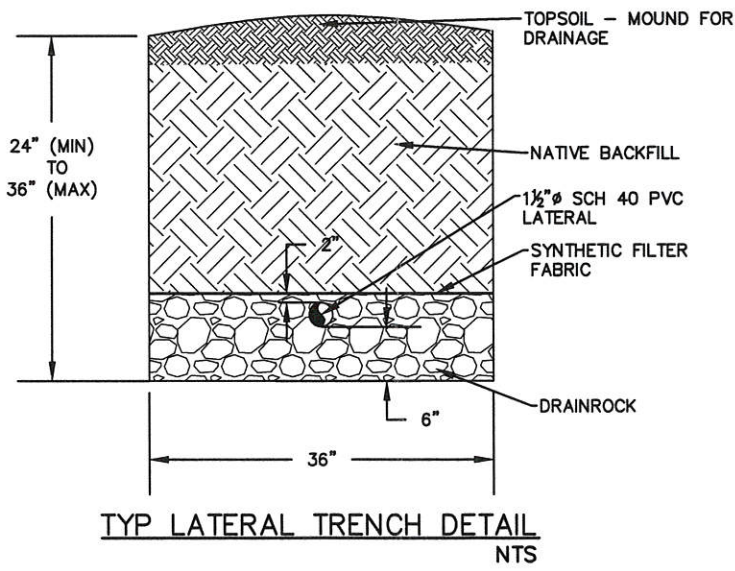
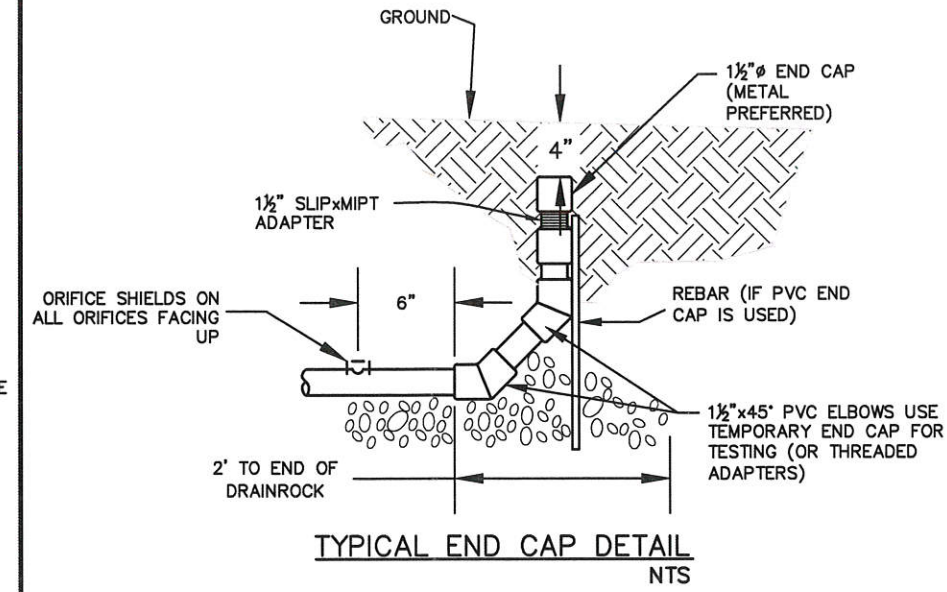
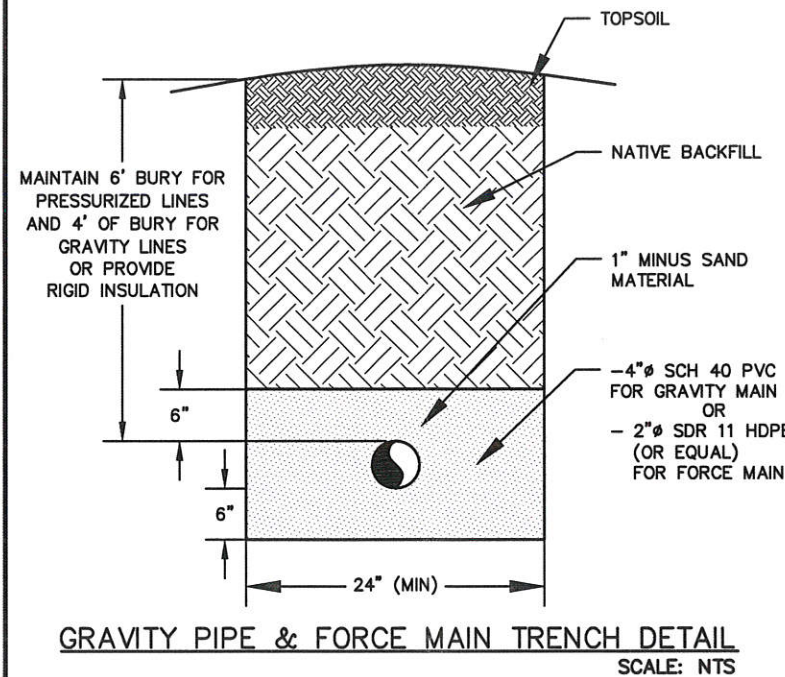
SHEET

1 OF 1

APPROVED
 Montana Department of
 Environmental Quality
 Reviewer *[Signature]* Date 1/17/23

DESIGN NOTES:

1. CONSULT WITH ENGINEER PRIOR TO CONSTRUCTION.
2. INSTALLATION OF SEPTIC SYSTEM SHALL BE IN ACCORDANCE WITH "FLATHEAD COUNTY CONSTRUCTION STANDARDS FOR SUBSURFACE WASTEWATER TREATMENT SYSTEMS", 2022.
3. ALL ELECTRICAL TO COMPLY WITH STATE AND LOCAL CODES, AND MUST MEET THE REQUIREMENTS FOR NATIONAL ELECTRIC CODE CLASS 1, DIVISION 2 LOCATIONS
4. ALL PORTIONS OF SYSTEM TO BE 10 FEET MINIMUM FROM OUTSIDE PROPERTY LINES. SEALED LINES AND SEPTIC TANK TO BE 50 FEET MINIMUM FROM WELL. DRAINFIELD TO BE 100 FEET MINIMUM FROM WELL. SEPTIC TANK TO BE 10 FEET (MIN.) FROM FOUNDATION WALL.
5. REMOVE ABOVE-GROUND VEGETATION AND DECOMPOSING ORGANIC MATTER UNDER FILL AREA AND PLOW OR SCARIFY AND SMOOTH UPPER 4-8 INCHES OF GROUND PRIOR TO FILL PLACEMENT. ROTO-TIL OR OTHERWISE MIX COARSE SAND WITH TOP 6" OF EXISTING MATERIAL.
6. PLACE OUTSIDE FILL PRIOR TO TRENCH EXCAVATION AND FILL AS NOTED. KEEP TRUCKS OFF SMOOTHED AREA.
7. SAND BEDDING FOR DRAINFIELD SHALL BE WASHED MASONRY OR CONCRETE SAND CONFORMING TO FCCS 6.7.3.4.
8. LATERALS SHALL BE 1½" DIAMETER SCHEDULE 40 PVC PRESSURE PIPE.
9. DEBURR ORIFICES PRIOR TO TESTING. ORIFICES SHALL BE TURNED UP OR DOWN AS SHOWN.
10. LATERALS SHALL BE FLUSHED PRIOR TO CAPPING ENDS AND PRESSURE TESTING.
11. ALL ORIFICES FACING UP WILL HAVE ORIFICE SHIELDS. SHIELDS TO BE INSTALLED PRIOR TO FINAL BACKFILL.
12. SEPTIC TANK TO BE NEW 2,500 GALLON SEPTIC TANK AND 1,000 GAL PUMP CHAMBER OR SIPHON CHAMBER. ENSURE LID PROVIDES 24" MIN ACCESS OVER EFFLUENT FILTER AND PUMP.
13. ENSURE PIPES FROM BUILDINGS TO SEPTIC TANK ARE 4" SCHEDULE 40 PVC SLOPED AT ¼" PER FT MIN. BEDDING SHALL BE 1" MINUS SAND MATERIAL WITH 6" MINIMUM ABOVE AND BELOW THE PIPE. NO ROCK OR FROZEN MATERIAL WITHIN 24" OF TOP OF PIPE. MINIMUM GRADE IS ¼" PER FOOT.
14. CONTROL PANEL TO BE SJE-RHOMBUS® MODEL 115 (OR EQUAL) FOR INDOOR/OUTDOOR USE WITH SEPARATE WATER ALARM. PUMP AND HIGH WATER ALARM MUST BE ON SEPARATE ELECTRICAL CIRCUITS. COORDINATE WITH OWNER REGARDING ELECTRICAL PLACEMENT.
15. FORCE MAIN FROM PUMP CHAMBER TO DRAINFIELD SHALL BE 2" DIAMETER SCH-40 PVC (OR EQUAL) PRESSURE PIPE. USE SCHEDULE 80 PVC FROM PUMP TO FIVE (5) FEET FROM PUMP CHAMBER. MAINTAIN 6" BURY OR INSULATE PIPE.
16. BEDDING OF FORCE MAIN SHALL BE 1" MINUS SAND MATERIAL WITH 6" MINIMUM ABOVE AND BELOW THE PIPE. NO ROCK OR FROZEN MATERIAL WITHIN 24" OF TOP OF PIPE.
17. SEAL ALL JOINTS OF SEPTIC TANK/PUMP CHAMBER WITH RAM-NEK® OR HYDRAULIC GROUT.
18. SEPTIC TANK AND PUMP CHAMBER TO BE LEAK TESTED PRIOR TO SERVICE. FILL AND OBSERVE FOR 24 HOURS. CORRECT ANY DEFICIENCIES AND RETEST FOR AN ADDITIONAL 24 HOURS.
19. CONTRACTOR TO SOD OR SEED WITH GRASS OR GRASS-CLOVER MIX AND COVER WITH STRAW MULCH. OWNER TO MAINTAIN.
20. DITCH AROUND DRAINFIELD AS NECESSARY FOR DRAINAGE.
21. INSPECTION OF SYSTEM AND PRESSURE TESTING TO BE COORDINATED WITH THE SANITARIAN'S OFFICE AND ENGINEER. CONTRACTOR TO NOTIFY ENGINEER FOR FINAL INSPECTION FOLLOWING COMPLETION OF THE SYSTEM.



FOLEY
 ENGINEERING
 105 VILLAGE LOOP SUITE B - KALISPELL, MT 59901
 PH: 406.849.8490

PRELIMINARY
 NOT FOR
 CONSTRUCTION

SEAL

SEPTIC DETAILS AND NOTES
BLUEMOON ESTATES SUBDIVISION
FLATHEAD COUNTY, MONTANA

NO.	REV.	DATE

PROJECT NO.: 241.01
 DESIGNED BY: T.PISK
 DRAWN BY: T.PISK
 CHECKED BY: B.FOLEY

OCTOBER 27, 2022
 SHEET
2 OF 5

PRELIMINARY
 NOT FOR
 CONSTRUCTION

SEPTIC DETAILS AND NOTES
 BLUEMOON ESTATES SUBDIVISION
 FLATHEAD COUNTY, MONTANA

NO.	REV.	DATE

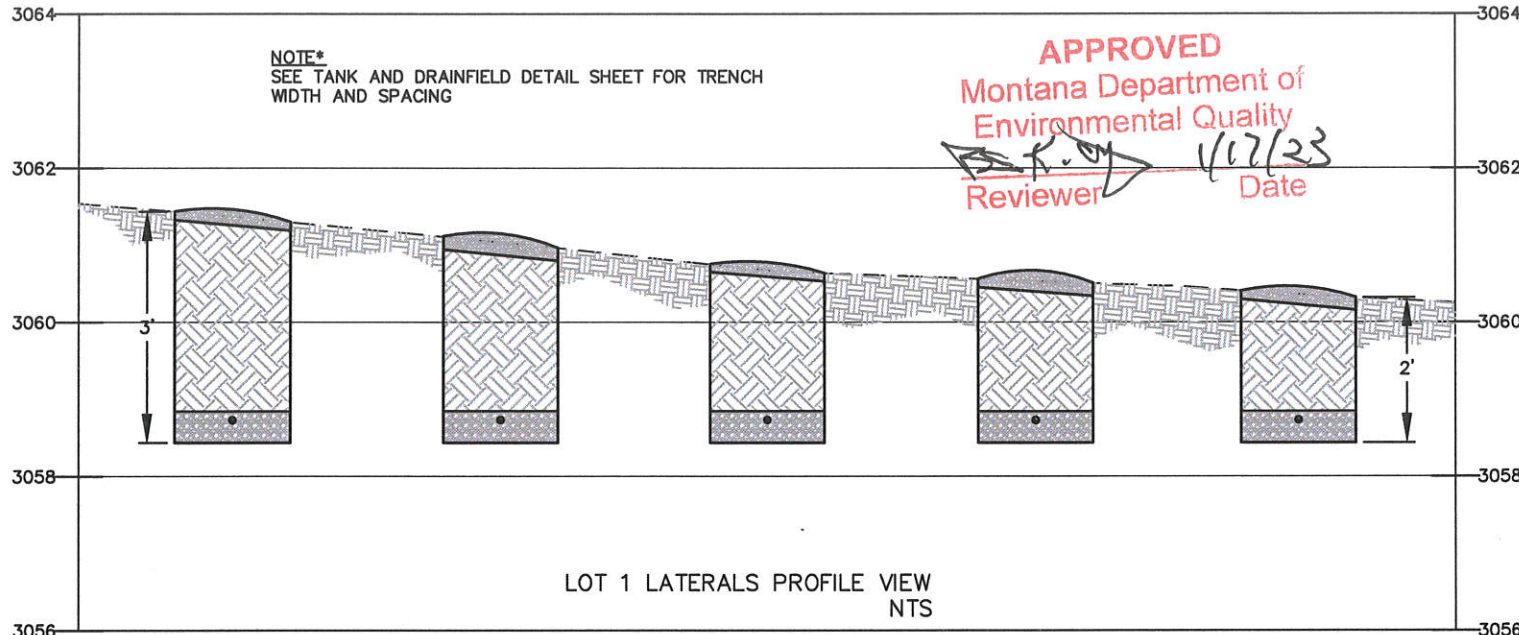
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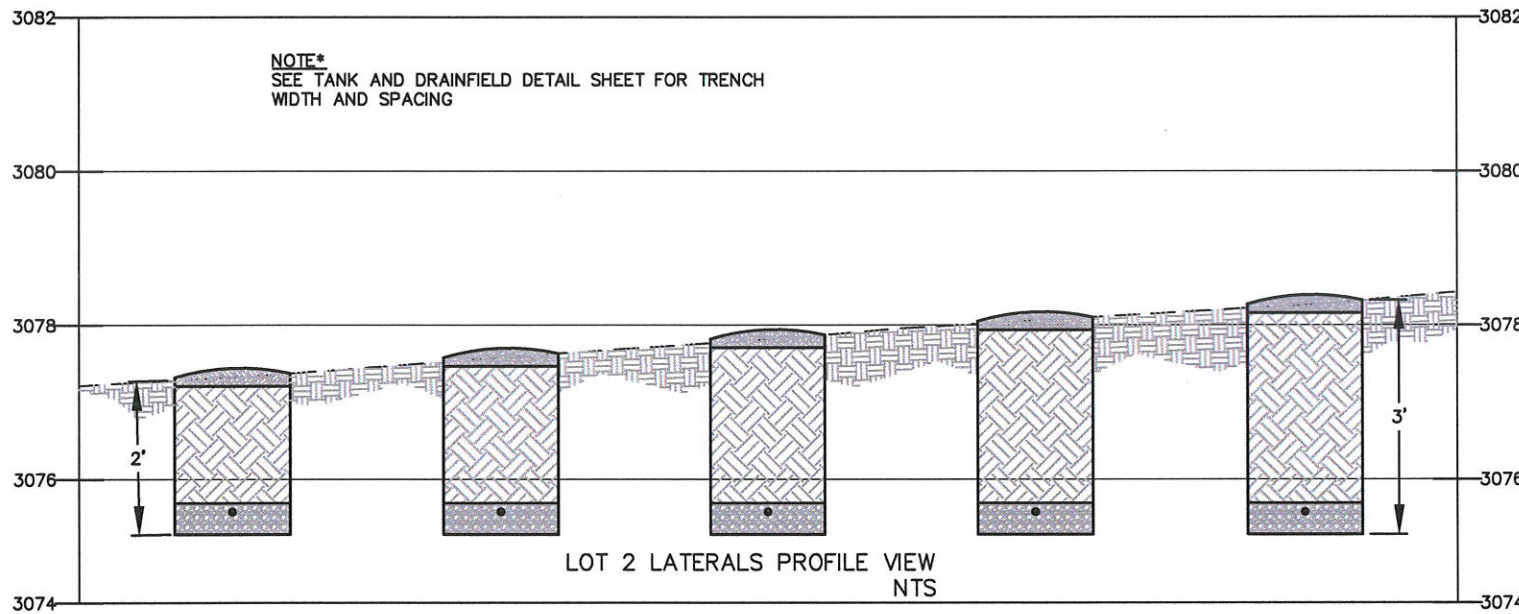
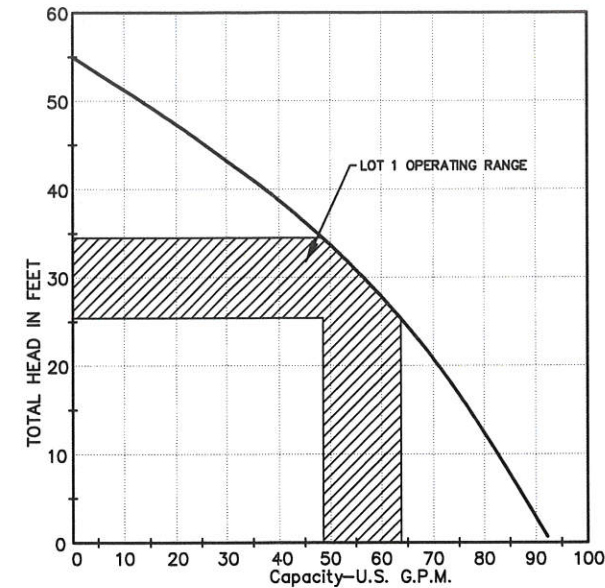
3 OF 5

APPROVED
 Montana Department of
 Environmental Quality
 Reviewer: *[Signature]* Date: 1/17/23



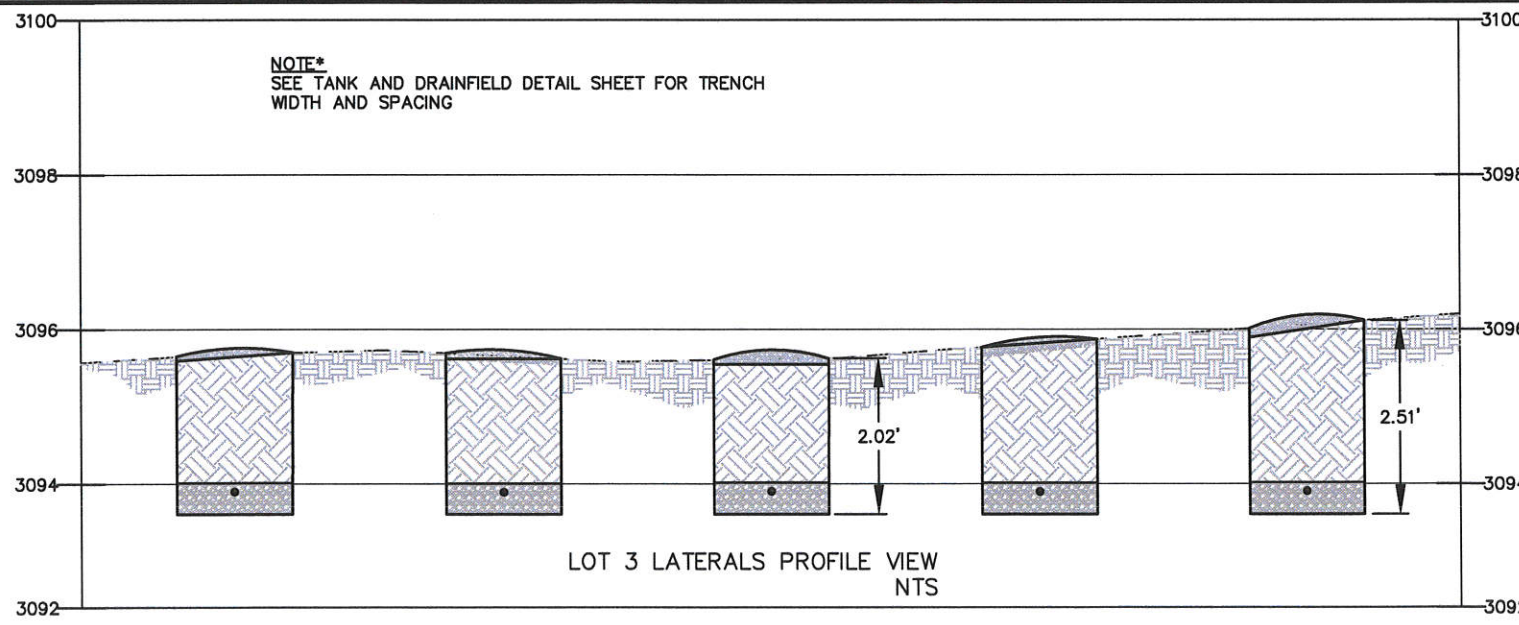
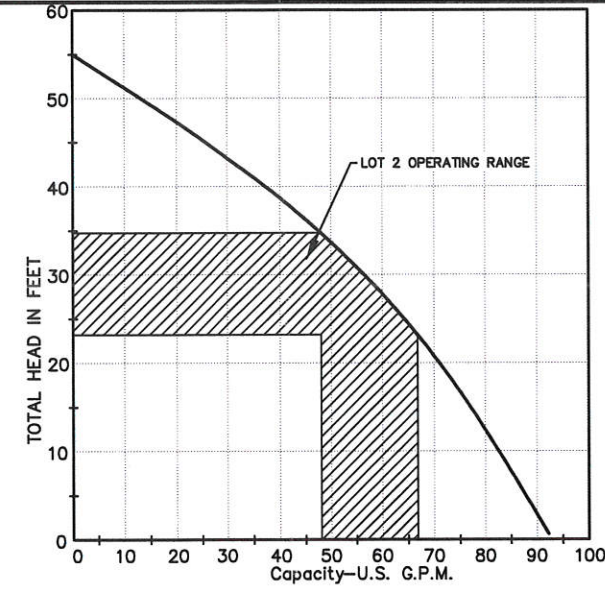
DESIGN CRITERIA LOT 1

- 1) SYSTEM SIZE = 5 BEDROOMS & 2 BEDROOMS OR 625 GALLONS/DAY
- 2) APPLICATION RATE = 0.4 GALLONS/SQ. FT./DAY
- 3) 625 GPD/0.4= 1,563 SQ. FT (MIN) ABSORPTION AREA
- 4) TRENCH SIZE = 3'W x 105'L = 315 SQ. FT. * 5 TRENCHES = 1,575 SQ. FT OF ABSORPTION AREA
- 5) LATERAL VOLUME = 46.36 GALLONS
- 6) FORCE MAIN VOLUME = 31.98 GAL; MANIFOLD VOLUME = 4.57 GAL
- 7) DOSE VOLUME = 282.6 GALLONS @ 13" DRAWDOWN
- 8) SOILS = SILT LOAM



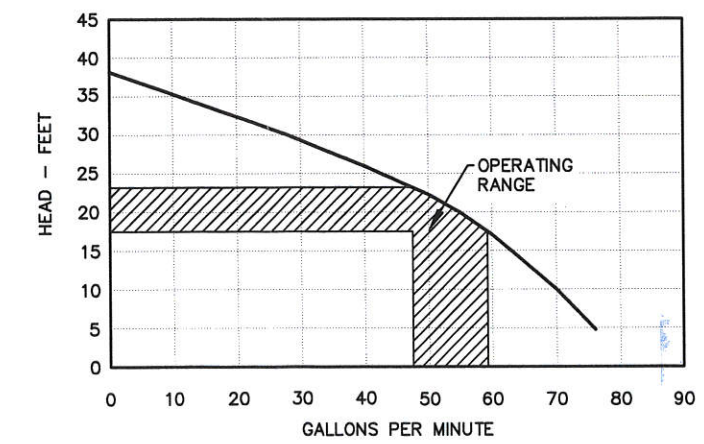
DESIGN CRITERIA LOT 2

- 1) SYSTEM SIZE = 5 BEDROOMS & 2 BEDROOMS OR 625 GALLONS/DAY
- 2) APPLICATION RATE = 0.4 GALLONS/SQ. FT./DAY
- 3) 625 GAL./DAY/0.4= 1,563 SQ. FT (MIN) ABSORPTION AREA
- 4) TRENCH SIZE = 3'W x 105'L = 315 SQ. FT. * 5 TRENCHES = 1,575 SQ. FT OF ABSORPTION AREA
- 5) LATERAL VOLUME = 46.36 GALLONS
- 6) FORCE MAIN VOLUME = 22.36 GAL; MANIFOLD VOLUME = 4.75 GAL
- 7) DOSE VOLUME = 282.62 GALLONS @ 13" DRAWDOWN
- 8) SOILS = SILT LOAM



DESIGN CRITERIA LOT 3

- 1) SYSTEM SIZE = 5 BEDROOMS & 2 BEDROOMS OR 625 GALLONS/DAY
- 2) APPLICATION RATE = 0.4 GALLONS/SQ. FT./DAY
- 3) 625 GAL./DAY/0.4= 1,563 SQ. FT (MIN) ABSORPTION AREA
- 4) TRENCH SIZE = 3'W x 105'L = 315 SQ. FT. * 5 TRENCHES = 1,575 SQ. FT OF ABSORPTION AREA
- 5) LATERAL VOLUME = 37.08 GALLONS
- 6) FORCE MAIN VOLUME = 28.23 GAL; MANIFOLD VOLUME = 4.75 GAL
- 7) DOSE VOLUME = 282.62 GALLONS @ 13" DRAWDOWN
- 8) SOILS = SILT LOAM

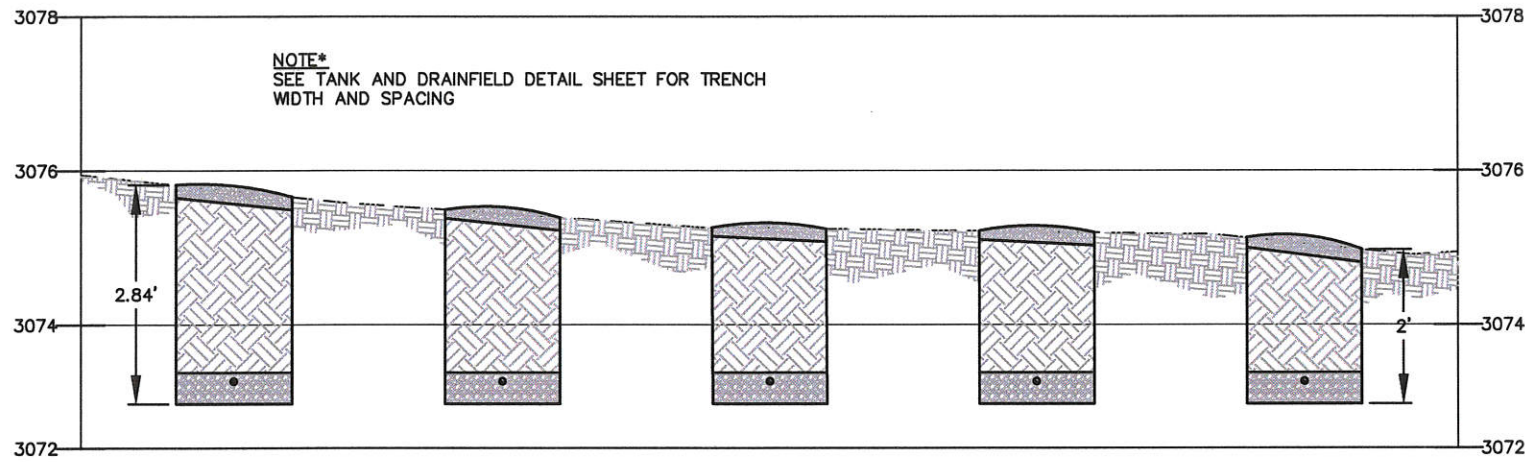


APPROVED
Montana Department of
Environmental Quality
B.K. O'Neil
Reviewer 1/17/23
Date

PRELIMINARY
NOT FOR
CONSTRUCTION

SEAL

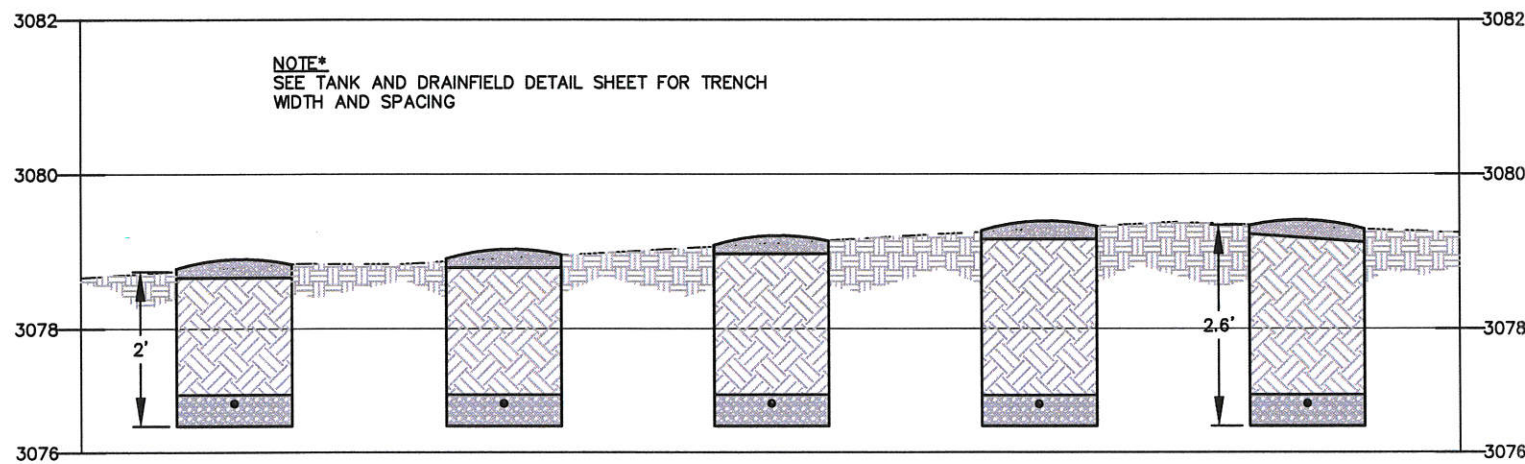
SEPTIC DETAILS AND NOTES
BLUEMOON ESTATES SUBDIVISION
FLATHEAD COUNTY, MONTANA



LOT 4 LATERALS PROFILE VIEW
NTS

DESIGN CRITERIA LOT 4

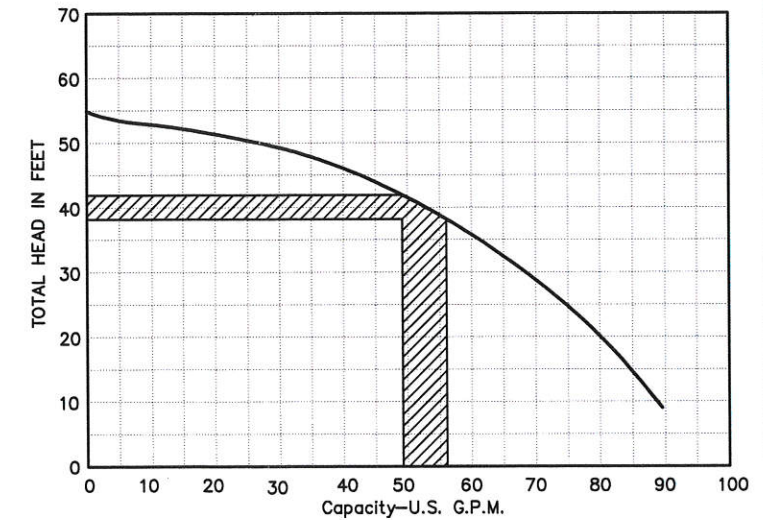
- 1) SYSTEM SIZE = 5 BEDROOMS & 2 BEDROOMS OR 625 GALLONS/DAY
- 2) APPLICATION RATE = 0.4 GALLONS/SQ. FT./DAY
- 3) 625 GAL./DAY/0.4= 1,563 SQ. FT (MIN) ABSORPTION AREA
- 4) TRENCH SIZE = 3'W x 105'L = 315 SQ. FT. * 5 TRENCHES = 1,575 SQ. FT OF ABSORPTION AREA
- 5) DOSE VOLUME = 282.62 GALLONS @ 13" DRAWDOWN - SIPHON DOSED
- 6) SOILS = VERY FINE SANDY LOAM



LOT 5 LATERALS PROFILE VIEW
NTS

DESIGN CRITERIA LOT 5

- 1) SYSTEM SIZE = 5 BEDROOMS & 2 BEDROOMS OR 625 GALLONS/DAY
- 2) APPLICATION RATE = 0.4 GALLONS/SQ. FT./DAY
- 3) 625 GAL./DAY/0.4= 1,563 SQ. FT (MIN) ABSORPTION AREA
- 4) TRENCH SIZE = 3'W x 105'L = 315 SQ. FT. * 5 TRENCHES = 1,575 SQ. FT OF ABSORPTION AREA
- 5) LATERAL VOLUME = 37.08 GALLONS
- 6) FORCE MAIN VOLUME = 47.16 GAL; MANIFOLD VOLUME = 4.75 GAL
- 7) DOSE VOLUME = 282.62 GALLONS @ 13" DRAWDOWN
- 8) SOILS = SILT LOAM



MYERS ME50 - PUMP CURVE

NO.	REV.	DATE

PROJECT NO.: 241.01
DESIGNED BY: T.PISK
DRAWN BY: T.PISK
CHECKED BY: B.FOLEY

OCT 31 2022

OCTOBER 27, 2022

MT DEQ WATER & SUBDIVISIONS

4 OF 5

PRELIMINARY
NOT FOR
CONSTRUCTION

SEAL

TANK DETAILS

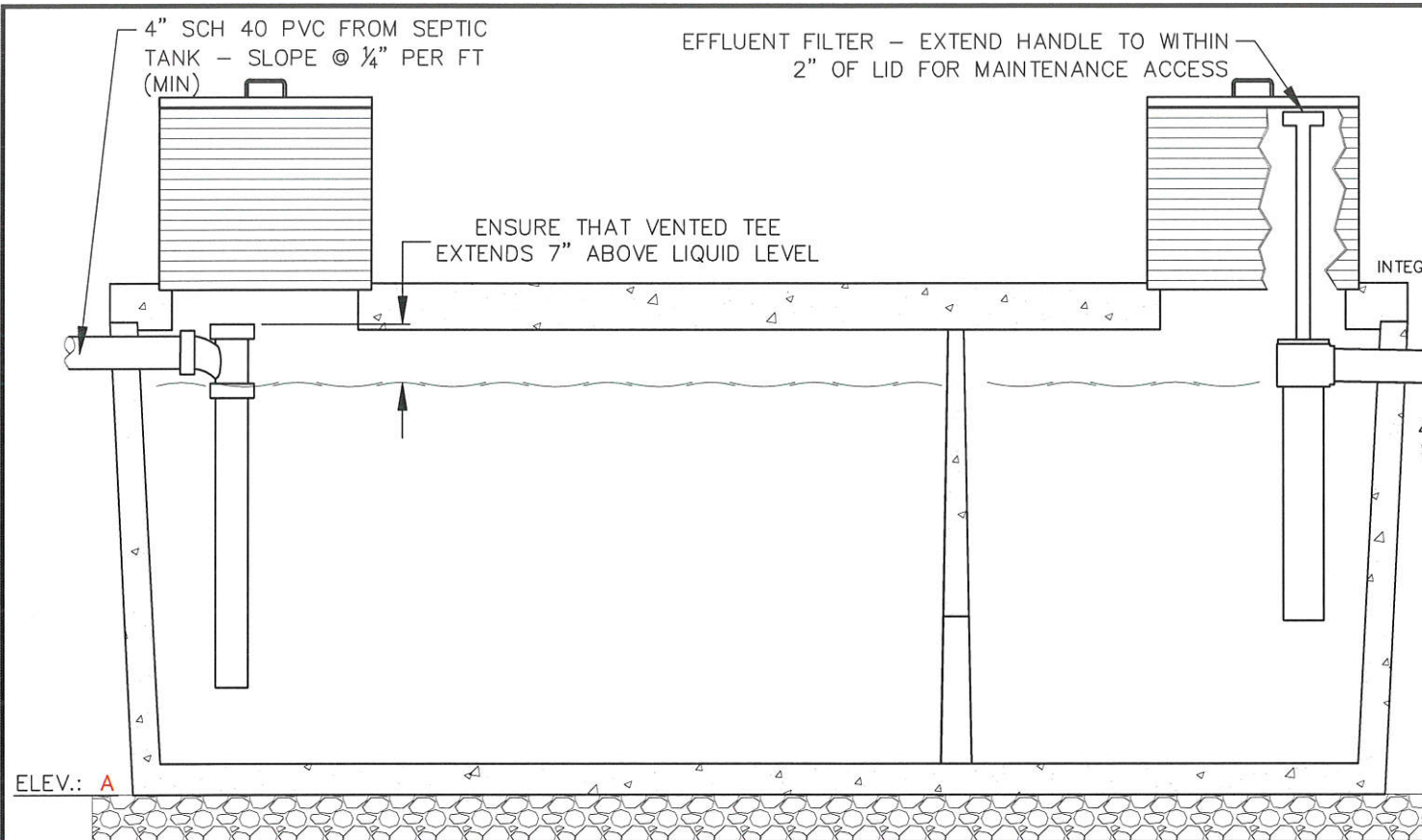
BLUEMOON ESTATES SUBDIVISION
FLATHEAD COUNTY, MONTANA

NO.	REV.	DATE

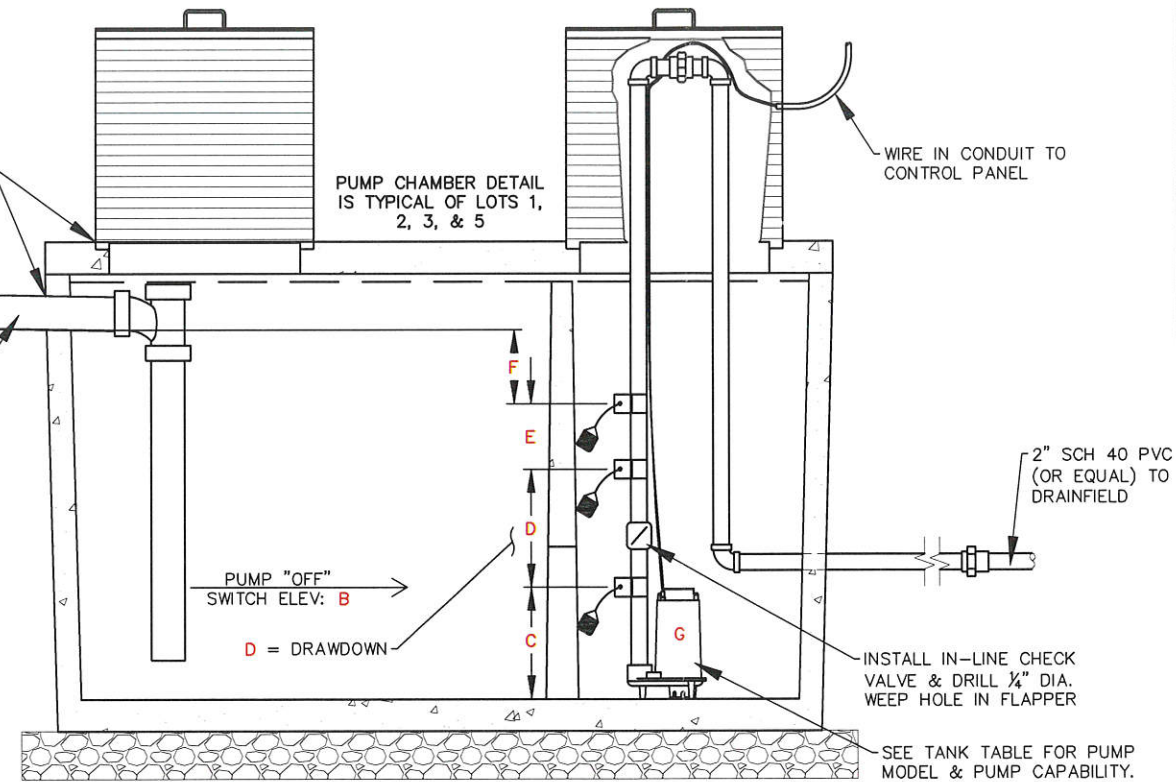
PROJECT NO.: 241.01
DESIGNED BY: T.PISK
DRAWN BY: T.PISK
CHECKED BY: B.FOLEY

OCTOBER 27, 2022

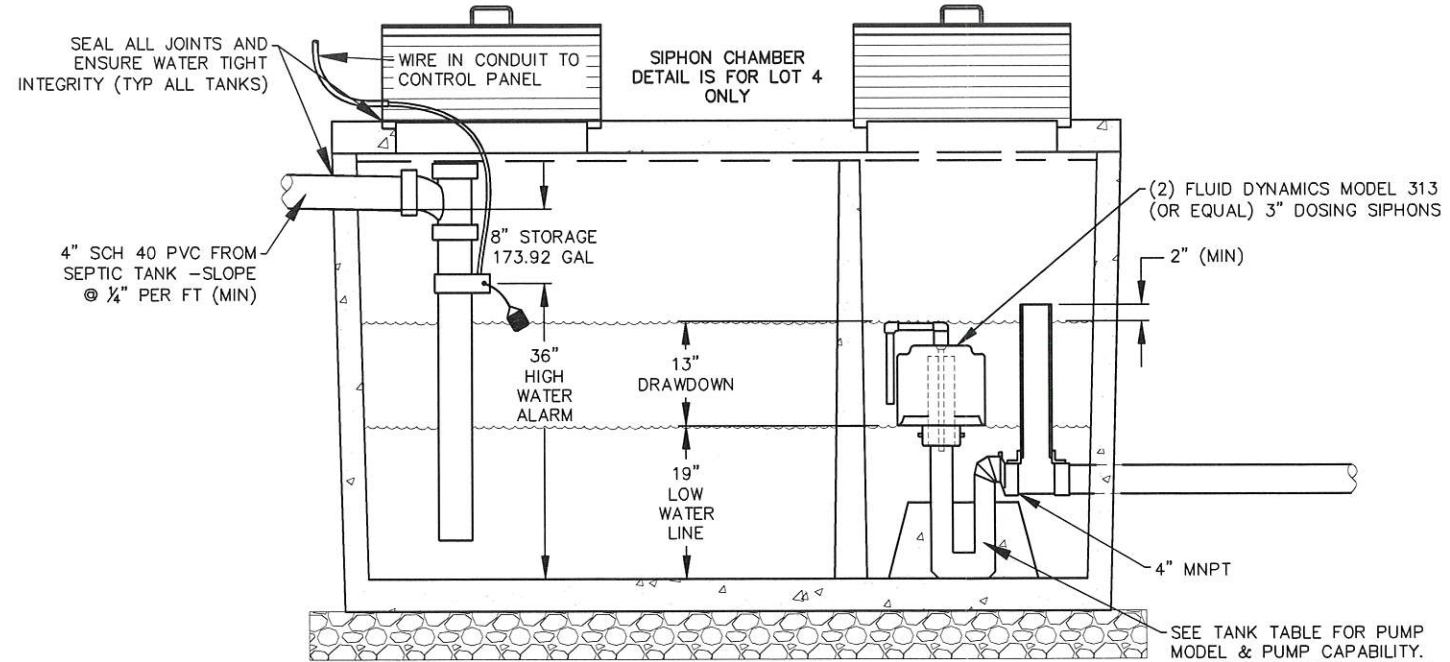
SHEET



2,500 GALLON SEPTIC TANK
NTS



1,000 GALLON PUMP CHAMBER
NTS



1,000 GALLON SIPHON CHAMBER
NTS

APPROVED
Montana Department of
Environmental Quality
[Signature] 1/17/23
Reviewer Date

TANK TABLE

LOT NUMBER	A BOT. OF TANK ELEVATION	B PUMP "OFF" SWITCH ELEVATION	C PUMP HEIGHT (IN)	D DRAWDOWN (IN)	E HIGH WATER ALARM (IN) ABOVE PUMP ON	F RESERVE VOL. (GAL)	G PUMP MODEL
1	3051.75	3053.50	17 IN.	13"=282.62 GAL	8"	173.92	LIBERTY FL51
2	3068.25	3065.87	17 IN.	13"=282.62 GAL	8"	173.92	LIBERTY FL51
3	3093.64	3099.22	14 IN.	13"=282.62 GAL	8"	239.14	ASHLAND EP40
4	3097.23	SEE DETAIL	SIPHON	13"=282.62 GAL	SEE DETAIL	173.92	FLUID DYN. 313
5	3060.63	3062.62	17 IN.	13"=282.62 GAL	8"	173.92	MYERS ME50