

April 22, 2025

Chris Wasia, PE Genesis Engineering, Inc 204 N 11<sup>th</sup> Ave Bozeman, MT 59715

RE:

Rabel Minor Subdivision, No 56B

Lot 4A Rewrite Gallatin County

EQ #24-1778 (Subdivision) EQ#24-1932 (Public Facilities)

#### Dear Chris Wasia:

Plans and specifications for the subject project have been reviewed by personnel of the Public Water Supply and Subdivisions Section and were found to be satisfactory. Approval of these plans is hereby given; a copy of the plans bearing the approval stamp of the Department is enclosed. Approval is based on plans and specifications received December 27, 2023 with revisions March 8, 2024, April 15, 2024, May 2, 2024, and January 21, 2025, under the seal of Christopher M. Wasia, #10959PE.

The plans were reviewed in accordance with Department design standards DEQ-1, 2022 edition and DEQ-2, 2018. Construction will be completed in accordance with the Montana Public Works Standard Specifications, and the approved plans and specifications. This project approval includes the construction of a new transient non-community public water supply well, GWIC# 333675 and installation of a 3 hp well pump capable of 33 gpm at 175 TDH, a control building containing VFD controller for the well pump, two Flex2Pro hydropneumatic tanks, Clear Water Systems J-Pro-22 pump proportional feed chlorinator with 35-gallon solution tank, eye wash station, approximately 590 linear feet of new 6-inch C900 water main and appurtenances and approximately 545 linear feet of new 8-inch SDR 35 PVC sewer main, two manholes, and appurtenances.

As a part of the well location approval of this project (EQ#22-1443) a deviation was requested from Circular DEQ-3, Section 3.2.3.1 to allow the sanitary sewer mains and a manhole within the 100-foot control zone of the public water well. It was approved by the DEQ deviation review committee on the condition that full-time 4-log inactivation and/or removal of viruses is required in accordance with Circular DEQ-3, Section 4.1.1 as defined in DEQ Circular 3 Section 1.4, and ARM 17.36.601.

This approval is given with the following conditions:

- 1. No portion of the project may be placed into operation until the project engineer certifies by letter to the Department that the activated portion of the project was inspected and found to be constructed in accordance with the approved plans and specifications and there are no deviations from the design standards other than those previously approved by the department.
- 2.. Any deviations from the approved plans and specifications must be submitted to the Department for reappraisal and approval prior to modification.

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3. Within 90 days after construction completion, the project engineer must submit a complete set of certified as-built drawings for the project and a final O&M manual for the water treatment system; they must be signed and submitted to the department.

4. Construction of the water and sewer portions of this project must be completed within three years of the date of this letter. If more than three years elapse before completing construction, plans and specifications for the water and/or sewer system(s) must be resubmitted and approved before construction begins. This three-year expiration period does not extend any compliance schedule requirements pursuant to enforcement action against a public water/sewage system.

Failure to abide by the above conditions is considered a significant violation of the Montana Public Water Supply Laws (PWSL), and the administrative rules promulgated there under. The applicant is responsible for compliance with all other applicable federal, state, local, and tribal law, regulations, and ordinances, including but not limited to, the Montana Water Use Act, Mont. Code Ann. Title 85, Chapter 2.

The applicant is responsible for compliance with all applicable federal, state, local, and tribal law, regulations, and ordinances. Approval in this document is limited solely to the matters therein specifically contained and does not constitute approval, implied or otherwise, for the purposes of any other law, regulation, or ordinance.

Department approval of this project covers only those portions of the plans and specifications that are subject to the Department's review authority under the Public Water Supply Laws (MCA 75-6) and the Administrative Rules promulgated thereunder (ARM 17.38). This approval does not cover items found within the plans and specifications that are outside of the Department's review authority, including but not limited to, electrical work, architecture, site grading or water and sewer service connections.

RE:

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Lot 4A Rewrite Gallatin County

EQ #24-1778 (Subdivision) EQ#24-1932 (Public Facilities)

If I can offer any further information or assistance, please feel free to contact me at (406) 444-6713.

Sincerely,

Jenifer Ramsey, PE

Environmental Engineer

Public Water and Subdivision Section

Jenip Miss

Engineering Bureau

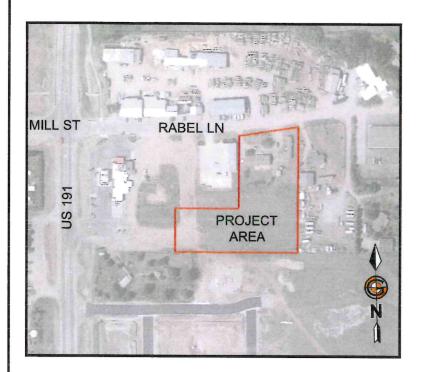
e-mail - jenifer.ramsey@mt.gov

c: fi

Gallatin County Sanitarian

Owner

## **VICINITY MAP**



#### **ABBREVIATIONS**

	/ IDDI LE VI/ LIONO		
APPROX	APPROXIMATE	MPW	MONTANA PUBLIC WORKS
ASPH	ASPHALT	NTS	NOT TO SCALE
ASS'Y	ASSEMBLY	OC	ON CENTER
AVG	AVERAGE	OD	OUTSIDE DIAMETER
0	AT	OHP	OVERHEAD POWER
BLDG	BUILDING	PC	POINT OF CURVE
BOT	BOTTOM	PE	POLYETHYLENE
CHK	CHECK	PERP	PERPENDICULAR
CI	CAST IRON	PI	POINT OF INTERSECTION
CL	CONSTRUCTION JOINT, CONTROL JOINT CENTER LINE	PL	PLACE
CLR	CLEAR, CLEARANCE	PNT	POINT
CMP	CORRUGATED METAL PIPE	PRELIM PREP	PRELIMINARY
CMU	CONCRETE MASONRY UNITS	PROP	PREPARE, PREPARATION PROPERTY
CO	CLEANOUT	PRV	PRESSURE REDUCING VALVI
COMB	COMBINATION	PT	POINT OF TANGENCY
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE
CONT	CONTINUE, CONTINUED, CONTINUOUS	PVMT	PAVEMENT
COORD	COORDINATE	RAD	RADIUS
CORR	CORRUGATED	RCP	REINFORCED-CONCRETE PIF
CTR	CENTER	RD	ROAD
CF	CUBIC FEET	RDCR	REDUCER
CULV	CULVERT	REBAR	REINFORCEMENT BAR
CYD	CUBIC YARD	REF	REFERENCE
DI	DUCTILE IRON	REINF	REINFORCE
DIA	DIAMETER	RELOC	RELOCATE, RELOCATION
DIAG	DIAGONAL	REQD	REQUIRED
DIM	DIMENSION	RST	REINFORCING STEEL
DWG	DRAWNG	RT	RIGHT
EA	EACH	R.O.W.	RIGHT-OF-WAY
EL, ELEV	ELEVATION	SAN	SANITARY
ENGR	ENGINEER	SCHED	SCHEDULE
EP FOUNT	EDGE OF PAVEMENT	SDWK	SIDEWALK
EQUIV EX	EQUIVALENT EXISTING	SECT	SECTION
EXT	EXTENSION, EXTERIOR	5	SLOPE
FAB	FABRICATE	SPEC	SPECIFICATION
FDN	FOUNDATION	SQ SQ FT	SQUARE
FES	FLARED END SECTION	SQ IN	SQUARE FOOT SQUARE INCH
FET	FLARED END TERMINAL	STA	STATION
FFE	FINISHED FLOOR ELEV	SS	SANITARY SEWER
FF	FINISHED FLOOR	SSMH	SANITARY SEWER MANHOLE
FG	FINISH GRADE	STD	STANDARD
FHYD	FIRE HYDRANT	STL	STEEL
FLL	FLOW LINE	STRUCT	STRUCTURE
FIN.	FINISH	SVC	SERVICE
FLR	FLOOR	SWR	SEWER
FT	FOOT, FEET	TB	THRUST BLOCK
FTG	FOOTING, FITTING	TBC	TOP BACK OF CURB
HDPE	HIGH DENSITY POLYETHYLENE	TEMP	TEMPORARY, TEMPERATURE
HORIZ	HORIZONTAL	THRU	THROUGH
HWY	HIGHWAY	T.O.	TOP OF
HYD ID	HYDRANT	T.O.P.	OUTSIDE TOP OF PIPE
IF.	INSIDE DIAMETER INVERT ELEVATION	TOC	TOP OF CONCRETE, TOP OF
instal ater	INCH	T.O.W.	TOP OF WALL
INCT) CT	INSTALL, INSTALLATION	TYP	TYPICAL
INSUL	INSULATE	UG UTIL	UNDERGROUND UTILITY
JB	JUNCTION BOX	VERT	VERTICAL
LBS	POUNDS	VOL	VOLUME
LF	LINEAR FEET	W/	WITH
LT	LEFT	w/o	
LVL	LEVEL	WL W	WITHOUT WATERLINE
MAX	MAXIMUM	WM	WATER MAIN
MH	MANHOLE	WS	WATER SERVICE
MIN	MINIMUM	WTR	WATER
MISC	MISCELLANEOUS	WV	WATER VALVE
MJ	MECHANICAL JOINT		TALTE

# GATEWAY WAREHOUSES INFRASTRUCTURE PLANS

GATEWAY, MONTANA

PREPARED FOR:

DAN ALEXANDER 1612 GOLD AVENUE BOZEMAN, MT 59715

PREPARED BY:



MINIMUM RESTRAINT LENGTHS @200PSI
FS=2 W/SOIL TYPE GP

FITTING MIN. LENGTH (FT)
6" 90' HORIZ. BEND 15'-0"
6" 45' HORIZ. BEND 7'-0"
6" 22.5' HORIZ. BEND 3'-0"
6' 11.25 HORIZ. BEND 2'-0'
6" END CAP 45'-0"
6" HORIZ. TEE 7'-0"
6" WERT. SYSTEM 11.25 5'-0"

### **PLAN INDEX**

SHEET	DESCRIPTION
I-1	COVER SHEET
GD-1	GRADING & DRAINAGE PLAN
UTIL-1	INDEX LAYOUT
S-1	SEWER MAIN
W-1	WATER MAIN
D-1	PWS DETAILS
D-2	WATER & SEWER DETAILS

#### GENERAL NOTES

- 1. ALL CONSTRUCTION WORK ON THIS PROJECT SHALL BE COMPLETED IN ACCORDANCE WITH MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS, SIXTH EDITION, 2010 MPWSS AND GALLATIN GATEWAY WATER & SEWER DISTRICT STANDARD SPECIFICATIONS AND DRAWINGS.
- 2. WATER MAIN PIPE MATERIAL SHALL BE AS SPECIFIED ON THE PLANS. ALL WATER MAIN SHALL BE INSTALLED WITH A MINIMUM COVER OF 6.5 FEET AND MAX COVER OF 10 FEET WITH RESPECT TO FINISHED GRADE.
- 3. MAINTAIN 18" (VERT.) SEPARATION BETWEEN ALL WATER MAIN AND ALL SEWER MAIN OR SEWER FORCEMAIN.
- 4. THE CONTRACTOR SHALL RESTORE ALL ROADWAY SURFACES TO EQUAL OR BETTER CONDITION THAN EXISTED PRIOR TO EXCAVATION, AS DETERMINED BY OWNER AND THE ENGINEER.
- 5. THE LOCATION, DEPTH AND SIZE OF EXISTING UTILITIES SHOWN ON THESE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTENCE, LOCATION, DEPTH, SIZE, LINE AND GRADE OF EXISTING UTILITIES CONNECTIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING FACILITIES DUE TO FAILURE TO LOCATE OR PROVIDE PROPER PROTECTION WHEN LOCATION IS KNOWN.
- 6. A LIST OF REPRESENTATIVES TO CONTACT FOR INFORMATION REGARDING FACILITIES IS AS FOLLOWS

 
 MONTANA ONE CALL SYSTEM NORTHWESTERN ENERGY
 1-800-424-5555

 CALLATIN GATEWAT WATER & SEWER DISTRICT
 1-406-598-0951

 THREE RIVERS COMMUNICATIONS
 1-406-728-9343

- 7. THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES, CURB BOXES, AND MANHOLES TO FINAL GRADE UPON COMPLETION OF ALL CONSTRUCTION.
  ANY BOXES OR MANHOLES DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR OR ANY SUBCONTRACTOR SHALL BE REPAIRED AT THE EXPENSE
  OF THE CONTRACTOR. THIS WORK SHALL BE INCIDENTAL TO THE PROJECT, SEPARATE PAYMENT WILL NOT BE MADE.
- 8. ALL BACKFILL FOR UTILITY TRENCHES SHALL BE TYPE "A", UTILIZING TYPE 1 BEDDING FROM 6" BELOW TO 6" ABOVE PER DETAIL 22-02 UNLESS DIRECTED OTHERWISE BY ENGINEER. THE COST OF THIS BEDDING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR WATER, STORM, AND SEWER MAIN.
- 9. ALL VALVES SHALL BE INSTALLED WITH MECHANICAL RESTRAINTS AND VALVE BOXES IN ACCORDANCE WITH MPWSS AND GGWSD MODIFICATIONS. <del>ANY EXISTING OR NEW VALVES WHICH CONTROL THE BSWSD'S WATER SUPPLY SHALL BE OPERATED BY BSWSD PERSONNEL ONLY.</del>
- 10. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH GGWSD STD DWGS.
- 11. ALL FITTINGS INCLUDING BENDS EQUAL TO OR GREATER THAN 22-1/2 DEGREES, TEES AND PLUGS SHALL HAVE MECHANICALLY RESTRAINED JOINTS AS INDICATED ON SHEET W-1 FOR AS ESTIMATED TESTING PRESSURE OF 200 PSI.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST AND EROSION DURING CONSTRUCTION AT HIS EXPENSE. ROADS SHALL BE WATERED TO CONTROL DUST WHEN ORDERED BY THE ENGINEER. EROSION SHALL BE CONTROLLED IN ACCORDANCE WITH THE SWPPP PERMIT.
- 13. ALL PROFILES REPRESENT EXISTING GROUND (DASHED LINE) AND FINISHED ASPHALT (SOLID LINE) ALONG THE ALIGNMENTS INDICATED ON THE PLANS. ELEVATIONS ARE FINISHED ASPHALT ELEVATIONS UNLESS OTHERWISE NOTED.
- 14. ALL DISTURBED AREAS SHALL BE SEEDED BY THE CONTRACTOR IN ACCORDANCE WITH SWPPP PERMIT.

- 15. ACCESS FOR OTHER CONTRACTORS WORKING ON THE SITE AND EMERGENCY VEHICLES SHALL BE PRESERVED AT ALL TIMES IN ACCORDANCE WITH THE CONCURRENT CONSTRUCTION PLAN PROVIDED IN THE PROJECT MANUAL.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF UTILITY (PHONE/POWER) INSTALLATION WITH LOCAL UTILITY COMPANIES.
- 17. THE CONTRACTOR SHALL NOTIFY ONE CALL  $\oplus$  1-800-424-5555 FOR ONSITE UTILITY LOCATION. ALL EXISTING UTILITIES SHALL BE MARKED BEFORE DIGGING.
- 18. THE CONTRACTOR SHALL MAINTAIN SERVICE OF ALL EXISTING UTILITIES. IF SAID SERVICE IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY REPAIR THE DAMAGE AT THE CONTRACTOR'S EXPENSE.
- 19. THE PIPE GRADES SHOWN ARE CALCULATED FROM ACTUAL DISTANCES, EDGE OF MANHOLE TO EDGE OF MANHOLE (DISPLAYED LF-4'). THE DISPLAYED PIPE LF IS FOR ESTIMATING PIPE PAY QUANTITIES, CENTER OF MANHOLE TO CENTER OF MANHOLE. SEE MEASUREMENT AND PAYMENT IN THE SPECIFICATIONS.
- 20. WATER AND SEWER SERVICE LINES SHALL BE EXTENDED TO WITHIN 5 LF OF THE PROPOSED BUILDING UNLESS NOTED THERWISE.
- 21. ALL UTILITY CONDUITS FOR IRRIGATION, ELECTRICAL, GAS, PHONE, CATV, ETC... SHALL BE BURIED A MINIMUM 42" FROM FINISHED GRADE WITH TYPE A BACKFILL, UTILIZING TYPE 1 BEDDING UNLESS DIRECTED OTHERWISE BY ENGINEER. ALL LOCATIONS ARE SHOWN APPROXIMATE AND SHALL BE FIELD FIT AS DIRECTED BY ENGINEER.
- 22. VALVE BOXES ARE REQUIRED FOR ALL VALVES IN A BURIED SERVICE.
- 23. TOP ELEVATIONS PROVIDED FOR WATER MAIN CONSTRUCTION REPRESENT THE MINIMUM TOP ELEVATION AT THE LOCATION IDENTIFIED TO ACHIEVE THE REQUIRED 7.0° COVER BASED ON PLANNED STREET ELEVATIONS WITHOUT ALLOWANCES FOR CONSTRUCTION VARIANCES. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE REQUIRED 7.0° COVER OVER THE WATER PIPE IS ACHIEVED.
- 24. PIPE DEFLECTION IN WATER MAIN IS SHOWN USING 3' DEFLECTION AT THE JOINTS.
- 25. SANITARY SEWER MANHOLES SHALL HAVE MINIMUM OF 0.2' OF DROP BETWEEN INVERT IN AND INVERT OUT.

26. THE CONTRACTOR SHALL NOTIFY THE BIG SKY WATER & SEWER DEPARTMENT A MINIMUM OF 24 HOURS PRIOR TO DEGINNING ANY WORK.

- 27. CONTRACTOR SHALL FIELD VERIFY LINE AND GRADE OF EXISTING CONNECTIONS
- 28. WATER AND SEWER MAINS & SERVICES TO HAVE LOCATE WIRE PER DETAIL 22-02.
- 29. WATER MAIN TO HAVE COPPER CONDUCTIVITY STRAPS NOT BRONZE WEDGES.
- 30. BOLLARDS ARE TO BE PLACED ON ALL NEW HYDRANTS PER DETAIL 26-08.
- 31. WATER & SEWER SERVICES IN JOINT TRENCH SHALL HAVE A MINIMUM OF 12" OF SEPARATION

MJ MECHANICAL JOINT MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS

VERIFY SCALE
THESE PRINTS MAY BE REDUCED. LAR BELOW MEASURES ONE INCH ON ORIGINAL DRAWING
MODIFY SCALE ACCORDINGLY

MODIFY SCALE ACCORDINGLY

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Engineering
Consulting
Design
Planning
Phone: (406) 581-3319

CHRISTOPHER CHRIST

DRAWN BY: CMW
CHK'D. BY: CMW
APPR. BY: CMW
DATE: 2/16/24
Q.A. REVIEW
BY:

APPROVED

Montana Department of 
Environmental Quality

GATEWAY WAREHOUSES

GALLATIN GATEWAY

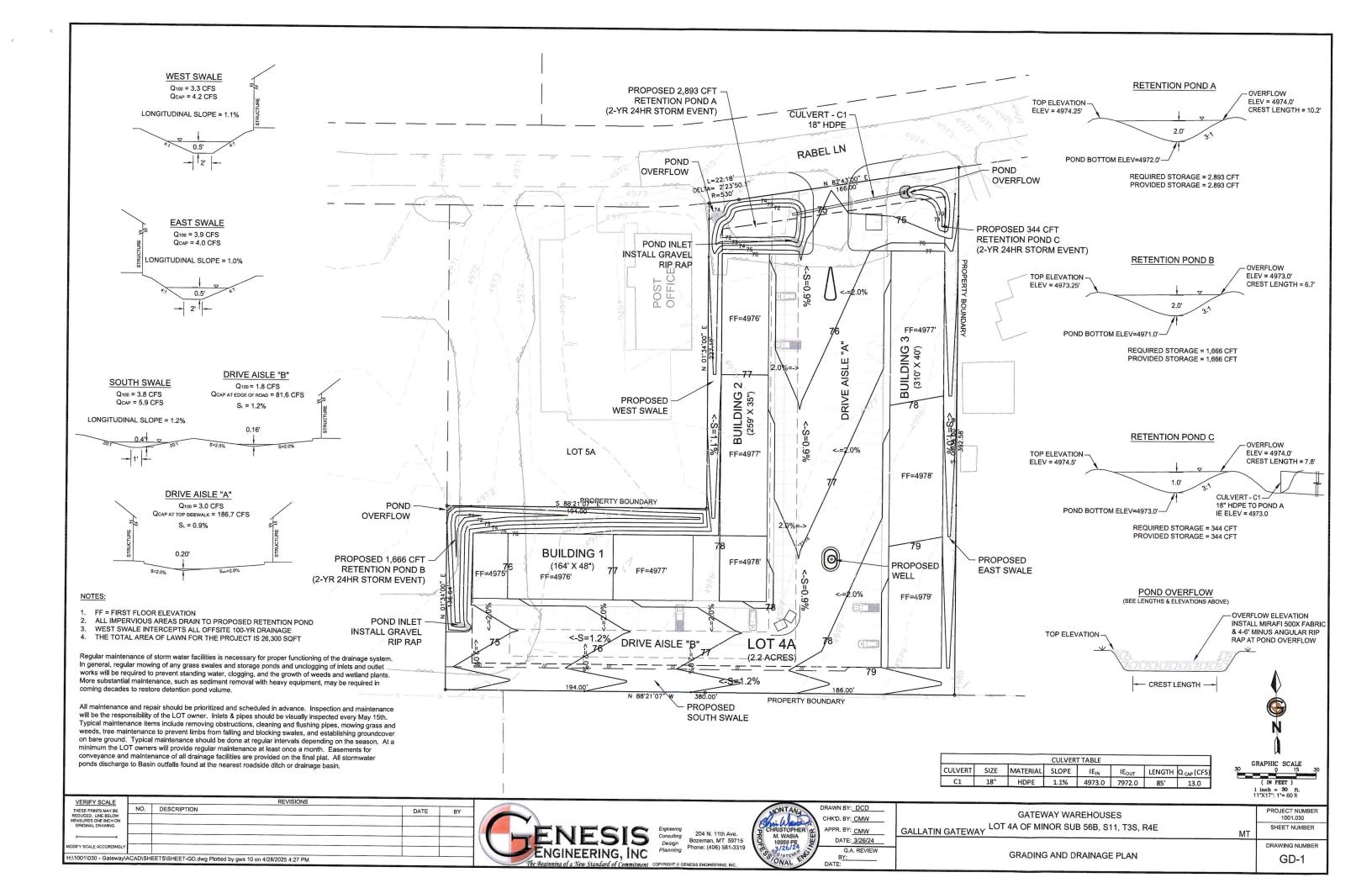
LOT 4A OF MINOR SUB 56B, S11, T3S, R4E

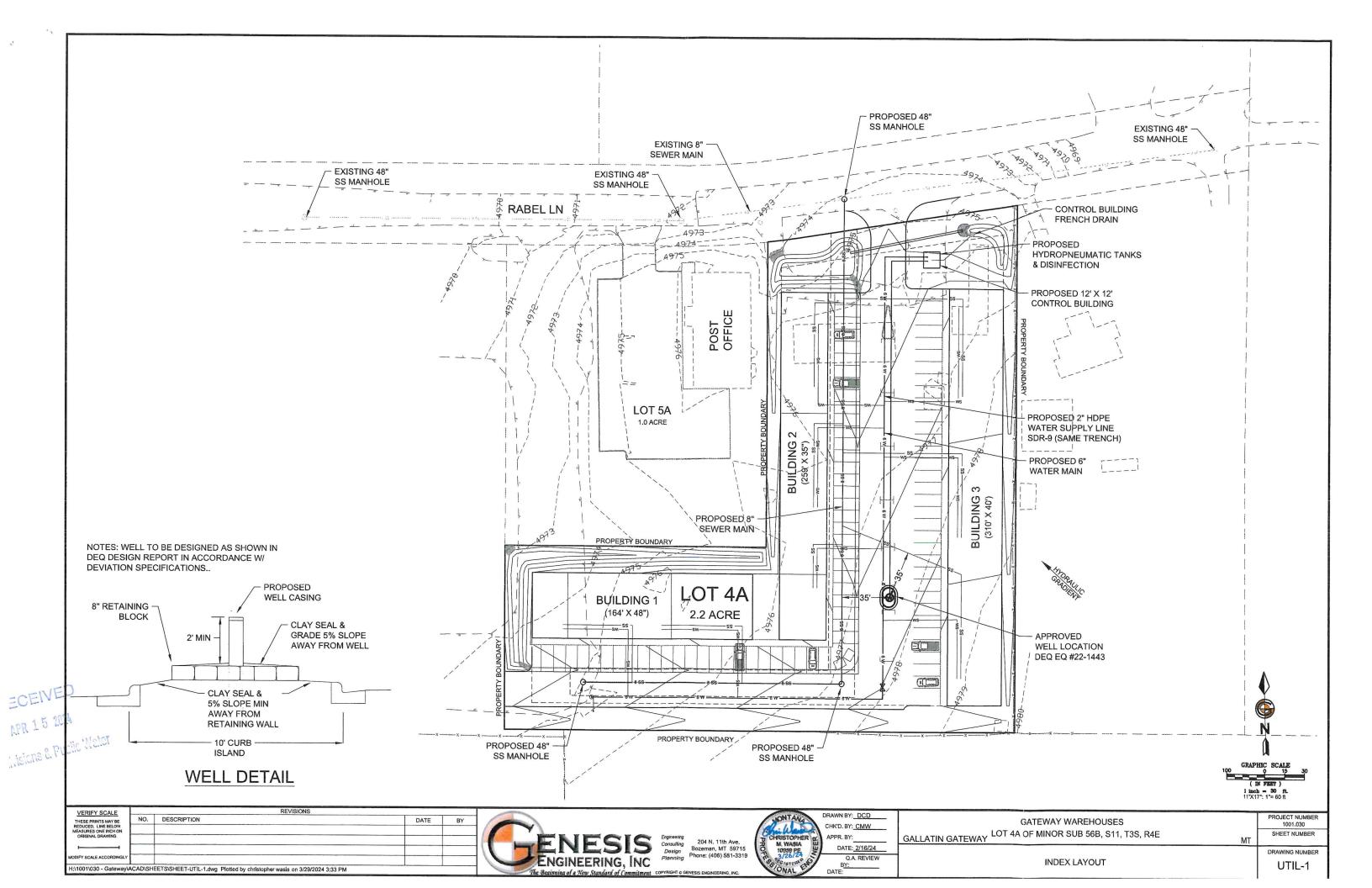
MT 1001.030
SHEET NUMBER
DRAWING NUMBER

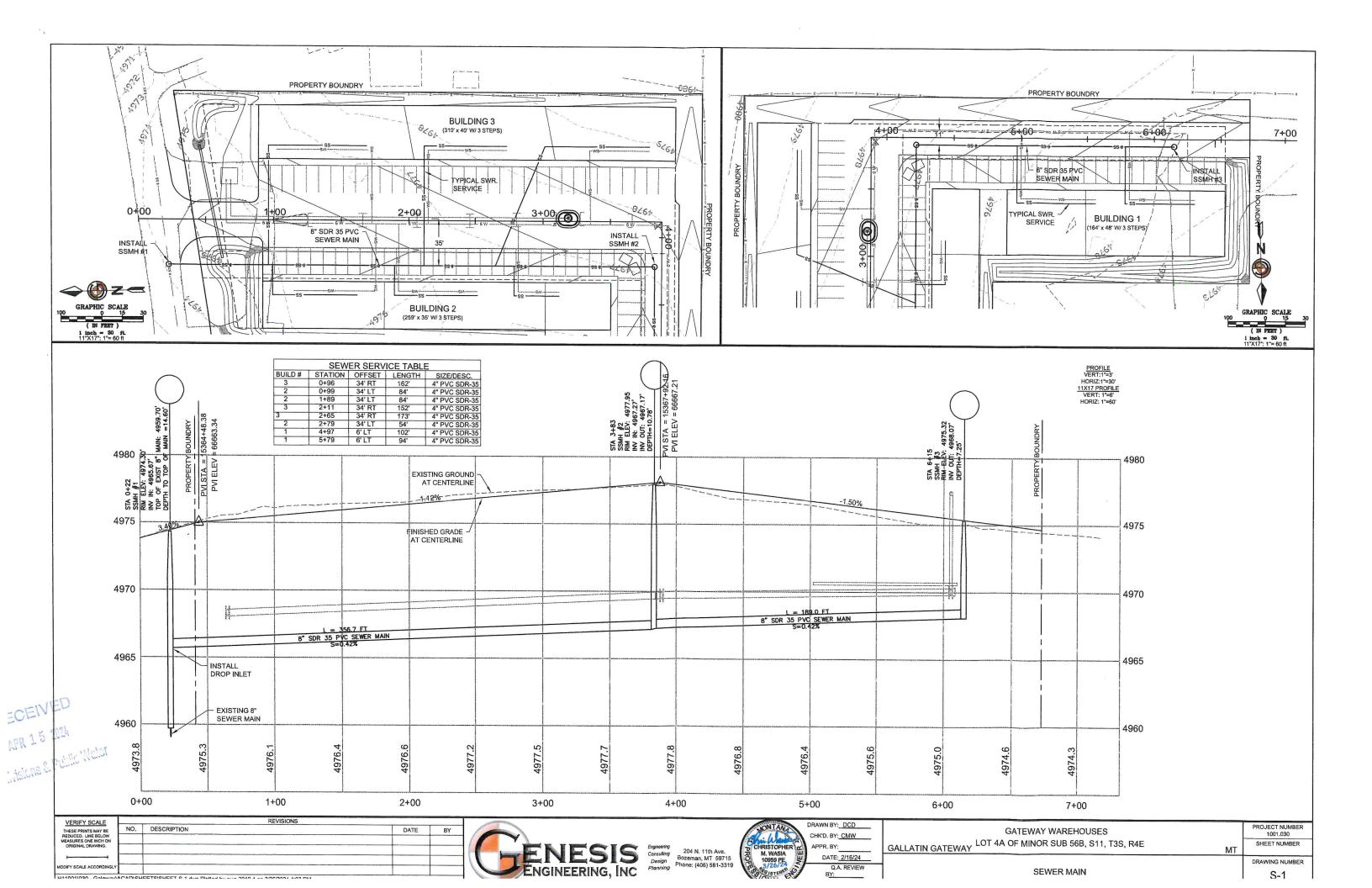
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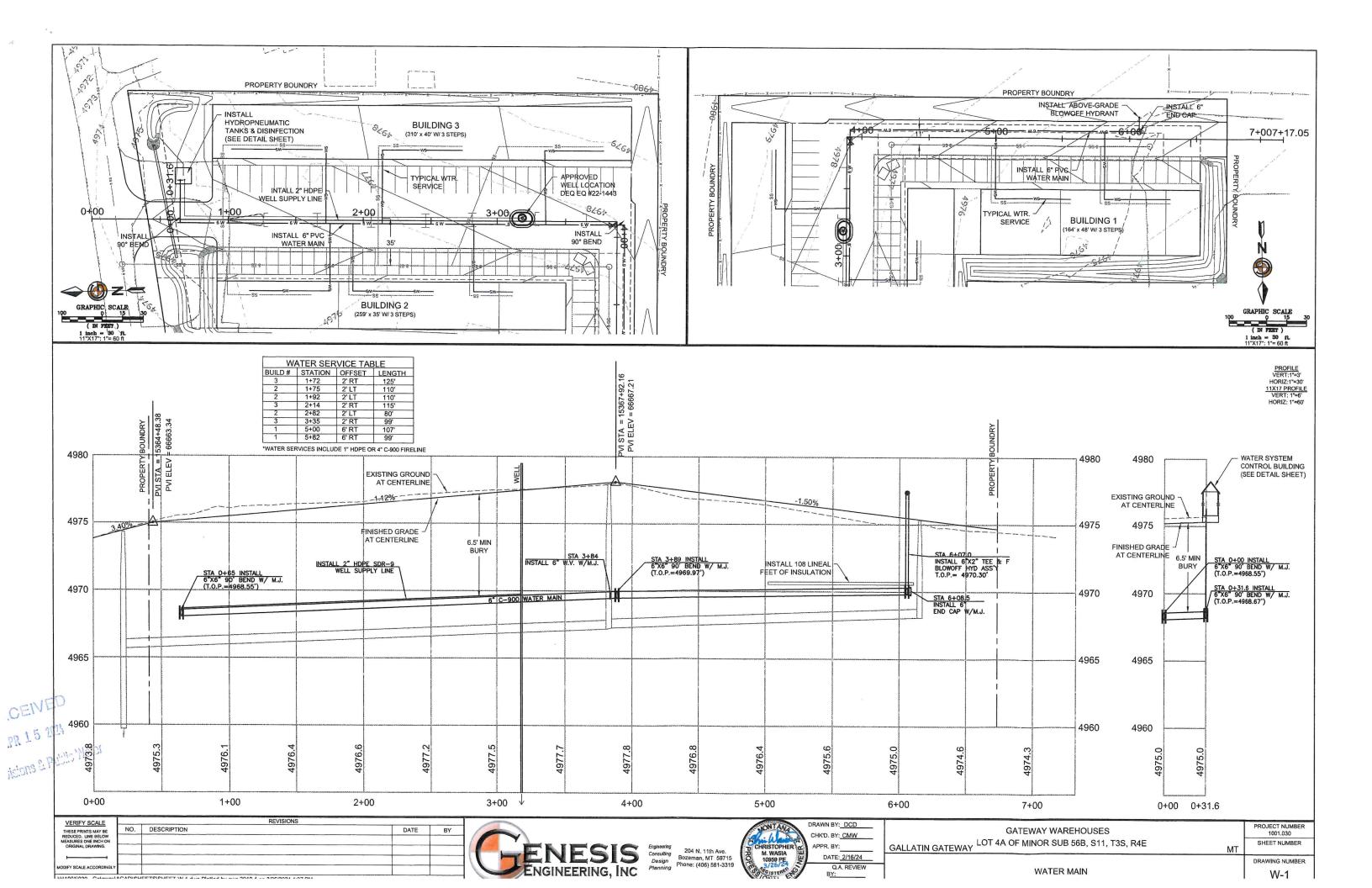
I-1

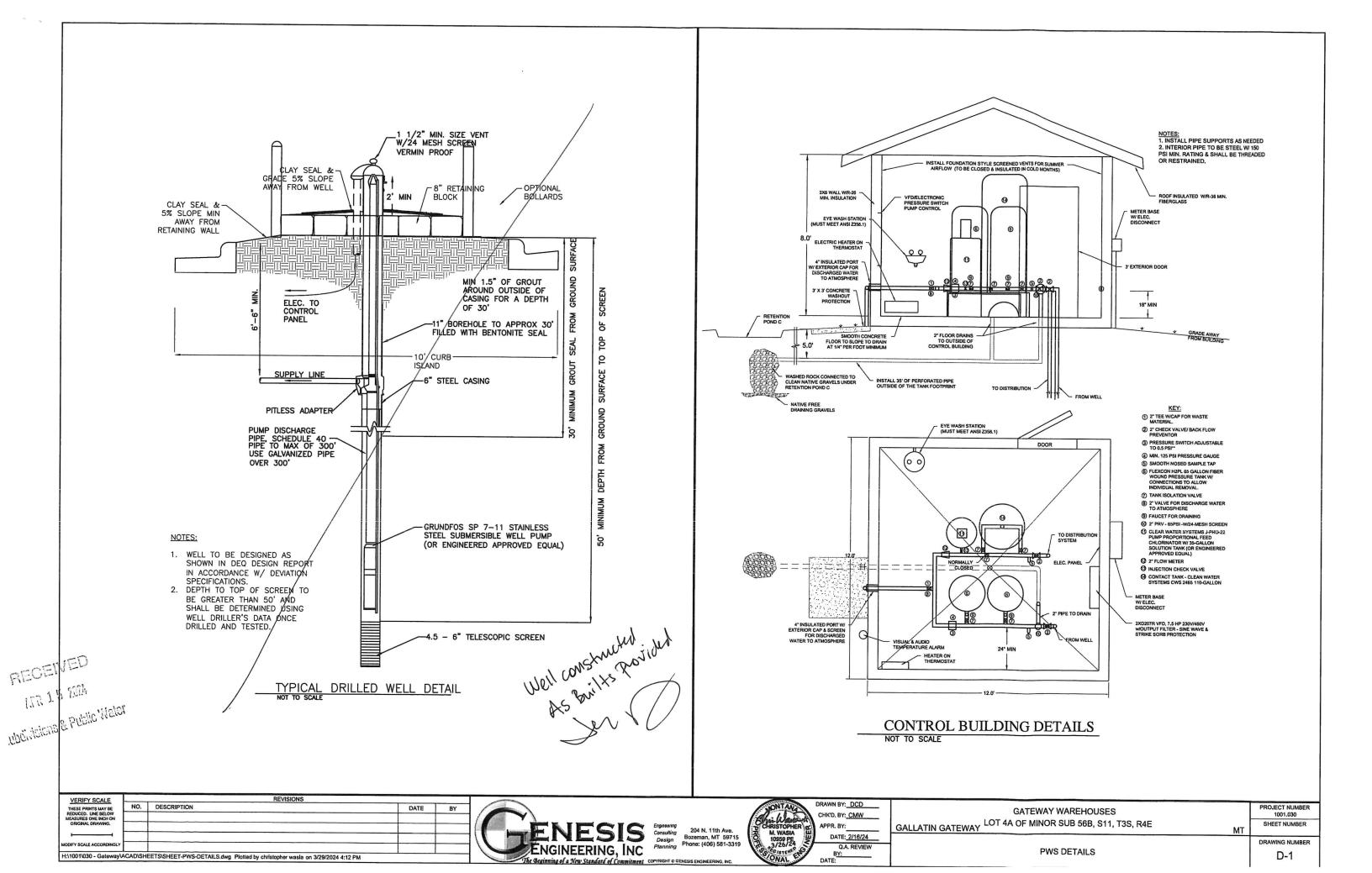
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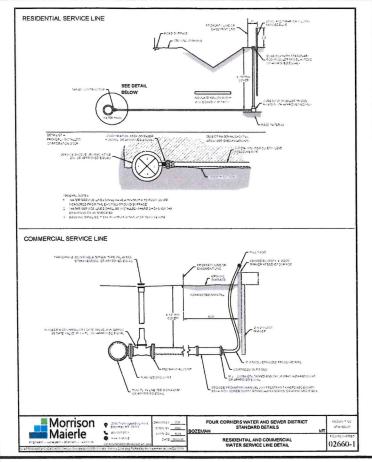


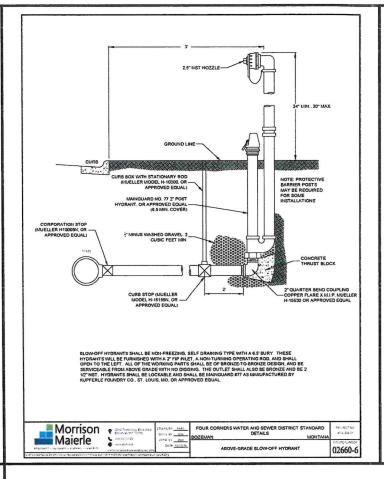


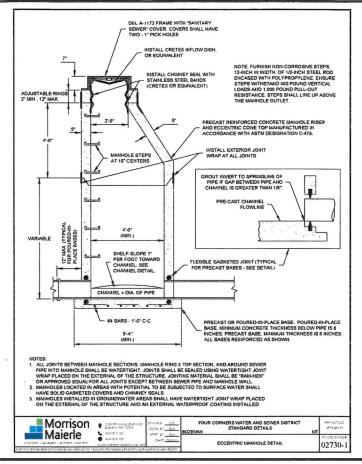


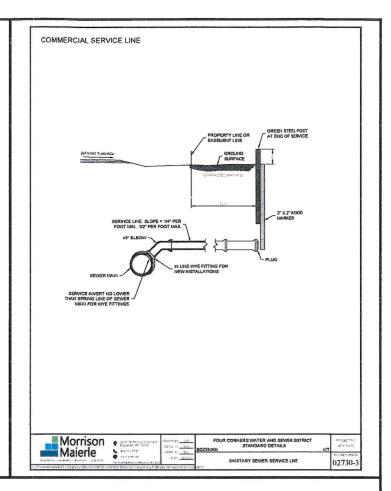


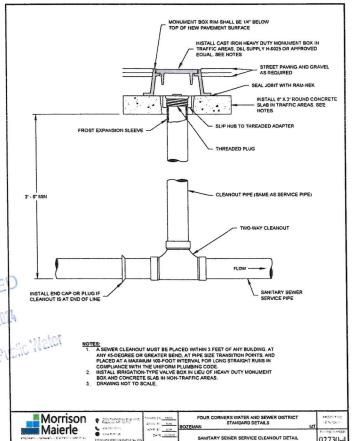










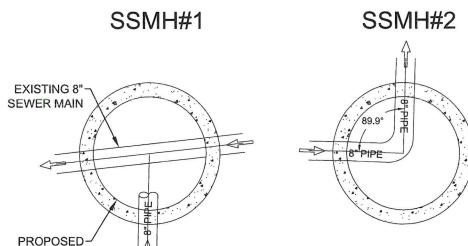


NO. DESCRIPTION

DDIFY SCALE ACCORDING

REVISIONS

RECEI



## 8" PIPE

SSMH#3

DATE

**DROP MANHOLE** 

- 1) ALL SANITARY SEWER MANHOLES ARE 4' DIAMETER UNLESS OTHERWISE SHOWN ALL MANHOLES SHALL HAVE ATLEAST 6 INCHES OF ADJUSTMENT RINGS INCLUDED
- ALL MANHOLES SHALL CONSTRUCTED IN ACCORDANCE WITH DEQ-2 AND SHALL BE
- EITHER HYDROSTATICALLY TESTED OR AIR TESTED.
- WATER TEST- THE LEAKAGE EXFILTRATION OR INFILTRATION MAY NOT EXCEED 200 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM. AN EXFILTRATION OR INFILTRATION TEST MUST BE PERFORMED WITH A MINIMUM 25 POSITIVE HEAD OF 2 FEET.
- AIR TEST- THE AIR TEST MUST, AT A MINIMUM, CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM C-828-86 FOR CLAY PIPE, ASTM C 924 FOR CONCRETE PIPE, UNI-B-690 LOW PRESSURE TEST FOR PVC PIPE.





Phone: (406) 581-3319

PROJECT NUMBER **GATEWAY WAREHOUSES** GALLATIN GATEWAY LOT 4A OF MINOR SUB 56B, S11, T3S, R4E SHEET NUMBER MT DRAWING NUMBER WATER & SEWER DETAILS D-2

1 inch = 30 ft. 11"X17": 1"= 60 ft