SURVEY LINETYPES

— — — — — — — — — — — —	EDGE OF SITE GEOMETRY
——— · · ——— · · ——— · · ———	EDGE OF WATERWAY
— — — — -3600- — — — —	MAJOR CONTOUR
— — — — -3599- — — — —	MINOR CONTOUR
—C————C————	COMMUNICATIONS LINE
—E————E————	ELECTRIC LINE
—F————F————	FIBER OPTIC LINE
—P————P————	PROPANE LINE
—S————S————	SEWER LINE
—FM————FM————	SEWER FORCEMAIN LINE
—>————>————	STORM SEWER LINE
—T————T————	TELEPHONE LINE
—W————W————	WATER LINE
—X————X————	FENCE
—[ ]————[ ]————	GUARDRAIL

BUILDING SYMBOLS

	BUILDING & ROOF OVERHANG
	WINDOW WELL

SITE FEATURES & FURNITURE SYMBOLS

	FEE BOX
	FLAGPOLE
	FIRE PIT
	PICNIC TABLE
	TRASH OR RECYCLING
	POST OR BOLLARD (ROUND OR SQUARE)
	ROAD SIGN
	INTERPRETIVE SIGN
	ROAD GATE & GUY WIRE
	BOULDER

SITE UTILITY SYMBOLS

EB	ELECTRIC BREAKER OR SERVICE DISCONNECT BOX
E	ELECTRIC METER
E	ELECTRIC PEDESTAL
	HANDHOLE (COMPOSITE MATERIAL)
	SATELLITE DISH
M	MONITORING WELL
P	PROPANE MANHOLE
P	PROPANE METER
	PROPANE VALVE
	PROPANE TANK (UNDERGROUND)
ST	SEPTIC TANK COVER AND APPROXIMATE TANK LIMITS
S	SEWER MANHOLE
LS	SEWER LIFT STATION
	SEWER CLEANOUT
T	TELEPHONE PEDESTAL
	WATER CURB STOP
	FIRE HYDRANT
W	WATER VAULT STRUCTURE
	WATER PUMP OUT
	WATER VALVE
	WATER SPIGOT

SURVEY CONTROL SYMBOLS

	CONTROL POINT

SITE VEGETATION SYMBOLS

	SHRUB OR BUSH
	TREE STUMP
	DECIDUOUS TREE
	PINE TREE

SITE GROUND COVER HATCHES

	ASPHALT AREA
	CONCRETE AREA
	GRAVEL AREA
	LANDSCAPING STONE AREA
	VEGETATION AREA
	MANICURED GRASS AREA
	WATER AREA

ABBREVIATIONS

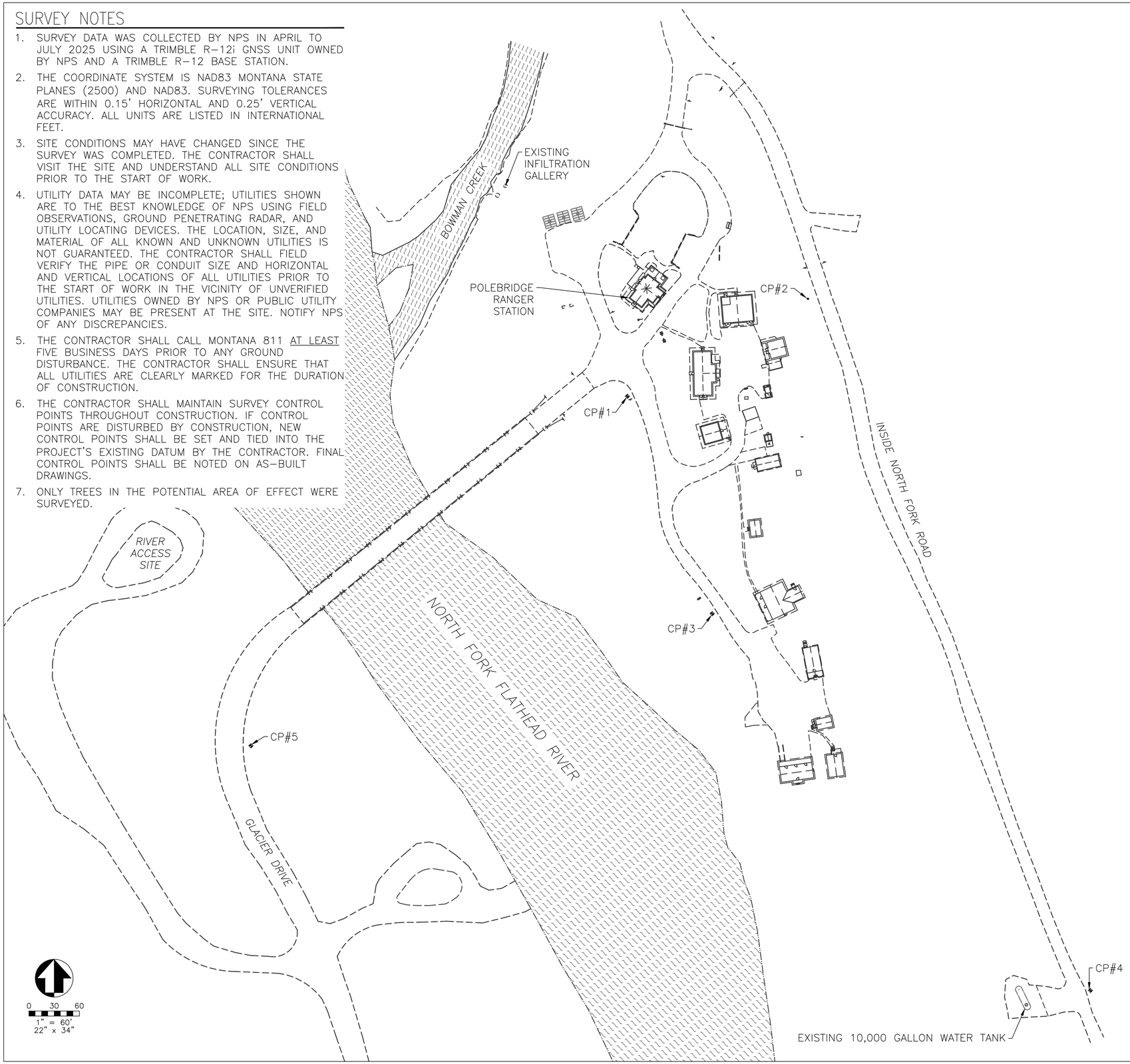
GAL.	GALLON
G.S.	GALVANIZED STEEL
C.I.	CAST IRON
INV.	PIPE INVERT
PVC	POLYVINYL CHLORIDE

NATIONAL PARK SERVICE Department of the Interior	PLAN SET TITLE POLEBRIDGE R.S. SURVEY LOCATION WITHIN PARK POLEBRIDGE RANGER STATION AREA NAME OF PARK GLACIER NATIONAL PARK REGION IMR / COUNTY FLATHEAD / STATE MT	DRAWING NO. 117 198064 SHEET TITLE SURVEY LEGEND	PMIS # 329234 ISSUED ON 10/20/25 ISSUED FOR RFP SHEET 1 OF 5

DRAFTED BY: K. GRANITE

SURVEY NOTES

1. SURVEY DATA WAS COLLECTED BY NPS IN APRIL TO JULY 2025 USING A TRIMBLE R-12i GNSS UNIT OWNED BY NPS AND A TRIMBLE R-12 BASE STATION.
2. THE COORDINATE SYSTEM IS NAD83 MONTANA STATE PLANES (2500) AND NAD83. SURVEYING TOLERANCES ARE WITHIN 0.15' HORIZONTAL AND 0.25' VERTICAL ACCURACY. ALL UNITS ARE LISTED IN INTERNATIONAL FEET.
3. SITE CONDITIONS MAY HAVE CHANGED SINCE THE SURVEY WAS COMPLETED. THE CONTRACTOR SHALL VISIT THE SITE AND UNDERSTAND ALL SITE CONDITIONS PRIOR TO THE START OF WORK.
4. UTILITY DATA MAY BE INCOMPLETE; UTILITIES SHOWN ARE TO THE BEST KNOWLEDGE OF NPS USING FIELD OBSERVATIONS, GROUND PENETRATING RADAR, AND UTILITY LOCATING DEVICES. THE LOCATION, SIZE, AND MATERIAL OF ALL KNOWN AND UNKNOWN UTILITIES IS NOT GUARANTEED. THE CONTRACTOR SHALL FIELD VERIFY THE PIPE OR CONDUIT SIZE AND HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES PRIOR TO THE START OF WORK IN THE VICINITY OF UNVERIFIED UTILITIES. UTILITIES OWNED BY NPS OR PUBLIC UTILITY COMPANIES MAY BE PRESENT AT THE SITE. NOTIFY NPS OF ANY DISCREPANCIES.
5. THE CONTRACTOR SHALL CALL MONTANA 811 AT LEAST FIVE BUSINESS DAYS PRIOR TO ANY GROUND DISTURBANCE. THE CONTRACTOR SHALL ENSURE THAT ALL UTILITIES ARE CLEARLY MARKED FOR THE DURATION OF CONSTRUCTION.
6. THE CONTRACTOR SHALL MAINTAIN SURVEY CONTROL POINTS THROUGHOUT CONSTRUCTION. IF CONTROL POINTS ARE DISTURBED BY CONSTRUCTION, NEW CONTROL POINTS SHALL BE SET AND TIED INTO THE PROJECT'S EXISTING DATUM BY THE CONTRACTOR. FINAL CONTROL POINTS SHALL BE NOTED ON AS-BUILT DRAWINGS.
7. ONLY TREES IN THE POTENTIAL AREA OF EFFECT WERE SURVEYED.



SURVEY CONTROL POINTS

CONTROL POINT 1 (CP#1)
(N, E, Z) = (1687908.768, 816726.576, 3561.14)
REBAR WITH ORANGE CAP SET IN GRASSY AREA OFF THE SOUTHWEST CORNER OF THE INTERSECTION OF THE RANGER STATION LOOP ROAD AND THE HOUSING AREA ROAD, APPROXIMATELY 5.4' FROM THE "AUTHORIZED VEHICLES ONLY" SIGN.

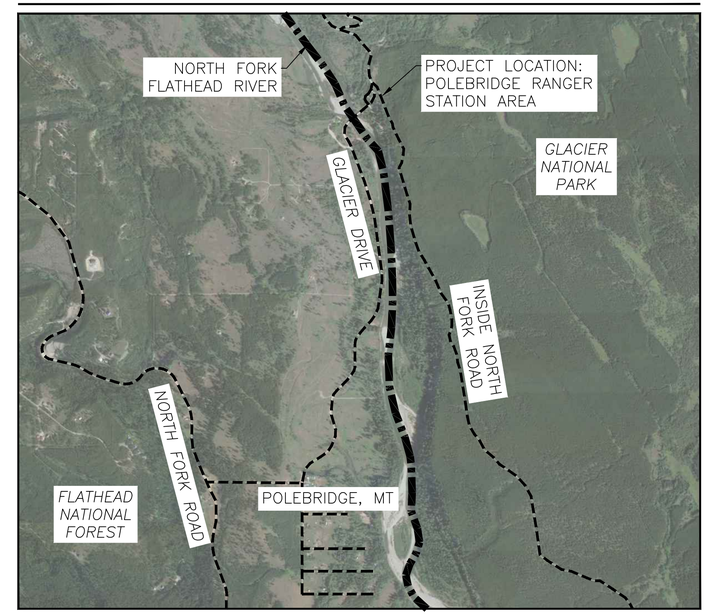
CONTROL POINT 2 (CP#2)
(N, E, Z) = (1688024.765, 816941.301, 3595.52)
REBAR SET IN VEGETATED AREA, APPROXIMATELY 11.2' FROM THE WEST EDGE OF THE INSIDE NORTH FORK ROAD AND 11.3' SOUTH OF A 14"ø LARCH TREE.

CONTROL POINT 3 (CP#3)
(N, E, Z) = (1687560.127, 816827.540, 3558.58)
REBAR SET IN VEGETATED AREA, APPROXIMATELY 15.5' SOUTHEAST OF THE EXISTING FIRE HYDRANT AND 11.7' NORTHEAST OF AN EXISTING 4"ø DECIDUOUS TREE.

CONTROL POINT 4 (CP#4)
(N, E, Z) = (1687201.786, 817277.527, 3639.61)
REBAR SET IN VEGETATED AREA, APPROXIMATELY 5.4' FROM THE EAST EDGE OF THE INSIDE NORTH FORK ROAD ACROSS FROM THE EXISTING WATER TANK LOCATION AND JUST NORTH OF A BIG BOULDER.

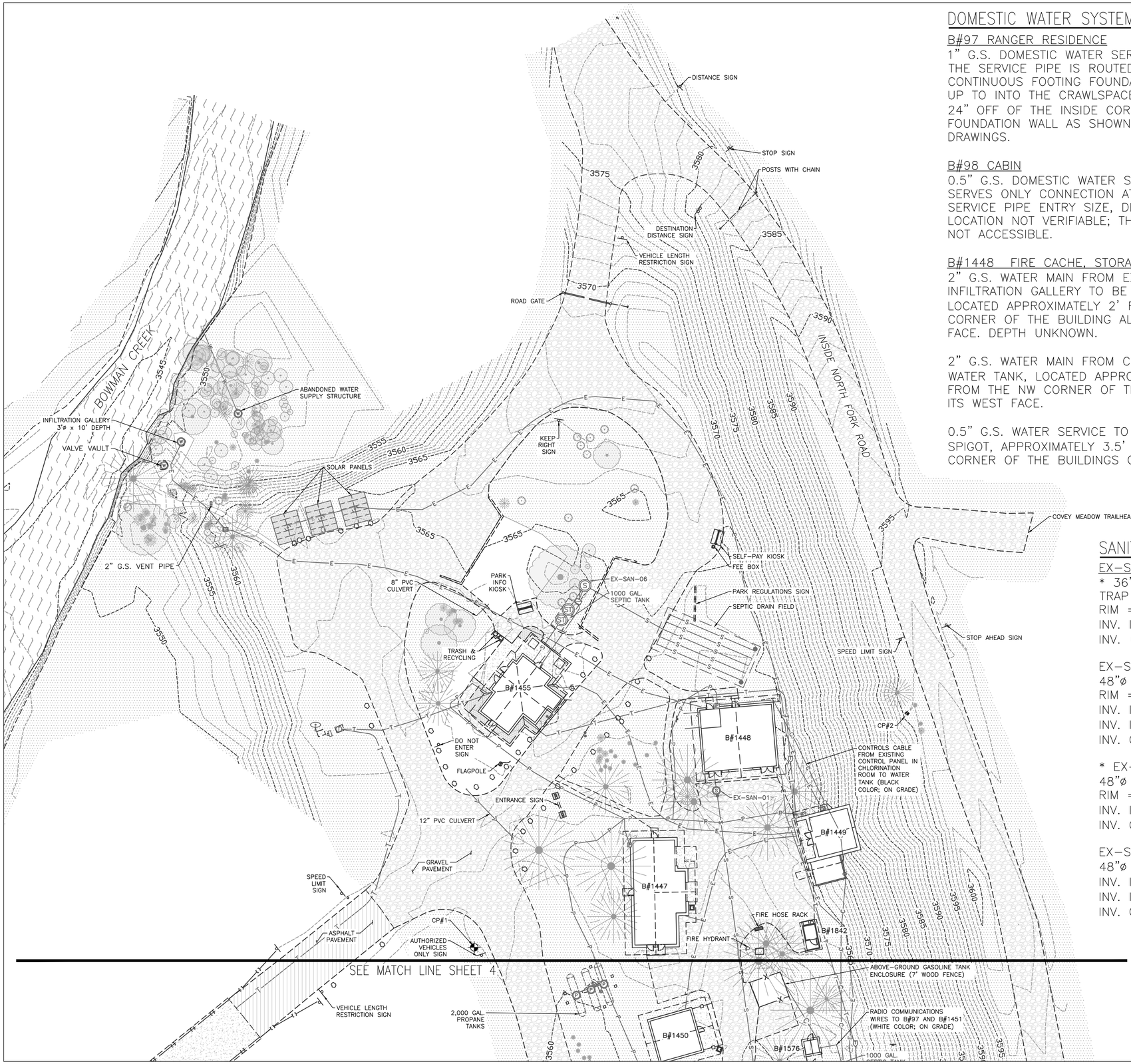
CONTROL POINT 5 (CP#5)
(N, E, Z) = (1687492.878, 816287.559, 3560.60)
REBAR WITH ALUMINUM CAP SET BY THE FEDERAL HIGHWAY ADMINISTRATION, APPROXIMATELY 9.5' FROM THE EDGE OF THE ROADWAY AND 180' ALONG THE CENTERLINE FROM THE END OF THE BRIDGE.

VICINITY MAP



PLAN SET TITLE POLEBRIDGE R.S. SURVEY LOCATION WITHIN PARK POLEBRIDGE RANGER STATION AREA NAME OF PARK GLACIER NATIONAL PARK REGION IMR / COUNTY FLATHEAD / STATE MT	DRAWING NO. 117 198064 SHEET TITLE SURVEY OVERVIEW	PMIS # 329234 ISSUED ON 10/20/25 ISSUED FOR RFP SHEET 2 OF 5

SURVEYED BY: K. GRANITE, R. HERKEN, K. WASSENAAR | DRAFTED BY: K. GRANITE



DOMESTIC WATER SYSTEM SERVICE CONNECTIONS

B#97 RANGER RESIDENCE
1" G.S. DOMESTIC WATER SERVICE PIPE. THE SERVICE PIPE IS ROUTED UNDER THE CONTINUOUS FOOTING FOUNDATION AND STUBS UP TO INTO THE CRAWLSPACE APPROXIMATELY 24" OFF OF THE INSIDE CORNER OF THE FOUNDATION WALL AS SHOWN ON THE DRAWINGS.

B#98 CABIN
0.5" G.S. DOMESTIC WATER SERVICE PIPE SERVES ONLY CONNECTION AT KITCHEN SINK. SERVICE PIPE ENTRY SIZE, DEPTH, AND LOCATION NOT VERIFIABLE; THE CRAWLSPACE IS NOT ACCESSIBLE.

B#1448 FIRE CACHE, STORAGE, CHLORINATOR
2" G.S. WATER MAIN FROM EXISTING INFILTRATION GALLERY TO BE CHLORINATED, LOCATED APPROXIMATELY 2' FROM THE NW CORNER OF THE BUILDING ALONG ON ITS WEST FACE. DEPTH UNKNOWN.

2" G.S. WATER MAIN FROM CHLORINATION TO WATER TANK, LOCATED APPROXIMATELY 9.5' FROM THE NW CORNER OF THE BUILDING ON ITS WEST FACE.

0.5" G.S. WATER SERVICE TO AN EXTERIOR SPIGOT, APPROXIMATELY 3.5' FROM THE NW CORNER OF THE BUILDINGS ON ITS WEST FACE.

B#1451 STRISSEL CABIN
1" HDPE WATER SERVICE PIPE PENETRATES THE CONTINUOUS FOOTING FOUNDATION, LOCATED APPROXIMATELY 8' FROM THE SW CORNER OF THE BUILDING ALONG ITS WEST FACE, AT A DEPTH APPROXIMATELY 4' BELOW GRADE.

B#1454 LAUNDRY AND SHOWER
1" HDPE WATER SERVICE PIPE ENTER INTO THE CRAWLSPACE APPROXIMATELY 9.5' FROM THE NW CORNER OF THE BUILDING ALONG ITS NORTH FACE, AT A DEPTH JUST BELOW GRADE AND VISIBLE FROM AN EXTERIOR HATCH.

B#1455 POLEBRIDGE RANGER STATION
UNDERGROUND WATER SERVICE UNVERIFIABLE BUT BELIEVED TO BE 1.5" HDPE; A 1.5" COPPER PIPE IS STUBBED UP THROUGH THE FLOOR AT THE ENTRANCE STATION WINDOW.

B#1594 DORM
1" HDPE WATER SERVICE PENETRATES THE CONTINUOUS CONCRETE FOUNDATION, LOCATED APPROXIMATELY 3' FROM THE NE CORNER OF THE BUILDING ALONG ITS NORTH FACE, AT A DEPTH APPROXIMATELY 3.5' BELOW GRADE.

B#1865 SCHOOL TO PARK CABIN
1" HDPE WATER SERVICE ROUTED ENTERS CRAWLSPACE AT APPROXIMATELY 4' FROM THE NE CORNER OF THE BUILDING ALONG ITS EAST FACE, AT A DEPTH APPROXIMATELY 2' BELOW GRADE.

SANITARY SEWER SYSTEM

EX-SAN-01
* 36"ø CONCRETE SAND & OIL TRAP
RIM = 3564.24
INV. IN = 3560.14 (6" PVC) N
INV. OUT = 3559.14 (6" PVC) S

EX-SAN-02
48"ø CONCRETE MANHOLE
RIM = 3559.30
INV. IN = 3556.30 (4" PVC) W
INV. IN = 3553.23 (6" PVC) N
INV. OUT = 3553.15 (8" PVC) SE

* EX-SAN-03
48"ø CONCRETE MANHOLE
RIM = 3559.21
INV. IN = 3553.23 (8" PVC) NW
INV. OUT = 3553.15 (8" PVC) S

EX-SAN-04
48"ø CONCRETE MANHOLE
INV. IN = 3554.21 (4" PVC) W
INV. IN = 3550.61 (8" PVC) N
INV. OUT = 3550.49 (8" PVC) S

* EX-SAN-05
60"ø SEWER LIFT STATION
RIM = 3558.89
INV. IN = 3548.99 (8" PVC) N
INV. IN = 3552.69 (6" PVC) S
INV. OUT = 3553.39 (2" G.S.) N

* EX-SAN-06
60"ø SEWER LIFT STATION
RIM = 3565.25
INV. IN = 3560.21 (6" PVC) SW
INV. OUT = 3559.75 (2" G.S.) SE

* STRUCTURE UNABLE TO BE OPENED. INVERTS ASSUMED FROM 1989 AS-BUILT DRAWINGS. CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF PIPES.

BUILDING SEWER SERVICE PIPES AND SEPTIC TANKS WERE NOT FIELD VERIFIED.

0 12.5 25
1" = 25'
22" x 34"

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SURVEYED BY: K. GRANITE, R. HERKEN, K. WASSENAAR | DRAFTED BY: K. GRANITE

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0 12.5 25
1" = 25'
22" x 34"

NATIONAL PARK SERVICE	PLAN SET TITLE POLEBRIDGE R.S. SURVEY LOCATION WITHIN PARK POLEBRIDGE RANGER STATION AREA NAME OF PARK GLACIER NATIONAL PARK REGION: IMR / COUNTY: FLATHEAD / STATE: MT	DRAWING NO. 117 198064 SHEET TITLE SURVEY	PMIS # 329234 ISSUED ON 10/20/25 ISSUED FOR RFP SHEET 5 OF 5

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