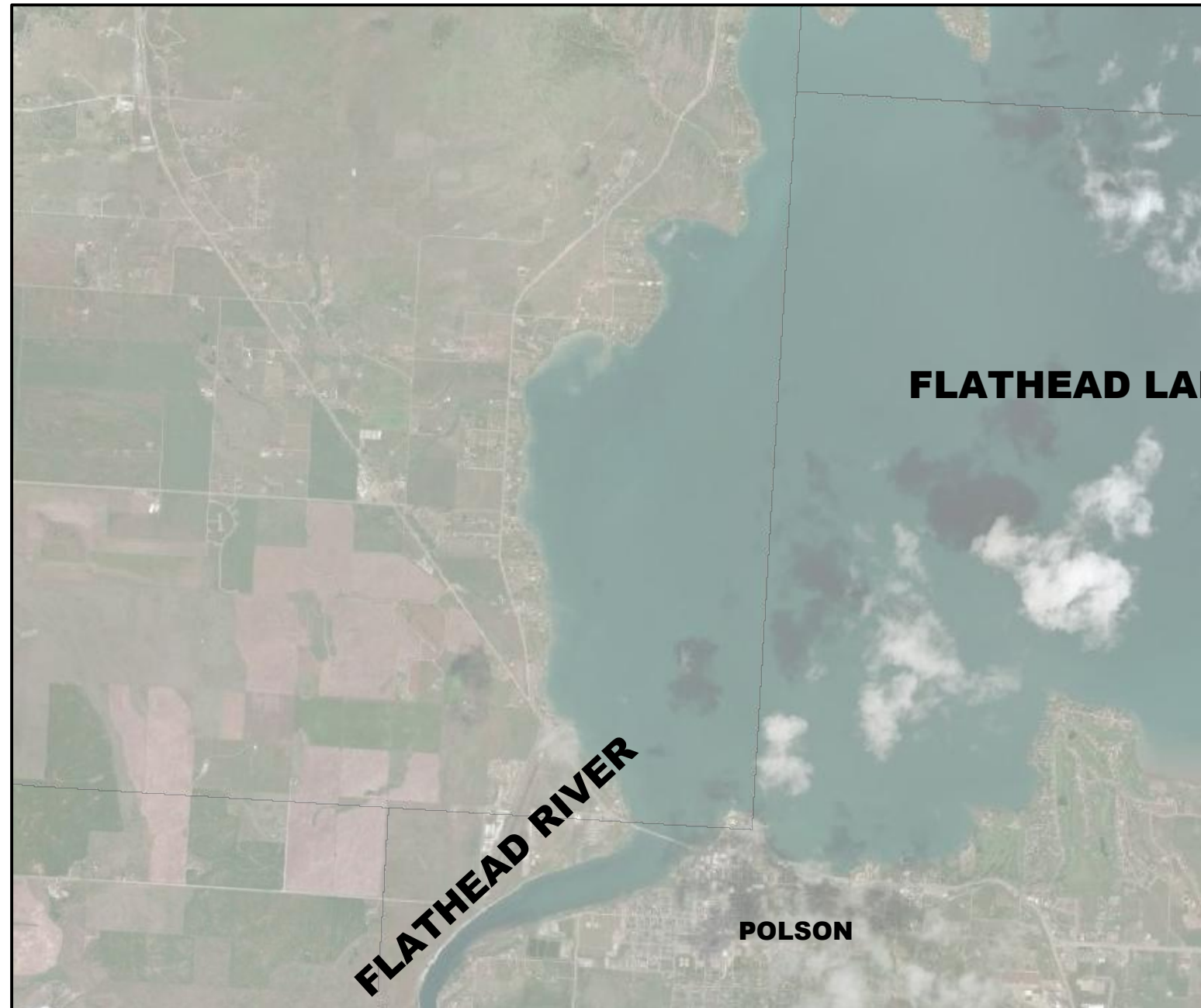
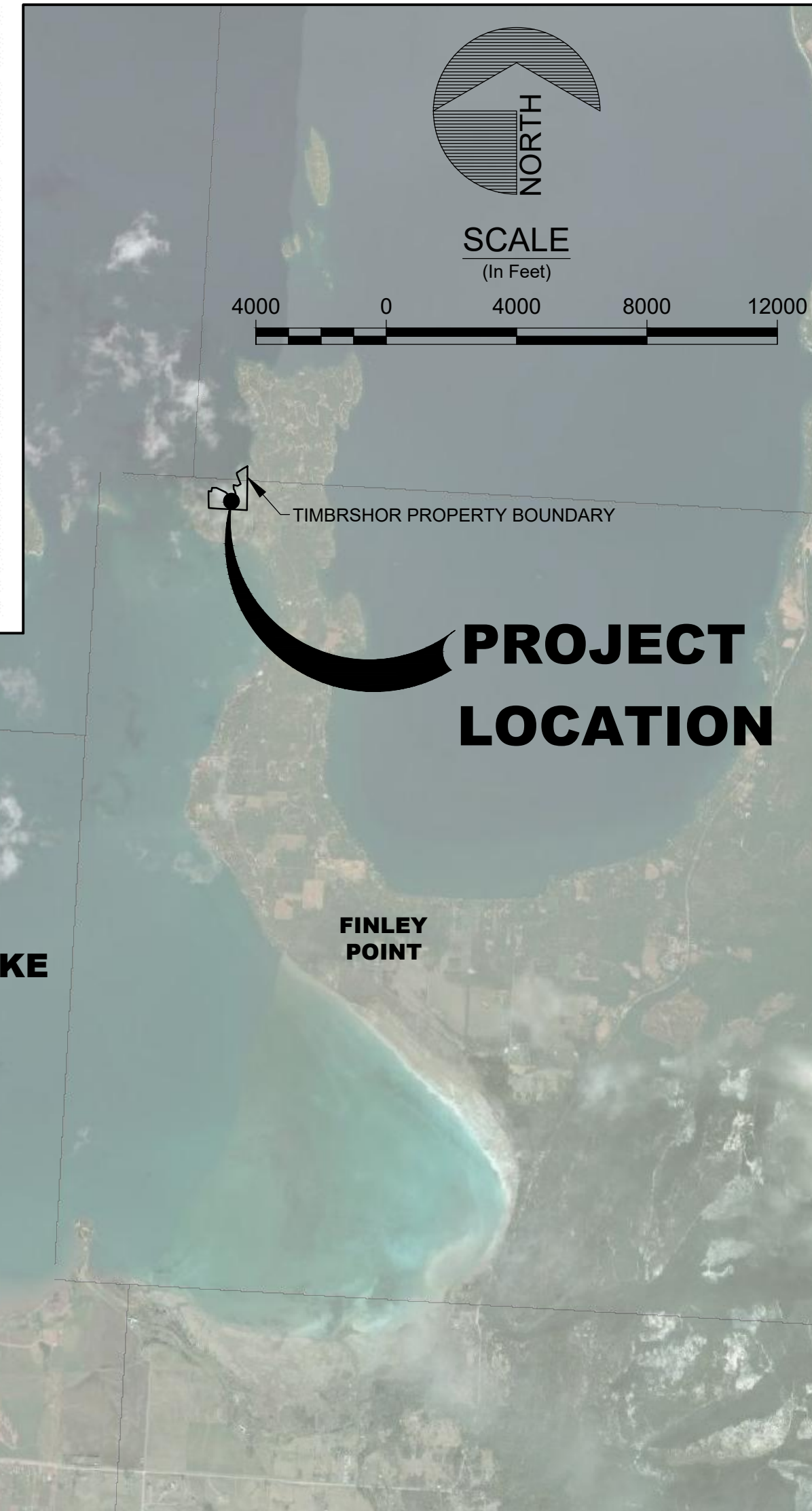
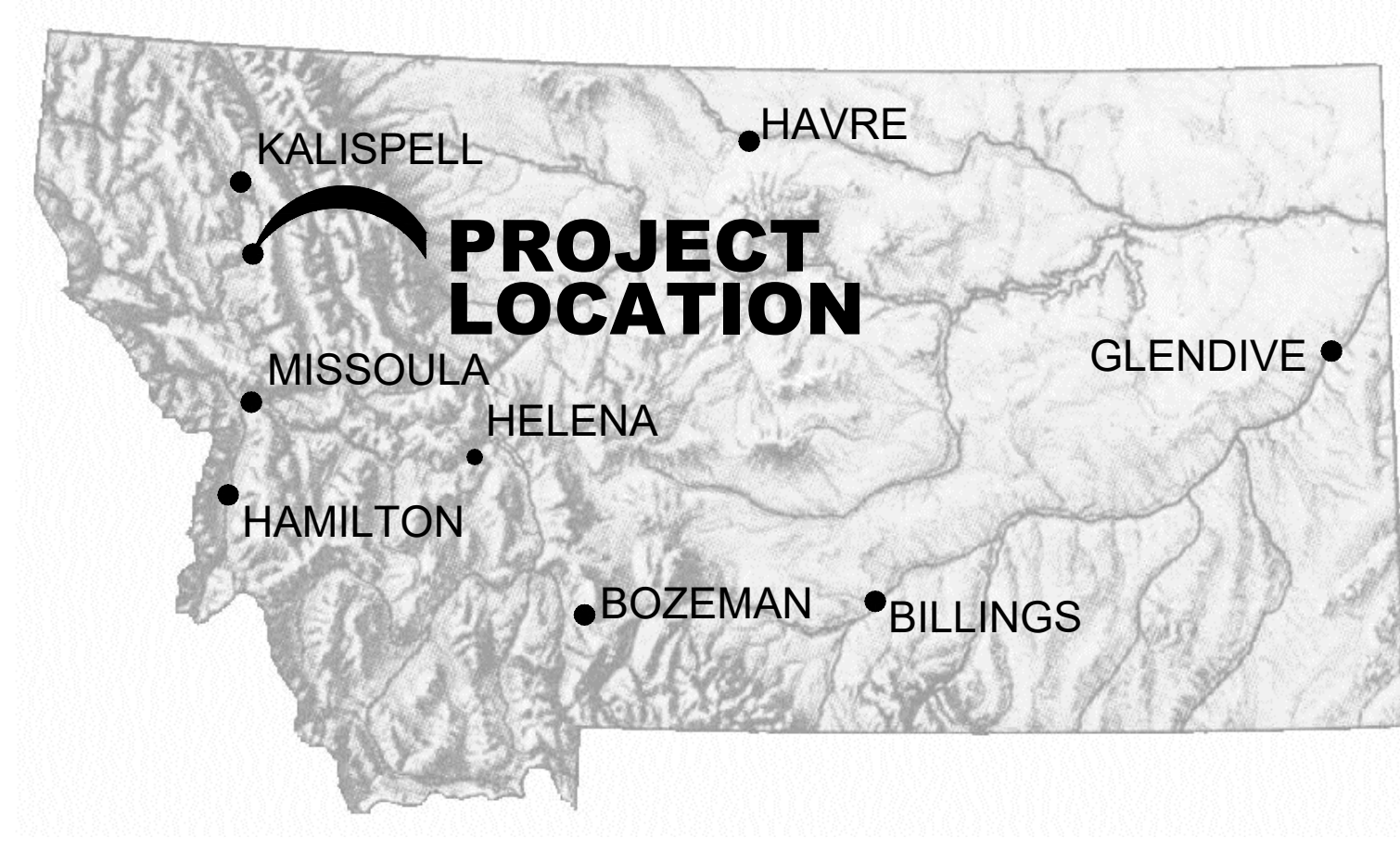


TIMBRSHOR HOMEOWNERS ASSOCIATION MCCARTHY WELL WATER SYSTEM POLSON, LAKE COUNTY, MONTANA



AERIAL IMAGE FROM MICROSOFT BING, 2021.

SHEET NO.	SHEET TITLE
1	TITLE, LOCATION, AND INDEX
2	MCCARTHY WELL SYSTEM PLAN & PUMPHOUSE
3	DETAILS

SHEET NOTES:

- FOR DRAWINGS ADDRESSING WELL NO. 4 PWS AND WELL NO. 5/9 PWS, SEE SEPARATE DRAWING PACKAGES.

GENERAL NOTES

- PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING WILL BE HELD AT THE PROPOSED WELL LOCATION AND WILL BE ATTENDED BY THE CONTRACTOR AND REPRESENTATIVES OF THE OWNER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE ENGINEER AND OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR:
 - OBTAINING AND ADHERING TO, AT HIS OWN EXPENSE, ALL PERMITS OR LICENSES WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK, EXCEPT THOSE SPECIFICALLY LISTED AS PROVIDED BY THE OWNER OR ENGINEER.
 - PROPER NOTIFICATION OF ALL NECESSARY AGENCIES PRIOR TO CONSTRUCTION.
 - PROJECT SAFETY.
 - JOB SITE CONDITIONS AT ALL TIMES.
- THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ALL WORK SHALL BE INSPECTED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE OWNER. THE OWNER RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
- OBSERVATIONS OF WORK IN PROGRESS AND ON-SITE VISITS ARE NOT TO BE CONSTRUED AS A GUARANTEE OF ACCEPTANCE OR APPROVAL OF THE CONTRACTOR'S WORK BY THE OWNER OR OWNER'S REPRESENTATIVE.
- ALL MATERIALS, CONSTRUCTION, AND TESTS SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, INCLUDING THE DRAWINGS AND SPECIFICATIONS. DRAWINGS AND SPECIFICATIONS SHALL NOT BE CHANGED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNER AND THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTROL OF POLLUTION, SURFACE WATER, EROSION AND SEDIMENT THROUGHOUT THE DURATION OF THE CONTRACT.
- THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES AND OWNER'S REPRESENTATIVE PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION (INCLUDING DEPTHS) OF ANY EXISTING UTILITIES. ALL EXISTING UTILITIES SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE.
- THE DESIGN ENGINEER IS TO BE NOTIFIED OF ANY DISCREPANCY OR CONFLICT PRIOR TO CONTINUING CONSTRUCTION.
- ALL ITEMS SHOWN ON THE PLANS AS EXISTING ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE ACTUAL LOCATION MAY VARY FROM THE PLANS, ESPECIALLY IN THE CASE OF UTILITIES. WHENEVER CONTRACTOR DISCOVERS A DISCREPANCY IN LOCATIONS, HE SHALL CONTACT ENGINEER IMMEDIATELY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF SURFACE WATER, STORMWATER, AND GROUND WATER THROUGHOUT THE LENGTH OF THIS CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT AND OBTAINING A CONSTRUCTION DEWATERING PERMIT. GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STRUCTURES OR ROADWAYS NOR EROSION OUTSIDE OF THE SITE CONSTRUCTION BOUNDARY IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN ON THESE PLANS. ANY UNSTABLE AREAS, AS A RESULT OF GROUNDWATER, ENCOUNTERED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE STABILIZED AS AGREED UPON BY THE CONTRACTOR, AND THE DESIGN ENGINEER AT THE TIME OF THEIR OCCURRENCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL SURFACES AND RELATED STRUCTURES, TO ORIGINAL CONDITIONS (OR BETTER) AND GRADES UNLESS DESIGNATED OTHERWISE ON THE DRAWINGS.
- ALL ELEVATIONS SHOWN ARE TO TOP OF GROUND EXCEPT WHEN OTHERWISE SPECIFICALLY NOTED.
- THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS AND SPECIFICATIONS.
- A SET OF AS-BUILT DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER AND THE ENGINEER WILL SUPPLY A REPRODUCIBLE SET OF THE RECORD DRAWINGS TO THE OWNER PRIOR TO ACCEPTANCE BY THE OWNER. ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE STATIONED AND SHOWN ACCURATELY ON THE PLANS BY THE CONTRACTOR. ALL COORDINATES MUST BE SHOWN ON THE AS-BUILT PLANS SUBMITTED TO THE OWNER PRIOR TO PROJECT APPROVAL.
- ALL EQUIPMENT, VALVES, PIPING, COATINGS AND APPURTENANCES SHALL BE IN COMPLIANCE WITH NSF 61.
- ALL EQUIPMENT SHALL BE CLEANED OF ALL EARTHEN AND ORGANIC MATERIALS PRIOR TO ENTERING THE SITE TO PREVENT WEED SPREAD AND AQUATIC INVASIVE SPECIES (AIS) SPREAD. VEHICLES AND EQUIPMENT MUST BE INSPECTED BY ENGINEER PRIOR TO ENTRY. SEE SPECIFICATIONS FOR REQUIREMENTS.
- CONTRACTOR WILL BE RESPONSIBLE FOR COMPLYING WITH THE TERMS OF ALL PERMITS DURING THE CONSTRUCTION PERIOD INCLUDING ANY MATERIALS AND LABOR TO INSTALL AND MAINTAIN ANY NECESSARY BMP'S DURING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY ONE CALL @ 1-800-424-5555 FOR ONSITE UTILITY LOCATION. ALL EXISTING UTILITIES SHALL BE MARKED BEFORE DIGGING.
- THE LOCATION 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 UTILITIES DUE TO FAILURE TO LOCATE OR PROVIDE PROPER PROTECTION WHEN LOCATION HAS BEEN IDENTIFIED.
- THE CONTRACTOR SHALL MAINTAIN SERVICE OF ALL EXISTING UTILITIES. IF SAID SERVICE IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY REPAIR THE DAMAGE AT THE CONTRACTORS EXPENSE.
- ALL DISTURBED AREAS SHALL BE SEEDED BY THE CONTRACTOR IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- REFERENCE ALL SURVEY MONUMENTS, SECTION CORNERS, 1/4 CORNERS AND PROPERTY CORNERS PRIOR TO BEING DISTURBED BY CONSTRUCTION. PLS MUST REPLACE ANY MONUMENTS AND CORNERS THAT ARE DISTURBED DURING CONSTRUCTION.
- CLOSE ACCESS GATES DURING NON-WORKING HOURS.
- VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). TOPOGRAPHIC SURVEY PERFORMED BY COX IN 2008.
- HORIZONTAL COORDINATE SYSTEM IS A LOCAL COORDINATE SYSTEM USED BY COX DURING 2008 SURVEY.

LEGEND	
EXIST.	NEW
(X)	(X)
	DETAIL NUMBER/SECTION LETTER
	PAGE ON WHICH DETAIL/SECTION IS SHOWN
---	---
	SERVICE AREA BOUNDARY
---	---
	PROPERTY BOUNDARY
---	---
	MATCH LINE
---	---
	MAJOR CONTOURS
---	---
	MINOR CONTOURS
---	---
	UNIT
---	---
	WATER MAIN
---	---
	WATER SERVICE
---	---
	STORM SEWER
---	---
	FIBER
---	---
	GAS
---	---
	GAS
---	---
	FS
---	---
	SANITARY SEWER (NOT PART OF PROJECT)
---	---
	UNDERGROUND POWER
---	---
	OVERHEAD POWER
---	---
	EXISTING LEACH FIELD
---	---
	FENCE
(D)	(D)
	STORM WATER MANHOLE
(S)	(S)
	BUILDING
(PP)	(PP)
	SEWER MANHOLE
(E)	(E)
	ELECTRICAL BOX
(W)	(W)
	WATER INTAKE
(T)	(T)
	SEPTIC TANK (NOT PART OF PROJECT)
(D)	(D)
	EXISTING DECK
(R)	(R)
	ROAD
(C)	(C)
	CONCRETE
(G)	(G)
	GROUND
(EPP)	(EPP)
	EXISTING POWER POLE
(W)	(W)
	EXISTING PROPANE TANK
(W)	(W)
	WELL

CONTACTS

OWNER:
TIMBRSHOR HOMEOWNERS ASSOCIATION
TIMBRSHOR LAKE COUNTY WATER AND SEWER DISTRICT ENTITY 102414
30371 OSPREY LANE
POLSON, MONTANA 59860

CONTACT:
BLAKE JOHNSON, CHAIRMAN

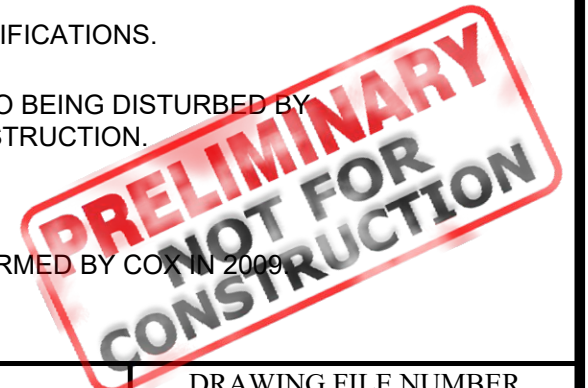
CIVIL ENGINEER:
HYDROMETRICS, INC.
3020 BOZEMAN AVE
HELENA, MT 59601

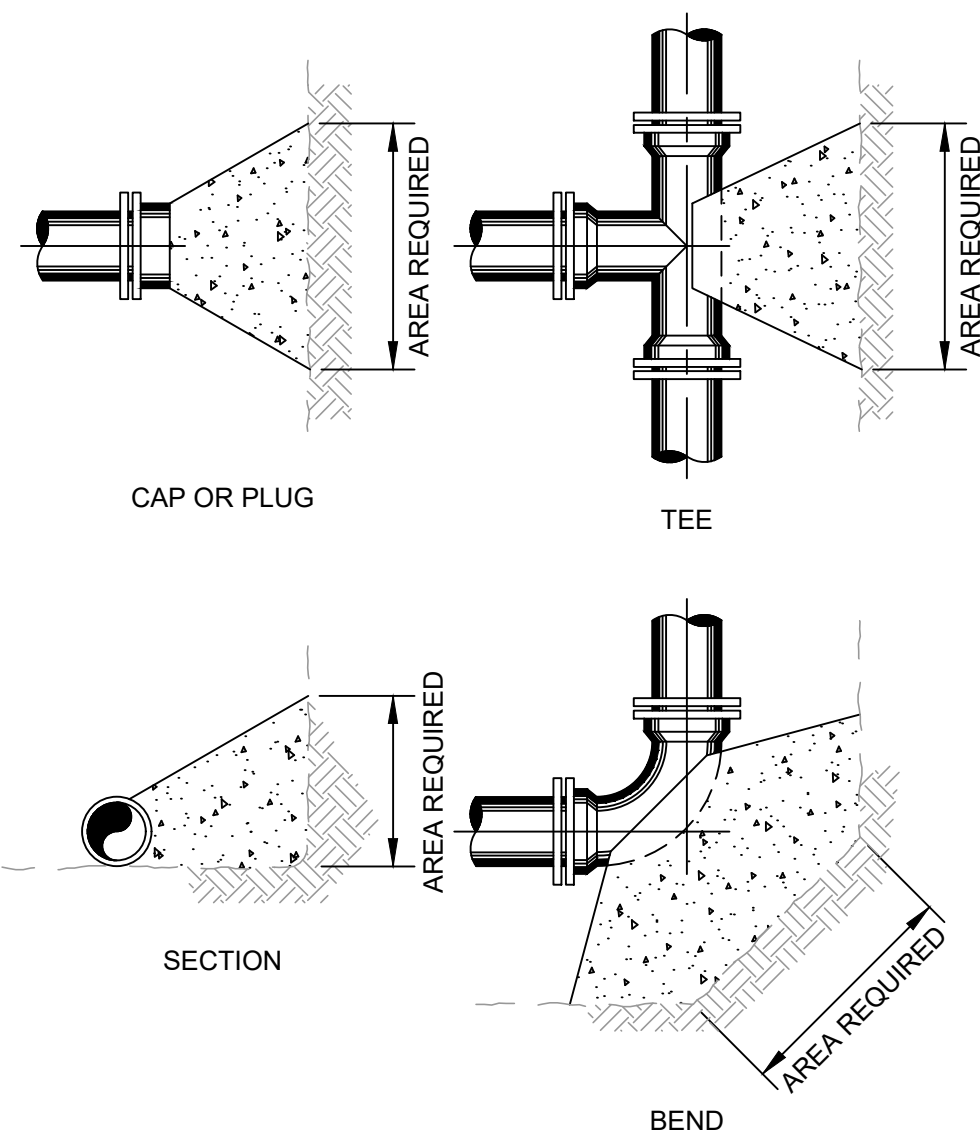
CONTACT:
GREG LORENSON, P.E.
OR
KARL KINGERY, P.E.
406-443-4150 (OFFICE)

ABBREVIATIONS

APPROX.	APPROXIMATE	PVC	POLYVINYL CHLORIDE
CF	CUBIC FEET	R, RAD.	RADIUS
CY	CUBIC YARDS	SCH, SCHED.	SCHEDULE
DIA	DIAMETER	S	SANITARY SEWER
FT	FEET	TYP	TYPICAL
HP	HORSEPOWER	V	VERTICAL
I.E., INV.	INVERT ELEVATION	W, WTR.	WATER
IN	INCH	W/	WITH

REVISIONS	NO	BY	DATE	DESCRIPTION	REVISIONS	NO	BY	DATE	SCALE VERIFICATION BAR IS ONE INCH ON ORIGINAL DRAWING 0 1 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	Project No.: 21001 DRAWN BY RKK 3/3/22 CHECKED BY APPROVED BY SCALE: AS NOTED	Hydrometrics, Inc. Consulting Scientists and Engineers Helena, Montana 59601 3020 Bozeman Avenue (406) 443-4150	TIMBRSHOR PUBLIC WATER SYSTEM - MCCARTHY WELL WATER SYSTEM		DRAWING FILE NUMBER	
	TITLE, LOCATION AND INDEX					COVER MCART AUTOCAD 2020 DRAWING (DWG) SHEET NUMBER 1	REV △								

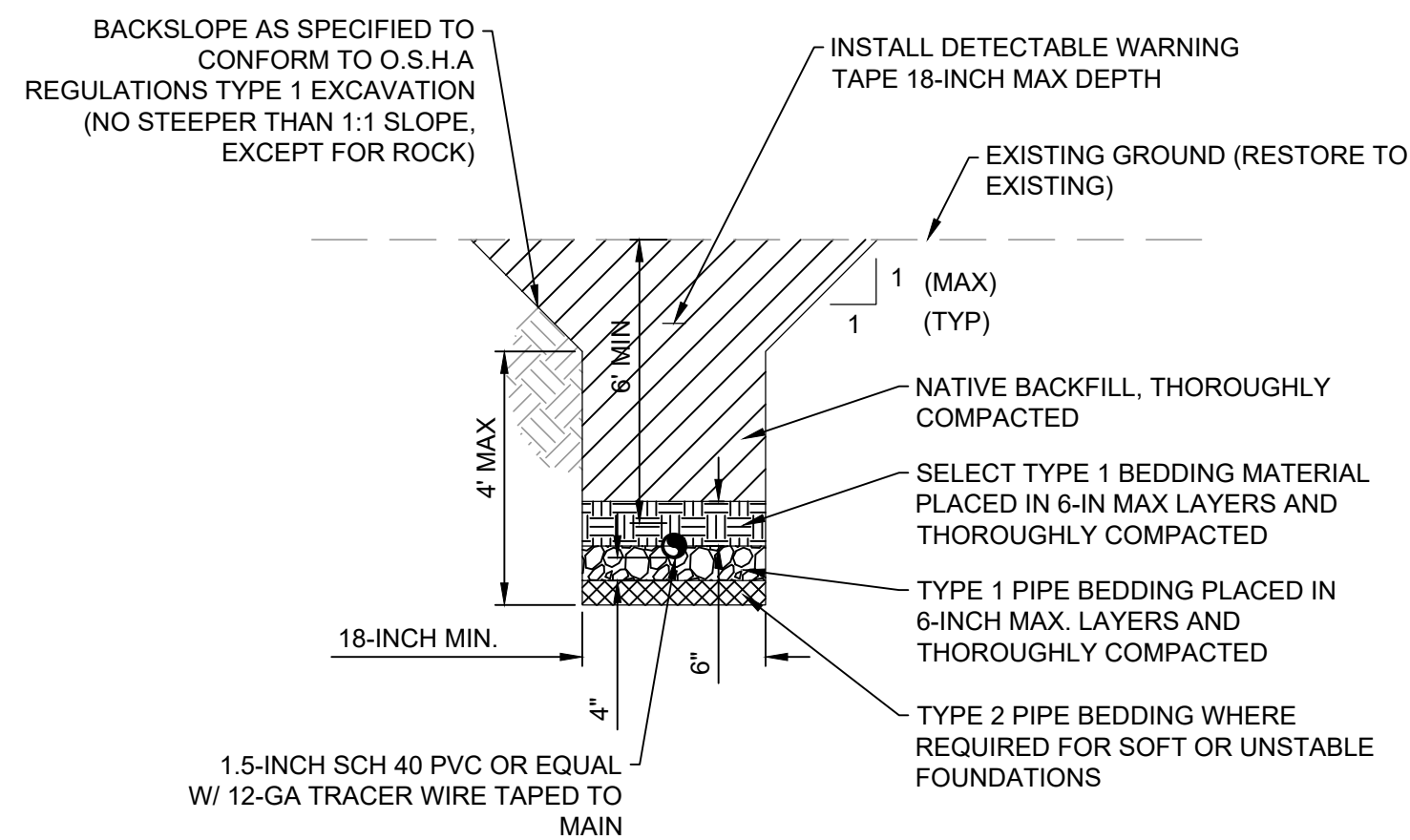




THRUST AREA REQUIRED - SQUARE FEET					
SIZE	11 1/4" BEND OR 22 1/2" BEND	45° BEND	90° BEND	TEE	CAP (OR PLUG)
2"	1.0	1.0	1.25	1.0	1.0

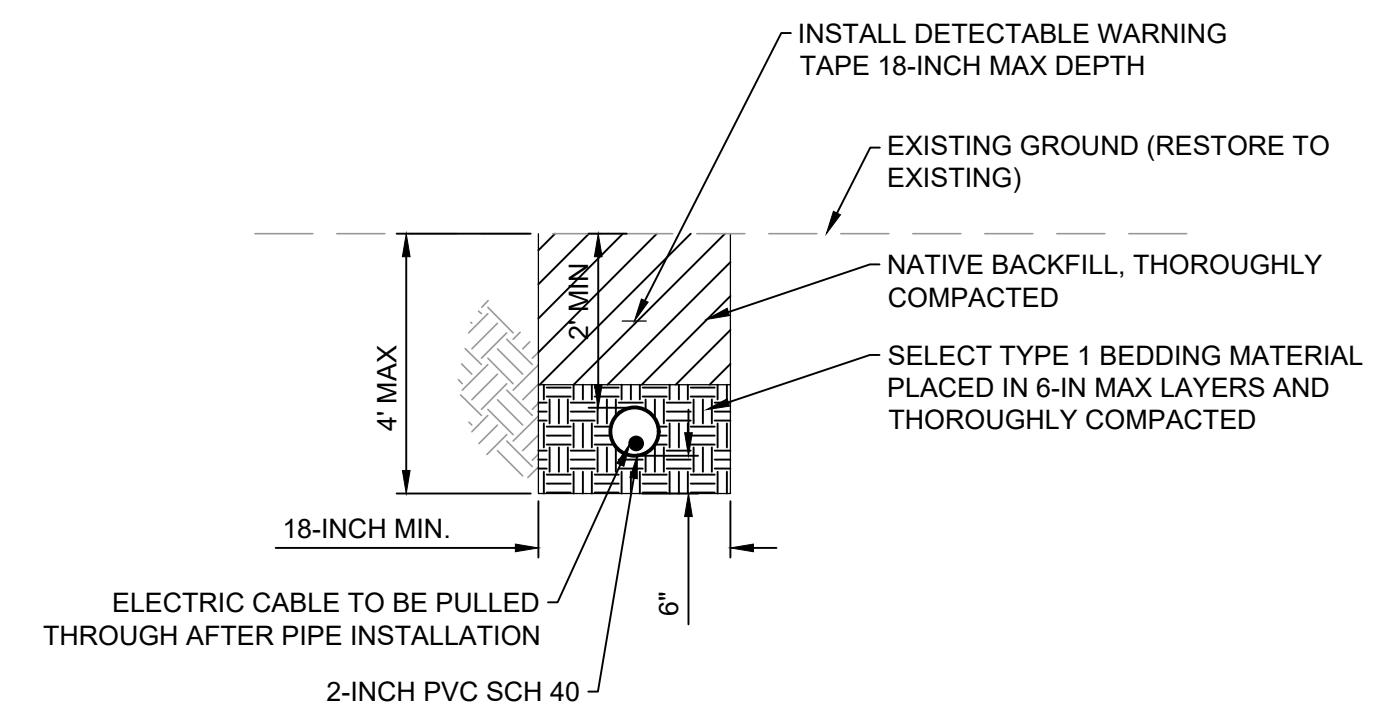
1. CONCRETE SHALL HAVE NOT LESS THAN 4,500 PSI STRENGTH AT 28 DAYS.
2. POUR CONCRETE AGAINST FIRM GROUND.
3. JOINTS AND BOLTS SHALL BE ACCESSIBLE FOR REPAIRS.
4. ALL SURFACES NOT POURED AGAINST FIRM GROUND SHALL BE FORMED OR FINISHED TO A REASONABLY SMOOTH SURFACE.
5. POUR CONCRETE IN COMPLETELY DEWATERED TRENCH.

1 DETAIL
THRUST BLOCKS
SCALE: 1" = 5'



- NOTES:
1. SURFACE CONDITIONS (PAVING/ETC) TO BE REPLACED IN KIND.
 2. TRACER WIRE SHALL RUN UP VERTICALLY THROUGH VALVE BOXES. WRAP TRACER WIRE AROUND PIPE.
 3. WARNING TAPE, 6-IN WIDE SHALL BE INSTALLED 12-18 INCHES BELOW FINISHED GRADE.
 4. BEDDING MATERIALS MAY NOT BE REQUIRED IF EXCAVATED TRENCH SPOILS CAN BE USED TO BED THE PIPE TO THE ENGINEERS SATISFACTION.
 5. HEAT TRACE WIRE NOT TO BE INCLUDED IN AREAS OF 6-FOOT BURY.

2 DETAIL
RAW WATER SUPPLY
SCALE: 1" = 5'



- NOTES:
1. SURFACE CONDITIONS (PAVING/ETC) TO BE REPLACED IN KIND.
 2. WARNING TAPE, 6-IN WIDE SHALL BE INSTALLED 12-18 INCHES BELOW FINISHED GRADE.

3 DETAIL
BURIED ELECTRIC CABLE
SCALE: 1" = 5'

**PRELIMINARY
NOT FOR
CONSTRUCTION**

NO	BY	DATE	DESCRIPTION

NO	BY	DATE	DESCRIPTION

SCALE VERIFICATION
BAR IS ONE INCH ON
ORIGINAL DRAWING
0 [] 1
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

Project No.: 21001
DRAWN BY: RKK 3/9/22
CHECKED BY:
APPROVED BY:
SCALE: AS NOTED

Hydrometrics, Inc.
Consulting Scientists and Engineers
Helena, Montana 59601
3020 Bozeman Avenue
(406) 443-4150

TIMBRSHOR PUBLIC WATER SYSTEM -
MCCARTHY WELL WATER SYSTEM
DETAILS

DRAWING FILE NUMBER	1-PWS-WELL4
AUTOCAD 2020 DRAWING (DWG)	
SHEET NUMBER	3
REV	