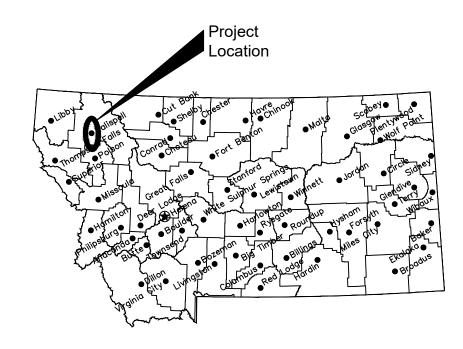
Montana Fish, Wildlife, and Parks

Somer's Beach State Park Phase 2 Host Pads Project

Near Somers, Montana

FWP # 7216806



Location Map

No Scale

MONTANA FISH, WILDLIFE AND PARKS DESIGN AND CONSTRUCTION

MAILING ADDRESS: PHYSICAL ADDRESS: PO BOX 200701 1522 9th AVENUE HELENA, MT 59620-0701 HELENA, MT 59601

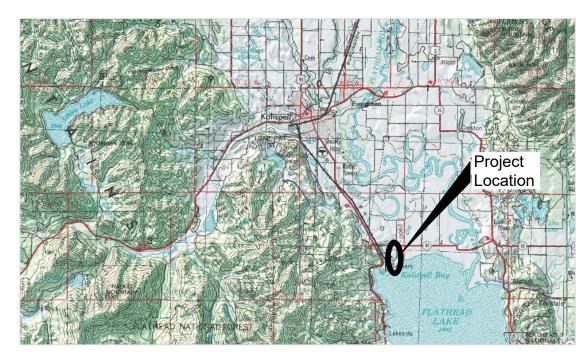
TEL 406.841.4000 FAX 406.841.4004

https://fwp.mt.gov/aboutfwp/design-and-construction

A2Z ENGINEERING, PLLC

MAILING ADDRESS: 138 EAST CENTER STREET, SUITE A

KALISPELL, MONTANA 59901
TEL 406.755.7888
FAX 406.755.7880
a2z-engineering.com

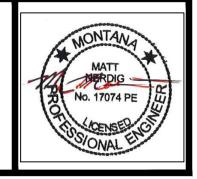


Vicinity Map

No Scale

DRAWING INDEX

Sheet 1 of 7	Cover Sheet
Sheet 2 of 7	Project Area Location / Limits
Sheet 3 of 7	Existing Conditions Siteplan
Sheet 4 of 7	Overall Site Improvements
Sheet 5 of 7	Detailed Site Improvements
Sheet 6 of 7	RV Pad and Access Detail
Sheet 7 of 7F	Host/RV Pad Details and Section



Matt Nerdig, PE	10/30/2023
DRAWN BY:	DATE:
Rob Smith, PE	10/30/2023
011501755	

23 APPROVED BY: DATE:

ATE:

MONTANA FISH, Cover Sheet
WILDLIFE & PARKS Somer's Beach State Park - Phase 2 Host Pads Project

Keyed Notes for Siteplan: A. Existing Somers Road

- B. Existing Pickleville Lane
- C. Work site access point
- D. Limits of disturbance
- E. Contractor staging and materials storage area
- F. Contractor personnel parking
- G. B.N.S.F. Property (see note)
- H. Proposed Host Pads
- I. Proposed Storage Building

Construction Limits Notes:

This exhibit shows the limits of contractor access and disturbance.

Re-vegetation Seed Mix Note:

Contractor shall utilize the native grass seed mix available at C.H.S. Kalispell and sold as "Valley Mix". Seed shall be, at a minimum, broadcast spread at 25 lbs per acre.

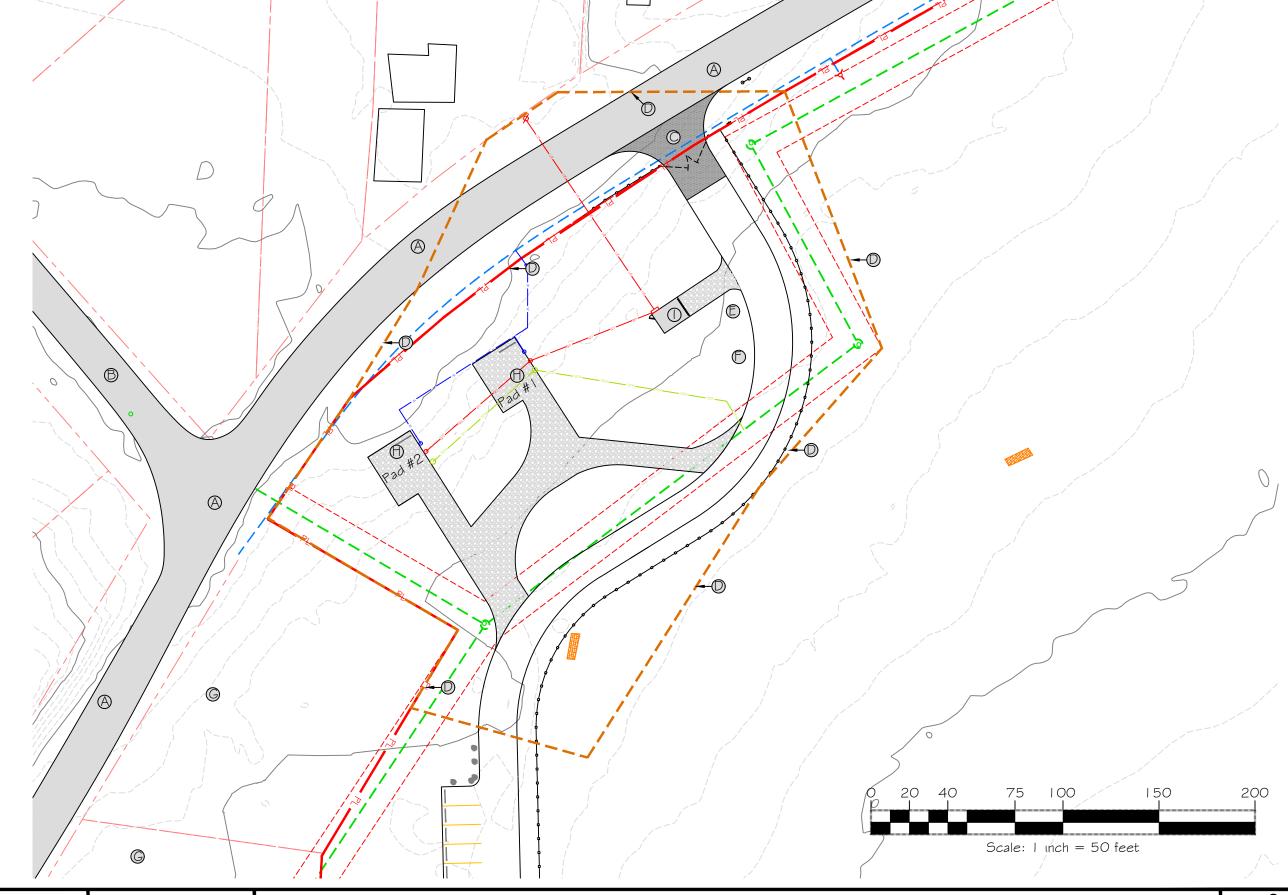
Disturbed Areas Note:

Area to be reclaimed, finish graded, raked and seeded include stormwater ditches, construction access point(s) and all other disturbed areas not intended to be graveled or asphalted.

B.N.S.F. Property Note:

Under no circumstances shall the contractor enter, cross or affect the adjacent B.N.S.F. property.





Matt Nerdig, PE	10/30/2023
DRAWN BY:	DATE:

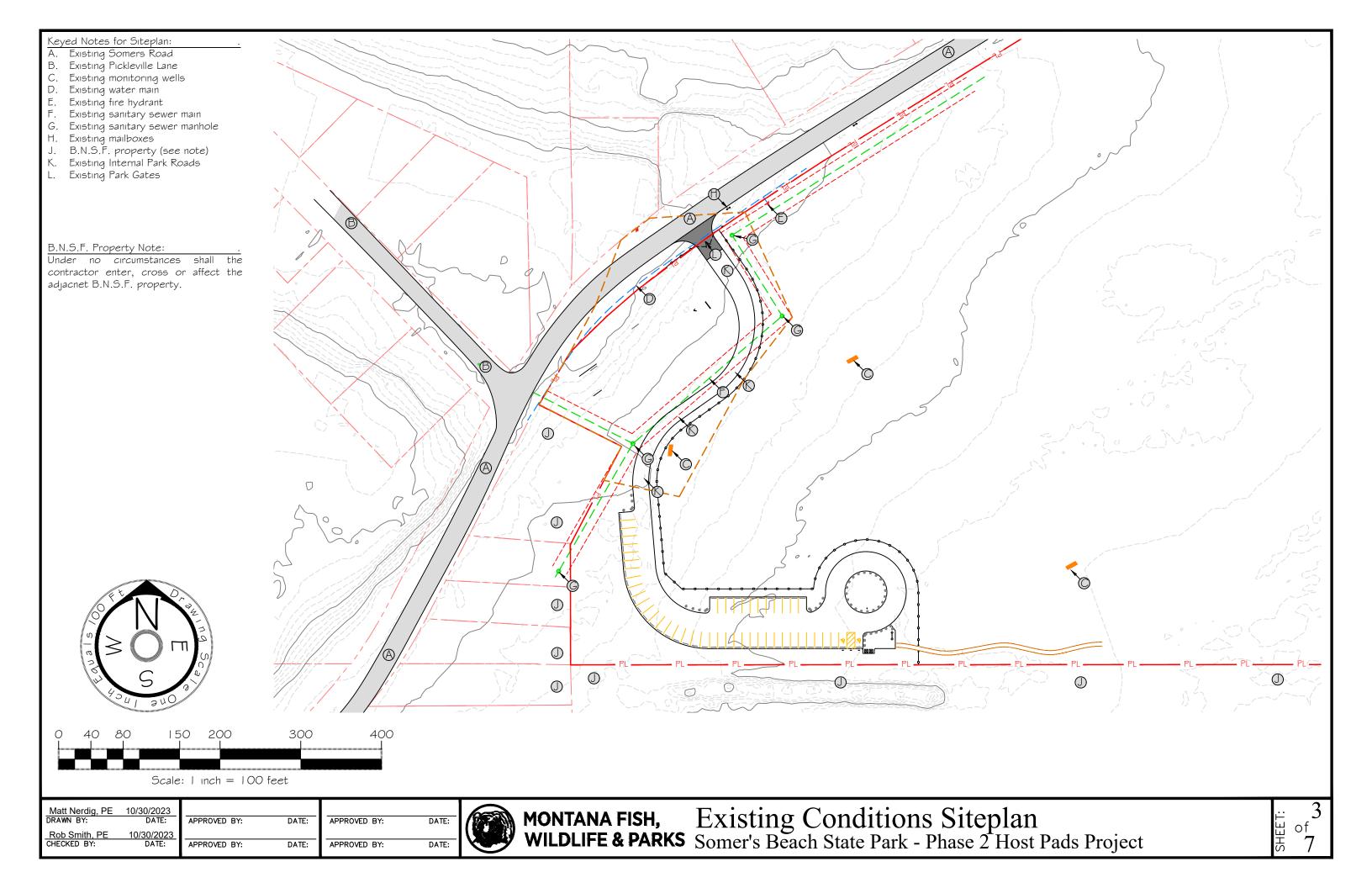
APPROVED BY: DATE: APPROVED BY:

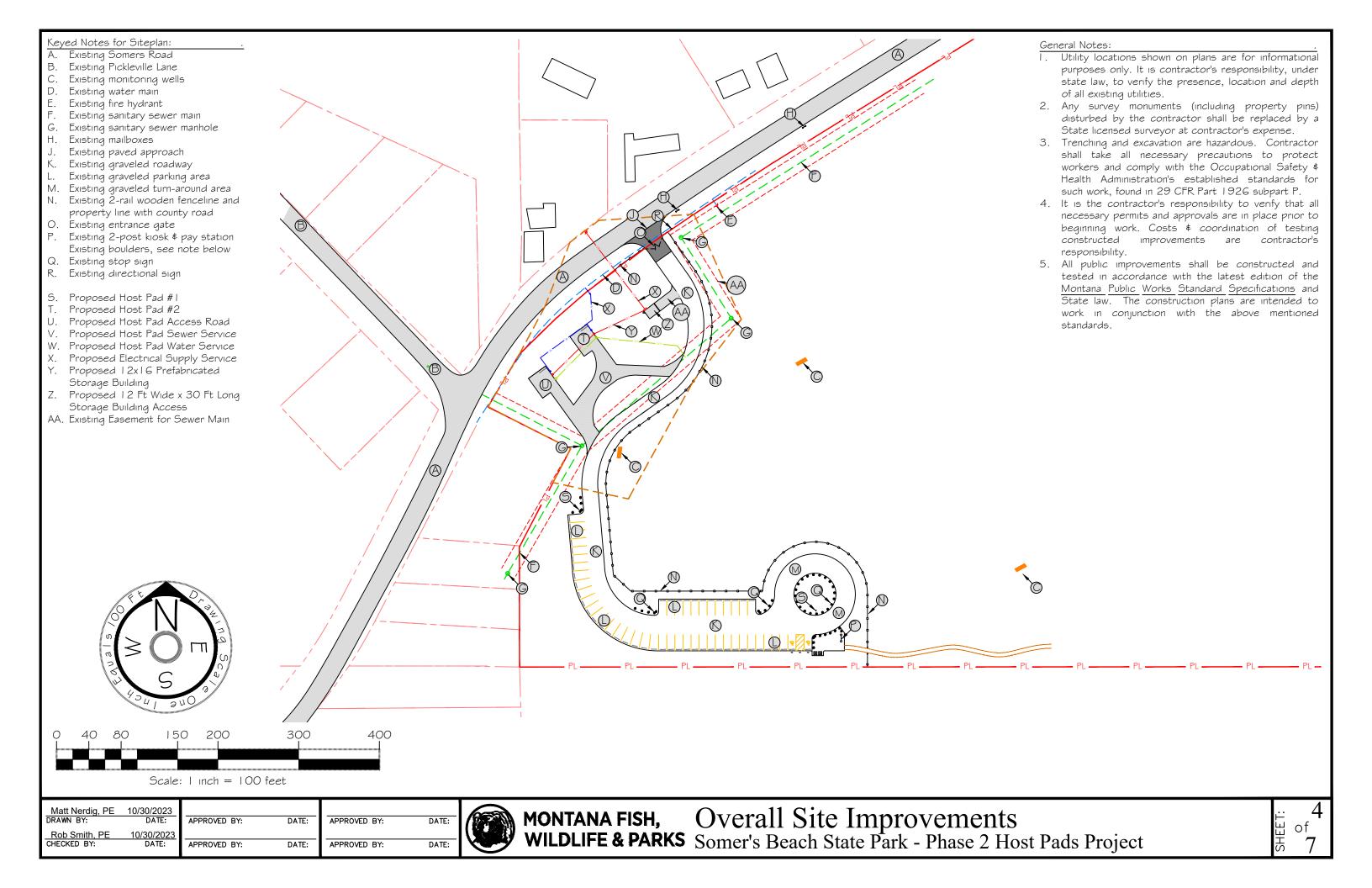
APPROVED BY:

APPROVED BY:

MONTANA FISH, Project Area Location / Limits
WILDLIFE & PARKS Somer's Beach State Park - Phase 2 Host Pads Project

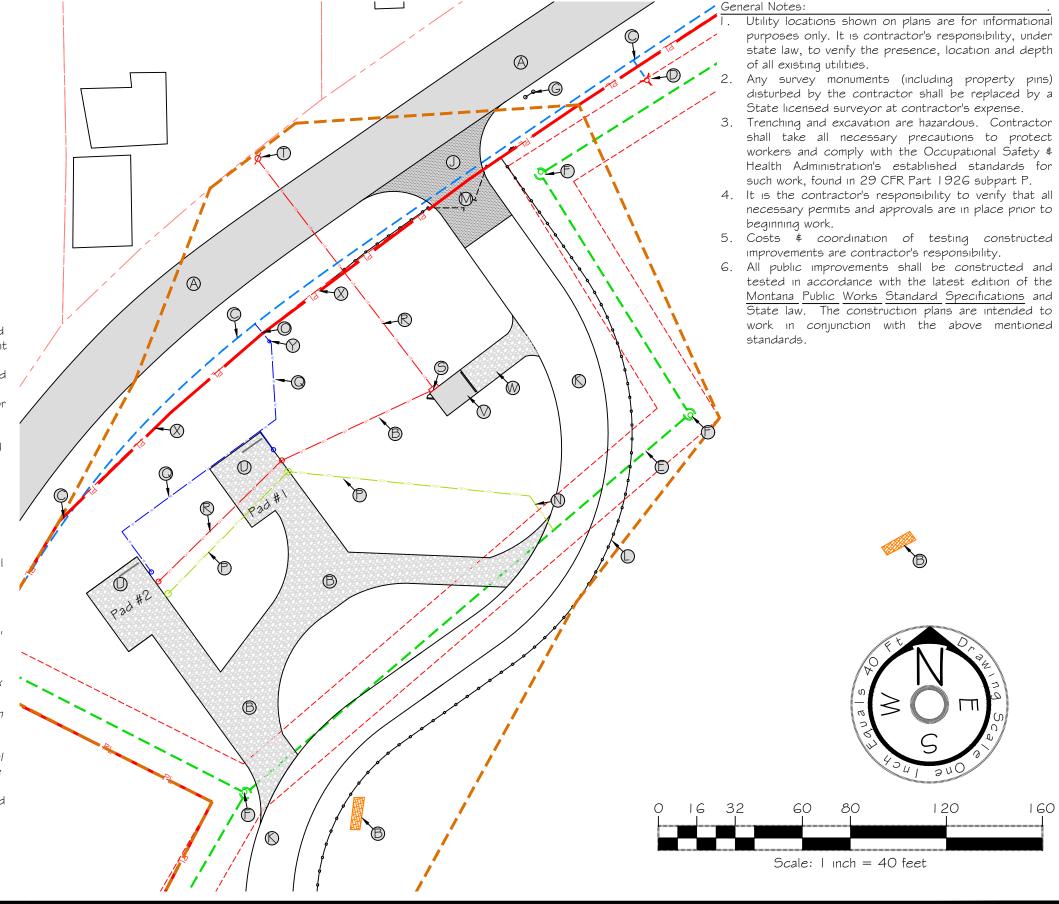
133HS 7



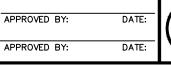


Keyed Notes for Siteplan:

- A. Existing Somers Road
- B. Existing monitoring wells
- C. Existing water main
- Existing fire hydrant
- Existing sanitary sewer main in easement shown
- Existing sanitary sewer manhole
- Existing mailboxes
- Existing paved approach
- Existing graveled roadway
- Existing 2-rail wooden fenceline
- M. Existing entrance gate
- N. Existing Sewer Service
- O. Existing Water Service line to existing meter pit
- P. Proposed Sewer Service: Install new 4" \emptyset sch. 40 PVC piping sloped at $\frac{1}{4}$ " per foot, connected to existing SDR-35 service stub out on Sewer Main (adapter will be required to convert from SDR-35 to sch. 40 PVC). Contractor must contact Somers Water \$ Sewer District just prior to excavation to arrange for notification and site inspection during connection.
- Q. Proposed Water Service Install new I "Ø SDR-9 HDPE beginning at outlet of existing meter and running to host pads. Outlet on meter is $\frac{3}{4}$, so an adapter will be needed to connect the new HDPE. Remove and demo any old existing line past the meter. Install a new curb stop 5 feet after the meter pit to allow FWP to turn the line off in winter. Contractor must contact Somers Water \$ Sewer District just prior to excavation to arrange for notification and site inspection during connection.
- R. Proposed Electrical Service connected to existing overhead lines, contractor shall coordinate with FEC for proper sizing, permitting, and connection details. Service shall serve storage building and (2) 50 Amp Pedestals for the proposed Host Pads. Service will need to be bored under county road if service crosses road.
- S. Proposed Electrical Service Panels located on storage building as shown, panels shall be designed and installed by a Master Electrican and properly permitted with the State of Montana.
- Proposed service connection to existing FEC overhead lines, verify connection point with FEC.
- U. Proposed 60 Foot RV Host Site with 12' x 30' picnic area bump out. Pad shall be constructed per standard road cross section on page 7. Pads shall have 10' concrete parking bumper as shown.
- V. Proposed prefabricated 12x16 storage building. Structure shall be a standard gable roof shed per the following specifications: 12" on center treated 2x6 floor joists on (4) 8" x 8" treated stringers, 7.5' minimum wall height for 2x4 Fir/Larch at 16" OC wall, 3/4" exterior rated plywood floor, 8' x 7' Overhead Lockable Garage Door, TI-II siding painted per FWP directives. Metal roofing on 6/12 pitch roof with color per FWP over \frac{5}{2}" APA rated roof sheathing, 2x6 Fir/Larch #2 Roof Joists at 16" OC with 12"x12" x $\frac{5}{8}$ " APA Rated Plywood center splice plate with (4) Simpson SD #9x1.5" screws in to each rafter and Construction Adhesive. Simpson A34 Clip (with Simpson SD screws) or H3 Clip at all rafter to wall connections, 3' by 80" Steel Lockable Exterior Door located in gable end opposite garage door (location shown on plan sheet), building structural members shall sit on gravel pad constructed per road cross section on page 7. Building shall also have interior and exterior LED lighting and (4) 20 Amp Electrical outlets.
- W. Proposed I 2' Wide by 30' Long Access Road for Storage Shed constructed per road cross section on page 7.
- X. Existing Property Line Along County Road, all work in right of way shall be done within right of way permit from Flathead County
- Y. Existing Water Meter, field verify location

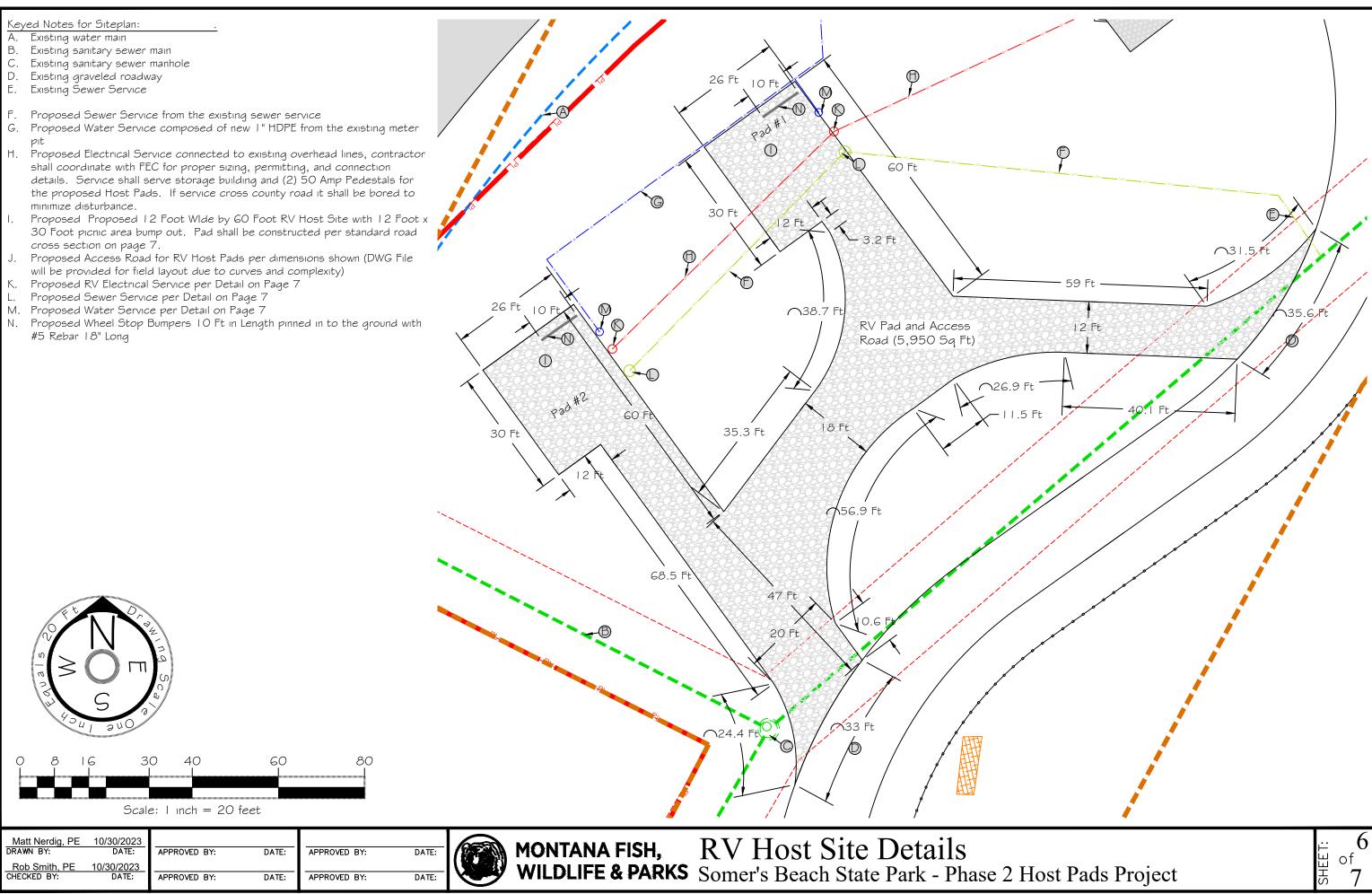


Matt Nerdig, PE	10/30/2023		
DRAWN BY:	DATE:	APPROVED BY:	D/
Rob Smith, PE	10/30/2023		
CHECKED BY:	DATE:	APPROVED BY:	D



MONTANA FISH,

MONTANA FISH, Detailed Site Improvements
WILDLIFE & PARKS Somer's Beach State Park - Phase 2 Host Pads Project

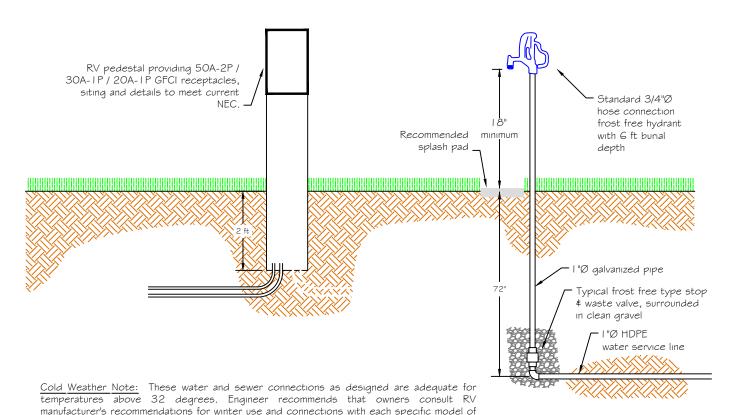


Matt Nerdig, PE	10/30/2023
DRAWN BY:	DATE:
Rob Smith, PE	10/30/2023
CHECKED BY:	DATE:

APPROVED BY: DATE: APPROVED BY: DATE: APPROVED BY:

MONTANA FISH,

RV Host Site Details WILDLIFE & PARKS Somer's Beach State Park - Phase 2 Host Pads Project Not to Scale



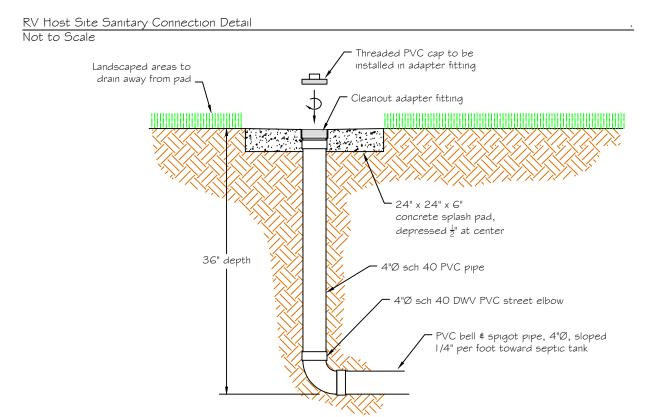
Road Cross Section Requirements

1. The standard specifications for this work shall conform to the Montana Public Works Standard Specifications, current edition.

RV. Typical cold weather measures can include use of heat tape, insulation and skirting of RV. However there are fire hazards inherent to these same measures that must be

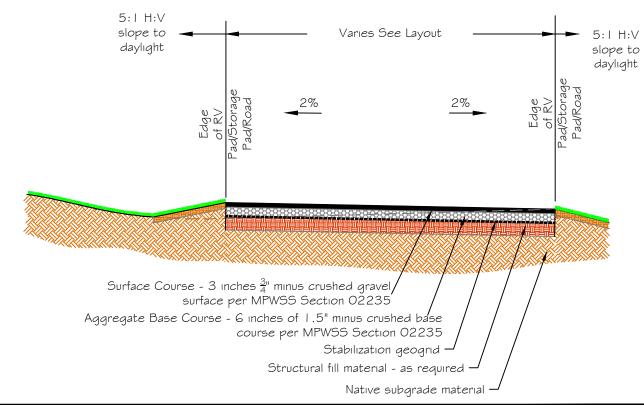
considered. It is the sole responsibility of the owner to properly prevent freezing in cold

- 2. Site Stripping (MPWSS Section 02230) The roadbed site shall be prepared by the removal of all topsoil, root zone and any loose, soft, frozen or otherwise unsuitable materials. Depth of necessary removal will vary from 4" to 8". Engineering field review after stripping shall be required. Excavated materials shall not be suitable for structural backfill.
- 3. Subgrade (MPWSS Section 02230) Subgrade shall be undisturbed native. If disturbed then scarify 6" deep and compact to 95% of maximum laboratory dry density per AASHTO T99 or ASTM D698,.
- 4. Structural Fill Soils Sourced On-Site (MPWSS Section 02230) Non-organic on-site soils, generally being Silt / Silty-Clay / Silty-Sand, are suitable for use as general fill under drives and parking areas if embanked as required by the MPWSS earthwork section. Fill below drives and parking areas shall be compacted to 95% as determined by AASHTO T99 or ASTM D698, with a moisture content range of ±2 from optimum. Fill below landscaped areas shall be compacted to 90% as determined by AASHTO T99 or ASTM D698, with a moisture content range of ±2 from optimum.
- 5. Structural Fill Soils Sourced Off-Site (MPWSS Section 02230) Fill below drives and parking areas shall generally be compacted to 95% as determined by AASHTO T99 or ASTM D698, with a moisture content range of ±3 from optimum. However, samples shall be submitted to a geotechnical laboratory for verification of this standard, and revision as necessary.
- 6. Stabilization geogrid shall be Tensar TX5 or engineer approved equal, installed per manufacturer's specifications.
- 7. Aggregate Base Course (MPWSS Section 02235) Aggregate base course shall conform to the MPWSS specification for 1.5" Minus and be compacted to 95% as determined by AASHTO T99 or ASTM D698.
- 8. Aggregate Surface Course (MPWSS Section 02235) Aggregate surface course shall conform to the MPWSS specification for 0.75" Minus and be compacted to 95% as determined by AASHTO T99 or ASTM D698.



Road - RV Site - Storage Area - Cross Section

Not to Scale



 Matt Nerdig, PE
 10/30/2023

 DRAWN BY:
 DATE:

 Rob Smith, PE
 10/30/2023

 CHECKED BY:
 DATE:

APPROVED BY: DATE: APPROVED BY: DATE: APPROVED BY: DATE:



MONTANA FISH, Host/RV Pad Details and Road/Pad Section WILDLIFE & PARKS Somer's Beach State Park - Phase 2 Host Pads Project