

SITE COORDINATES:
 LATITUDE: **48° 05' 25" N**
 LONGITUDE: **117° 19' 10" W**

EASTERN WASHINGTON



DIRECTIONS TO SITE

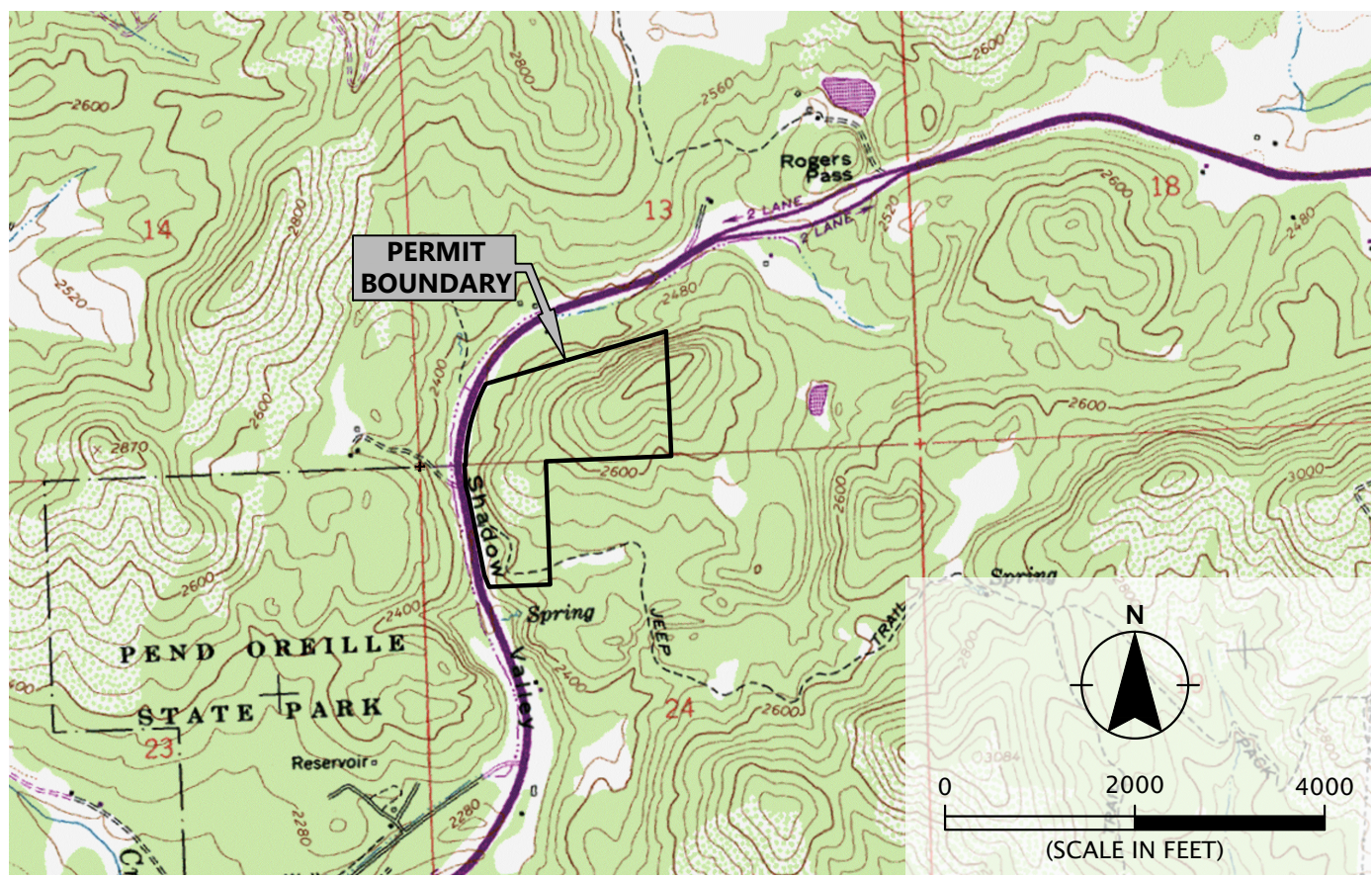
SHADOW VALLEY QUARRY IS LOCATED APPROXIMATELY 15 DRIVING MILES SOUTHWEST FROM THE CITY OF NEWPORT, WA. FROM NEWPORT, DRIVE SOUTHWEST ON U.S. ROUTE 2, PASSING THROUGH THE COMMUNITY OF DIAMOND LAKE. APPROXIMATELY 6 MILES FROM DIAMOND LAKE, U.S. ROUTE 2 WILL TURN SOUTH. THE SITE ACCESS ROAD WILL BE ON THE LEFT (EAST) SIDE OF U.S. ROUTE 2, APPROXIMATELY 0.5 MILE AFTER U.S. ROUTE 2 TURNS SOUTHBOUND.

LEGAL DESCRIPTION

THE PERMIT BOUNDARY IS LOCATED IN PORTIONS OF THE FOLLOWING QUARTER-QUARTER SECTIONS:

- SW QUARTER OF THE SW QUARTER OF SECTION 13
- SE QUARTER OF THE SW QUARTER OF SECTION 13
- NW QUARTER OF THE NW QUARTER OF SECTION 24

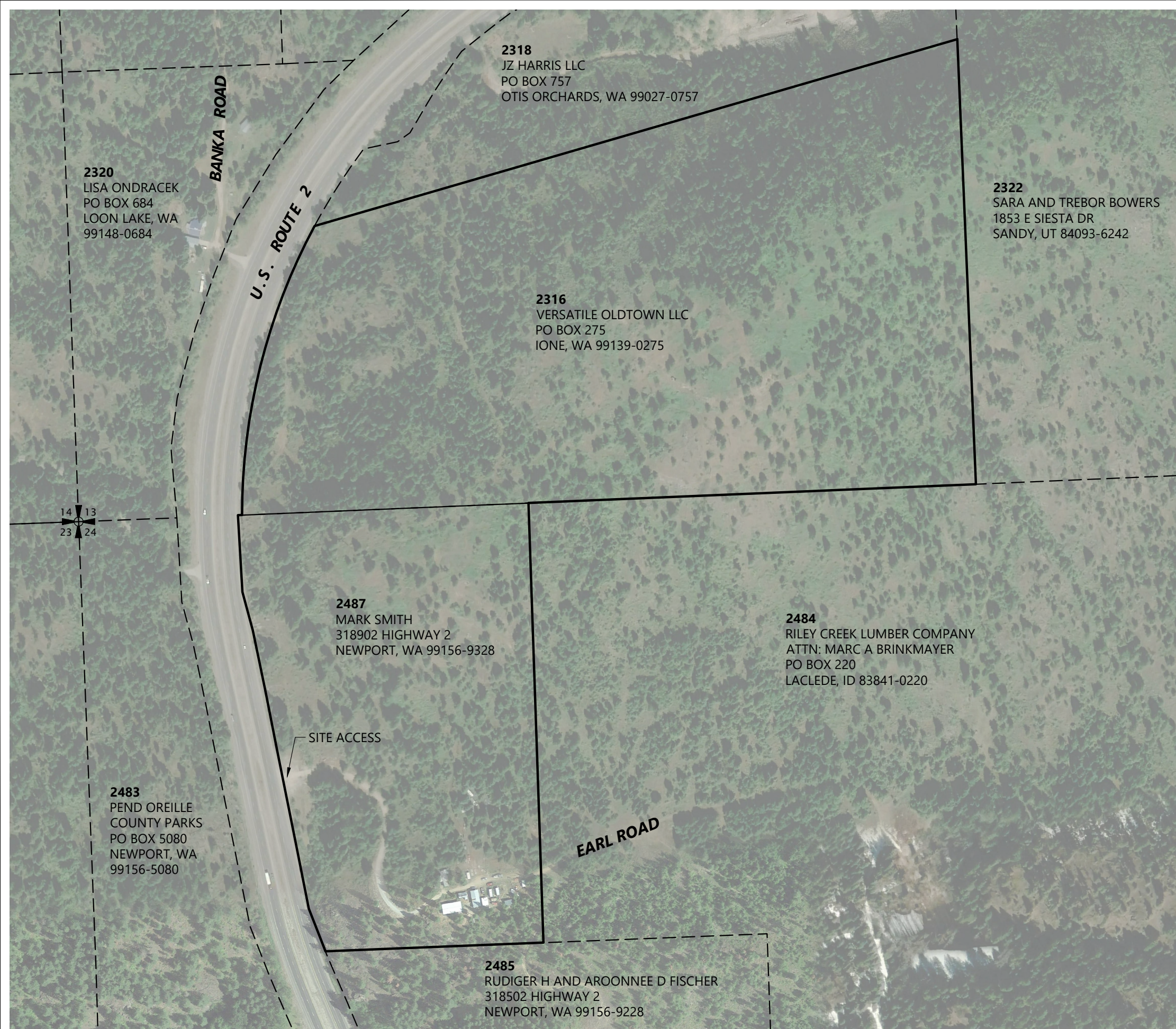
NOTE: USGS TOPOGRAPHIC QUADRANGLE MAP (ELK) REPRODUCED USING MAPTECH TERRAIN NAVIGATOR PRO®.



Printed By: Mike Miller | Print Date: 6/27/2024 11:03:36 AM
 File Name: J:\E-L\FulcrumGeo\FulcrumGeo-1-01\Figures\Shadow Valley Quarry FG027.02.01\FG027.02.01-VM-AP01.dwg | Layout: FIGURE 1

	VERSATILE INDUSTRIES, INC.	VICINITY MAP SHADOW VALLEY QUARRY	
	PROJECT 027.02.01 JUNE 2024	PEND OREILLE COUNTY, WA SECTIONS 13 AND 24, TOWNSHIP 30N, RANGE 43E W.M.	FIGURE 1

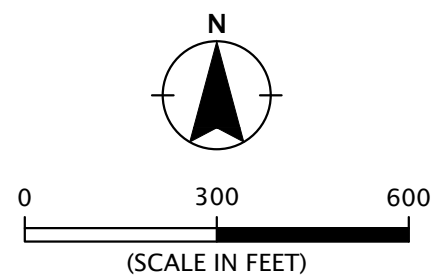
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LEGEND:

- PERMIT/PROPERTY BOUNDARY (73.7 ACRES)
- PARCEL LINES
- 2316** PROPERTY I.D.
- GEOREFERENCE (SECTION CORNER)
 - 48° 05' 23"N
 - 117° 19' 40"W

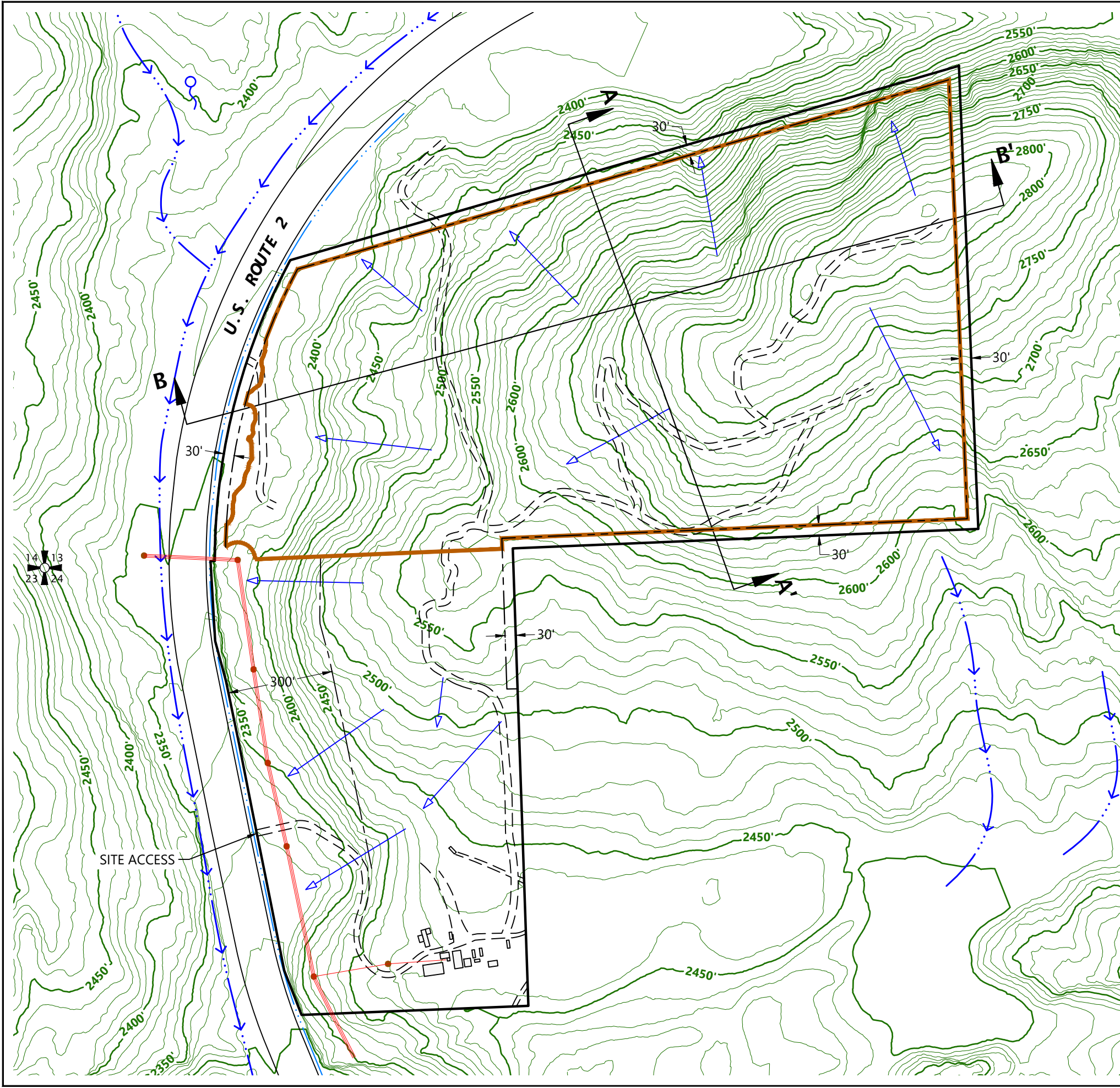
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- NOTES:**
1. PERMIT BOUNDARY CREATED FROM PARCEL BOUNDARIES OBTAINED FROM PEND OREILLE COUNTY GIS.
 2. PROPERTY I.D., PARCEL BOUNDARIES, AND PROPERTY OWNERSHIP INFORMATION OBTAINED ONLINE FROM PEND OREILLE COUNTY ASSESSOR.
 3. AERIAL PHOTOGRAPH DATED APRIL 2020 OBTAINED FROM GOOGLE EARTH PRO.

PROPERTY OWNERSHIP MAP SHADOW VALLEY QUARRY	FIGURE 2
VERSATILE INDUSTRIES, INC. PROJECT 027.02.01 JUNE 2024	PEND OREILLE COUNTY, WA SECTIONS 13 AND 24, TOWNSHIP 30N, RANGE 43E W.M.

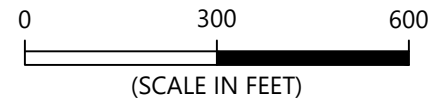
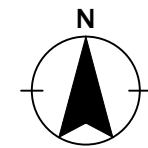
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LEGEND:

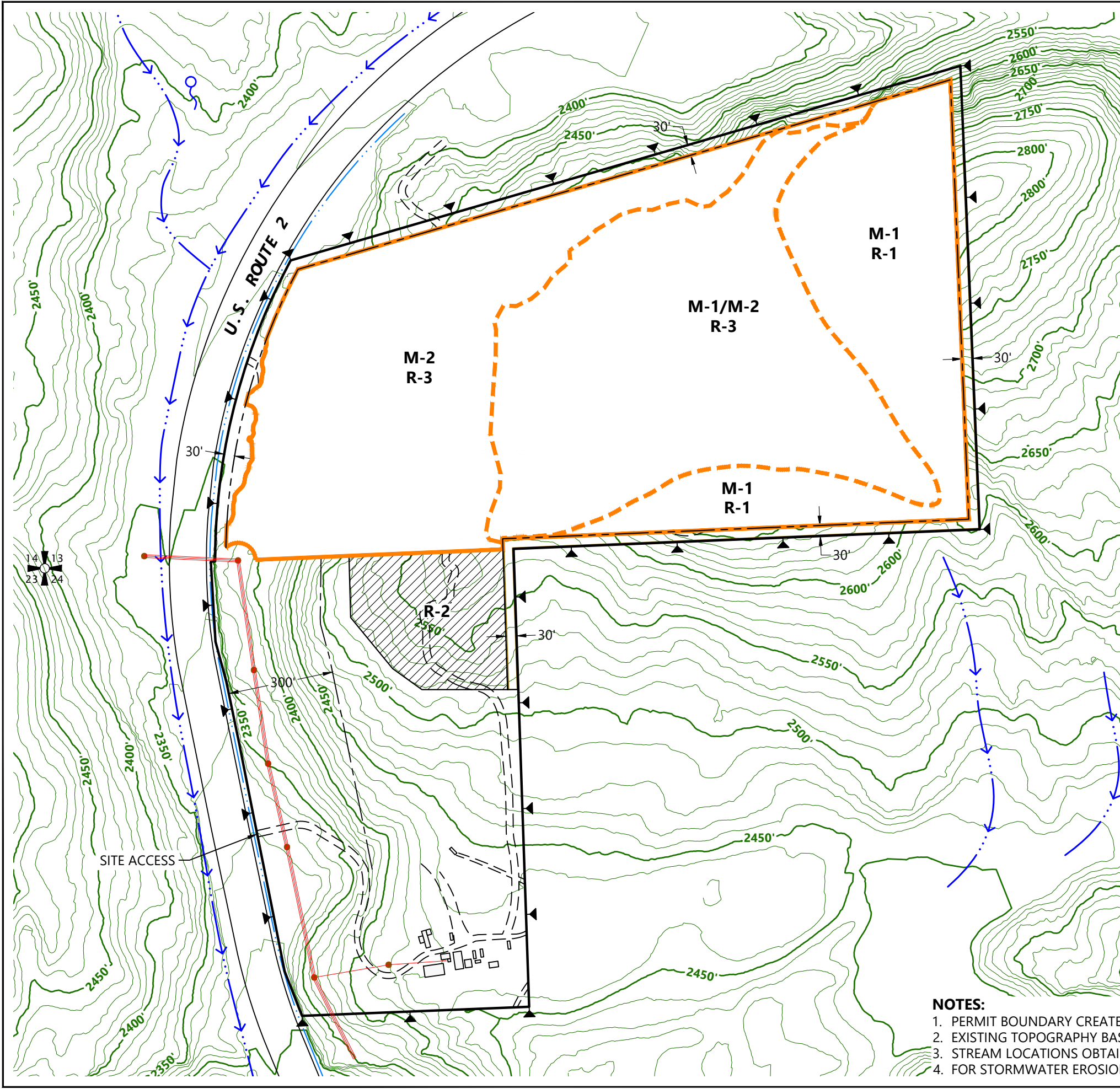
- PERMIT BOUNDARY (73.7 ACRES)
- 30-FOOT SETBACK
- LIMITS OF EXCAVATION (46.5 ACRES)
- EXISTING TOPOGRAPHY (10-FOOT INTERVALS; 50-FOOT INDEX CONTOURS)
- GEOREFERENCE (SECTION CORNER)
 • 48° 05' 23"N
 • 117° 19' 40"W
- 300-FOOT EASEMENT
- SITE ROADS
- EXISTING ON-SITE BUILDINGS (TYP.)
- OVERHEAD POWER LINE AND POWER POLE
- DRAINAGE DITCH
- STREAM
- DRAINAGE PATTERNS
- SPRING
- CROSS SECTION

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NOTES:

1. PERMIT BOUNDARY CREATED FROM PARCEL BOUNDARIES OBTAINED FROM PEND OREILLE COUNTY GIS.
2. EXISTING TOPOGRAPHY BASED ON 2019 LIDAR DATA OBTAINED FROM DNR
3. STREAM LOCATIONS OBTAINED FROM DNR FPAMT.

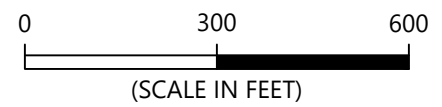
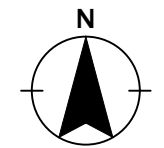


LEGEND:

- PERMIT BOUNDARY (73.7 ACRES)
- 30-FOOT SETBACK
- EXISTING TOPOGRAPHY (10-FOOT INTERVALS; 50-FOOT INDEX CONTOURS)
- GEOREFERENCE (SECTION CORNER)
 • 48° 05' 23"N
 • 117° 19' 40"W
- 300-FOOT EASEMENT
- SITE ROADS
- EXISTING ON-SITE BUILDINGS (TYP.)
- OVERHEAD POWER LINE AND POWER POLE
- DRAINAGE DITCH
- STREAMS
- SPRING
- PROCESSING AREA (RECLAMATION PHASE 2)
- LIMITS OF EXCAVATION (MINING SEGMENTS 1 & 2)
- MINING SEGMENT BOUNDARY
- PERMANENT MARKER (LINE OF SIGHT)

SEGMENT AND PHASE AREAS TABLE	
M-1*	30.0 ACRES
M-2**	34.9 ACRES
R-1***	11.6 ACRES
R-2	3.5 ACRES
R-3	34.9 ACRES

* M-1 WILL BE A 2:1 CUT TO EL. 2,570 FEET.
 ** M-2 INCLUDES AN 18.4 ACRES AREA OF SEGMENT M-1, CUT FROM EL. 2,570 FEET TO EL. 2,360 FEET.
 *** R-1 WILL BE THE 2:1 SLOPE AREA FROM MINING SEGMENT 1. SEE CROSS SECTIONS ON FIGURE 7.

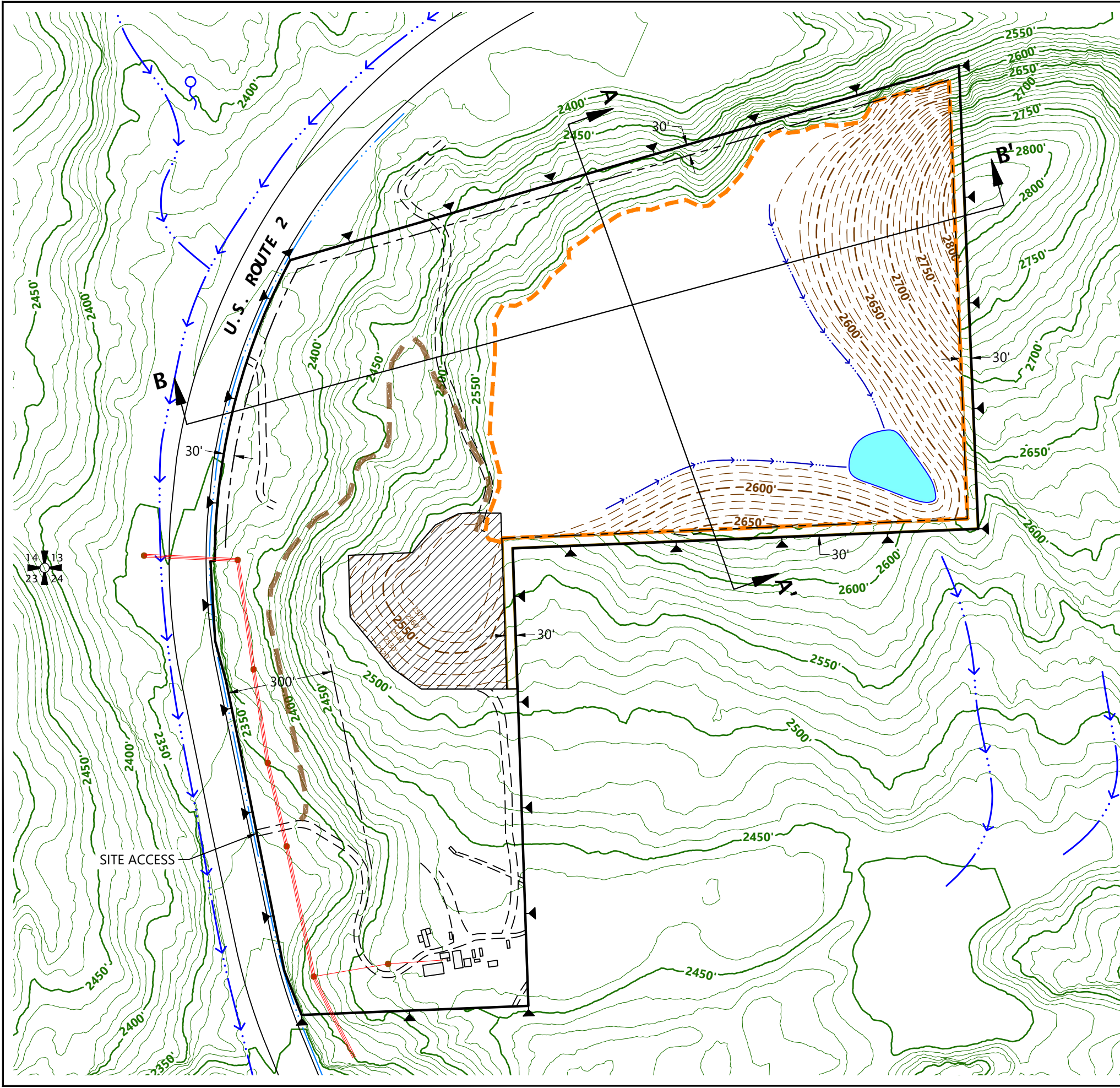


NOTES:

1. PERMIT BOUNDARY CREATED FROM PARCEL BOUNDARIES OBTAINED FROM PEND OREILLE COUNTY GIS.
2. EXISTING TOPOGRAPHY BASED ON 2019 LIDAR DATA OBTAINED FROM DNR
3. STREAM LOCATIONS OBTAINED FROM DNR FPAMT.
4. FOR STORMWATER EROSION CONTROL MEASURES, SEE NARRATIVE.

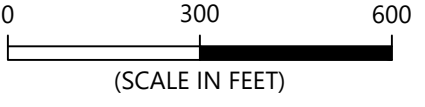
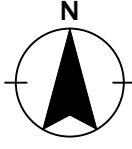
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LEGEND:

- PERMIT BOUNDARY (73.7 ACRES)
- 30-FOOT SETBACK
- INTERIM CUT OR GRADED TOPOGRAPHY (10-FOOT INTERVALS; 50-FOOT INDEX CONTOURS)
- EXISTING TOPOGRAPHY (10-FOOT INTERVALS; 50-FOOT INDEX CONTOURS)
- GEOREFERENCE (SECTION CORNER)
 • 48° 05' 23"N
 • 117° 19' 40"W
- 300-FOOT EASEMENT
- SITE ROADS
- EXISTING ON-SITE BUILDINGS (TYP.)
- OVERHEAD POWER LINE AND POWER POLE
- DRAINAGE DITCH
- STREAM
- SPRING
- INITIAL PROCESSING AND SALES AREA (GRADED 3:1 TO ELEVATION 2,570 FEET)
- MINING SEGMENT 1 (30.0 ACRES)
- PERMANENT MARKER (LINE OF SIGHT)
- DRAINAGE AND INFILTRATION SWALE
- INTERIM INFILTRATION BASIN
- PROPOSED ACCESS ROAD



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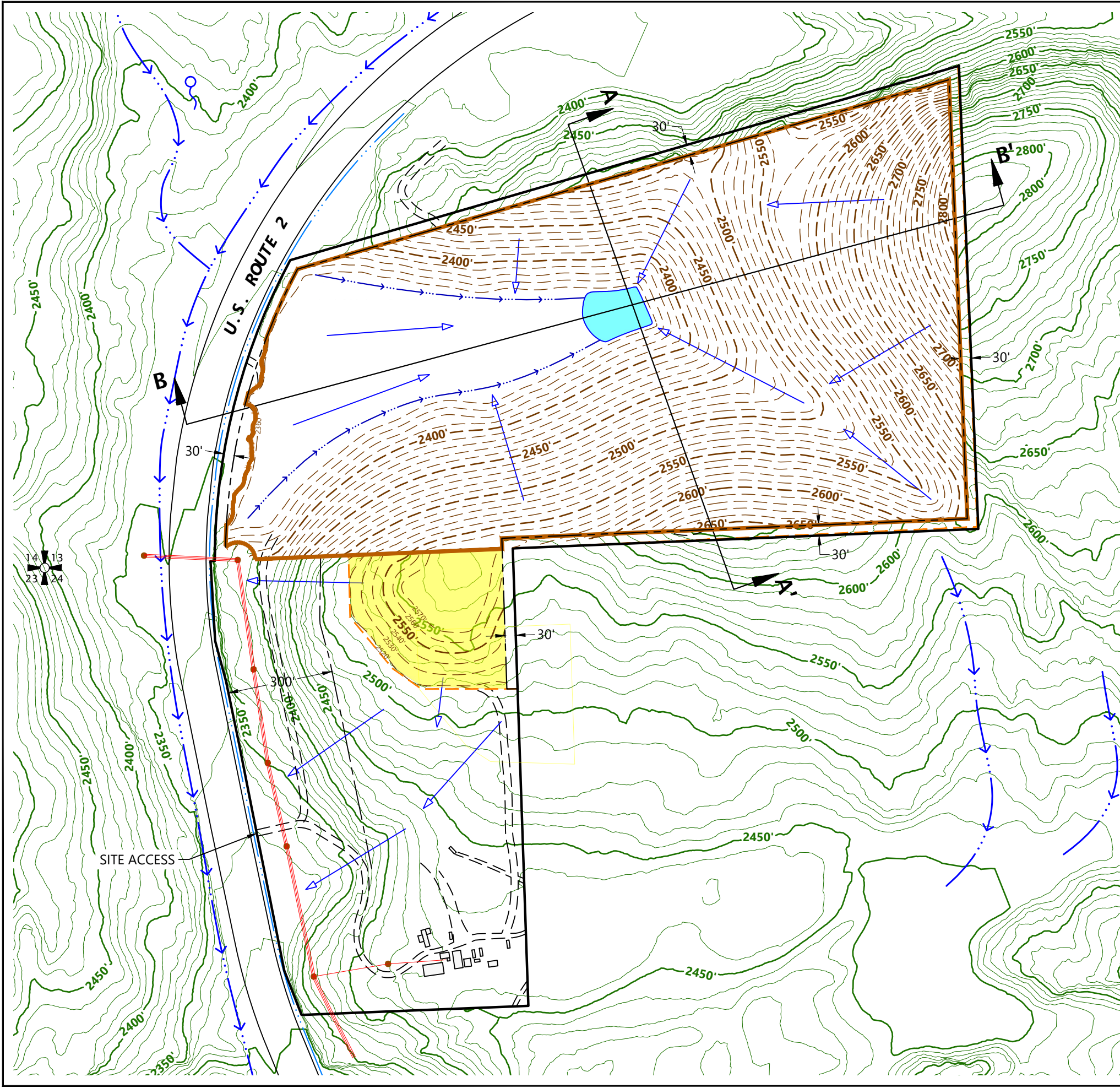
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NOTES:

1. PERMIT BOUNDARY CREATED FROM PARCEL BOUNDARIES OBTAINED FROM PEND OREILLE COUNTY GIS.
2. EXISTING TOPOGRAPHY BASED ON 2019 LIDAR DATA OBTAINED FROM DNR
3. STREAM LOCATIONS OBTAINED FROM DNR FPAMT.
4. FOR STORMWATER EROSION CONTROL MEASURES, SEE NARRATIVE.

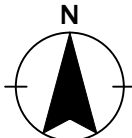
FULCRUM GEO RESOURCES	VERSATILE INDUSTRIES, INC. PROJECT 027.02.01 JUNE 2024	INTERIM TOPOGRAPHY MAP - MINING SEGMENT 1 COMPLETED SHADOW VALLEY QUARRY PEND OREILLE COUNTY, WA SECTIONS 13 AND 24, TOWNSHIP 30N, RANGE 43E W.M.	FIGURE 5
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LEGEND:

- PERMIT BOUNDARY (73.7 ACRES)
 - 30-FOOT SETBACK
 - LIMITS OF EXCAVATION (46.5 ACRES)
 - FINAL TOPOGRAPHY (10-FOOT INTERVALS; 50-FOOT INDEX CONTOURS)
 - EXISTING TOPOGRAPHY (10-FOOT INTERVALS; 50-FOOT INDEX CONTOURS)
 - GEOREFERENCE (SECTION CORNER)
 • 48° 05' 23"N
 • 117° 19' 40"W
 - 300-FOOT EASEMENT
 - SITE ROADS
 - EXISTING ON-SITE BUILDINGS (TYP.)
 - OVERHEAD POWER LINE AND POWER POLE
 - DRAINAGE DITCH
 - STREAM
 - DRAINAGE PATTERNS
 - SPRING
 - RECLAMATION ONLY AREA, NO EXTRACTION
 - DRAINAGE AND INFILTRATION SWALE
 - INFILTRATION BASIN
- A** **A'**
 CROSS SECTION



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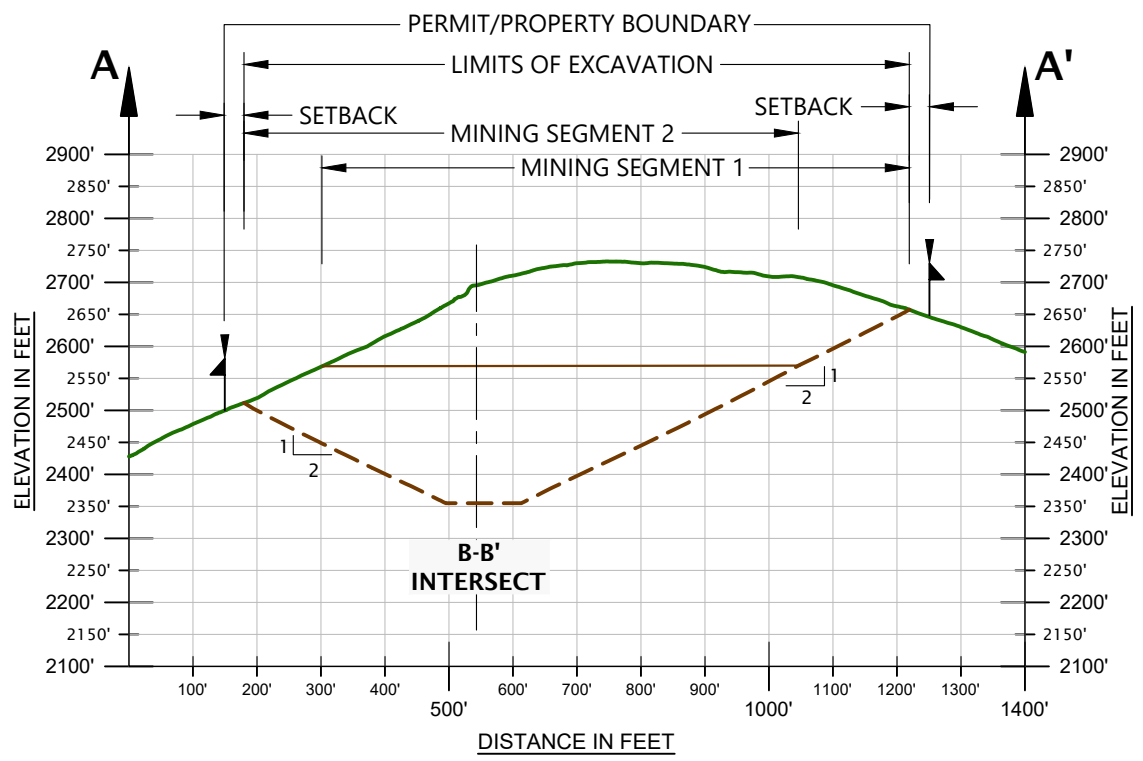
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NOTES:

1. PERMIT BOUNDARY CREATED FROM PARCEL BOUNDARIES OBTAINED FROM PEND OREILLE COUNTY GIS.
2. EXISTING TOPOGRAPHY BASED ON 2019 LIDAR DATA OBTAINED FROM DNR FOR REVEGETATION AND PROPOSED SPECIES, SEE NARRATIVE.
3. STREAM LOCATIONS OBTAINED FROM DNR FPAMT.
4. FOR POSTMINING STORMWATER EROSION CONTROL MEASURES, SEE NARRATIVE.

VERSATILE INDUSTRIES, INC.	FINAL TOPOGRAPHY MAP SHADOW VALLEY QUARRY	FIGURE 6
PROJECT 027.02.01 JUNE 2024	PEND OREILLE COUNTY, WA SECTIONS 13 AND 24, TOWNSHIP 30N, RANGE 43E W.M.	
FULCRUM GEO RESOURCES		

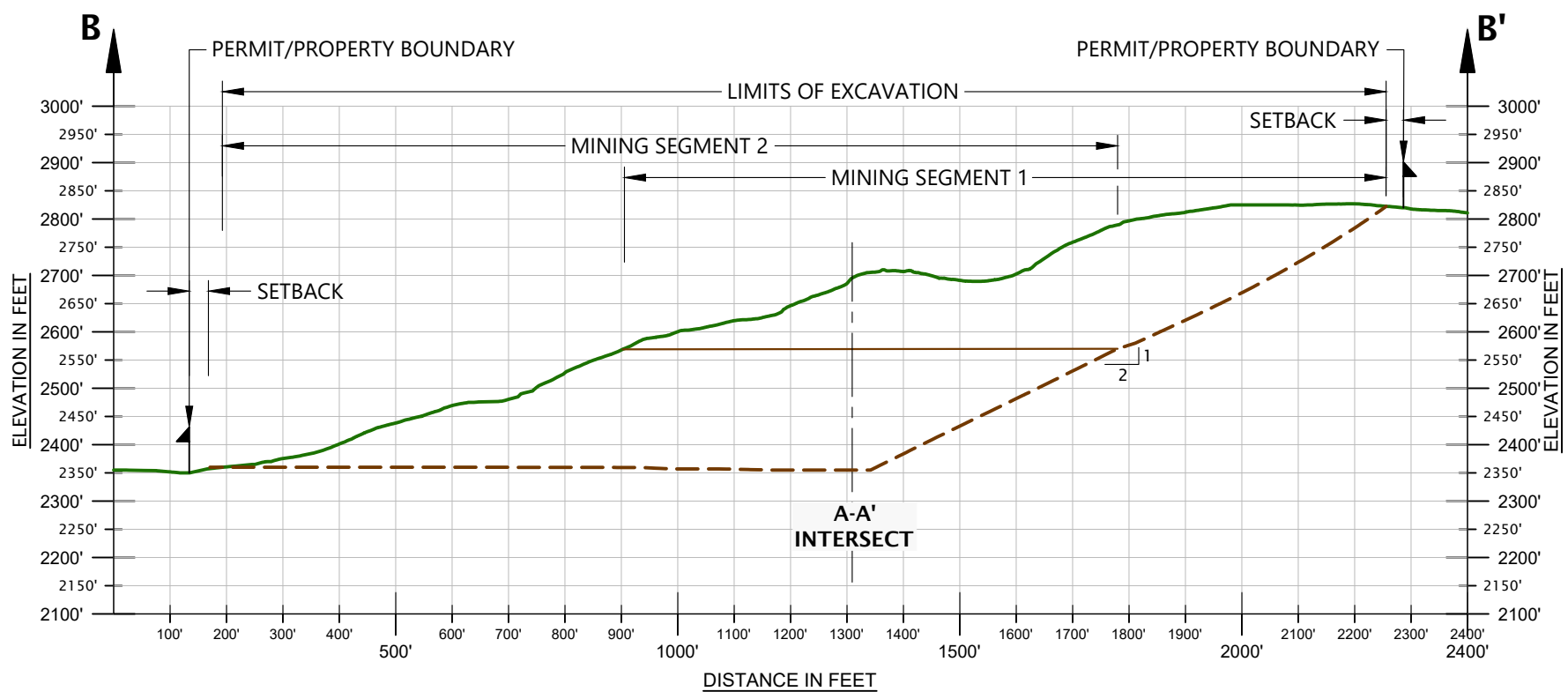
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- LEGEND:**
- EXISTING TOPOGRAPHY
 - INTERIM CUT TOPOGRAPHY (MINING SEGMENT 1)
 - - - FINAL TOPOGRAPHY
 - ▲ PERMANENT MARKER

EXCAVATION VOLUME TABLE	
SEGMENT	VOLUME
MINING SEGMENT 1	4,594,081 CUBIC YARDS
MINING SEGMENT 2	4,584,509 CUBIC YARDS
TOTAL CUT (GROSS)*	9,178,590 CUBIC YARDS

* CUT VOLUME INCLUDES TOPSOIL, OVERBURDEN, AND RESOURCE



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