

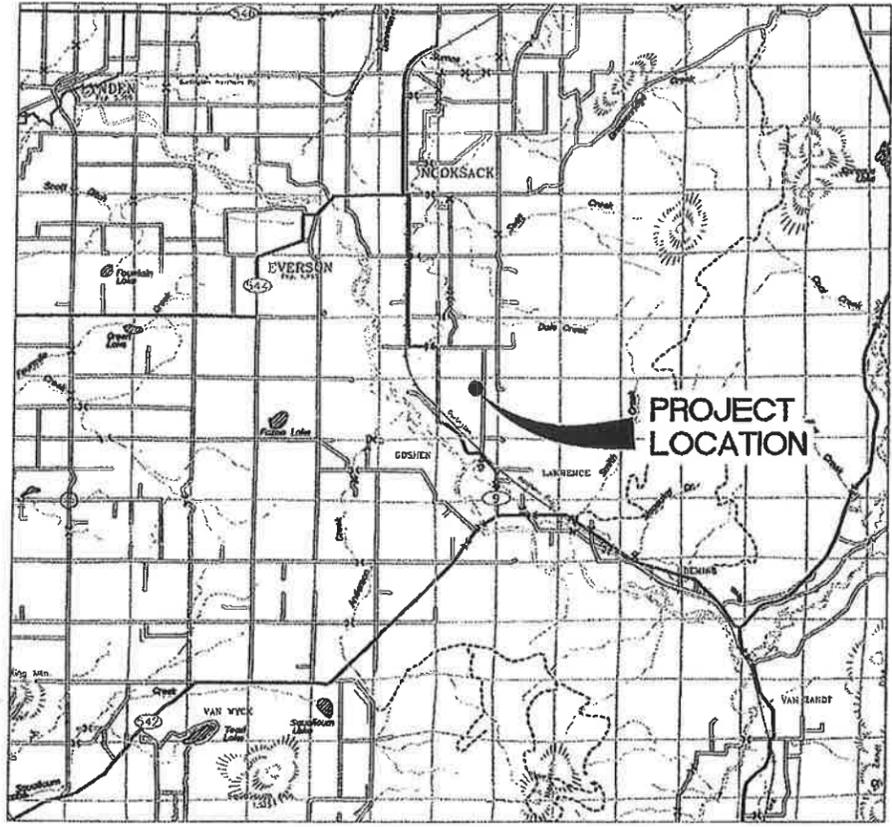
HOWEM GRAVEL PIT

RECLAMATION PLAN - DNR PERMIT #70-011328

WHATCOM COUNTY, WASHINGTON

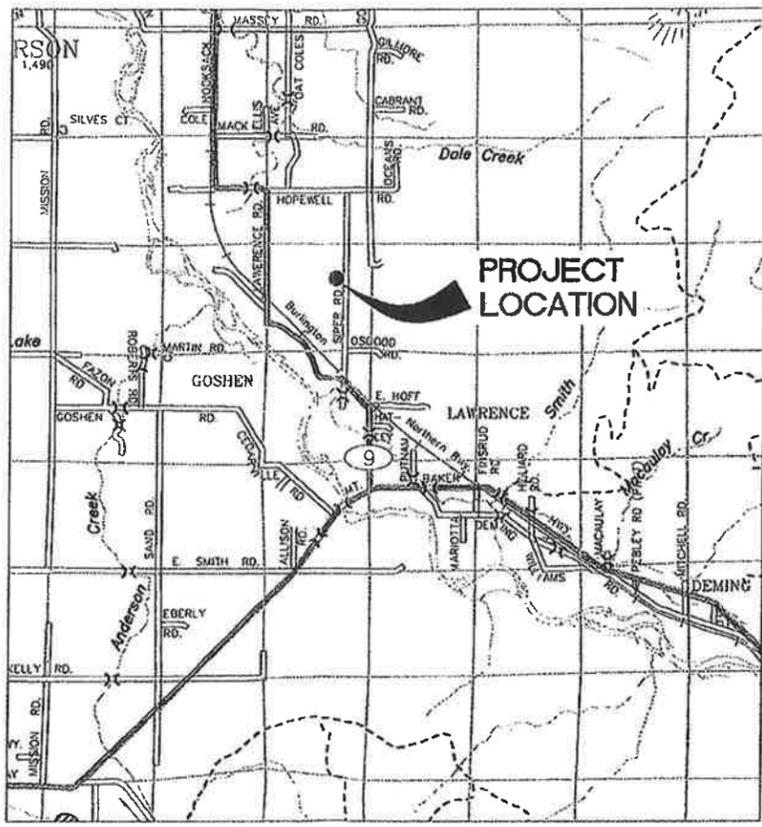
NO	REVISIONS	BY	DATE

WILSON ENGINEERING, LLC
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LOCATION MAP

NOT TO SCALE



VICINITY MAP

NOT TO SCALE

INDEX TO DRAWINGS	
C01	VICINITY MAP, INDEX TO DRAWINGS
C02	SURVEY CONTROL & ADJACENT OWNERS
C03	EXISTING CONDITIONS
C04	MINE SEQUENCING MAP
C05	RECLAMATION MAP
C06	CROSS SECTIONS
C07	REVEGETATION MAP

RECLAMATION IMPLEMENTATION NOTES

1. SCOTCH BROOM REMOVAL. On going removal program until reclamation is complete and formally approved by Department of Natural Resources.
2. SALVAGE OF ORGANIC MATERIAL. Organic materials such as woody debris, trees, shrubs, top soil, and other sources shall be salvaged during reclamation.
3. EXISTING STRUCTURES AND EQUIPMENT. All structures and equipment shall be removed from the site.
4. PIT SLOPES AND FLOOR. The perimeter slopes, shall be graded to 2H:1V & fill slopes.
5. UNSUITABLE (silt/clay mix) GRAVEL. The exact volume of any unsuitable material is unknown. Any unsuitable material shall be spread evenly on designated Revegetation areas and filled into the sand & gravel.
6. PLACEMENT OF DEAD WOOD. Available dead wood shall be place horizontally on slopes. Locate dead wood in areas where drainage washout risks are the greatest.
7. SEED. Following tree and shrub planting, all sloped areas that receive top soil and overburden shall receive seeding. See sheet C07
8. MAINTENANCE. On going until final acceptance by DNR. Repair and re-plant any washout areas. Reinforce troublesome areas with dead wood check dams.

DESIGNED BY	BAH
DRAWN BY	NJT
CHECKED BY	BAH

WHATCOM COUNTY
 WASHINGTON
 HOWEM GRAVEL PIT RECLAMATION PLAN
 VICINITY MAP, INDEX TO DRAWINGS

SHEET	C01
OF	C07
DATE	NOV 2010
SCALE	AS SHOWN
JOB NUMBER	2008-087C

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DESIGNED BY: BAH
 DRAWN BY: NJT
 CHECKED BY: BAH

WHATCOM COUNTY
 BELLINGHAM
 WASHINGTON
 HOWEM GRAVEL PIT RECLAMATION PLAN
 SURVEY CONTROL & ADJACENT OWNERS

SHEET: C02 OF C07
 DATE: NOV 2010
 SCALE: AS SHOWN
 JOB NUMBER: 2008-087C

ADJACENT PROPERTY OWNERS

- ① MOUNTAIN VIEW BERRIES LLC
988 E POLE RD, EVERSON WA 98247
- ② DONALD P & SHIRLEY Y F NIELSEN
6287 SIPER RD, EVERSON WA 98247
- ③ LEE R & LORRAINE S PEGAN
6308 SIPER RD, EVERSON WA 98247
- ④ JAMES D-KATHRYN B BEESLEY
6312 SIPER RD, EVERSON WA 98247
- ⑤ RYAN T MCNIELLY
6348 SIPER RD, EVERSON WA 98247
- ⑥ CORY L & ARLENE L COPPS
6364 SIPER RD, EVERSON WA 98247
- ⑦ GLEN R & AVALEE CONWAY
5808 MURRAY ROAD BELLINGHAM, WA 98226
- ⑧ MILES SAND & GRAVEL COMPANY
P O BOX 280, MT VERNON WA 98273

THIS MAP HAS BEEN PRODUCED USING PROCEDURES THAT HAVE BEEN DEMONSTRATED TO YIELD MAPPING WHICH COMPLIES WITH THE NATIONAL STANDARD FOR SPATIAL DATA ACCURACY (NSSDA) FOR A SCALE OF 1" = 100'.

THE PRESENCE OF DASHED CONTOURS INDICATES THAT THE GROUND IS OBTAINED BY VEGETATION, BUILDINGS OR SHADOWS AND THAT THE DATA IN THOSE AREAS MAY NOT MEET NSSDA. GROUND SURVEYS MAY BE REQUIRED TO SUPPLEMENT THE MAPPING.

HORIZONTAL DATUM: WASHINGTON STATE PLANE, NORTH ZONE, NAD83/91, US FEET.

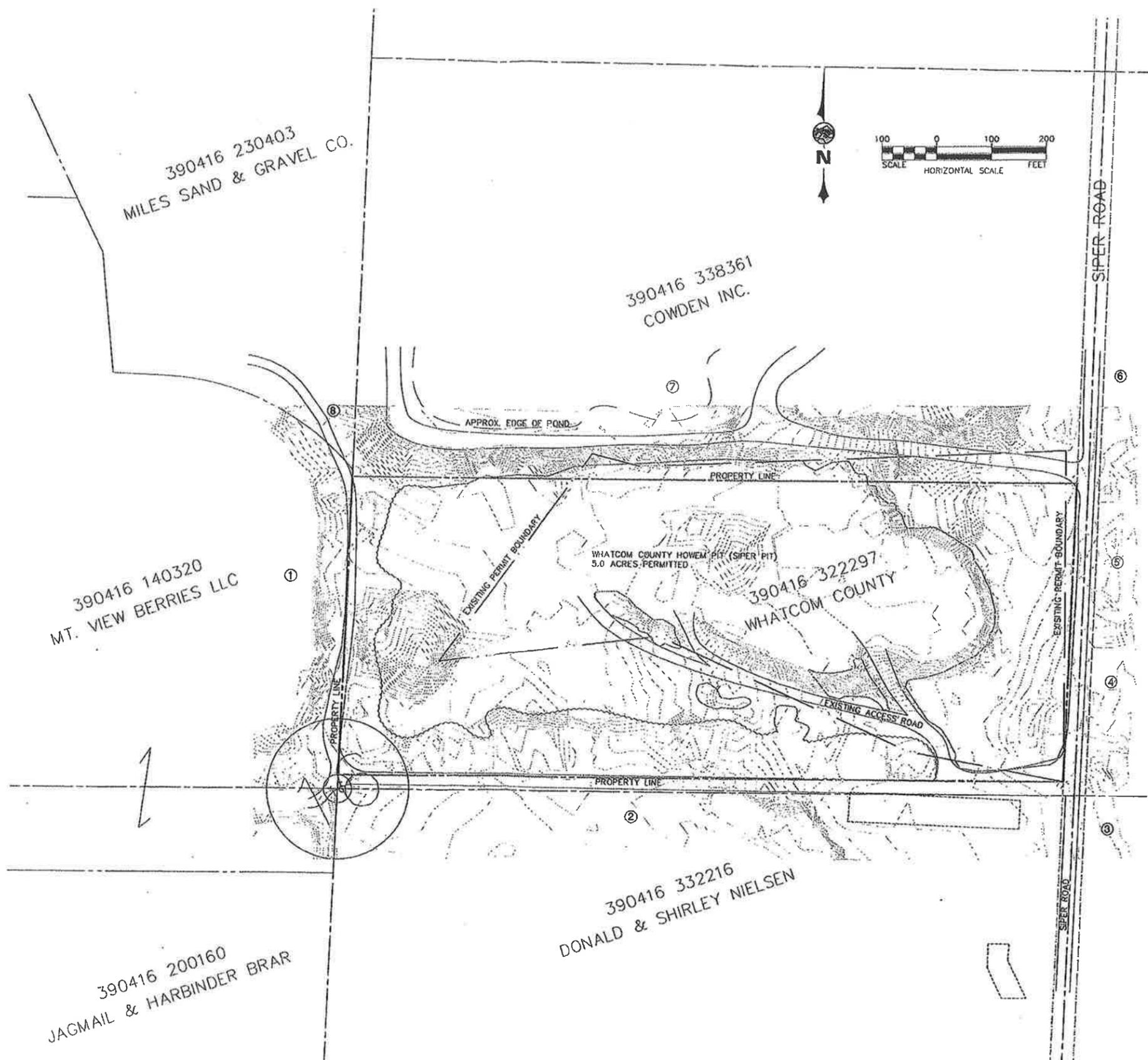
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM 1988

PROPERTY LINES SHOWN ARE BASED ON WHATCOM COUNTY ASSESSOR MAP. WILSON ENGINEERING DOES NOT TAKE RESPONSIBILITY FOR THE ACCURACY OF THE PROPERTY LINES

NO LEVEL LOOPS WERE PERFORMED TO TIE THE ON-SITE NETWORK TO EXTERNAL BENCHMARKS.

- EXISTING**
- 150.00 EXISTING MAJOR INDEX CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING PERMITTED BOUNDARY LIMITS
 - PROPERTY LINE
 - SECTION LINE
 - EXISTING DRIVEWAY ROAD
 - EXISTING VEGETATION CANOPY LINE
 - EXISTING BUILDING
 - EXISTING EDGE OF ASPHALT

- PROPOSED**
- PROPOSED MATERIAL STOCKPILE AREA
 - PROPOSED TEMPORARY BERM
 - 150.00 PROPOSED MAJOR INDEX CONTOUR (10-FT INTERVALS)
 - PROPOSED MINOR INDEX CONTOUR (2-FT INTERVALS)
 - PROPOSED VEGETATION CANOPY LINE
 - PROPOSED PERMITTED BOUNDARY LIMITS



390416 230403
MILES SAND & GRAVEL CO.

390416 338361
COWDEN INC.

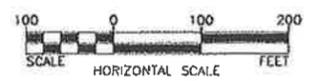
390416 140320
MT. VIEW BERRIES LLC

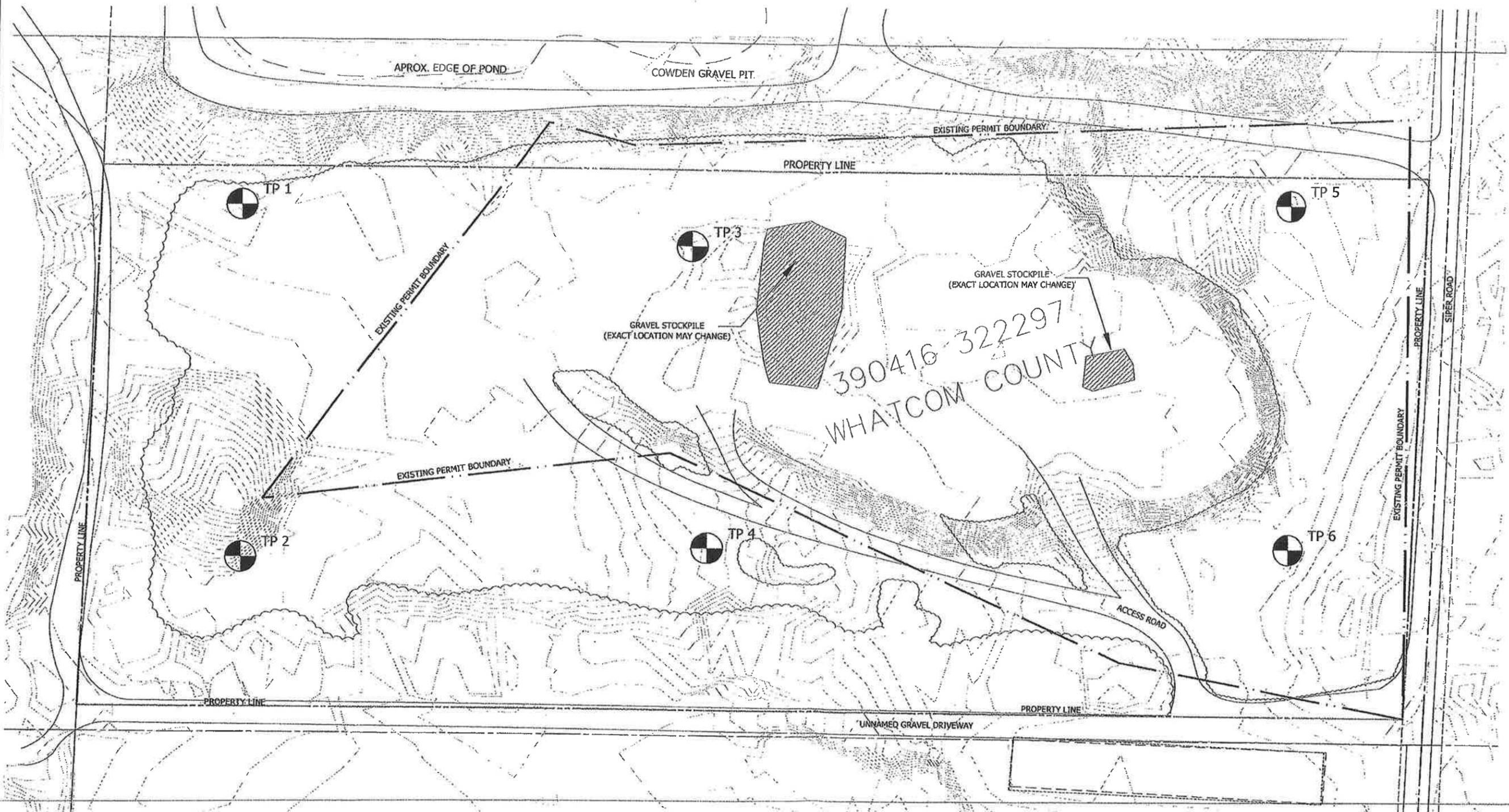
390416 332216
DONALD & SHIRLEY NIELSEN

390416 200160
JAGMAIL & HARBINDER BRAR

390416 322297
WHATCOM COUNTY

WHATCOM COUNTY HOWEM PIT (SIPER PIT)
5.0 ACRES PERMITTED





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DESIGNED BY: BAH
 DRAWN BY: N/T
 CHECKED BY: BAH

WHATCOM COUNTY
 BELLINGHAM WASHINGTON
 HOWEM GRAVEL PIT RECLAMATION PLAN
 EXISTING CONDITIONS

DATE: NOV 2010
 SCALE: AS SHOWN
 JOB NUMBER: 2008-087C

SHEET: C03
 OF: C07

