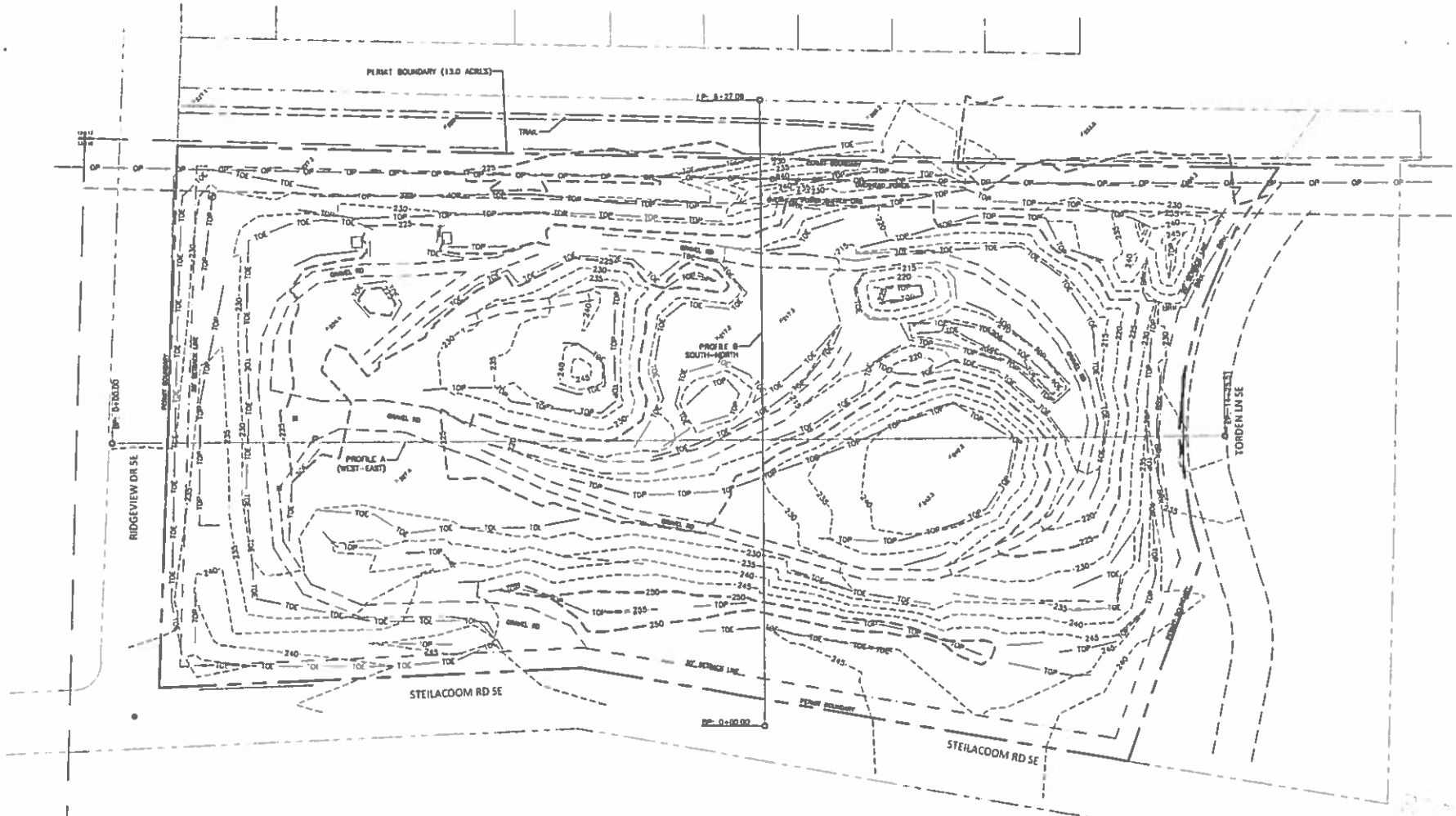


SURVEY NOTES

1. INSTRUMENT USED: TOPCON CR5 GPS.
2. SURVEY COMPLETED FEBRUARY 2016
3. PROPERTY LINES AND SECTION LINES PER THURSTON COUNTY GIS DATA.
4. CONTOURS OUTSIDE OF MINERAL PIT AREA OBTAINED FROM THURSTON COUNTY GIS DATA DATA.
5. FIVE FOOT CONTOUR INTERVALS.

0' 50' 100'

SCALE 1" = 50' - 22 X 34 SHEET SIZE
SCALE 1" = 100' - 11 X 17 SHEET SIZE

DATUM

HORIZONTAL – WASHINGTON STATE PLANE COORDINATES, SOUTH ZONE, NAD 83/91 BASED ON TIES TO THURSTON COUNTY CONTROL MONUMENTS.

VERTICAL – NAVD 88 BASED ON TIES TO THURSTON COUNTY CONTROL MONUMENTS.

DATE	9/17/2016
SCALE	1" = 50'
GSE PROJECT NO.	16-187
DRAWN	MP
CHECKED	MP
APPROVED	MP

9/17/2016

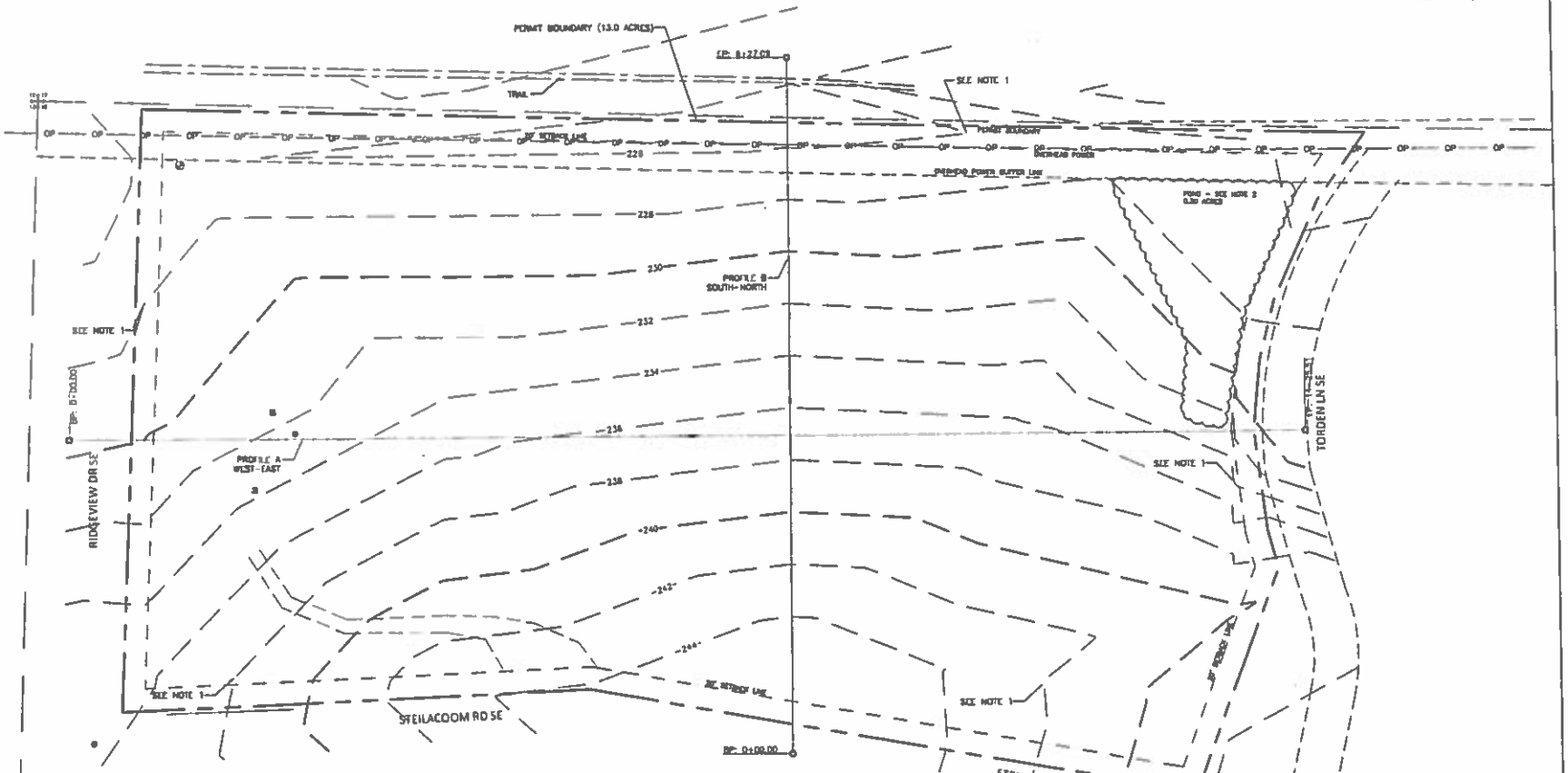
MTN COAST
1506 FAIRVIEW ST SE
OLYMPIA, WA 98501
360.239.1497

PROJECT NAME:
STEILACOOM PIT SURVEY
THURSTON COUNTY, WA
EXISTING CONDITIONS

CLIENT NAME:
BLACK LAKE QUARRY, LLC

SHEET NAME:
SV-1

SHEET NO. 1 OF 4



NOTES

1. CONTOURS MATCH EXISTING NATURAL GROUND AT EDGES.
2. SEE ATTACHMENT G FOR CALCULATIONS AND THE NARRATIVE FOR DESIGN EXPLANATION.
3. SEE THE NARRATIVE SECTION FOR DISCUSSION OF THE RECLAMATION SEGMENTS.

SURVEY NOTES

1. INSTRUMENT USED: TOPCON GRS GPS.
2. SURVEY COMPLETED FEBRUARY 2016
3. PROPERTY LINES AND SECTION LINES PER THURSTON COUNTY GEODATA.
4. CONTOURS OUTSIDE OF IMMEDIATE PIT AREA OBTAINED FROM THURSTON COUNTY GEODATA DATA.
5. FIVE FOOT EXISTING CONTOUR INTERVALS, TWO FOOT DESIGN CONTOUR INTERVALS.

0' 50' 100'

SCALE 1" = 50' 22x34 SHEET SIZE
SCALE 1" = 100' 11x17 SHEET SIZE

DATUM

HORIZONTAL - WASHINGTON STATE PLANE COORDINATES, SOUTH ZONE, NAD 83/91 BASED ON TIES TO THURSTON COUNTY CONTROL MONUMENTS.

VERTICAL - NAVD 88 BASED ON TIES TO THURSTON COUNTY CONTROL MONUMENTS.

DATE	8/17/2016
SCALE	1" = 50'
MGC PROJECT NO.	16 107
DRAWN	SFP
CHECKED	BFP
APPROVED	BFP

8/17/2016

BLAKE E. PRIGGE
PROFESSIONAL LAND SURVEYOR

MTN COAST
1506 FAIRVIEW ST SE
OLYMPIA, WA 98501
360.239.1497

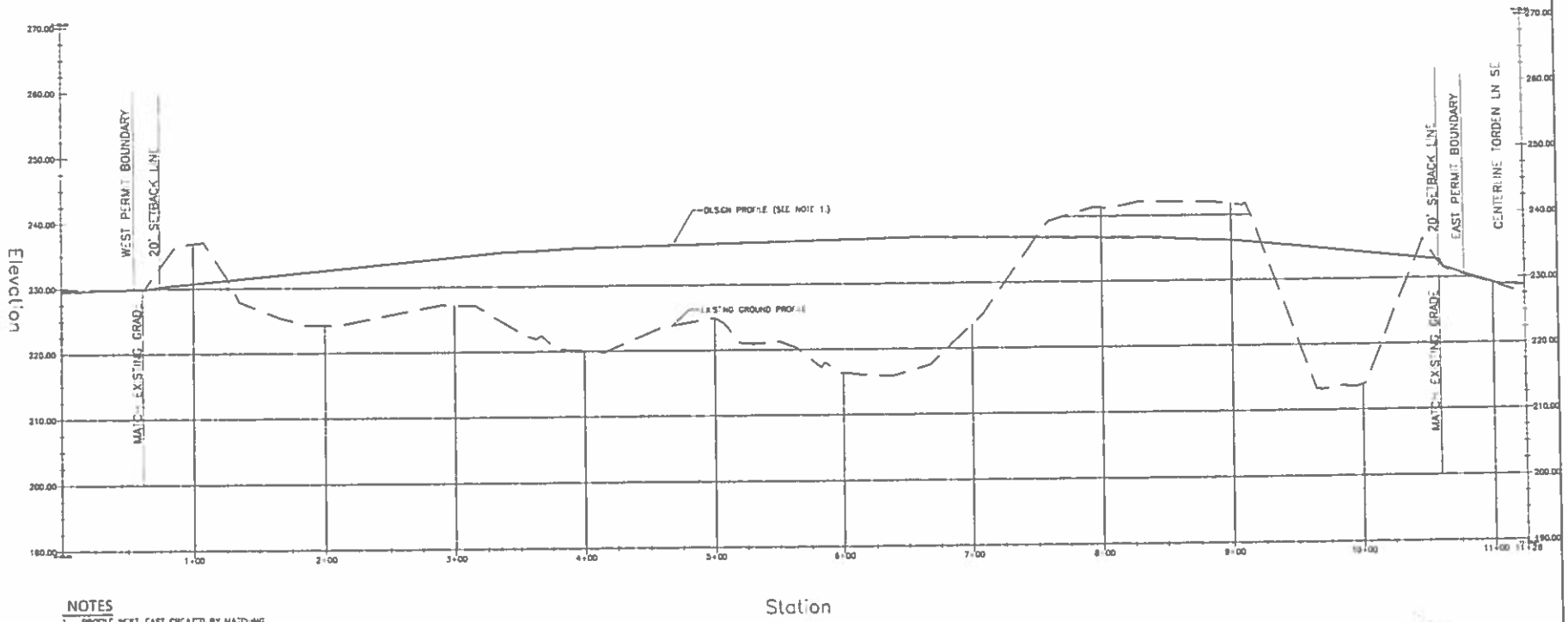
PROJECT NAME:
STEILACOOM PIT SURVEY
THURSTON COUNTY, WA
FINAL GRADE PLAN

CLIENT NAME:
BLACK LAKE QUARRY, LLC

SHEET NAME:
SV-2

SHEET NO. 2 OF 4

Profile View of west-east



NOTES

1. PROFILE WEST EAST CREATED BY MATCHING STRAIGHT GRADES FROM SOUTH NORTH PROFILES. EXISTING GROUND TO EXISTING GROUND.

SURVEY NOTES

1. INSTRUMENT USED: TOPCON CR5 GPS.
2. SURVEY COMPLETED FEBRUARY 2016
3. PROPERTY LINES AND SECTION LINES PER THURSTON COUNTY GIS DATA.
4. CONTOURS OUTSIDE OF MINERAL PERMIT AREA OBTAINED FROM THURSTON COUNTY GIS DATA DATA.
5. FIVE FOOT CONTOUR INTERVALS.

N
C

0' 40' 80'

SCALE 1" = 40' - 22"X34 SHEET SIZE
SCALE 1" = 80' - 11X17 SHEET SIZE

DATUM

HORIZONTAL - WASHINGTON STATE PLANE COORDINATES, SOUTH ZONE, NAD 83/91 BASED ON TIES TO THURSTON COUNTY CONTROL MONUMENTS.

VERTICAL - NAVD 88 BASED ON TIES TO THURSTON COUNTY CONTROL MONUMENTS.

DATE	6/17/2016
SCALE	H 1" = 40'
BGE PROJECT NO.	16-167
DRAWN	MEP
CHECKED	MEP
APPROVED	MEP

6/17/2016

BARTON GRIFFITH
STATE OF WASHINGTON
16018
PROFESSIONAL LAND SURVEYOR

MTN & COAST
1506 FAIRVIEW ST SE
OLYMPIA, WA 98501
360.239.1497

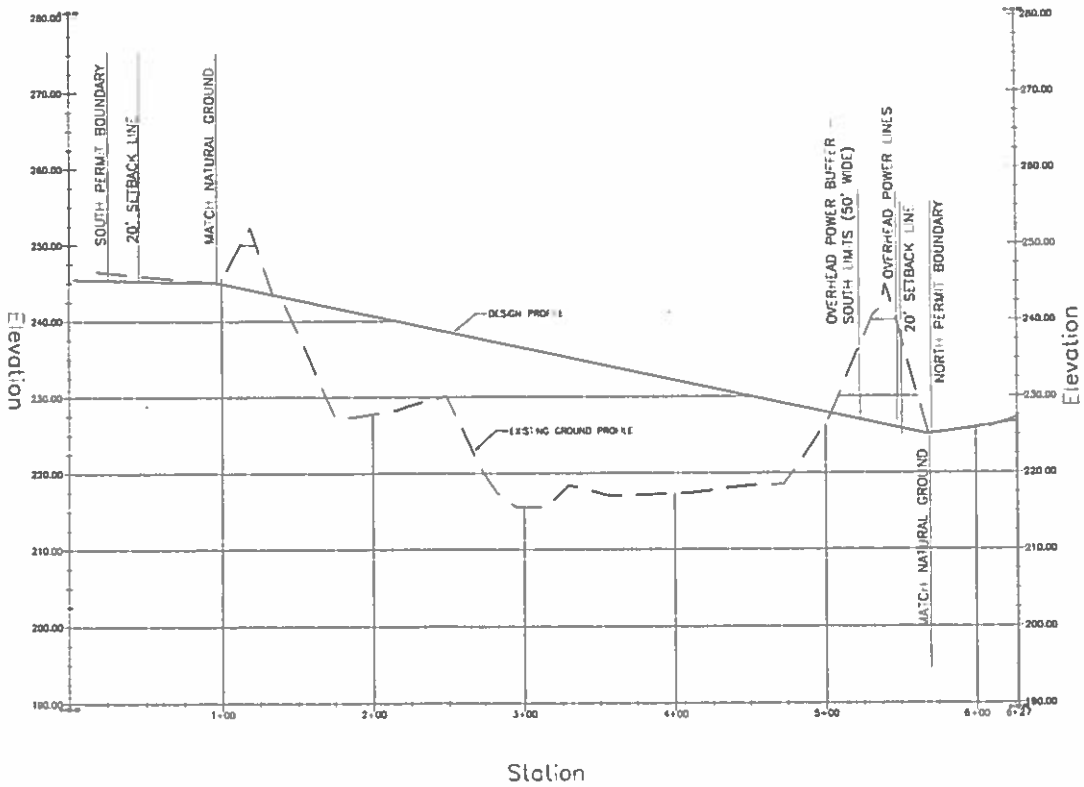
PROJECT NAME
STEILACOOM PIT SURVEY
THURSTON COUNTY, WA
PROFILE A

CLIENT NAME
BLACK LAKE QUARRY, LLC

SHEET NAME
SV-3

SHEET NO. 3 OF 4

Profile View of South–North



SURVEY NOTES

1. INSTRUMENT USED: TOPCON GRS GPS.
2. SURVEY COMPLETED FEBRUARY 2016
3. PROPERTY LINES AND SECTION LINES PER THURSTON COUNTY GLODATA.
4. CONTOURS OUTSIDE OF IMMEDIATE PIT AREA OBTAINED FROM THURSTON COUNTY GLODATA DATA.
5. FIVE FOOT CONTOUR INTERVALS.

0' 40' 80'

SCALE 1" = 40' 22X34 SHEET SIZE
SCALE 1" = 80' 11X17 SHEET SIZE

DATUM

HORIZONTAL – WASHINGTON STATE PLANE COORDINATES, SOUTH ZONE, NAD 83/91 BASED ON TIES TO THURSTON COUNTY CONTROL MONUMENTS.

VERTICAL – NAVD 88 BASED ON TIES TO THURSTON COUNTY CONTROL MONUMENTS.

DATE	8/17/2016
SCALE	H 1" = 40'
MSC PROJECT NO.	16-387
DRAWN	SEP
CHECKED	REP
APPROVED	REP

9/17/2016

MTN COAST
1506 FAIRVIEW ST SE
OLYMPIA, WA 98501
360.239.1497

PROJECT NAME:
STEILACOOM PIT SURVEY
THURSTON COUNTY, WA
PROFILE B

CLIENT NAME:
BLACK LAKE QUARRY, LLC

SHEET NAME:
SV-4

SHEET NO. 4 OF 4