CASCADE BIG BEAR MINE

MINE RECLAMATION DRAWINGS

SITUATE IN THE NE 1/4 OF THE NW 1/4 OF SECTION 24, TOWNSHIP 35N, RANGE 10E
MARBLEMOUNT, SKAGIT COUNTY, WA

RECEIVED
August 10, 2020
Washington Geological Survey

SHEET INDEX

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02 PRE-MINING TOPOGRAPHIC MAP
03 RECLAMATION SEQUENCE MAP
04 EXISTING CONTOURS
05 M-1 MINING DETAILS
06 FINAL RECLAMATION MAP
07 CROSSECTIONS

ROAD CLASSIFICATION & LEGEND

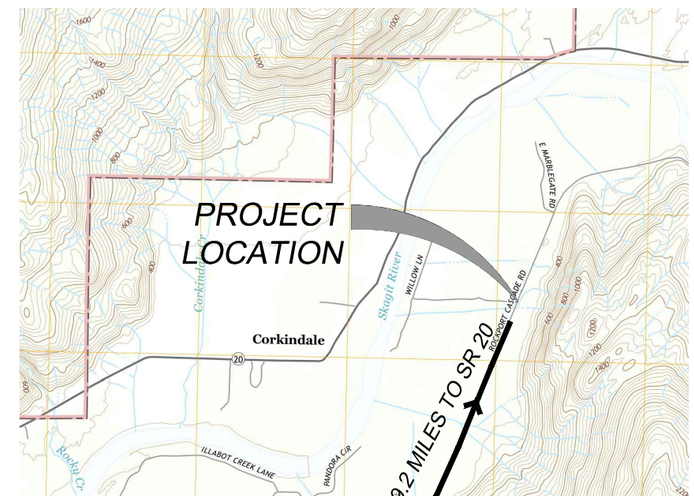
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route
FS Primary Route
FS Passenger Route
FS High Clearance Route

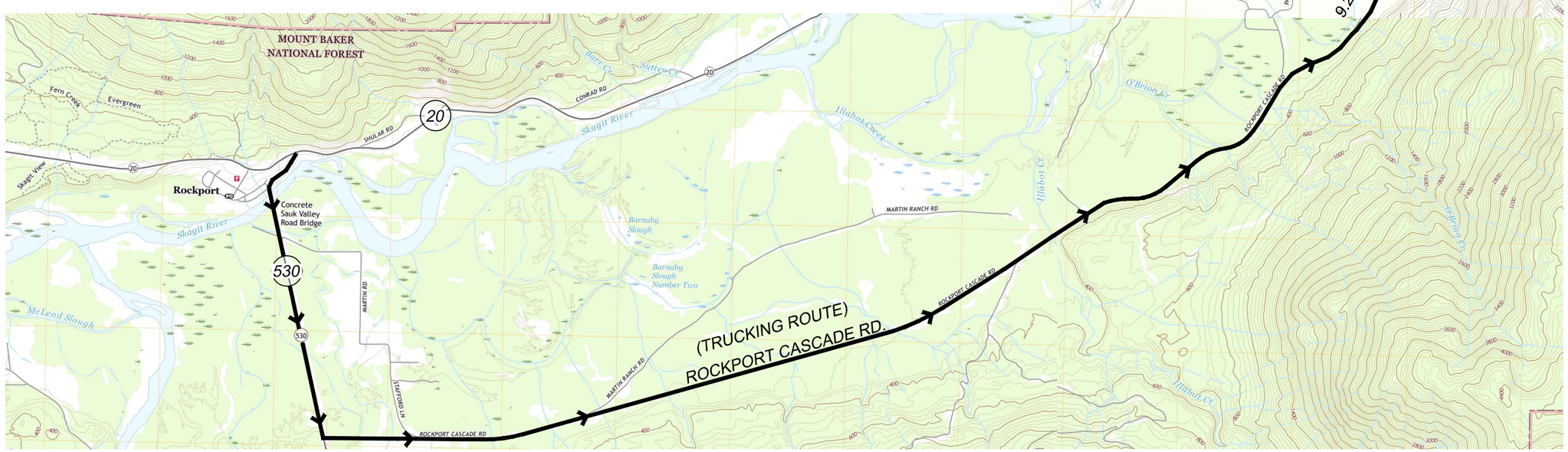
TRUCKING ROUTE INDICATOR

0 2,000 4,000 6,000 8,000 10,000

SCALE BAR

USGS MAP UTILIZED:
MARBLEMOUNT
QUADRANGLE
ROCKPORT QUADRANGLE
ILLOBOT PEAK QUADRANGLE
WASHINGTON-SKAGIT CO.
7.5 MINUTE SERIES





IMPACT DESIGN
5426 BARRETT ROAD, SUITE A103
360-389-8138 WWW.BOLD-IMPACT.COM

SCOTT IAN GOODALL
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
8-6-20

CASCADE BIG BEAR MINE
MINE RECLAMATION PLANS
SITE ACCESS MAP
SKAGIT COUNTY, WASHINGTON

APPLICANT:
CUNNINGHAM CRUSHING, INC.
PO BOX 8
HAMILTON WA 98255

APPLICATION #:

PROJECT NUMBER: 19042
DESIGNED/DRAWN BY: SIG
CHECKED BY: MK
ISSUE DATE: 08-06-20

I:\Shared\PROJECTS\19042 BIG BEAR QUARRY RECLAMATION\DWG\19042_Big_Bear_Reclamation Dwgs 8-6-20.dwg Aug 07, 2020-11:35pm

PRE-MINING TOPOGRAPHIC MAP

MARBLEMOUNT, SKAGIT COUNTY, WA

100' 0 200'
50' 100'
SCALE: 1" = 100'

LEGEND

- PERMIT BOUNDARY
- BUFFER
- SECTION LINE
- PAVEMENT EDGE
- EX. TOP OF BANK
- EX. BOTTOM OF BANK
- BUILDING
- ROADWAY/DRIVEWAY
- EXISTING CONTOUR LINE

EXISTING SURVEY DATA:

TOPOGRAPHY LIDAR DATA COLLECTED MARCH 17TH,2016–SEPTEMBER 30TH, 2016

DATUM:

HORZ DATUM = WA STATE PLANE NORTH ZONE NAD 83 (CORS96)
VERT DATUM = NAVD 88 (GEOID03)

LEGAL DESCRIPTION:

NE1/4 NW1/4, SECTION 24, TOWNSHIP 35 NORTH, RANGE 10 EAST, W.M., LESS TR & 80FT STRIP TO CO EXC TH N SIDE OF A TRI RUN ELY 100FT & TH W SIDE OF SD TRI RUN SLY 100FT FR TH NW COR OF SD NE1/4 OF TH NW1/4 TH ENDS OF TH TWO SIDES CONNECTED WITH A DIAGONAL LI RUN NELY & SWLY 141.5FT M/L

AREA SUMMARY

SITE AREA: 38.16 ACRE

OWNERSHIP SUMMARY

1 TP#: P45543
CUNNINGHAM FAMILY TRUST
& CUNNINGHAM LAWRENCE
G TRUSTEE PARKER
ARDATH ANN TRUSTEE
PO BOX 8
HAMILTON, WA 98255

2 TP#: P45541
SIERRA PACIFIC LAND
AND TIMBER COMPANY INC
14353 MCFARLAND ROAD
MOUNT VERNON, WA 98273

3 TP#: P128574
ASHENFELTER KEVIN EDMUND
& ASHENFELTER SUSAN DEE
PO BOX 249
MARBLEMOUNT, WA 98267

4 TP#: P120304
ASHENFELTER KEVIN EDMUND & ASHENFELTER SUSAN DEE
PO BOX 249
MARBLEMOUNT, WA 98267

5 TP#: P45550
ASHENFELTER KEVIN EDMUND & ASHENFELTER SUSAN DEE
PO BOX 249
MARBLEMOUNT, WA 98267

6 TP#: P45548
SIERRA PACIFIC LAND AND TIMBER COMPANY INC
14353 MCFARLAND ROAD
MOUNT VERNON, WA 98273

7 TP#: P45546
STATE OF WASHINGTON PARKS & RECREATION
1111 ISRAEL ROAD SW
OLYMPIA, WA 98504

8 TP#: P45547
GIFFORD LEON T
PO BOX 33
MARBLEMOUNT, WA 98267

9 TP#: P45273
BYARS JEAN I
240 E ARELLEM RD
UNION, WA 98592

10 TP#: P45305
LOPES CHRIS P
PO BOX 59941
RENTON, WA 98058

11 TP#: P45307
CITY OF SEATTLE CITY LIGHT DEPT
ATTN SEATTLE CITY LIGHT
700 5TH AVENUE SUITE 3200 AP
PO BOX 34023
SEATTLE, WA 98124

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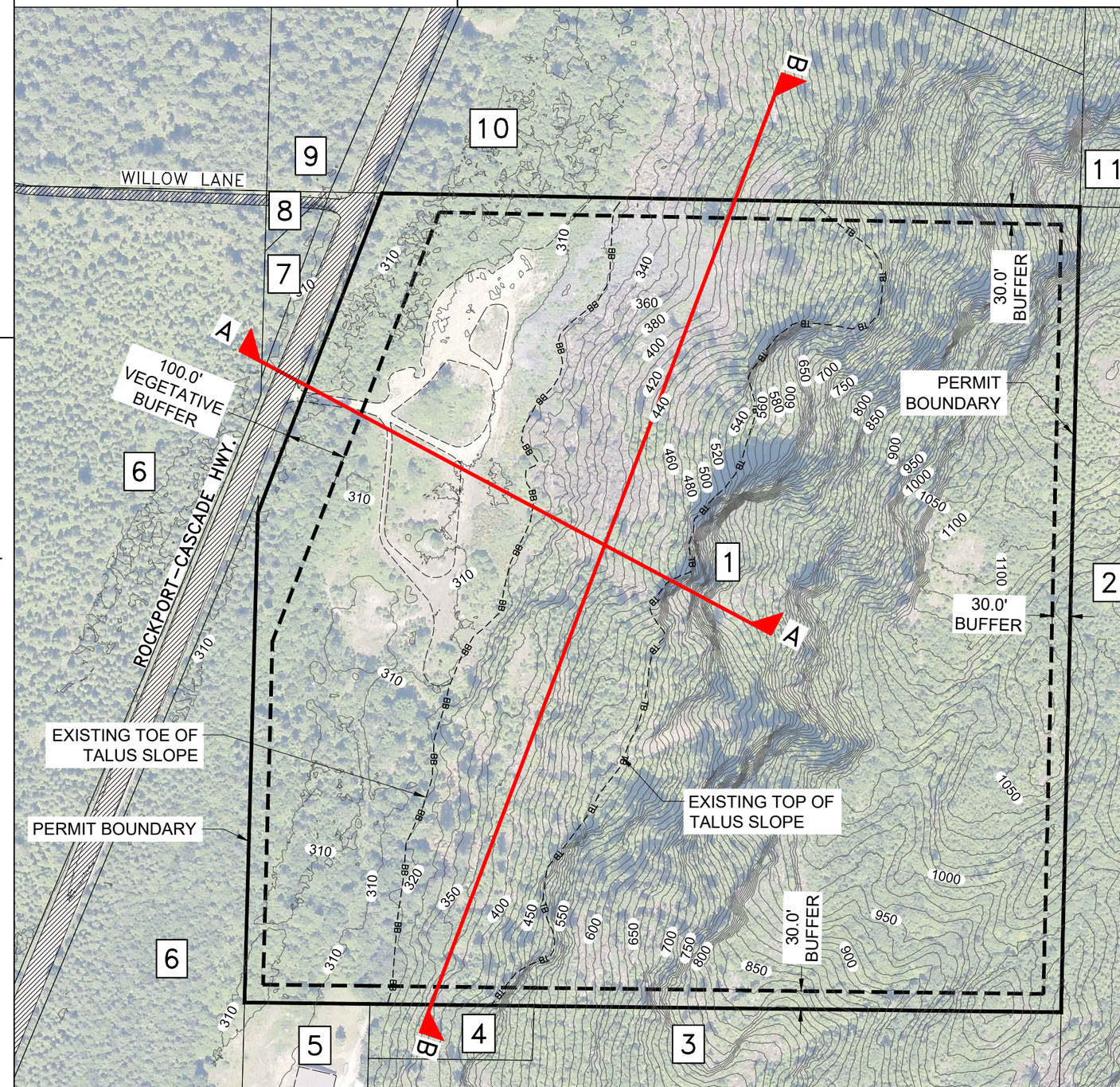

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SCOTT IAN GOODALL
STATE OF WASHINGTON
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CASCADE BIG BEAR MINE
MINE RECLAMATION PLANS
PRE-MINING TOPOGRAPHIC MAP
SKAGIT COUNTY, WASHINGTON

APPLICANT:
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RECLAMATION SEQUENCING PLAN

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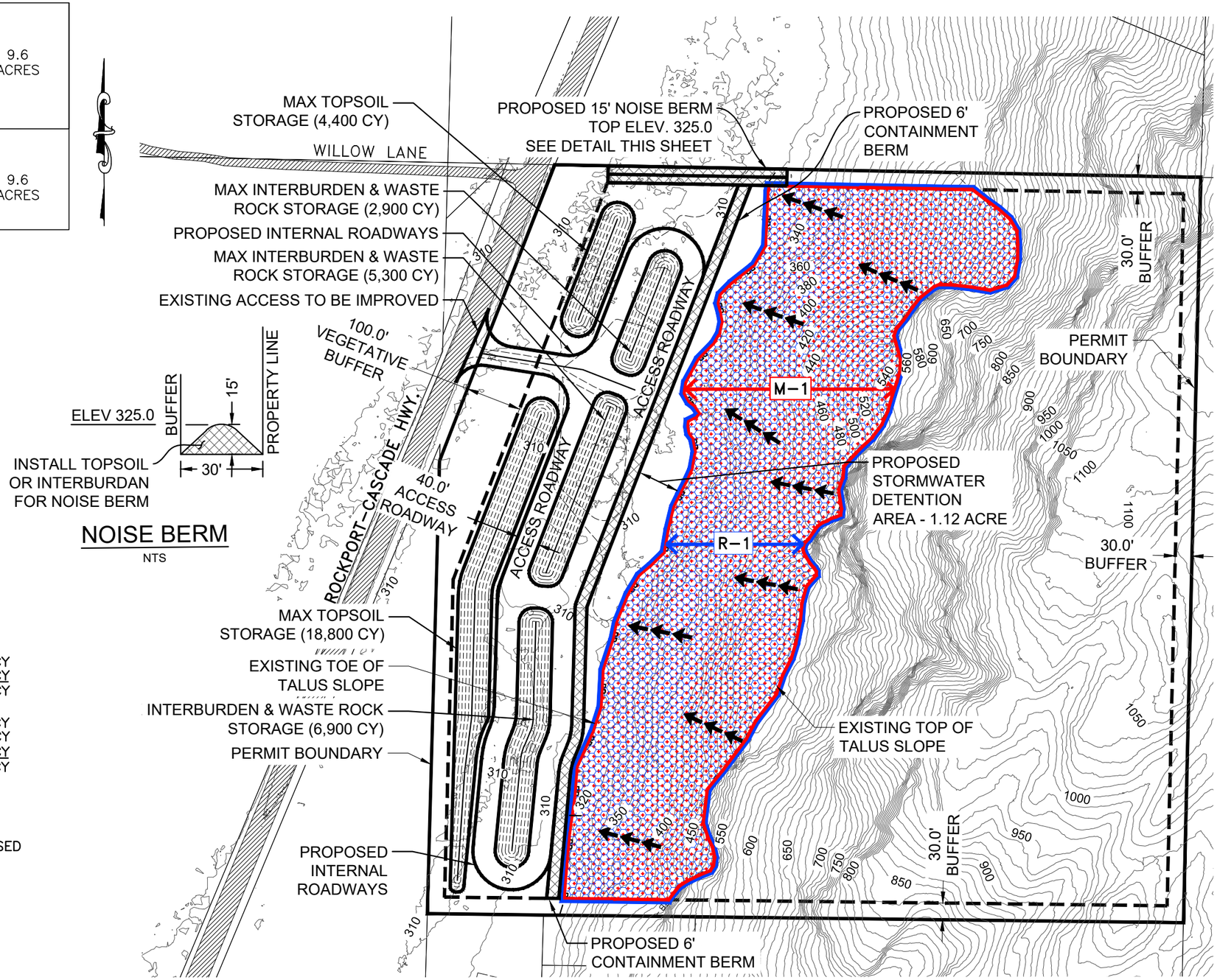
100' 0 200'
50' 100'
SCALE: 1" = 100'

MINING AND RECLAMATION PHASE SEQUENCING

PHASE	DESCRIPTION	AREA
M-1	REMOVE TALUS USING CRANE AND GRAPPLING MECHANISM. MINOR TRACKED EXCAVATION MAY BE REQUIRED. ALLOW FINES AND SMALLER ROCK TO REMAIN IN QUARRY. NO BLASTING TO OCCUR IN THIS AREA.	9.6 ACRES
R-1	RECLAIM MINE. EXISTING FINES AND TOPSOIL WILL BE INSTALLED ON MINE SURFACE TO PROVIDE FOR FOREST COVER AS A FINAL LAND USE.	9.6 ACRES

LEGEND

- PERMIT BOUNDARY
- BUFFER
- SECTION LINE
- PAVEMENT EDGE
- EX. TOP OF BANK
- EX. BOTTOM OF BANK
- ROADWAY/DRIVEWAY
- 70 EXISTING CONTOUR LINE
- MINING DIRECTION



NOISE BERM
NTS

TOPSOIL VOLUME ANALYSIS

MAX ONSITE TOPSOIL STOCKPILE:	4,400 CY
	+18,800 CY
TOTAL:	23,200 CY
MAX WASTE ROCK & OVERBURDEN:	2,900 CY
	5,300 CY
	+6,900 CY
TOTAL:	15,100 CY

RECLAMATION TOPSOIL REQUIRED:
9.6 ACRE x 1.5 FT = 23,200 CY
(ONSITE TOPSOIL)
ADDITIONAL TOPSOIL IMPORT MAY BE REQUIRED BASED ON VOLUME EXTRACTED FROM MINING OPERATIONS

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STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
8-6-20

CASCADE BIG BEAR MINE
MINE RECLAMATION PLANS
RECLAMATION SEQUENCING MAP
SKAGIT COUNTY, WASHINGTON

APPLICANT:
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EXISTING CONTOURS

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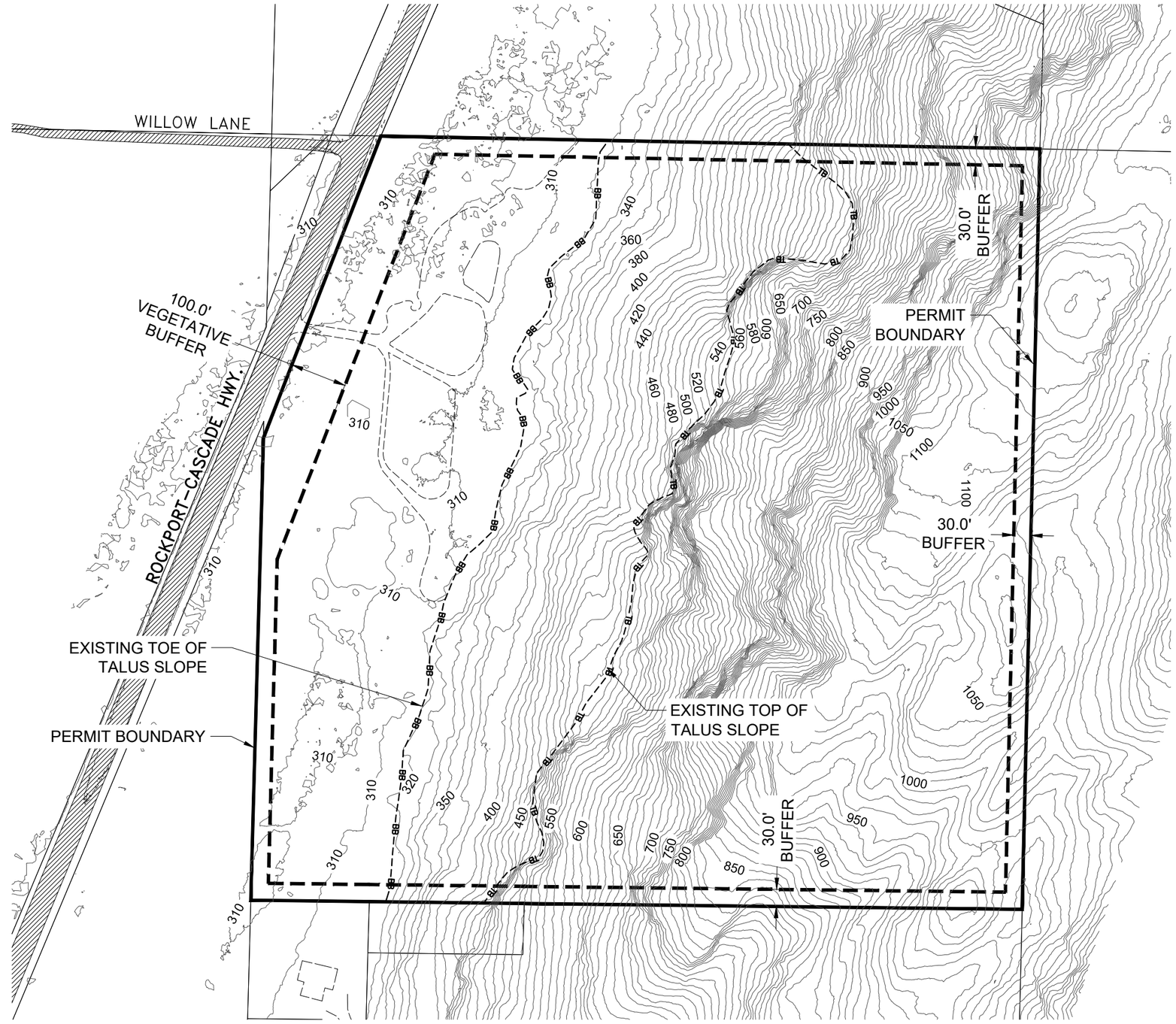

LEGEND

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- BUFFER
- SECTION LINE
- PAVEMENT EDGE
- EX. TOP OF BANK
- EX. BOTTOM OF BANK
- BUILDING
- ROADWAY/DRIVEWAY
- 70 EXISTING CONTOUR LINE

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SCOTT IAN GOODWIN
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
8-6-20

CASCADE-BIG BEAR MINE
MINE RECLAMATION PLANS
EXISTING CONTOURS
SKAGIT COUNTY, WASHINGTON

APPLICANT:
CUNNINGHAM CRUSHING, INC.
PO BOX 8
HAMILTON WA 98255

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MINING LIMITS

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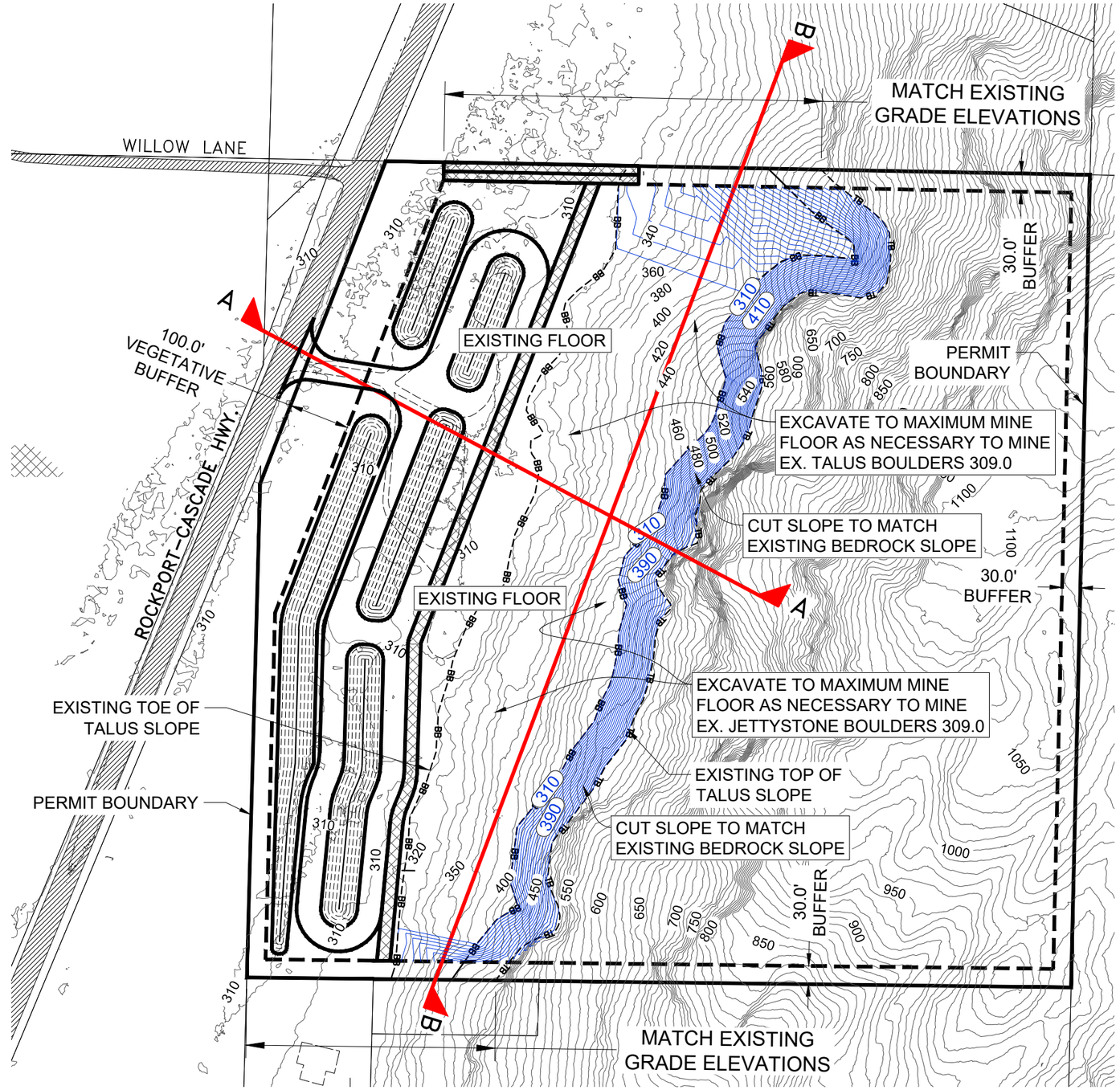

100' 0 200'
50' 100'
SCALE: 1" = 100'

LEGEND

- PERMIT BOUNDARY
- BUFFER
- SECTION LINE
- PAVEMENT EDGE
- EX. TOP OF BANK
- EX. BOTTOM OF BANK
- PR. TOP OF BANK
- PR. BOTTOM OF BANK
- BUILDING
- ROADWAY/DRIVEWAY
- EXISTING CONTOUR LINE
- PROPOSED CONTOUR LINE

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CASCADE BIG BEAR MINE
MINE RECLAMATION PLANS
M-1 MINING DETAILS
SKAGIT COUNTY, WASHINGTON

APPLICANT:
CUNNINGHAM CRUSHING, INC.
PO BOX 8
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FINAL RECLAMATION PLAN

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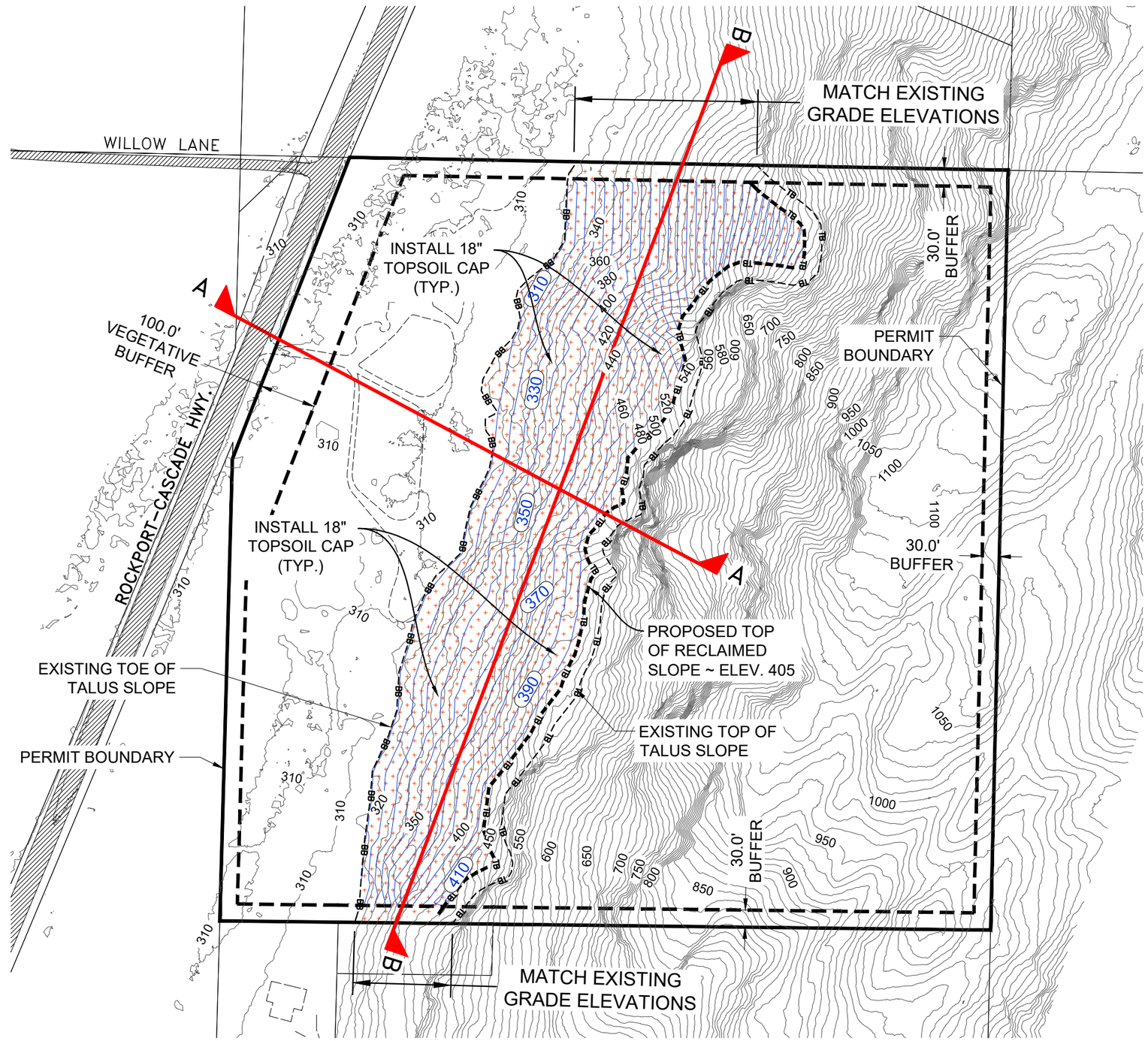
100' 0 200'
50' 100'
SCALE: 1" = 100'



LEGEND

- PERMIT BOUNDARY
- BUFFER
- SECTION LINE
- PAVEMENT EDGE
- ROADWAY/DRIVEWAY
- 70 EXISTING CONTOUR LINE
- 70 PROPOSED CONTOUR LINE
- PROPOSED TOPSOIL CAP

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8-6-20

CASCADE BIG BEAR MINE
MINE RECLAMATION PLANS
FINAL RECLAMATION PLAN
SKAGIT COUNTY, WASHINGTON

APPLICANT:
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CROSSECTIONS

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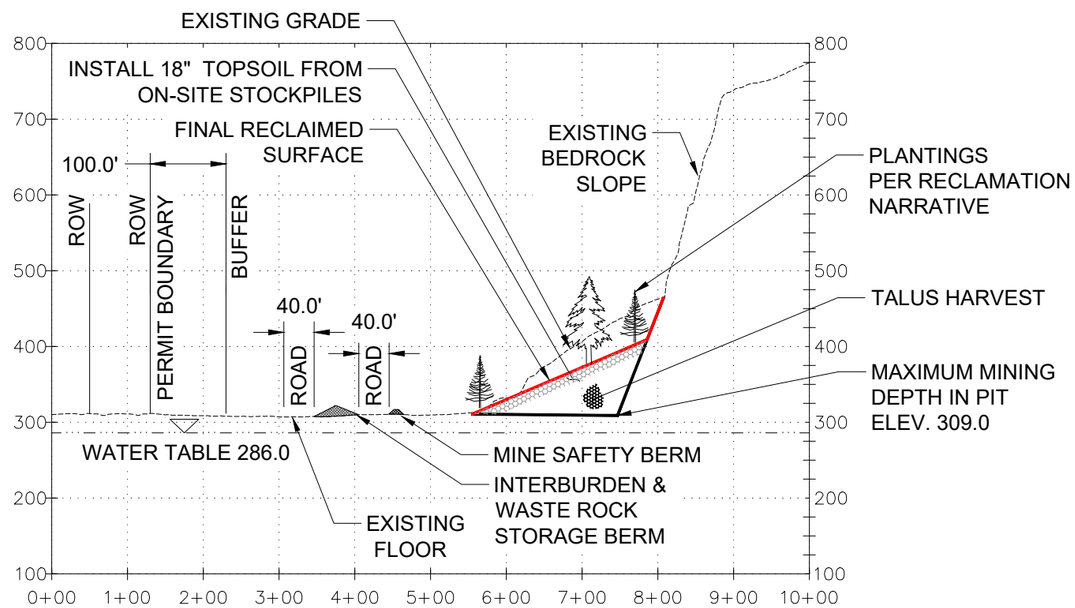
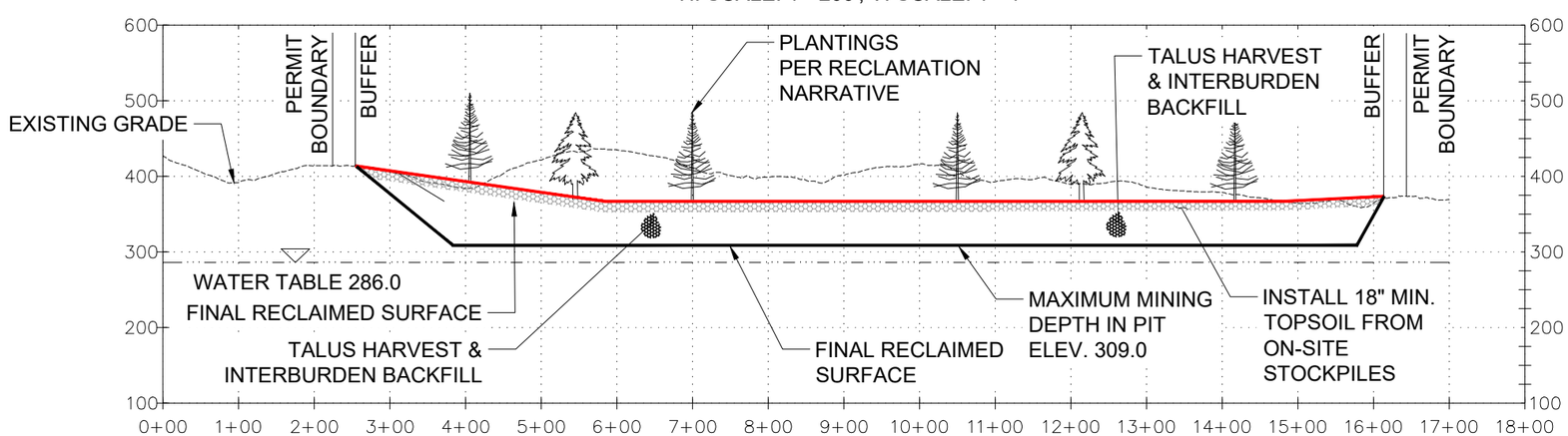


SECTION A-A

H. SCALE: 1"=200', V. SCALE: 1"=1'



SECTION B-B

H. SCALE: 1"=200', V. SCALE: 1"=1'

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8-6-20

CASCADE BIG BEAR MINE
MINE RECLAMATION PLANS
CROSSECTIONS
SKAGIT COUNTY, WASHINGTON

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