

Peninsular
CROSS SECTION BOOK
CB 802

2019.02.01 HSIP SEWARD HWY ROCKFALL MITIGATION

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1-16-19

2-8-19



2-13-19



2-16-19



4/27/19

4/28/19



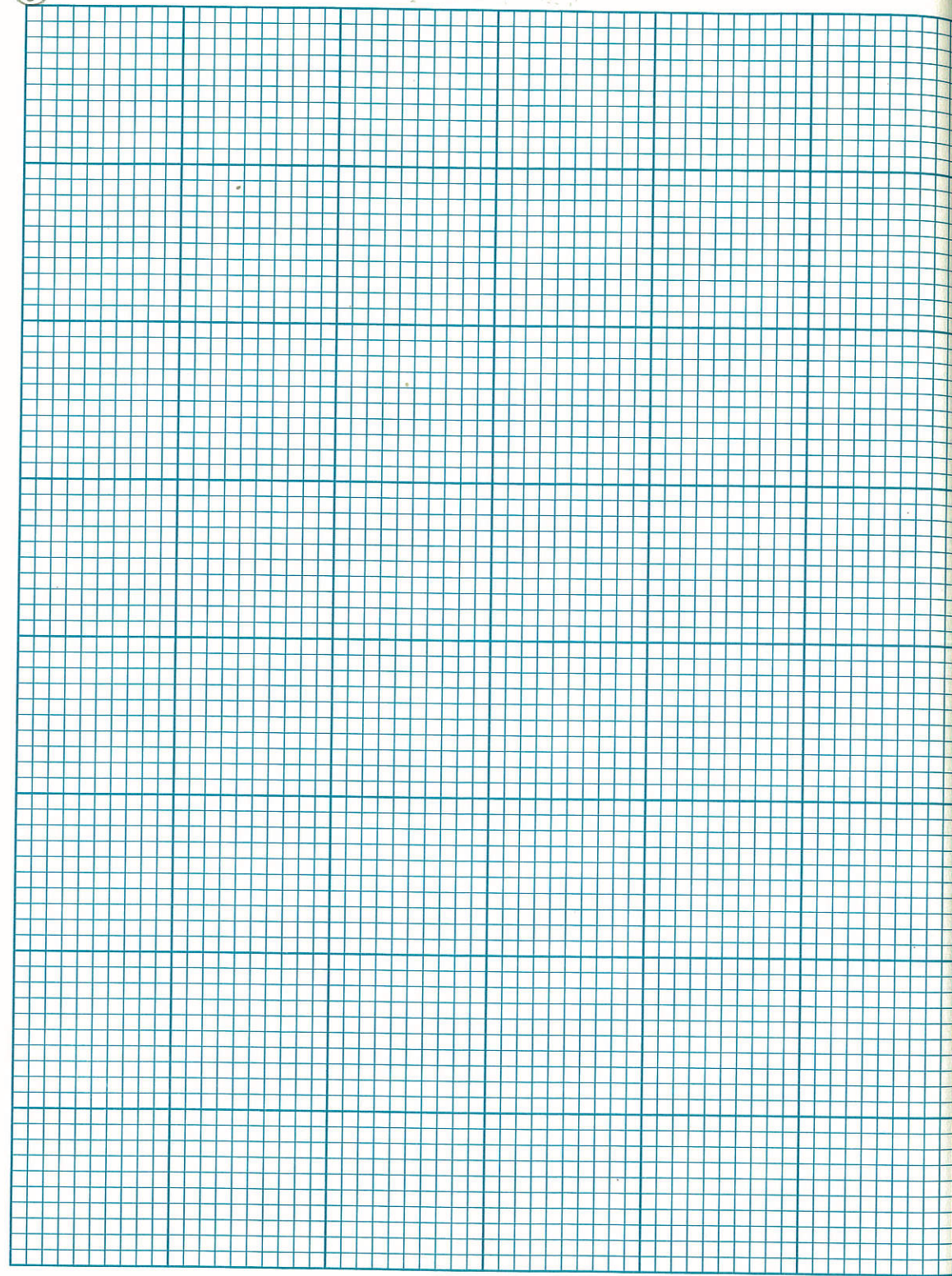
NOTES:

PROJECT ESTABLISHES X, Y, Z ON IDENTIFIABLE FEATURES ON SELECT ROCK FACES ON THE SEWARD HWY

CONTROL BASED ON SEWARD HWY ROW STUDY SC0, 2014-32, ANCHORAGE RECORDING DISTRICT. HORIZONTAL DATUM IS NAD83(2007) - NOT THE USUAL NAD83(92) BOWL 2000 SYSTEM.

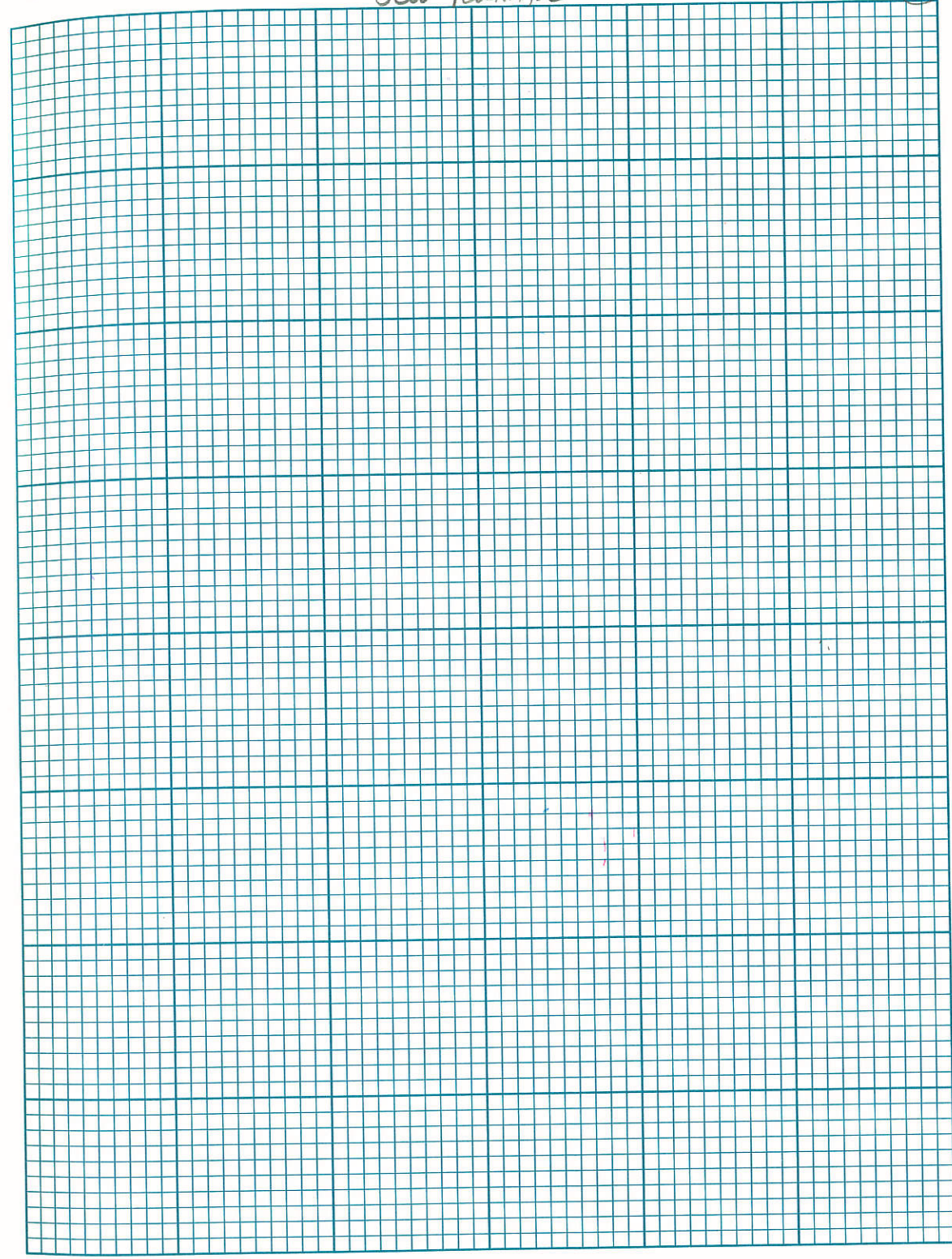
ELEVATIONS FOR THIS PROJECT ARE RELATIVE

3



SON ROCKEAL

3



MP 104.7

14A #86 4.15
 ROCK BASE CP-86 1.265m / /

14B 401 SET MAGNAIL 6.562/2m
 RTK 402 SET STAKE
 ROVER 5001 CHK/87
R/BS BS DESC

H11/11R

401 / 86

H11 5.54'

301 HD 336.75' BS 5.53'

HIGH ROCK POINT

302 SET MAGNAIL IN ROCK SCAR

402 / 86

H11 5.45'

HD 579.47'

303 BASE OF METAL POST

304 CENTER OF WHITE MINERALIZATION

305 HIGH ROCK POINT

306 BOTTOM OF SLURRY SCAR

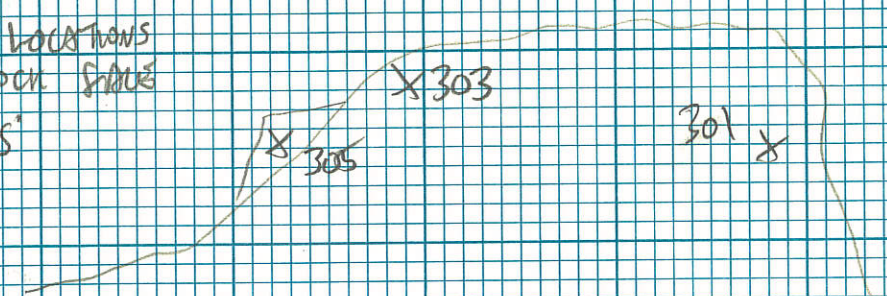
$\pm 35^\circ$
 CUDY

1-16-19
 TEST

LEICA GPS "VIVA"
 CS/GS 14
 LEICA TS 15 GUN 15

MP 104.7

APPROX LOCATIONS
 ON ROCK FACE
 "NTS"



X306 X304 X302

STEWART HWY

TO ANC
 $\leftarrow$

TO GROUND
 $\rightarrow$

MP 109.1

11 RETN BASE #112 Cp-112 4.87' 10:02A / USED ALL DAY THIS DAY

12 RETN RIVER 5005 CHK/113 6.562 SET SPIKE

TR/BS SS DESC HI/HR

413 / 411 HI 5.62'

311 MID 417.12' BS 5.87
312 TOP OF SLURRY SCAR SS 0
MIDDLE OF SMALL DISCOLORED SHELF ↓

412 / 413 HI 5.44

313 MID 255.90' BS 5.62
314 "LEFT POINT" ON HIGH ROCK SS 0
BOTTOM OF WHITE MINERALIZATION STRIPE ↓

± 30°
P CUR

2-8-19
TEST
SANTIAGO

USLO GRS "VIVA"
CS/GS 155
USLO TS 15 GUN 14

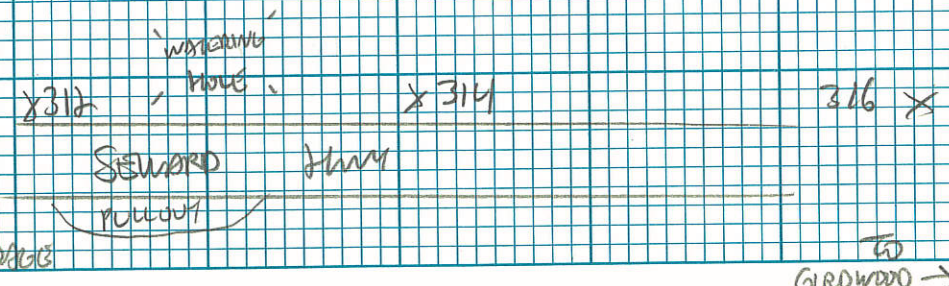
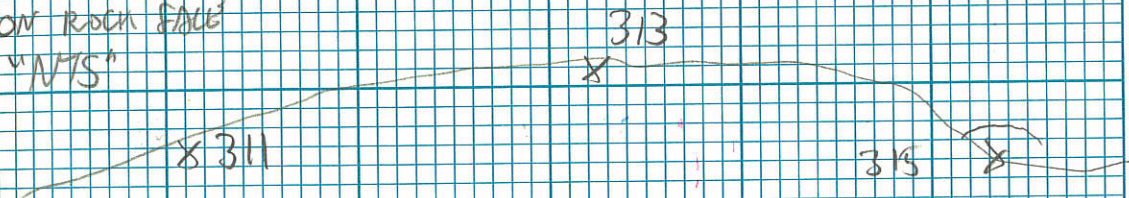
MP 109.1

HI 5.87'

411 / 413 MID 417.11

315 HIGH ROCK POINT CENTER OF
316 EROSION
WHITE DOT CENTER

APPROX LOCATIONS
ON ROCK FACE
"NTS"



MP 109.4

SEE PG 5 FOR RTK BASE INFO

12	421	SET MAG NAIL	6.562'
	422	↓	↓
RTK ROCK	423		

<u>R/BS</u>	<u>FS</u>	<u>DESE</u>	<u>HI/HR</u>
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423	113		HI 5.40'
		HI 1366.05'	BS 5.76'

321	HIGH TAN ROCK POINT	FS 0-
-----	---------------------	-------

322	BOTTOM "UPSIDEDOWN" ROCK POINT	↓
-----	--------------------------------	---

422	113		HI 5.55'
-----	-----	--	----------

HI 1402.35'

323	HIGH ROCK POINT	FS 0-
-----	-----------------	-------

324	MAG NAIL SET IN ROCK SCAR	↓
-----	---------------------------	---

SAME

2-8-19
CONT'D

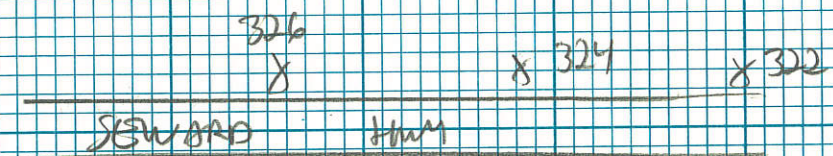
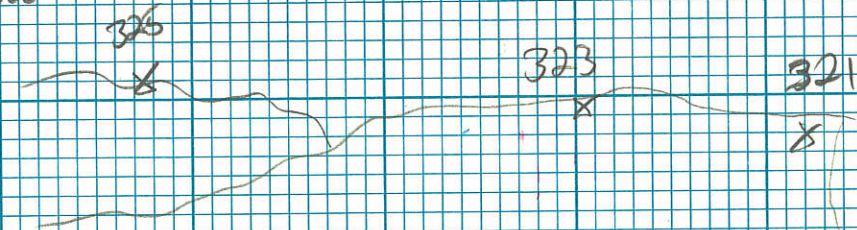
MP 109.4

421	113		HI 5.46'
		HI 1319.97'	FS 0

325	CENTER OF HIGH "THUMB" TIP	FS 0
-----	----------------------------	------

326	CENTER OF WHITE DOT	
-----	---------------------	--

APPROX LOCATIONS
ON ROCK FACE
"NTS"



TO ANCHORAGE
←

TO GIRARD
→

⑦ UNIT π DESC ft/m

MP 109.6

SEE PG. 5 FOR RTK BASE INFO

12	431	SET MAG NAIL	6.562'
RTK ROVER	432	↓	↓
	433		
	5006	CHK/114	

432 NOT USED

K/BS FS DESC HT/HR

431 / 114 HT 5.53'

331 RIGHT TIP OF HIGH ROCK OUTCROP HD 1227.86' BS 5.0

332 CENTER OF WHITE DOT FS 0-

333 HOLE AND NATURAL DRAINAGE FROM ROCK FACE (DOWN LOW) HT 5.42

433 / 431 HD 298.16' BS 5.49

334 CENTER OF WHITE DOT FS 0-

335 HIGH TAN ROCK POINT ↓

336 CENTER OF HIGH WHITE DOT ↓

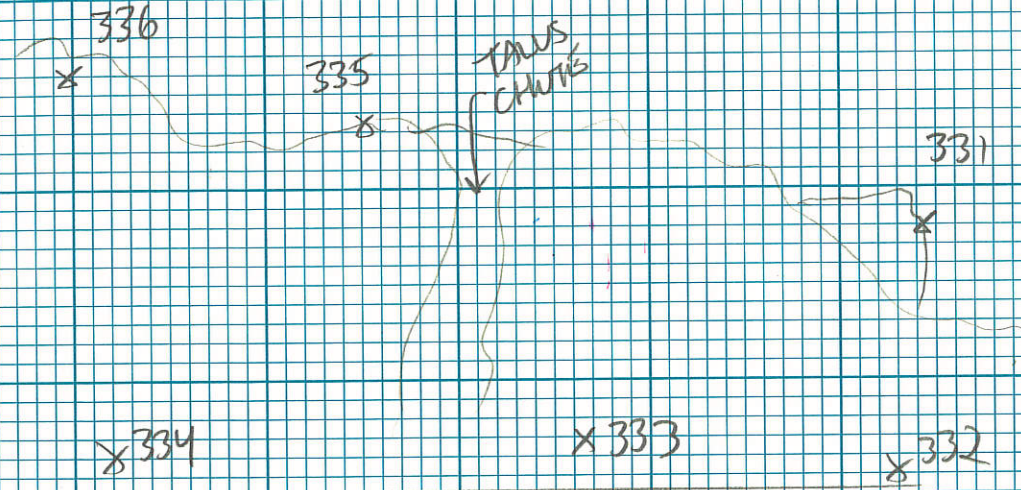
SEW ROCKABU ⑦

SAME

2-8-19
CONT'D

MP 109.6

APPROX LOCATIONS
ON ROCK FACE
"NTS"



MP 110.5

141A

RTK
BOOK

#118

CP-118
5th RBR MOPC

4134'

1.322m

141B

RTK
POWER

7/BS

~~441~~

~~443~~

#5010

441
442
443

FS

CHK/119

SLP SET MAGNAIL

↓

DESC

6.562'

↓

HI/118

HI 5.45'

BS 5.44'

FS 0 -

↓

HI 5.55'

BS 5.45'

FS 0 -

↓

311 HIGH ROCK POINT

312 LOW ROCK POINT

~~442~~

~~441~~

343 HIGH ROCK POINT

344 MAGNAIL SET IN ROCK SCAR

HI 245.17'

± 20°

M CLOM/FURNIES/BRISZY

LEICA GPS "LIVIA"

CS/GS 141

LEICA TS15 GUNTS

2-13-19

TEST

MP 110.5

HI 5.50'

~~443~~

~~441~~

HI 353.80'

BS 5.45'

FS 0 -

345 HIGH JAGGED ROCK POINT

346 "UPSIDE DOWN" ROCK POINT

↓

APPROXIMATE LOCATIONS
ON ROCK FACE

"NTS"

x346 x345 x343 x341

x344

x342

SEWARD

HWM

TO
ANCHORAGE
←

TO GIRDWOOD
→

MP 111.3

14A
RTK
BASE

#122
CP-122

4.03'
1.229m

14B
RTK
ROCK

5011
451
452

CHK/121
SCP SET MAGNAIL
↓

8562
↓

1/BS

FS

DESC

HI/HR

122
121

351

"MIDDLE" HIGH ROCK POINT

HD 838.15

BS 5.94'
FS 0-

352

TOP OF OLD BROWN DRAINAGE
STAIN
↓

HI 5.47'

451
121

HD 975.96'

BS 5.94'
FS 0-

353

UPPER RIGHT CORNER OF
HIGH ROCK OUTCROP

354

CENTER OF WHITE DOT
↓

SAME

2-13-19
CONT'D

MP 111.3

452
122

HI 5.42'

HD 382.86' BS 5.39'

355 "SHARP" HIGH ROCK POINT

FS 0-

356 RIGHT CORNER OF UPSIDE-DOWN
ROCK POINT
↓

X 355 X 353 X 351

← SHIELD →

X 356 X 354 X 352
SEWARD HAWK

TO ANCHORAGE
←

TO GIROUARD
→

MP 113.2

14A
RTK BASE

#134
CP-134

4.01
1224m

9:12A

★ SETUP
FOR WHOLE
DAY ★

14B
RTK ROVER

5015
461
462
463

6.562
2m

CHK 131
SET SET MAGNAIL
↓

1/BS

FS

DESC.

HI/HR

461
463

HI 552'

HD 325.10'

BS 552'

FS 0-

361

HIGH ROCK POINT

362

MAGNAIL SET IN BOTTOM OF
SLURRY SCAR

HI 557'

462
463

HD 180.34

BS 552

FS 0-

363

UPPER RIGHT TIP OF HIGH
ROCK OUTCROP

364

CENTER OF LOW ROCK BLUDGE

± 20"

SNOW/BLOW

LEICA GPS "VIVA"

CS/GS 14

LEICA TS15 LUN15

2-16-19

TEST

MP 113.2

463

461

HI 552

HD 325.10'

BS 568

FS 0-

365

CENTER OF HIGH ROCK SCAR

366

CENTER OF WHITE DOT

APPROX LOCATIONS
ON ROCK FACE
"NTS"

x363 x361
x365

x366

x364

x362

SEWAGE

INLET

PULLOUT

TO ANCHORAGE

TO GROUND

MP 113.6

USE P 10 FOR RTK BASE INFO

1418 471 6562' SEP SET MAGNAIL
RTK POWER 472
473 2m

π /BS BS DESC HI/HR

471 / 134 HI 5.37
HD 710.83' BS 5.37
SS 0-

371 HIGH LEFT ROCK TIP

372 LOW UPPER RIGHT ROCK TIP

472 / 134 HI 5.29

HD 453.06' BS 5.37

373 HIGH ROCK POINT

374 LOW UPPER RIGHT ROCK TIP

SAME

2-16-19
CONT'D

MP 113.6

473 / 134 HI 5.39
HD 233.80 BS 5.37
SS 0-

375 HIGH ROCK POINT

376 LOW OUTWARD ROCK POINT

APPROX LOCATIONS
ON ROCKFACE
"WTS"

x375 x373 x371

x376 x374 x372

SEWARD WIND

TO ANCHORAGE

TO GIRDWOOD

MP 113.9

SEE P. 10 FOR RTM DATA INFO

14B 481 6562' SCP SET MEASUREMENT
RTM ROUGH 482
483 2m

T/B5 FS DESC SLL/MR

481 134
HD 451.09' BS 5.37

381 HIGH RIGHT-FACING ROCK POINT FS 0-

382 LOW UPSIDE-DOWN ROCK POINT

482 134 HD 635.25' BS 5.37

383 UPPER LEFT CORNER OF HIGH ROCK OUTCROP FS 0-

384 CENTER OF WHITE DOT

SAME

2-16-19
CONT'D

MP 113.9

483 134 HD 5.26'
385 HD 834.65 BS 5.37
386

HIGH ROCK POINT FS 0-

ROCK SCAR AT BOTTOM OF SLURRY SCAR

383 385 387

386 384 382
SEWARD HWY

TO ANCHORAGE

TO GIRDWOOD

MP 106.899
556

LH 550'

LWD 273.87'

HR 519'

501

BOTTOM RIGHT CORNER OF
WHITE MINERALIZATION

○

↓

502

UPPER LGDT CORNER OF
HIGH ROCK OUTCROP

503

CENTER OF SLANTED ~1'x1' TAN
ROCK FACE

504

HIGH POINT LEFT OF DIAGONAL
" " CUT

505

TIP OF DOWNWARD ROCK POINT

506

HIGH POINT

± 40°

LUR.

LWD GPS "V100"
GS 15 GS 14 V10
WELC TS 15 GS

4.27.20

TEST

KORTZ 501

MP 106.8IDENTIFIED
BOULDER

#504

#502

#506

MINERALIZATION

#501

1'x1'
TAN FACE

#503

DOWNWARD
POINT

#505

SEWARD HIGHWAY

TO
ANC

PULLART

TO GROUND

MP 109.95

14A

#114

RTM
BASE

CP 114

14B

SCP*510

6.562'

SET SPIKE

T/B5

ES

DESC

VH/HK

510

H1 5.20'

14

H1 279.83

HK 5.45'

~~511~~
511BOTTOM RIGHT CORNER OF
FADED WHITE MINERALIZATION

O

↓

512

HIGH FORWARD FACING ROCK
POINT

513

CENTER OF ~1'x1' WHITE
MINERALIZATION

514

HIGH RIGHT CORNER OF ROCK
OUTCROP

234°E

CUR

DATA TS15 GUN 15

DATA GS/CS 14+15

4-28-20

TEST

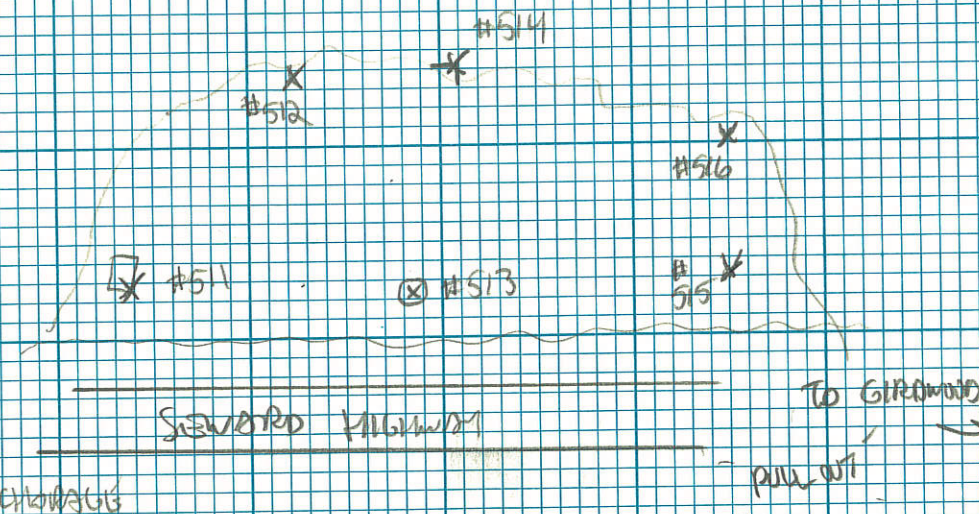
KORTZSCH

MP 109.95

515

BOTTOM TIP OF FORWARD FACING
ROCK POINTO
↓

516

BOTTOM TIP OF HIGH ROCK/
ROCK CUT

MP 110.5

14A #118

RTK BASE CP118

14B

SCP #520

SET SPIKE

6.562'

TK/BS

FS

DESC

HI/HIR

520

HI 5.28'

118

HD 542.29

BS 5.33'

521

RIGHT TIP OF ROCK INDENT



522

CENTER OF ~1'x1' ROCK FACE

523

BOTTOM RIGHT CORNER OF SPURVED
FACING ROCK OUTCROP (LOW)

524

BOTTOM RIGHT CORNER OF FORWARD
FACING ROCK OUTCROP (HIGH)

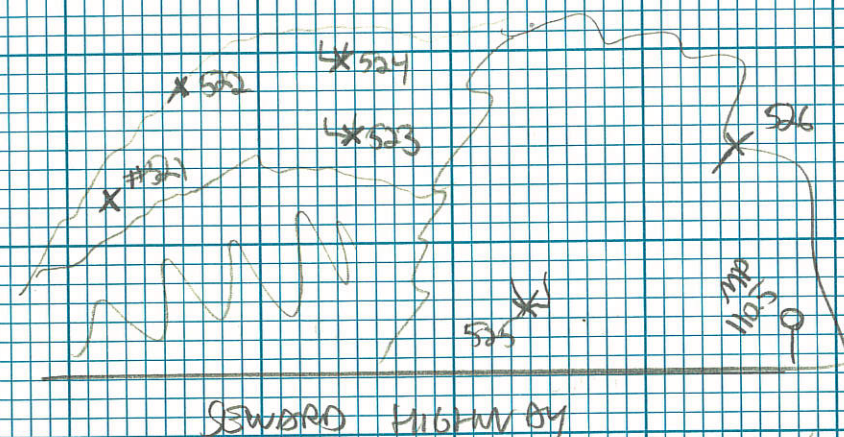
SAMS

4-28-20
CONT'DMP 110.5

525

BOTTOM LEFT CORNER OF
FORWARD FACING ROCK OUTCROP

526

UPPER RIGHT ROCK CORNER
ON FACE CRACKTO
ANCHORAGE
←TO
GROUND
→

MP 112.27

127
126

HI 5.48'

HD 858.30'

HR 5.55'

CD

531

LEFT CORNER OF LOW OUTCROP

↓

532

BOTTOM INSIDE ANGLE POINT OF
HIGH ROCK OUTCROP

533

FORWARD FACING ROCK POINT

534

UPPER RIGHT CORNER OF HIGH
ROCK OUTCROP

535

LOWER LEFT CORNER OF LOW
ROCK FACE

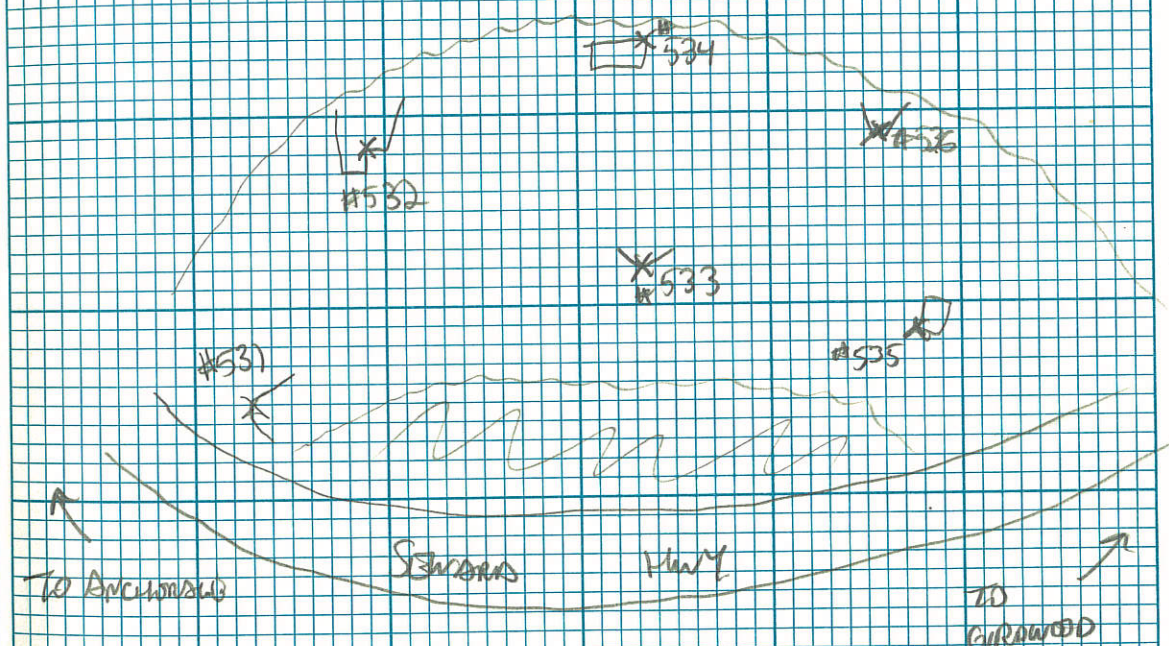
536

BOTTOM TIP OF HIGH ROCK OUTCROP

SAME

4-28-20
CAN'T

MP 112.27



(17)

SRW ROCKFALL

(17)