



Monday September 27, 2021  
CSS Site Visit  
8:30-11:30 AM  
23982 I-70 West Vail Pass Safety and Operations  
Itinerary  
Please RSVP by Monday, September 20  
Meeting location at Donovan Park

**Safety Tailgate Session at Designated Meeting location – Donovan Park 8:30-8:45AM**

1. PPE
  - a. Includes hard hat and vest
  - b. Must be worn at all times outside of vehicles
2. I-70
  - a. On the shoulder of I-70, live traffic will be moving by us
  - b. Drivers – pull all the way off I-70 and check to make sure no one followed you
    - i. When pulling back onto I-70, check for traffic before merging
  - c. Don't walk near traffic, into traffic, NO CROSSING LIVE LANES
  - d. Don't have back to traffic, always keep an eye out
3. Entering/Exiting Vehicles
  - a. On the driver's side, check traffic before opening a door to get out
  - b. Get back into the car by approaching from the front so you can see traffic
4. Slips/Trips/Falls
  - a. One of the leading causes of safety accidents
  - b. Be aware of where you are stepping
5. Trail
  - a. We will be on/next to the trail in some areas. Be aware of any riders and try to move off the trail entirely
  - b. If you do walk on the trail, please walk single file, and please always walk in the climbing lane of the path, no matter which way you're traveling





**Site Specific Talking Points**

**1) Scalloped Wall on Spruce Way – 8:55 to 9:25AM**

- a) Provide a comparison of the modern interpretation to existing
  - i) How do planting areas compare?
  - ii) Prominent nose/joint cover remains the same
- b) Review the Tier gap between walls – about 8” on Spruce Way
- c) Nearby median walls at 181 either side of bridge have an 8” tier
- d) Discuss the structural sections and review construction technique
  - i) Cut wall vs. Fill wall, median location vs. outside shoulder
- e) **Handouts:**
  - i) Modern vs. Original graphic
  - ii) Structural sections showing planting area







**2) Recreation Path - Stop at 186.2 with shoulder closure – 9:35 to 10:05AM**

- a) Discuss construction phasing and timing
  - i) New recreation path to be constructed while existing remains in service or is detoured
  - ii) Work will take place as part of CP #2 in 2022
- b) Stakes are visible across the creek
  - i) Bridge locations
  - ii) Conforming to topography as best is possible
  - iii) 10% max grades
- c) Proposed typical section
  - i) 12' wide (10' existing)
  - ii) 2' shoulders (minimal shoulders existing in some spots)
  - iii) 2' to 3' clear to wall (3' clear on longer steeper slopes)
  - iv) 1' clear to railings on bridges
- d) **Handouts:**
  - i) Rec path typical sections
  - ii) Single Plan sheet showing path across the creek with bridges

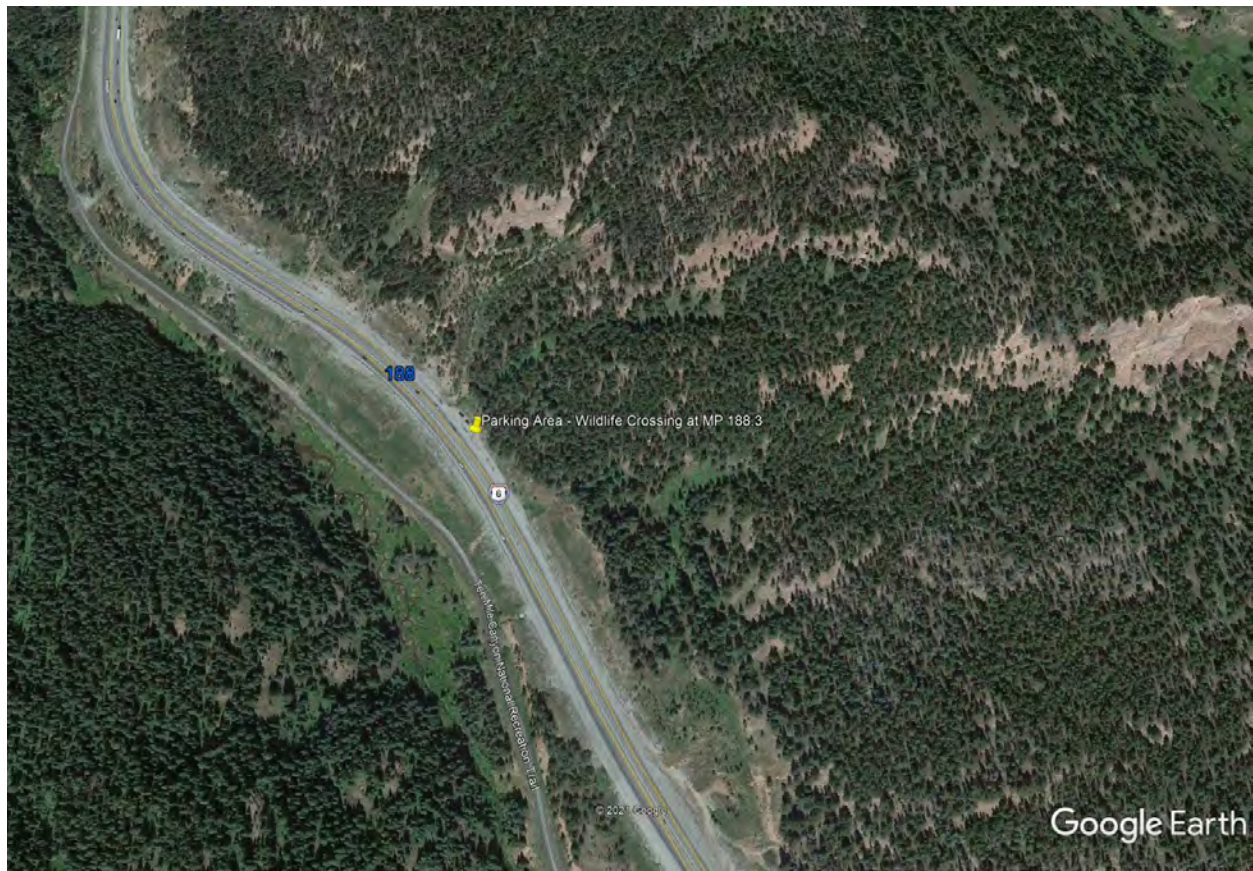






**3) Wildlife Crossing 188.3 WB – 10:15 to 10:45AM**

- a) Location of opening is staked
  - i) Underpass is 48' wide x 14' tall x 140' long
  - ii) Large underpasses will be precast concrete arch
- b) In this area deer, elk, moose and coyote have been caught on camera
- c) Review locations of:
  - i) Wildlife Fence
  - ii) Sediment Pond
  - iii) Grading and drainage
- d) Underpass construction to take place in fall of 2022, may spill into summer of 2023
  - i) Planning on constructing ½ at a time, will have shoefly detours to move traffic back & fourth
  - ii) Wildlife fence might be installed last, in 2024
- e) Overall, there are 6 wildlife underpasses
  - i) 2 large passages targeting: (48' wide x 14' tall x 140' long) +/-
    - (1) Black bear, Canada lynx, elk, moose, mountain lion, mule deer
  - ii) 4 small passages targeting: (4' diameter, 5' diameter and 5'x7' arch and 6'x8' arch) +/-
    - (1) American martin, bobcat, coyote, red-tailed fox, short-tailed weasel, small mammals, snowshoe hard, yellow-bellied marmot
- f) **Handouts:**
  - i) Site plan with structural section







**4) Bridges at MP 185 – 10:55 to 11:25AM**

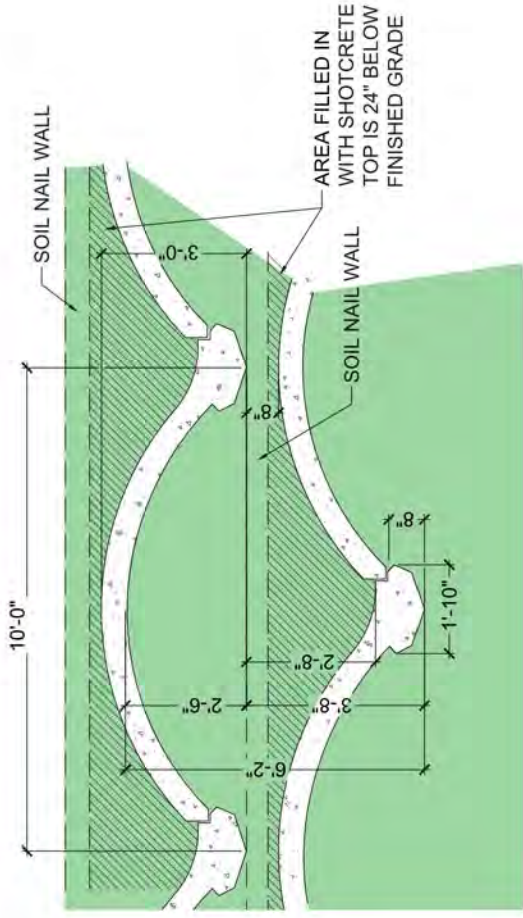
- a) Bridge alignment
  - i) Cuts into the Miller Creek Slide
  - ii) Constructing two bridges (and building WB first) moves the road/bridges much further away from Black Gore Creek
  - iii) Providing access road for sand cleanup under bridges
  - iv) Maybe some riparian restoration, but not ideal for wetland creation in this area
- b) Construction phasing and timing
  - i) Westbound bridge constructed first 2022-2023
    - (1) Traffic moved onto new structure
    - (2) Then existing WB bridge removed
  - ii) Eastbound bridge constructed second 2023-2024/25
    - (1) Then existing EB bridge removed
  - iii) Wall to remain as it buttresses the Miller Creek Slide
  - iv) Horizontal drains installed to mitigate groundwater
- c) Recreation Path
  - i) Trail relocated above F-12-AT WB bridge cut area
  - ii) Trail relocated under bridges with better radius and sight distance
- d) **Handouts**
  - i) Single sheet showing bridges, Black Gore Creek and recreation path



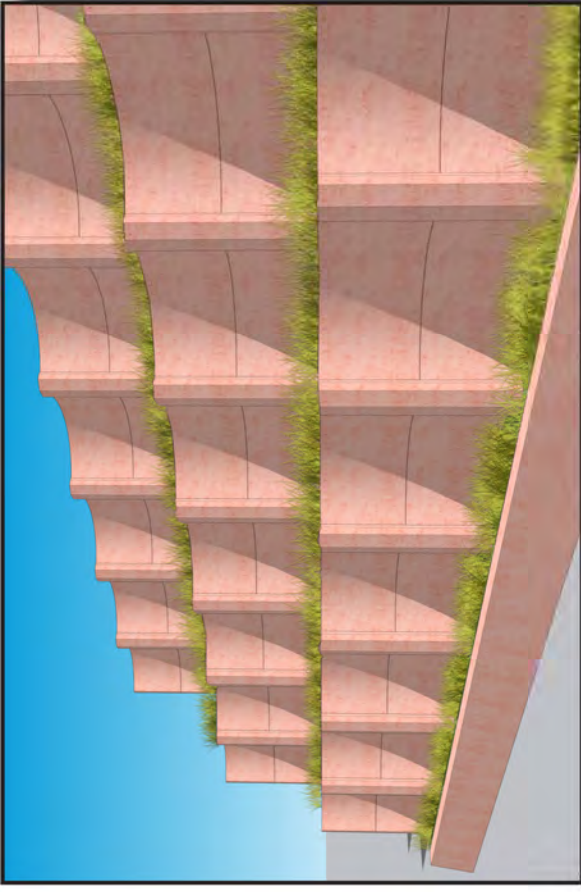


**OPTION 1**  
**MATCH EXISTING PRECAST**  
**CONCRETE CURVED PANELS**  
(8' HEIGHT - 2'-6" CURVE)

**PLAN VIEW**

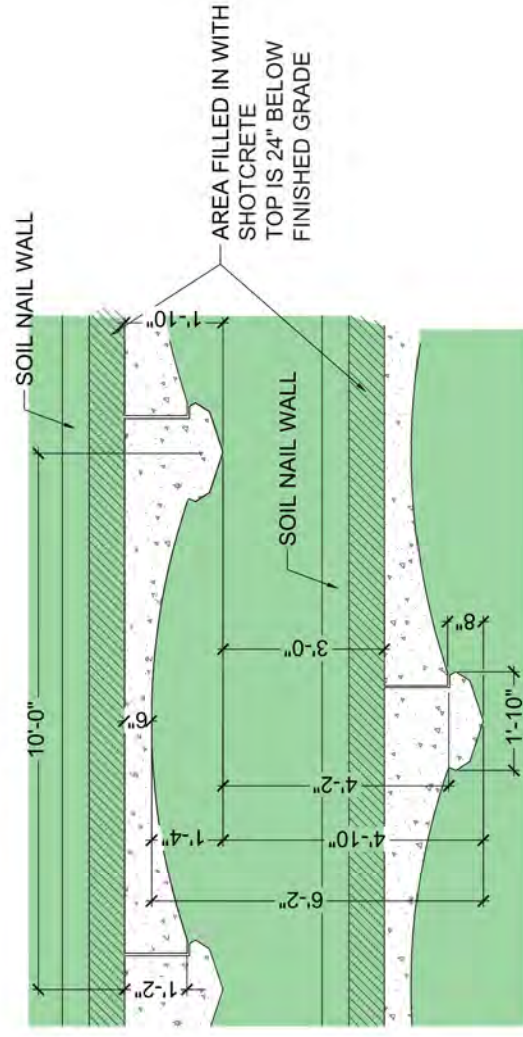


**PERSPECTIVE**

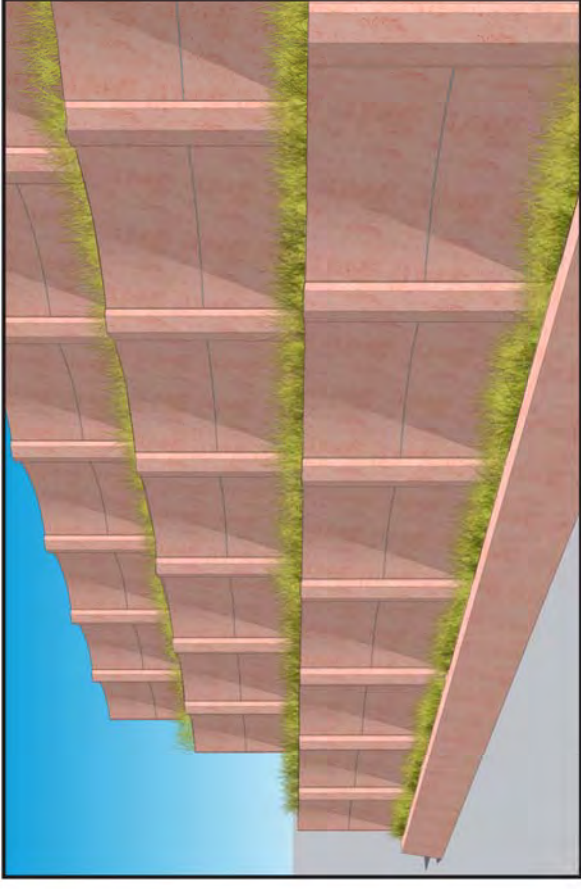


**OPTION 2**  
**MODIFIED CURVE WITH FLAT BACK**  
(8' HEIGHT - 1'-4" CURVE)

**PLAN VIEW**

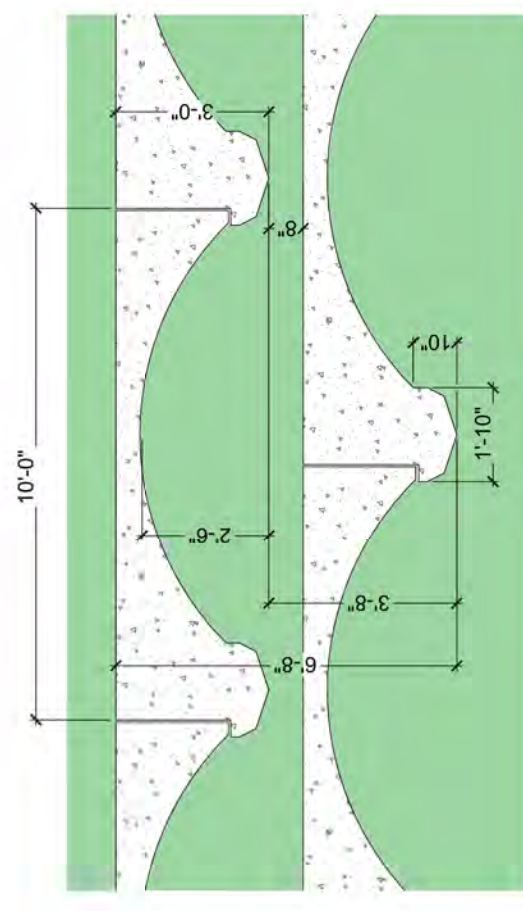


**PERSPECTIVE**

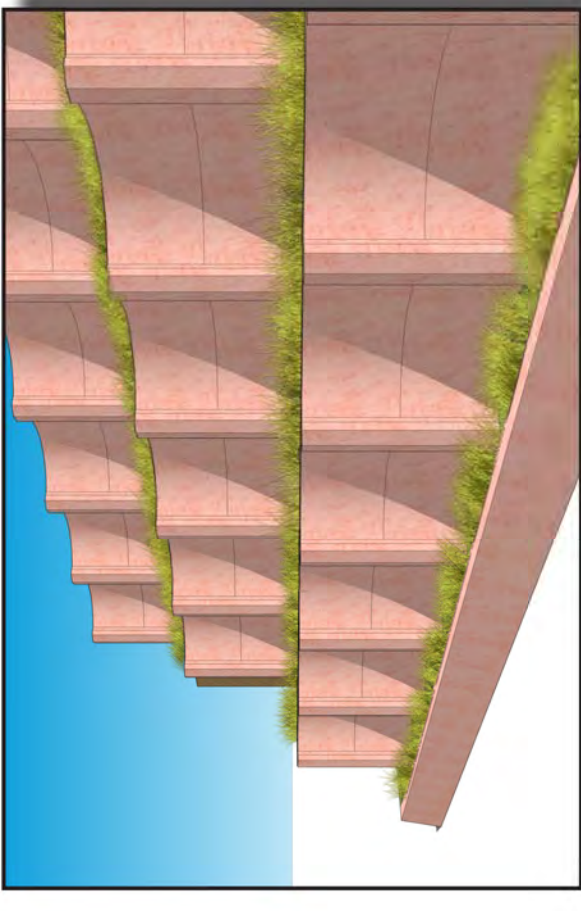


**OPTION 3**  
**SOLID FULL CURVE WITH FLAT BACK**  
(8' HEIGHT - 2'-6" CURVE)

**PLAN VIEW**



**PERSPECTIVE**



**CURVED WALL EXHIBIT**

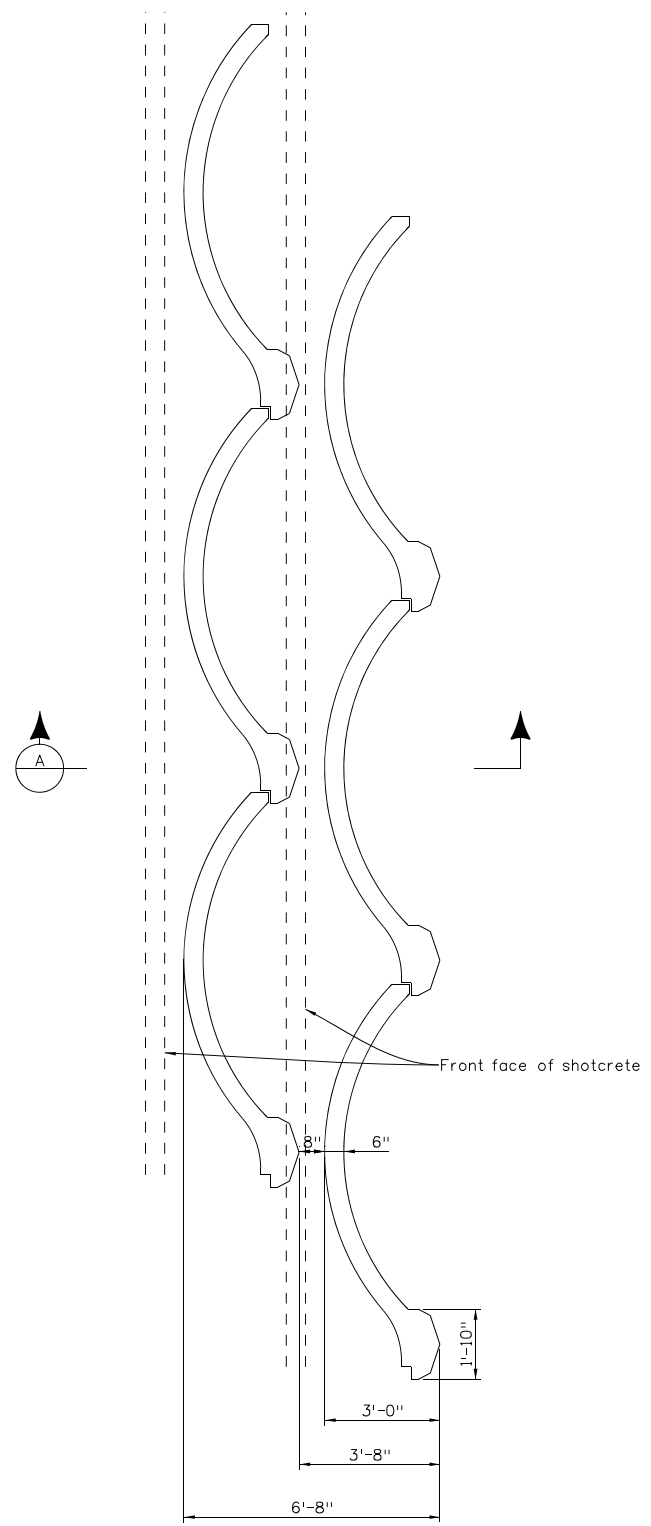


West Vail Pass  
Vail, CO

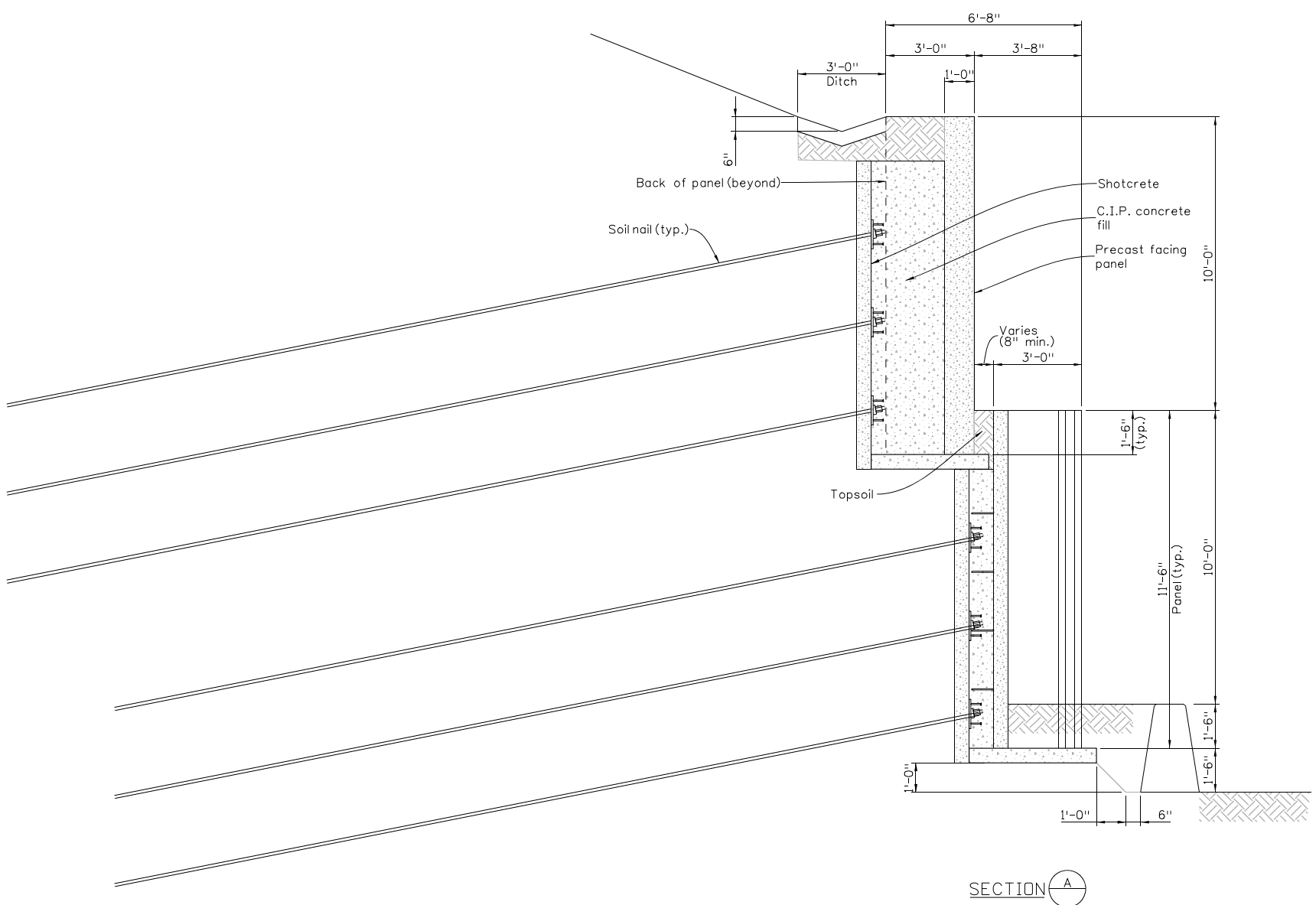
September 22, 2021



Scalloped Wall on Spruce Way – 8:55 to 9:25AM



OPTION 1 - MATCH EXISTING CURVED PANELS

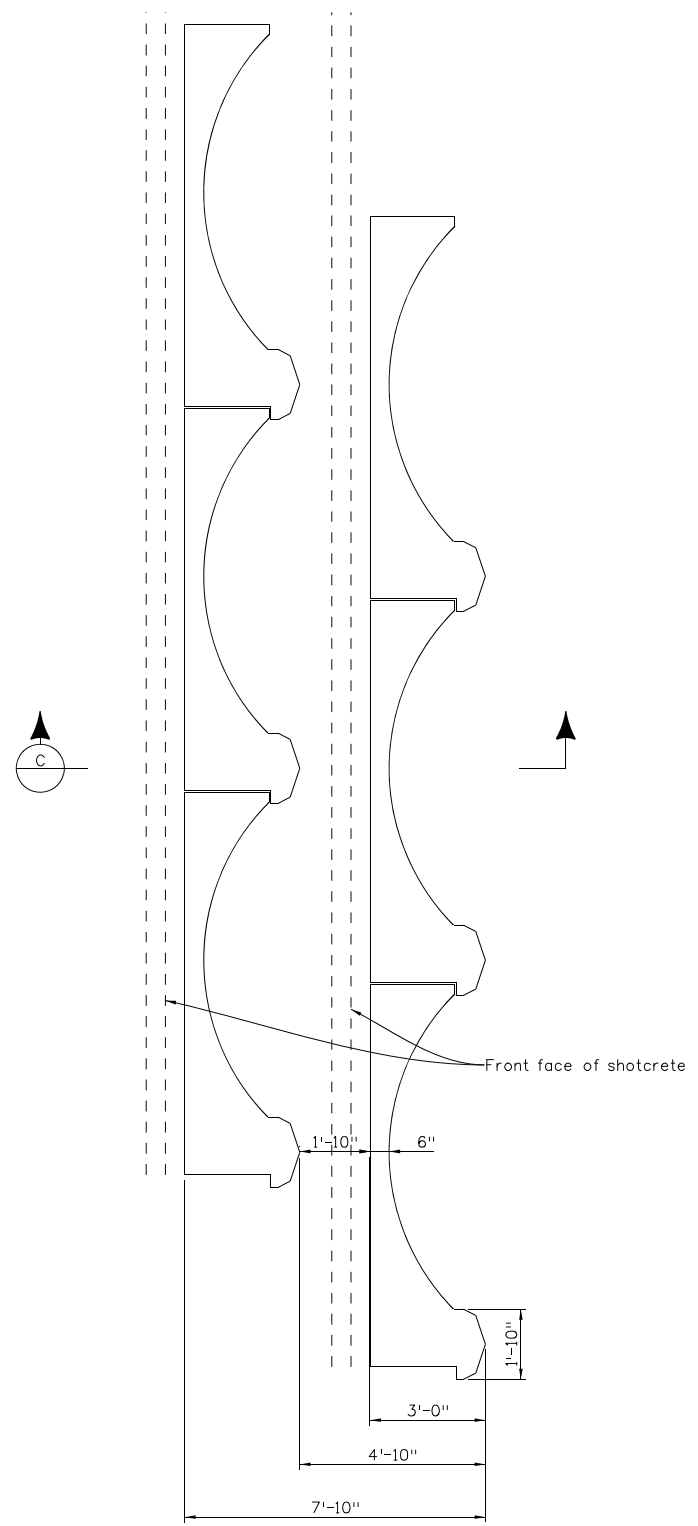




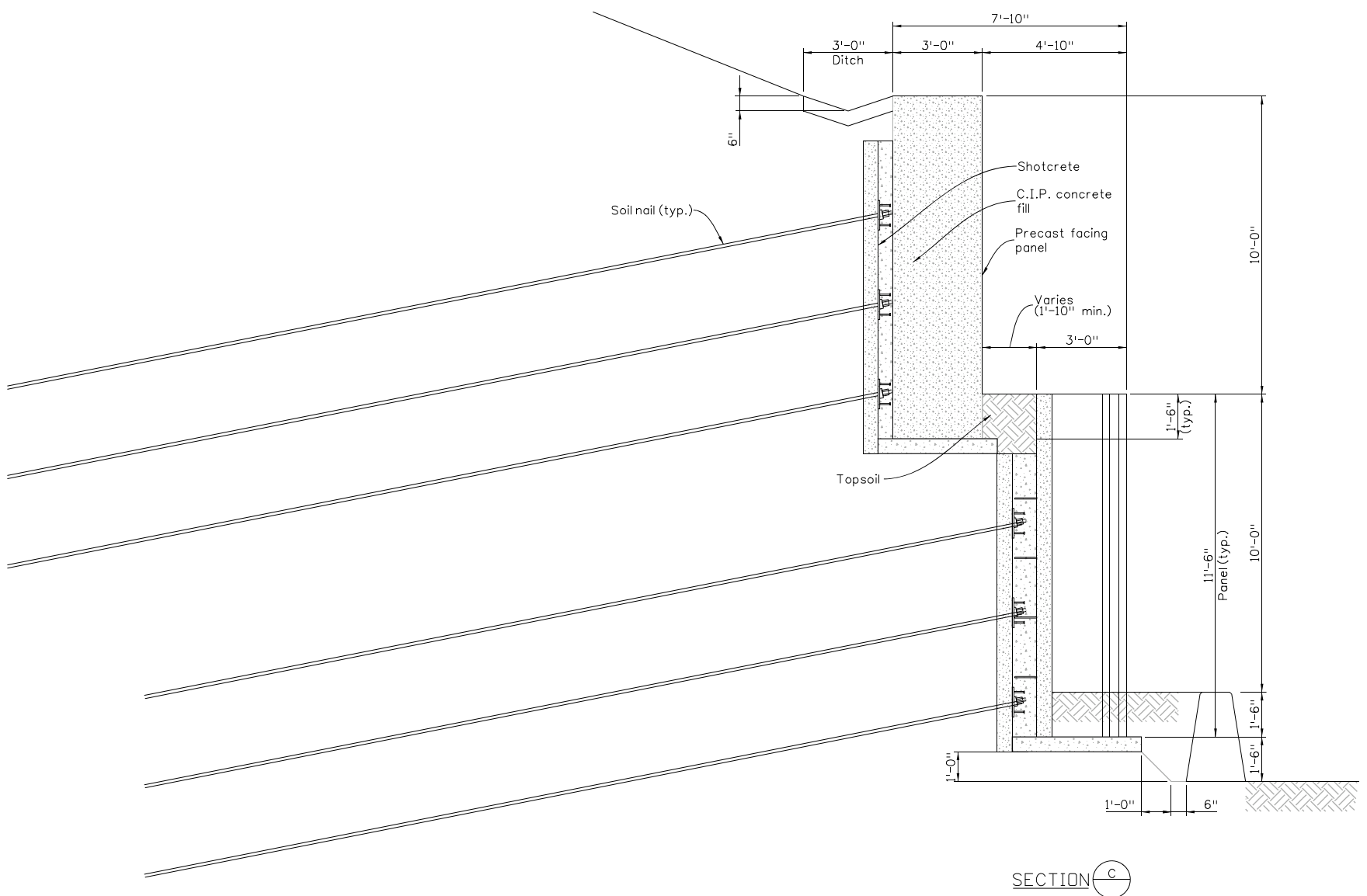




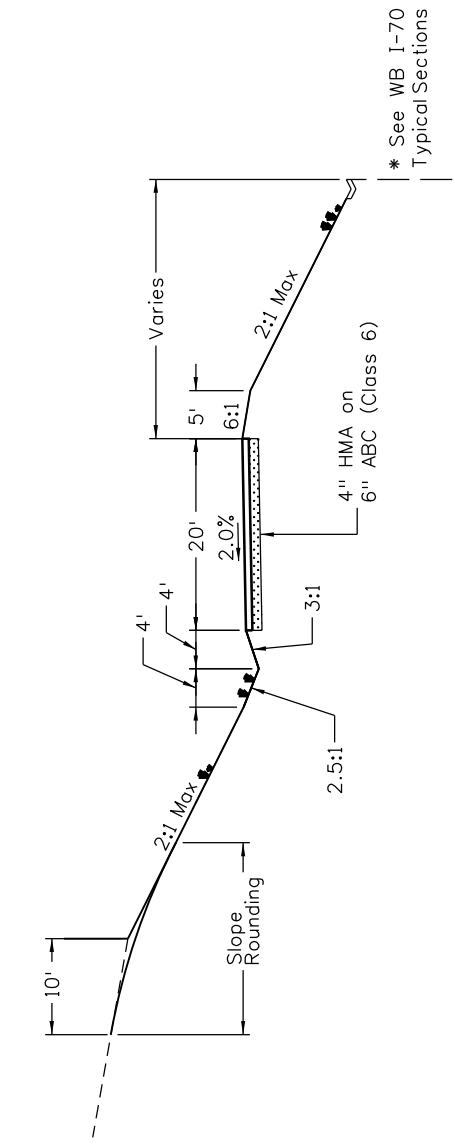
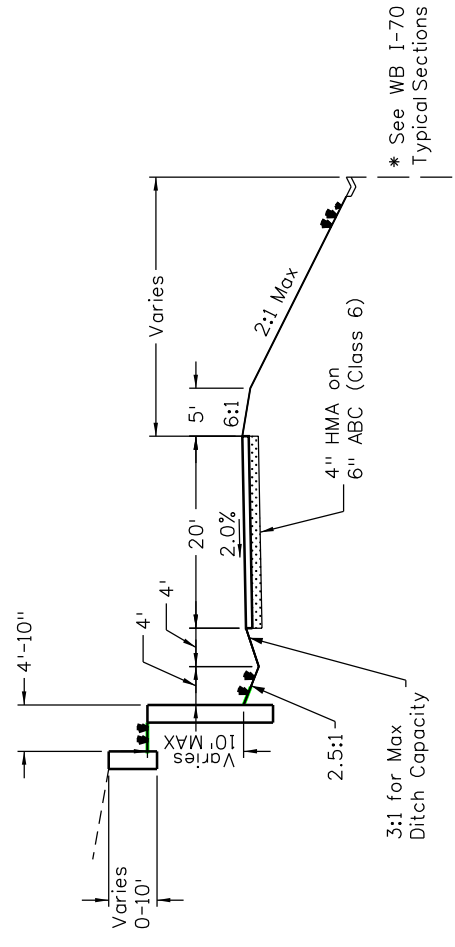
Scalloped Wall on Spruce Way – 8:55 to 9:25AM



OPTION 3 - EXISTING CURVE WITH FLAT BACK



Recreation Path - Stop at 186.2 with shoulder closure - 9:35 to 10:05AM

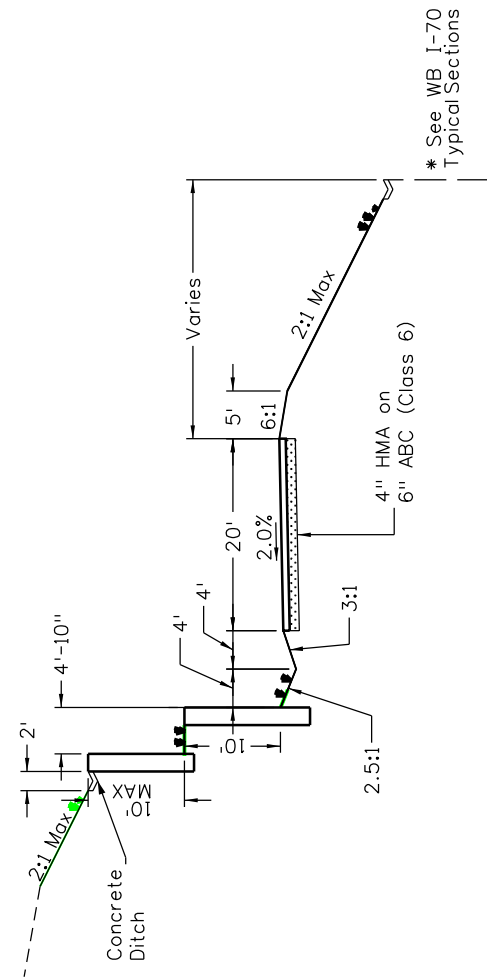


**US 6 TRAIL (REALIGNMENT)**

STA. 310+50.00 TO STA. 319+26.00  
 STA. 322+32.00 TO STA. 323+00.00

**US 6 TRAIL (REALIGNMENT)**

STA. 319+26.00 TO STA. 320+76.00  
 STA. 321+08.00 TO STA. 322+32.00



**US 6 TRAIL (REALIGNMENT)**

STA. 320+76.00 TO STA. 321+08.00

Print Date: 9/14/2021

File Name: 23982DES\_001-TypSection-SHT.dgn

Horiz. Scale: 1:20 Vert. Scale: As Noted

Unit Information Unit Leader Initials



**Sheet Revisions**

Date:	Comments	Init.

**Colorado Department of Transportation**

714 Grand Avenue, P.O. Box 298  
 Eagle, CO 81631  
 Phone: 970-328-6385  
 FAX: 970-328-2368



Region 3

KMB

**As Constructed**

No Revisions:

Revised:

Void:

**WEST VAIL PASS TRAIL RECONSTRUCTION TYPICAL SECTIONS**

Designer: B. Hearn  
 Detailer: L. McKinnon

Sheet Subset: TS  
 Sheet No.: 6 of 6  
 Subset Sheets: 6 of 6

**Project No./Code**

NHPP 0702-410

23982

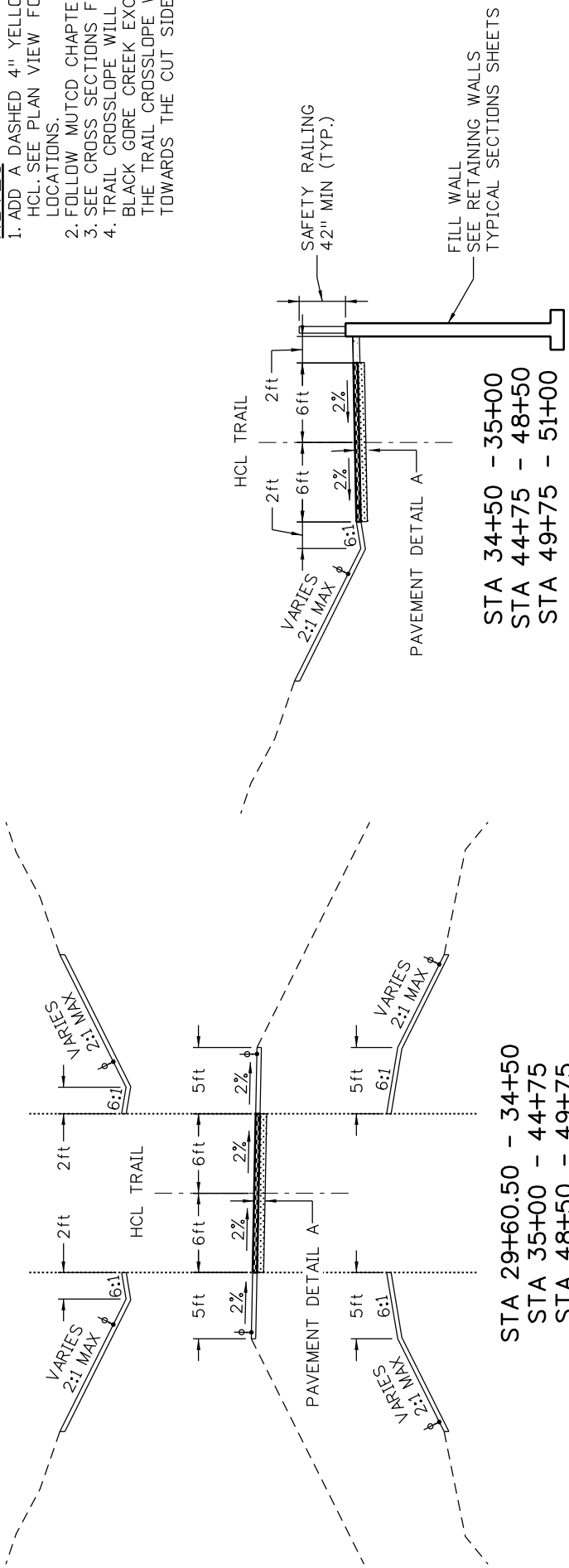
Sheet Number 12



- NOTES**
1. ADD A DASHED 4" YELLOW CENTERLINE STRIPE ALONG THE HCL. SEE PLAN VIEW FOR SOLID CENTERLINE STRIPE LOCATIONS.
  2. FOLLOW MUTCD CHAPTER 9B FOR SIGN PLACEMENT STANDARDS.
  3. SEE CROSS SECTIONS FOR SIDE SLOPES.
  4. TRAIL CROSSLOPE WILL BE GRADED AT 2% TO DRAIN TOWARDS BLACK GORE CREEK EXCEPT AT FILL WALL LOCATIONS, WHERE THE TRAIL CROSSLOPE WILL BE GRADED AT 2% TO DRAIN TOWARDS THE CUT SIDE DITCH.

**LEGEND**

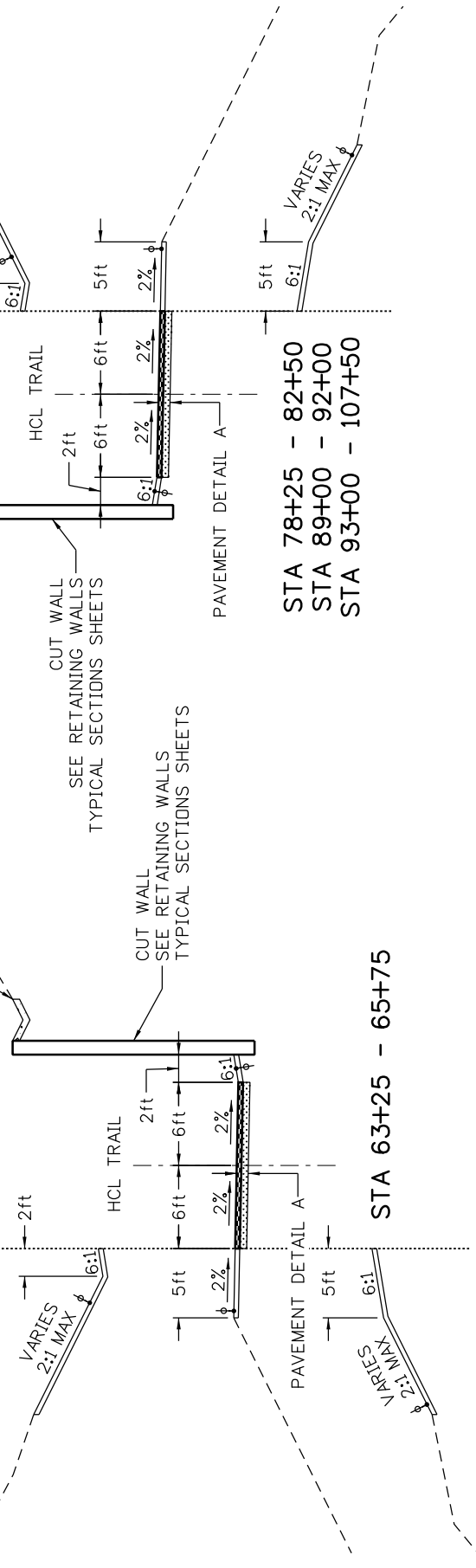
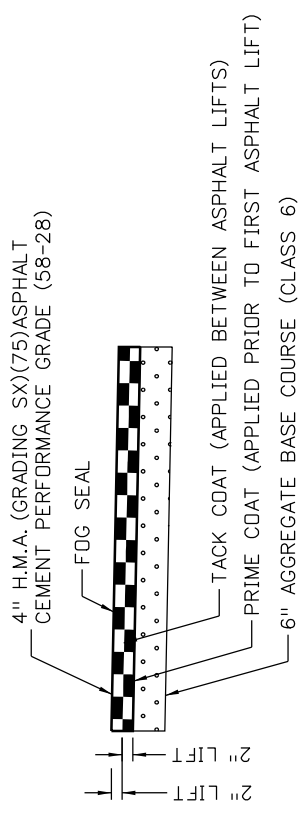
TOPSOIL (4 INCH) TYPICAL



STA 29+60.50 - 34+50  
 STA 35+00 - 44+75  
 STA 48+50 - 49+75  
 STA 51+00 - 58+38.46  
 STA 59+18.46 - 63+25  
 STA 65+75 - 76+94.84  
 STA 77+74.84 - 78+25  
 STA 82+50 - 89+00  
 STA 92+00 - 93+00  
 STA 107+50 - STA 117+64.91

STA 34+50 - 35+00  
 STA 44+75 - 48+50  
 STA 49+75 - 51+00

STA 58+36.96 - 59+19.96  
 STA 76+93.34 - 77+76.34

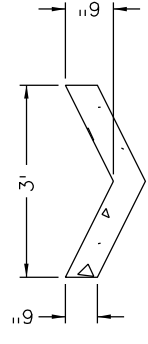


STA 63+25 - 65+75

STA 78+25 - 82+50  
 STA 89+00 - 92+00  
 STA 93+00 - 107+50

**GUTTER DETAIL C**

SEE RETAINING WALLS TYPICAL SECTIONS SHEETS FOR WALL INTERFACE

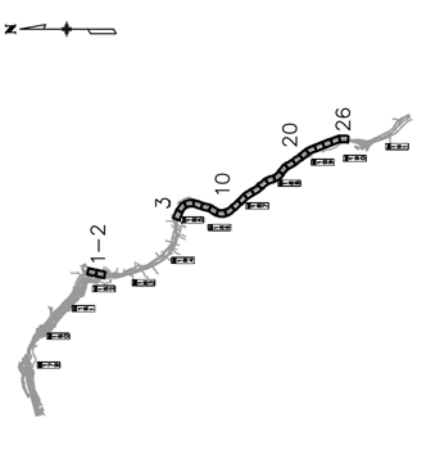
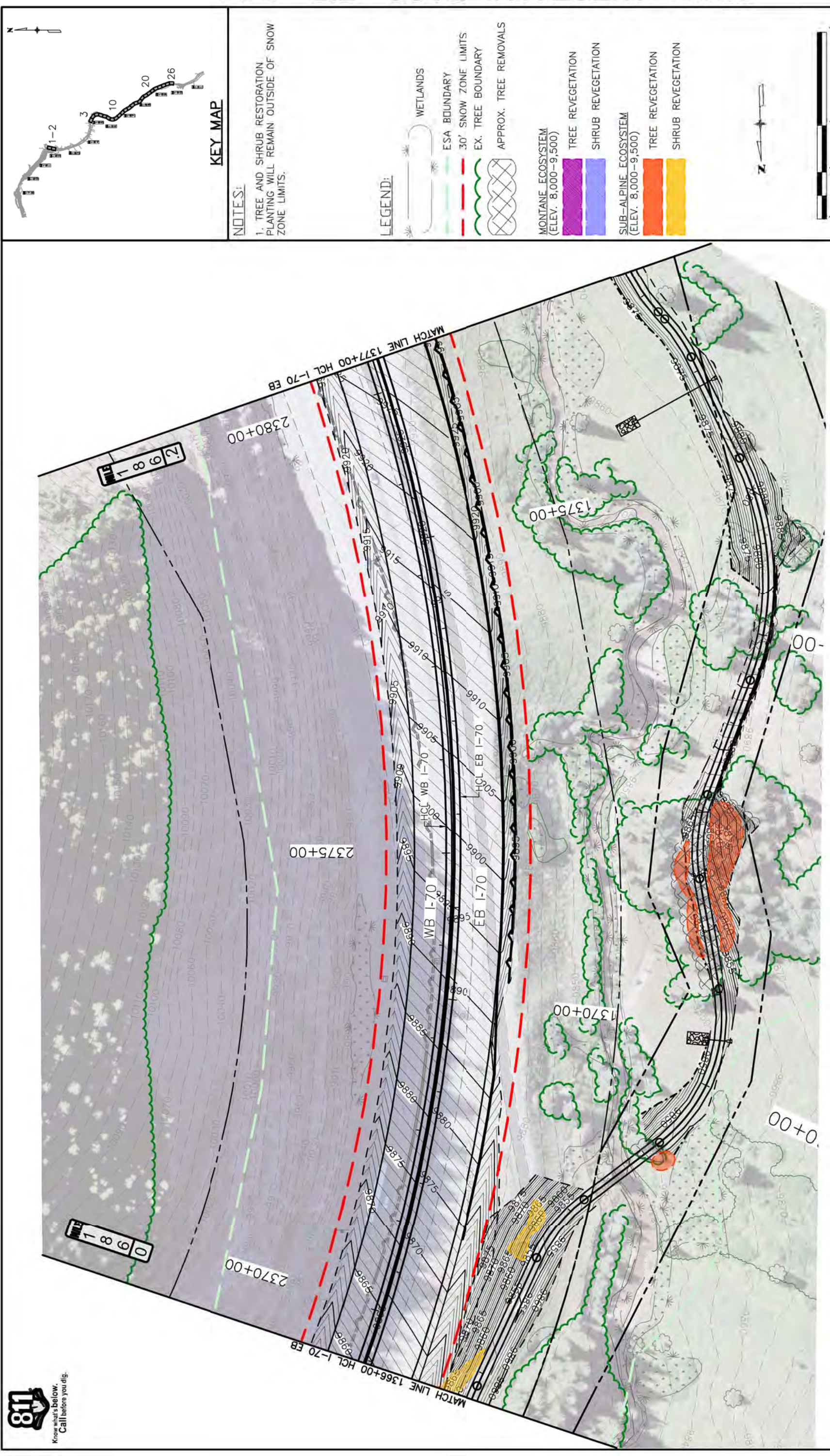


Print Date: 9/13/2021	<b>Sheet Revisions</b>		<b>As Constructed</b>		<b>WEST VAIL PASS - CAP 2 TRAIL TYPICAL SECTIONS</b>		<b>Project No./Code</b>	
File Name: 23982DES-C2-00X-Trail-TypSec.dgn	Date:	Comments	No Revisions:	S. BACINA		NHPP 0702-410		
Horiz. Scale: 1:1	Init.		Revised:	J. Merrick	Structure Numbers	23982		
Unit Information			Void:	X-XX-XX		Sheet Number		
<b>Jacobs</b>	Region 3	KMB		X-XX-XX		13		
Unit Leader Initials				Subset Sheets: 1 of 1				
Vert. Scale: As Noted								
Colorado Department of Transportation								
714 Grand Avenue, P.O. Box 298								
Eagle, CO 81631								
Phone: 970-328-6385								
FAX: 970-328-2368								



Recreation Path - Stop at 186.2 with shoulder closure - 9:35 to 10:05AM

23982 - WEST VAILPASS - FIR - 9.14.2021



KEY MAP

NOTES:

1. TREE AND SHRUB RESTORATION PLANTING WILL REMAIN OUTSIDE OF SNOW ZONE LIMITS.

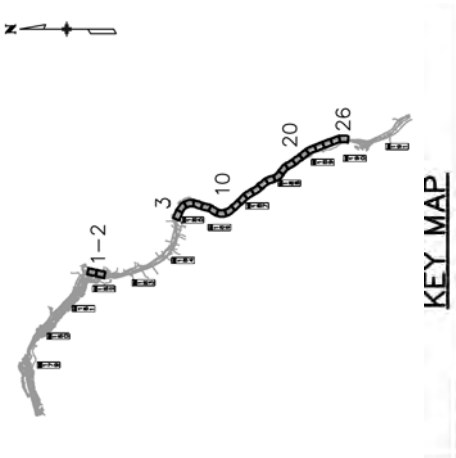
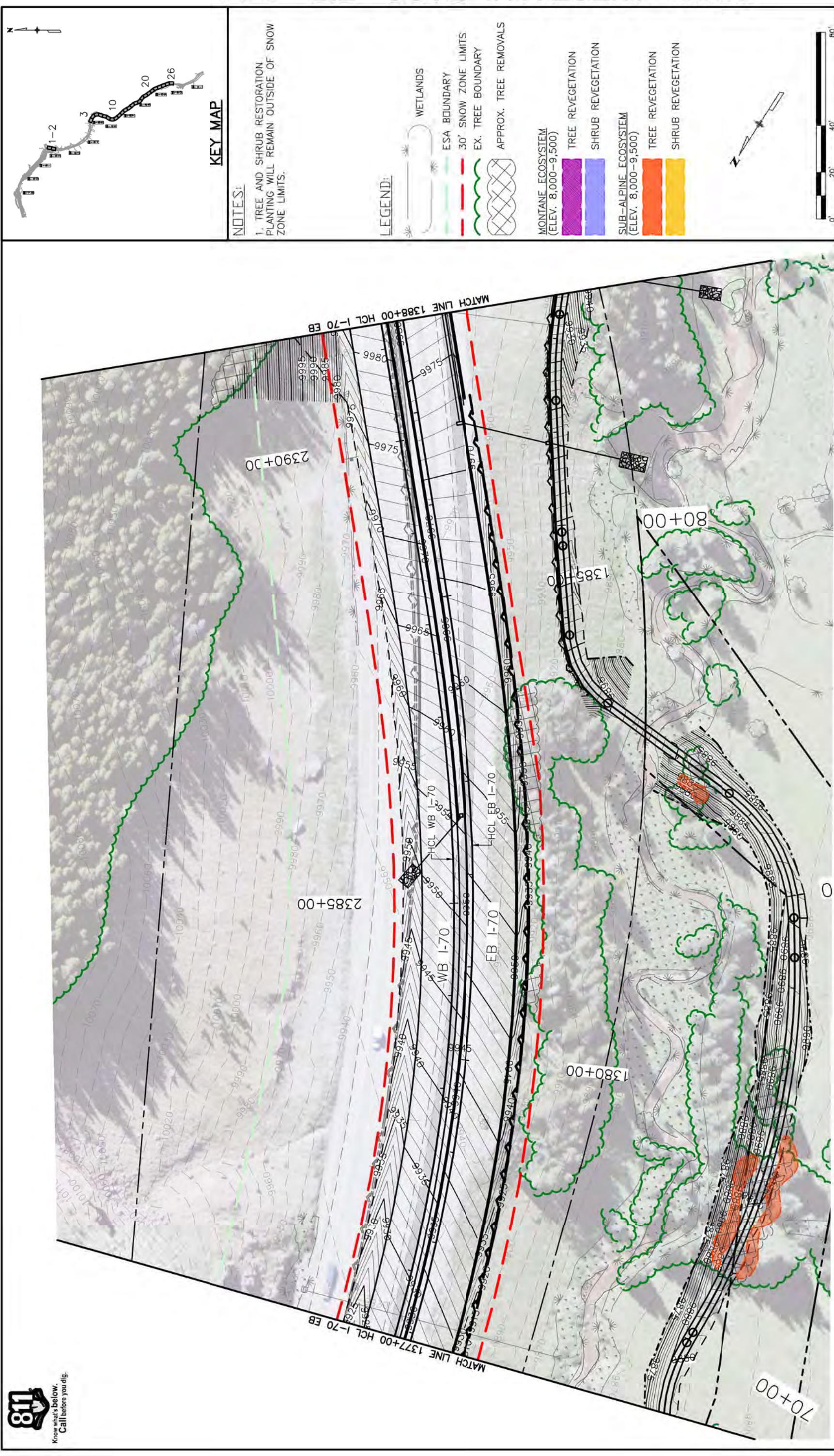
LEGEND:

- WETLANDS
- ESA BOUNDARY
- 30' SNOW ZONE LIMITS
- EX. TREE BOUNDARY
- APPROX. TREE REMOVALS
- MONTANE ECOSYSTEM (ELEV. 8,000-9,500)
- TREE REVEGETATION
- SHRUB REVEGETATION
- SUB-ALPINE ECOSYSTEM (ELEV. 8,000-9,500)
- TREE REVEGETATION
- SHRUB REVEGETATION



Print Date: 09/14/2021		Project No./Code	
File Name: 23982des_Is-sheets		NHP 0702-410	
Horiz. Scale: 1:100		Vert. Scale: As Noted	
Unit Information		Unit Leader Initials	
		Designer: PKM Detailer: AJB Sheet Subsets: LANDSCAPE Sheet Number: 450	
Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 KMB		WEST VAIL PASS 1366+00 TO 1377+00 LANDSCAPE PLAN	
As Constructed No Revisions: Revised: Void:		Sheet: 09 of 26 Subsets: LANDSCAPE	
Sheet Revisions Date: _____ Comments: _____ Init: _____		0000	





**NOTES:**  
1. TREE AND SHRUB RESTORATION PLANTING WILL REMAIN OUTSIDE OF SNOW ZONE LIMITS.

**LEGEND:**

- WETLANDS
- ESA BOUNDARY
- 30' SNOW ZONE LIMITS
- EX. TREE BOUNDARY
- APPROX. TREE REMOVALS

**MONTANE ECOSYSTEM (ELEV. 8,000-9,500)**

- TREE REVEGETATION
- SHRUB REVEGETATION

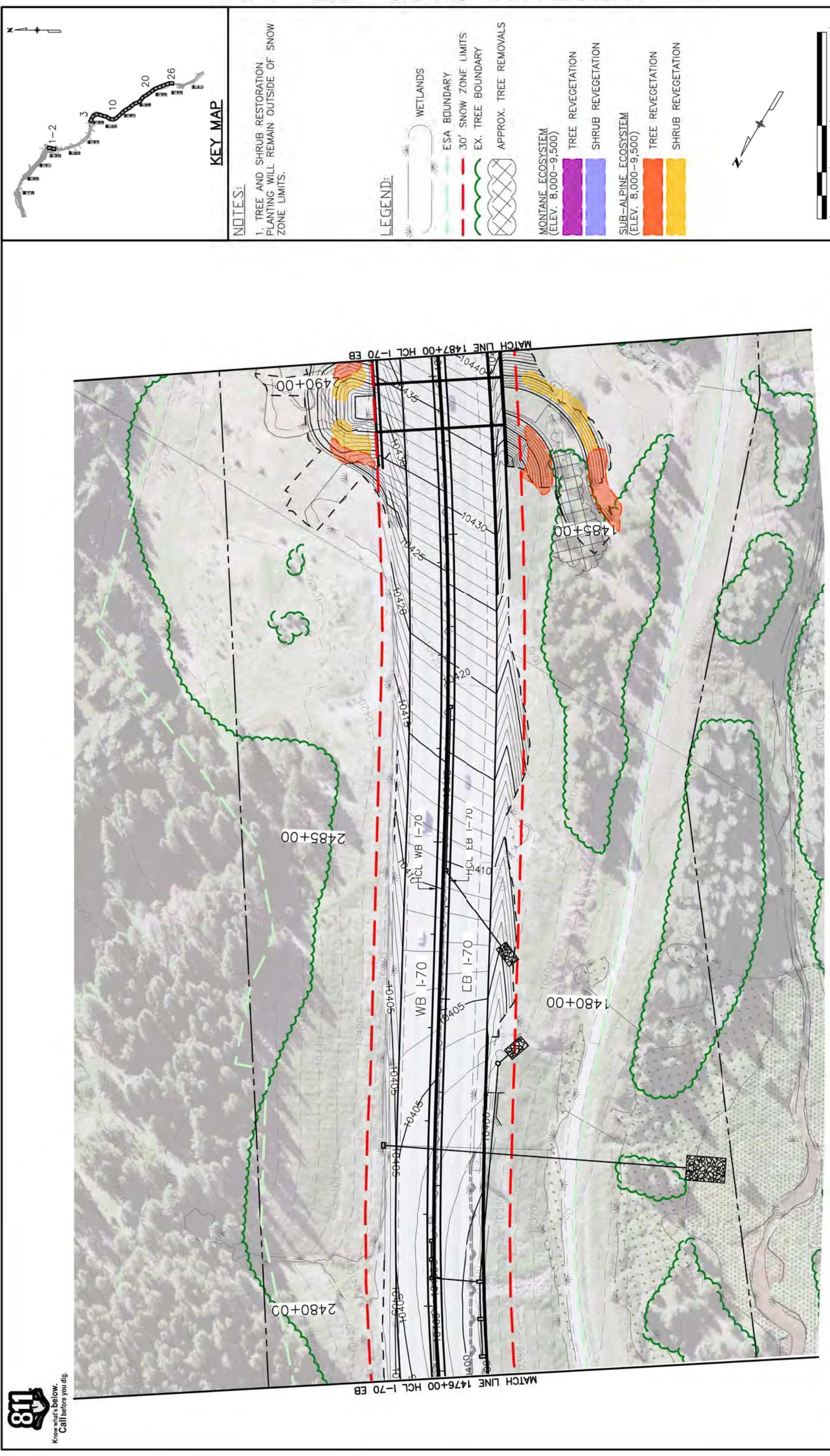
**SUB-ALPINE ECOSYSTEM (ELEV. 8,000-9,500)**

- TREE REVEGETATION
- SHRUB REVEGETATION

Scale: 0' 20' 40' 80'

Print Date: 09/14/2021 File Name: 23982des_ls-sheets Horiz. Scale: 1:100 Unit Information <b>RS&amp;H</b>		Vertical Scale: As Noted Unit Leader Initials		Date: _____ Comments: _____ Init.: _____		Sheet Revisions		Region 3		Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 KMB		As Constructed No Revisions: Revised: Void:		WEST VAIL PASS 1377+00 TO 1388+00 LANDSCAPE PLAN		Project No./Code NHPP 0702-410	
Designer: PKM Detailer: AJB		Structure Numbers AJB		Subsheet: LANDSCAPE		Sheet: 10 of 26		Subsheet: LANDSCAPE		Sheet Number: 451		Subsheet: LANDSCAPE		Sheet Number: 451			

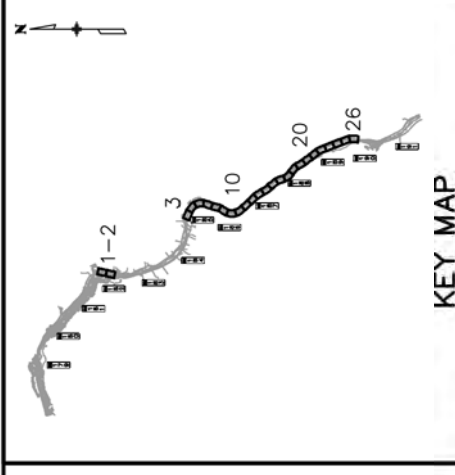




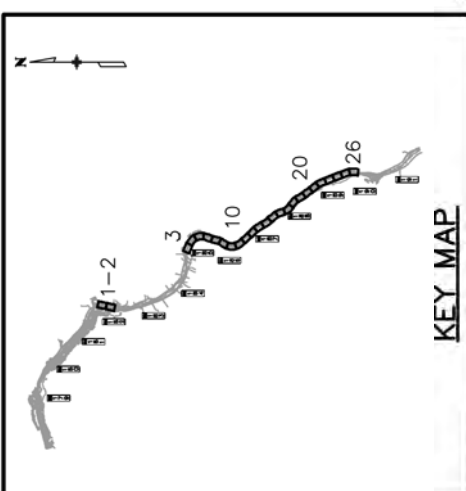
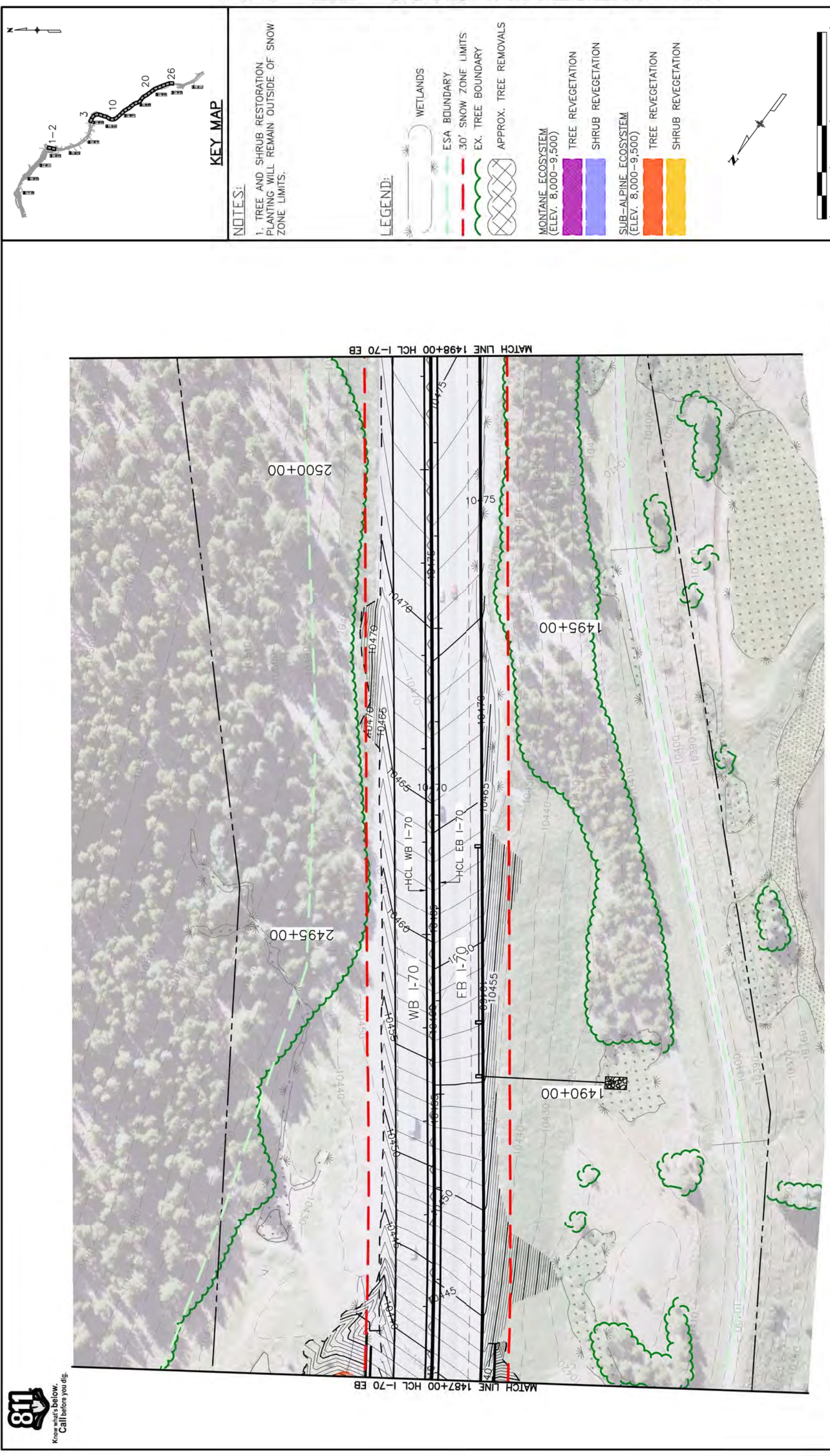
Print Date: 09/14/2021 File Name: 23982des_ls-sheets Horiz. Scale: 1:100 Unit Information <b>RS&amp;H</b>	As Constructed No Revisions: Revised: Void:		WEST VAIL PASS 1476+00 TO 1487+00 LANDSCAPE PLAN		Project No./Code NHPP 0702-410
	Sheet Revisions Date: _____ Init. _____ Comments _____ _____ _____		Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 KMB		Designer: PKM Detailer: AJB Sheet Subset: LANDSCAPE Sheet Number 460

**NOTES:**  
 1. TREE AND SHRUB RESTORATION PLANTING WILL REMAIN OUTSIDE OF SNOW ZONE LIMITS.

- LEGEND:**
- WETLANDS
  - ESA BOUNDARY
  - 30' SNOW ZONE LIMITS
  - EX. TREE BOUNDARY
  - APPROX. TREE REMOVALS
  - MONTANE ECOSYSTEM (ELEV. 8,000-9,500)
  - TREE REVEGETATION
  - SHRUB REVEGETATION
  - SUB-ALPINE ECOSYSTEM (ELEV. 8,000-9,500)
  - TREE REVEGETATION
  - SHRUB REVEGETATION







**NOTES:**  
 1. TREE AND SHRUB RESTORATION PLANTING WILL REMAIN OUTSIDE OF SNOW ZONE LIMITS.

**LEGEND:**

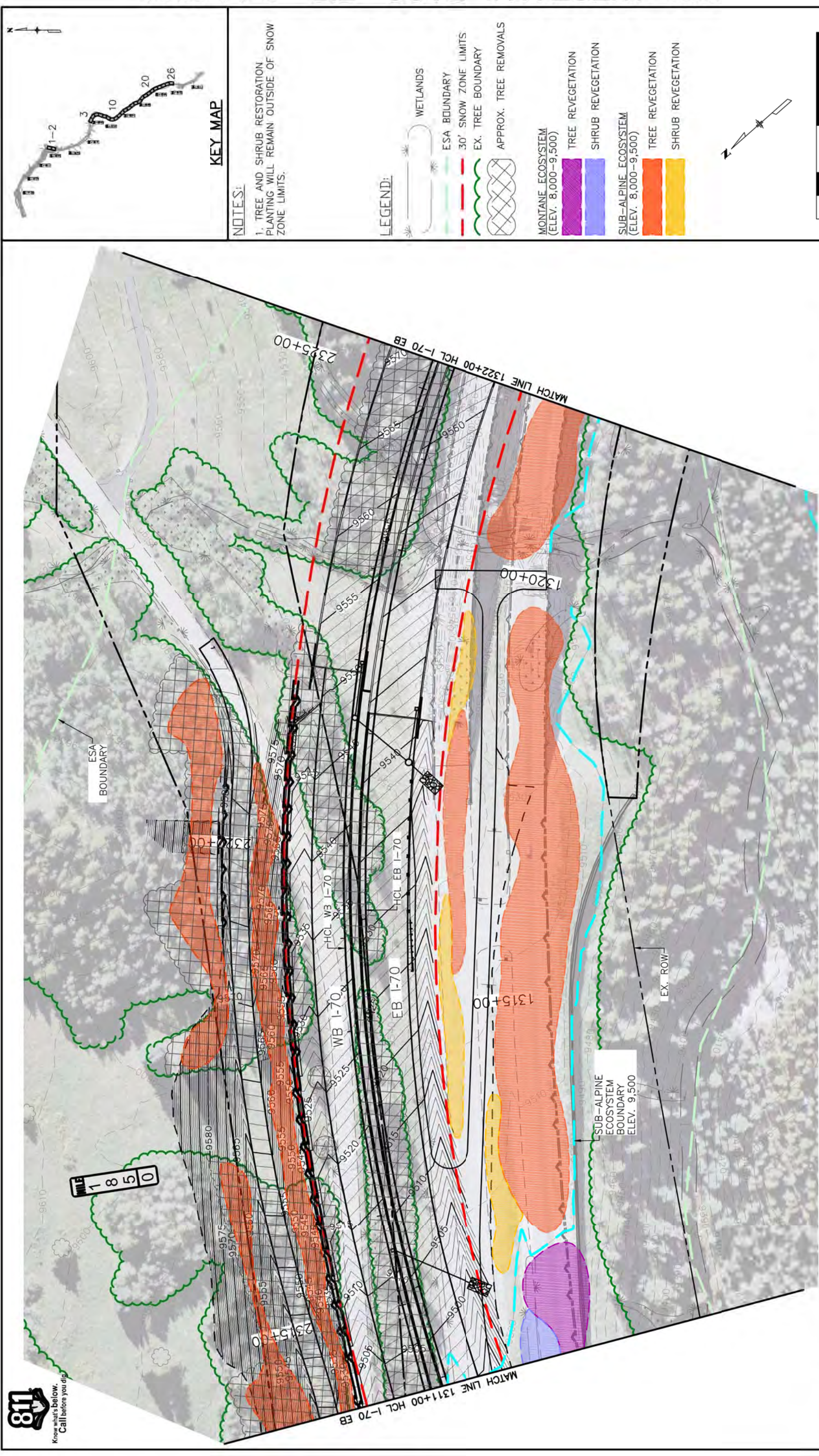
- WETLANDS
- ESA BOUNDARY
- 30' SNOW ZONE LIMITS
- EX. TREE BOUNDARY
- APPROX. TREE REMOVALS
- MONTANE ECOSYSTEM (ELEV. 8,000-9,500)
- SUB-ALPINE ECOSYSTEM (ELEV. 8,000-9,500)
- TREE REVEGETATION
- SHRUB REVEGETATION
- TREE REVEGETATION
- SHRUB REVEGETATION

Scale: 0' to 80'. North arrow pointing up.



Print Date: 09/14/2021 File Name: 23982des_ls-sheets Horiz. Scale: 1:100 Unit Information <b>RS&amp;H</b>		Vertical Scale: As Noted Unit Leader Initials	
Sheet Revisions Date: _____ Comments: _____ Init.: _____		Region 3 KMB	
As Constructed No Revisions: Revised: Void:		Designer: PKM Detailer: AJB Structure Numbers Subst: LANDSCAPE	
Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368		WEST VAIL PASS 1487+00 TO 1498+00 LANDSCAPE PLAN	
Project No./Code NHPP 0702-410		Sheet No. 20 of 26 Sheet Number 461	





**NOTES:**  
 1. TREE AND SHRUB RESTORATION PLANTING WILL REMAIN OUTSIDE OF SNOW ZONE LIMITS.

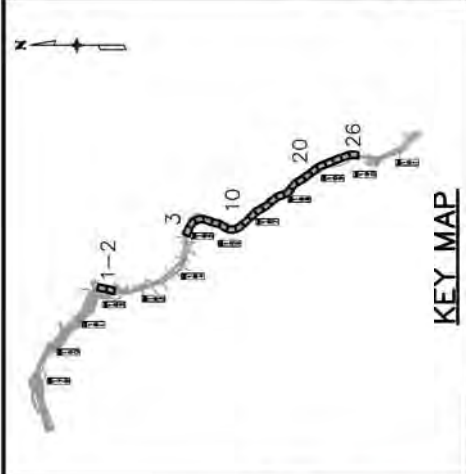
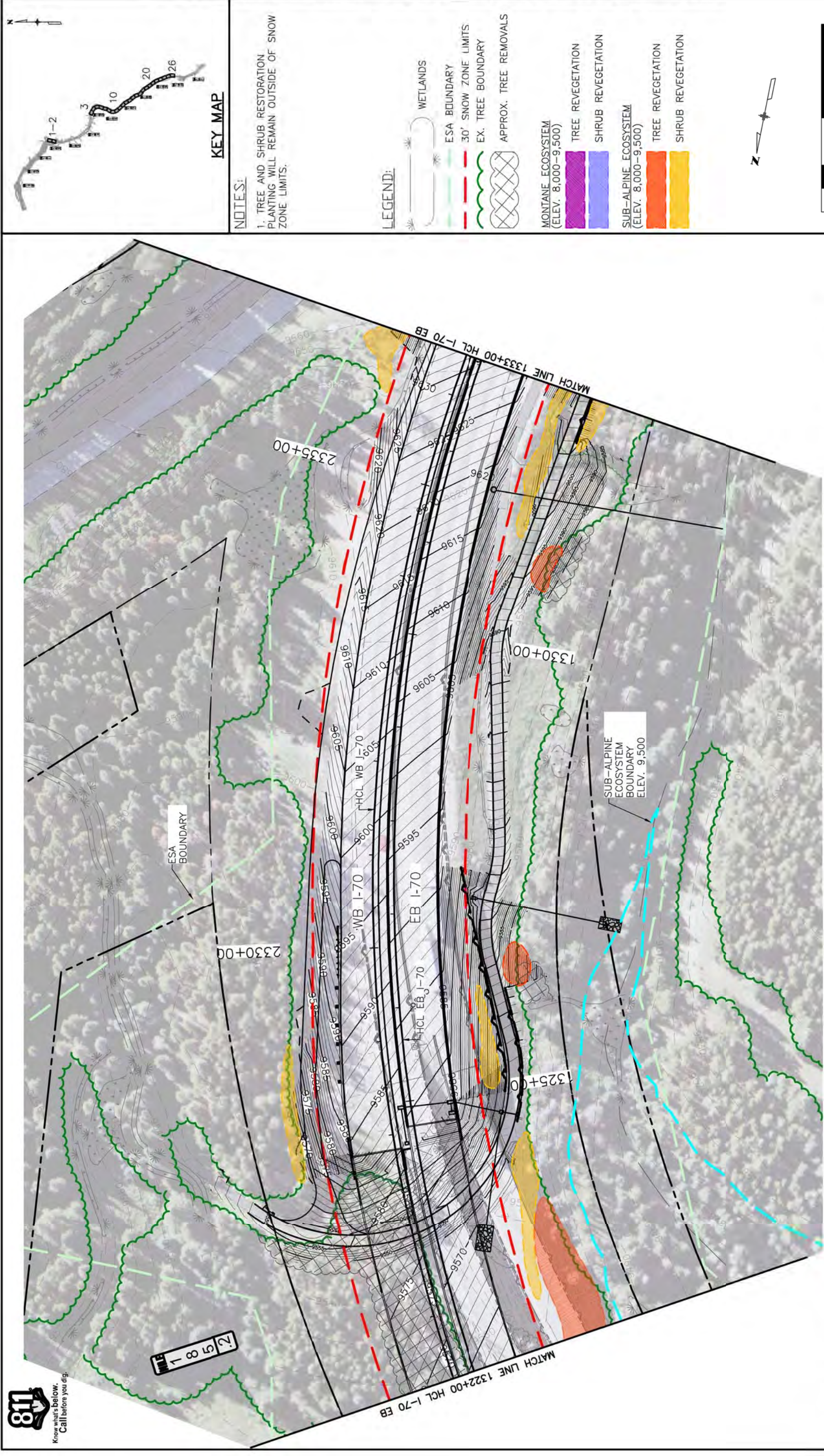
- LEGEND:**
- WETLANDS
  - ESA BOUNDARY
  - 30' SNOW ZONE LIMITS
  - EX. TREE BOUNDARY
  - APPROX. TREE REMOVALS
  - MONTANE ECOSYSTEM (ELEV. 8,000-9,500)
  - TREE REVEGETATION
  - SHRUB REVEGETATION
  - SUB-ALPINE ECOSYSTEM (ELEV. 8,000-9,500)
  - TREE REVEGETATION
  - SHRUB REVEGETATION



Print Date: 09/14/2021 File Name: 23982des_ls-sheets Horiz. Scale: 1:100 Unit Information <b>RS&amp;H</b>	As Constructed No Revisions: Revised: Void:		WEST VAIL PASS 1311+00 TO 1322+00 LANDSCAPE PLAN		Project No./Code NHPP 0702-410
	Sheet Revisions Date:      Comments      Init.		Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368		Designer: PKM Detailer: AJB Sheet Subst: LANDSCAPE Subset Sheets: 04 of 26
0000 Unit Leader Initials		Region 3 KMB		Sheet Number 445	







**NOTES:**  
 1. TREE AND SHRUB RESTORATION PLANTING WILL REMAIN OUTSIDE OF SNOW ZONE LIMITS.

**LEGEND:**

- WETLANDS
- ESA BOUNDARY
- 30' SNOW ZONE LIMITS
- EX. TREE BOUNDARY
- APPROX. TREE REMOVALS
- MONTANE ECOSYSTEM (ELEV. 8,000-9,500)
- TREE REVEGETATION
- SHRUB REVEGETATION
- SUB-ALPINE ECOSYSTEM (ELEV. 8,000-9,500)
- TREE REVEGETATION
- SHRUB REVEGETATION

Scale: 0' 20' 40' 80'



Print Date: 09/14/2021		Project No./Code	
File Name: 23982des_ls-sheets		NHP 0702-410	
Horiz. Scale: 1:100		Vert. Scale: As Noted	
Unit Information		Unit Leader Initials	
		Designer: PKM Structure Detailer: AJB Numbers Sheet Subset: LANDSCAPE Subset Sheets: 05 of 26 Sheet Number: 446	
Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 KMB		WEST VAIL PASS 1322+00 TO 1333+00 LANDSCAPE PLAN	
As Constructed No Revisions: Revised: Void:		As Constructed No Revisions: Revised: Void:	
Sheet Revisions Date:      Comments      Init.		0000	