



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

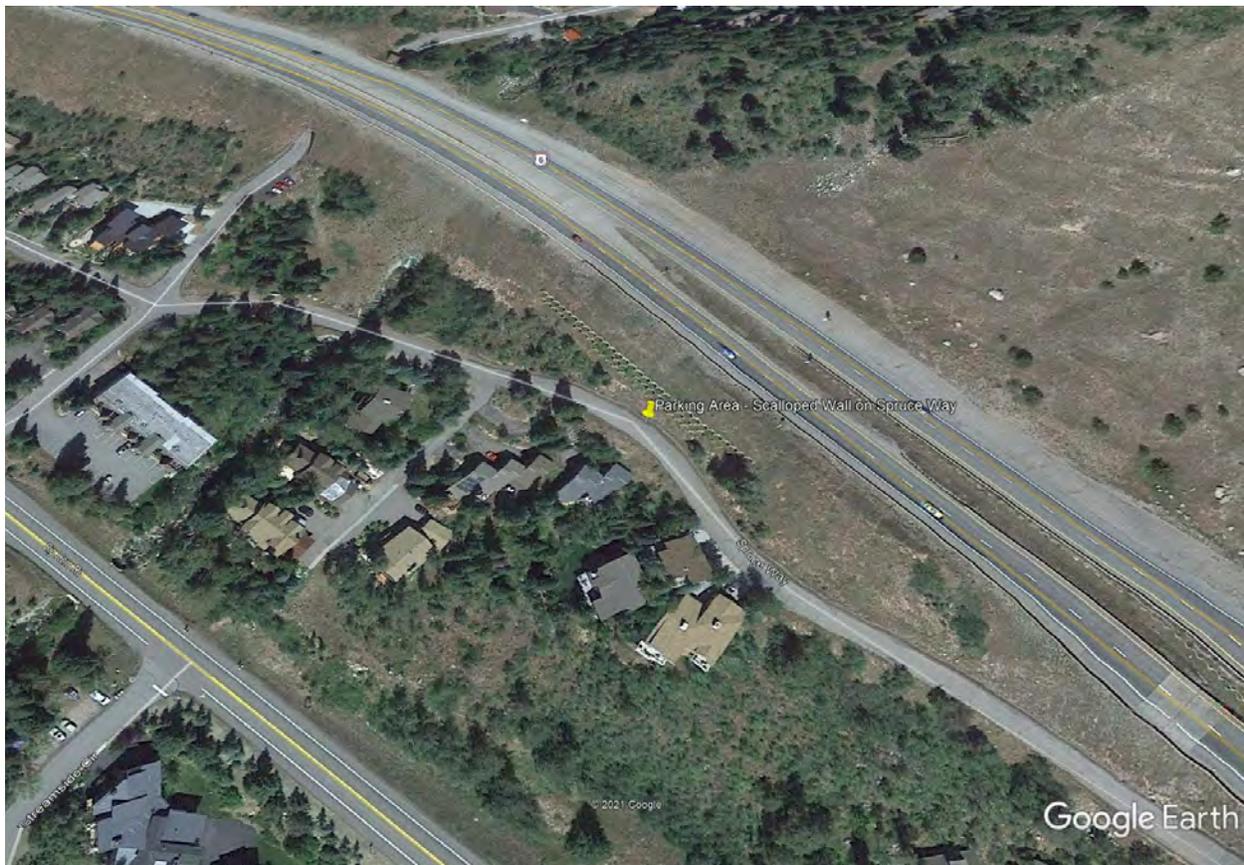




**Site Specific Talking Points**

**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**

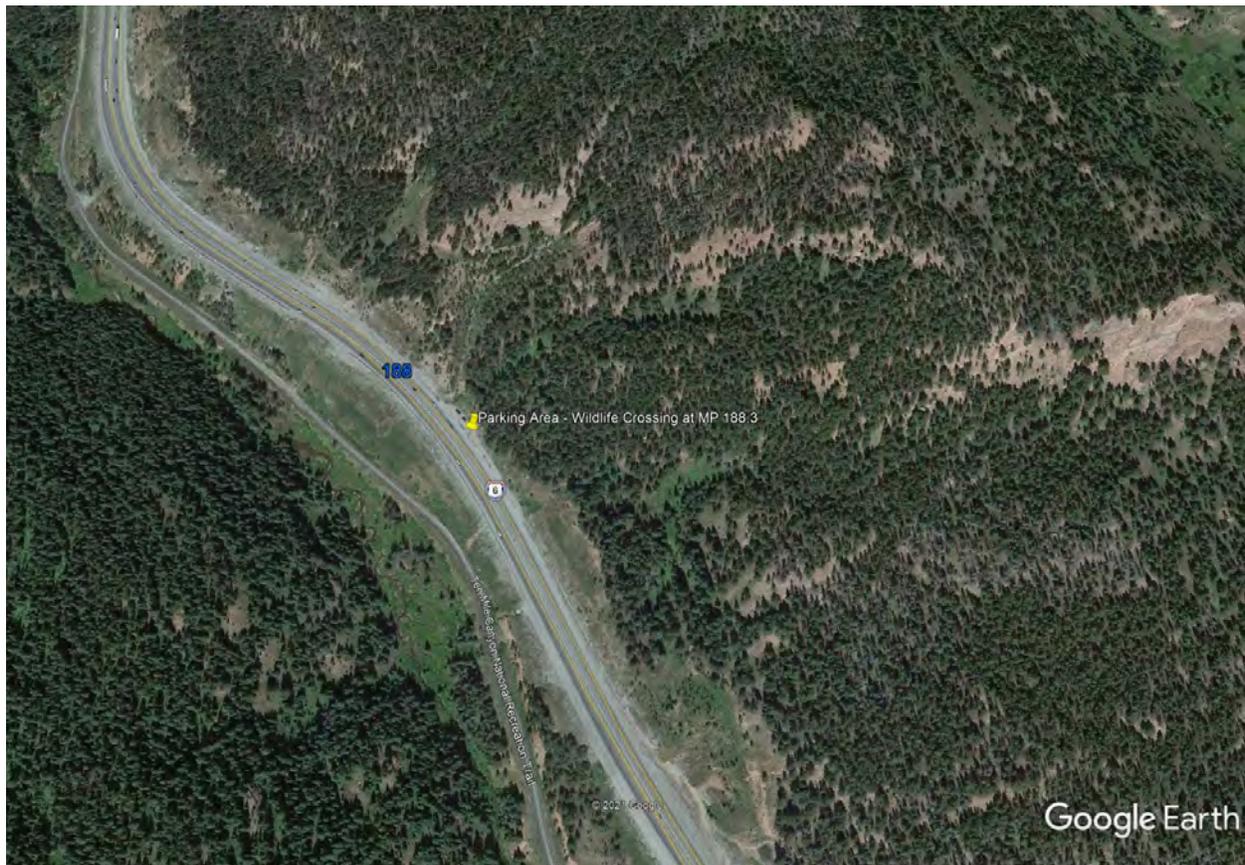
- a) Discuss construction phasing and timing
  - i) New recreation path to be constructed while existing remains in service or is detoured
  - ii) Work will take place as part of CP #2 in 2022
- b) Stakes are visible across the creek
  - i) Bridge locations
  - ii) Conforming to topography as best is 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





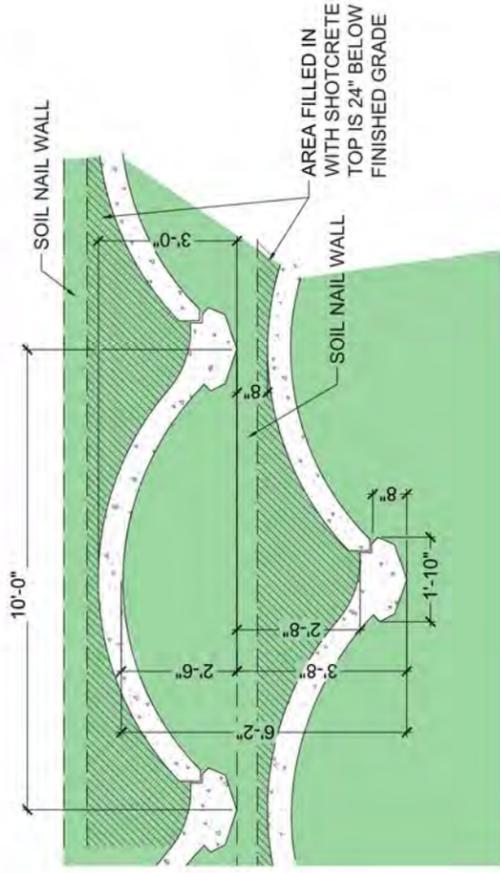
**4) Bridges at MP 185 – 10:55 to 11:25AM**

- 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

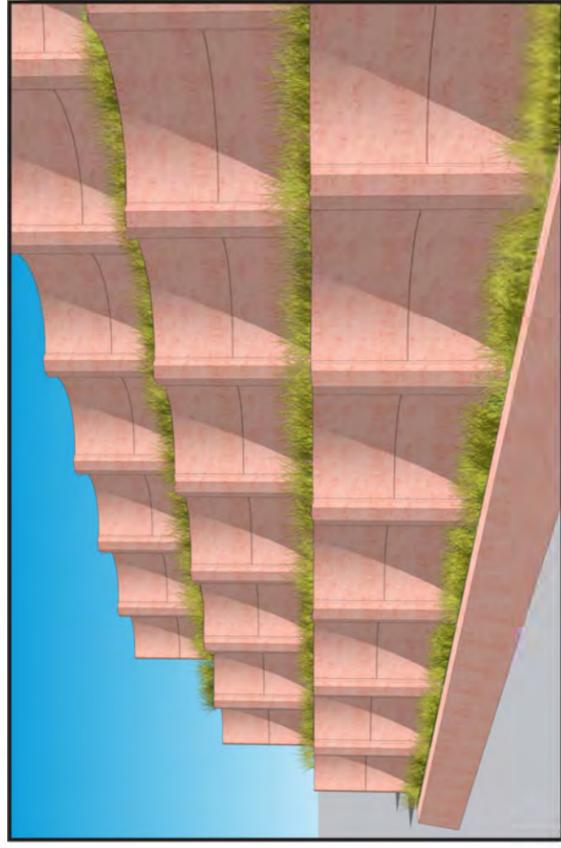


**OPTION 1**  
**MATCH EXISTING PRECAST**  
**CONCRETE CURVED PANELS**  
(8' HEIGHT - 2'-6" CURVE)

PLAN VIEW

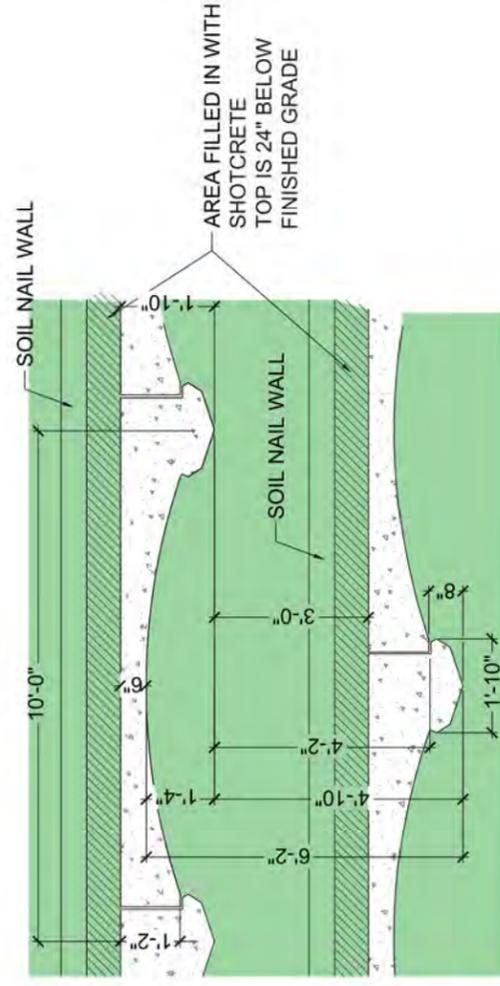


PERSPECTIVE

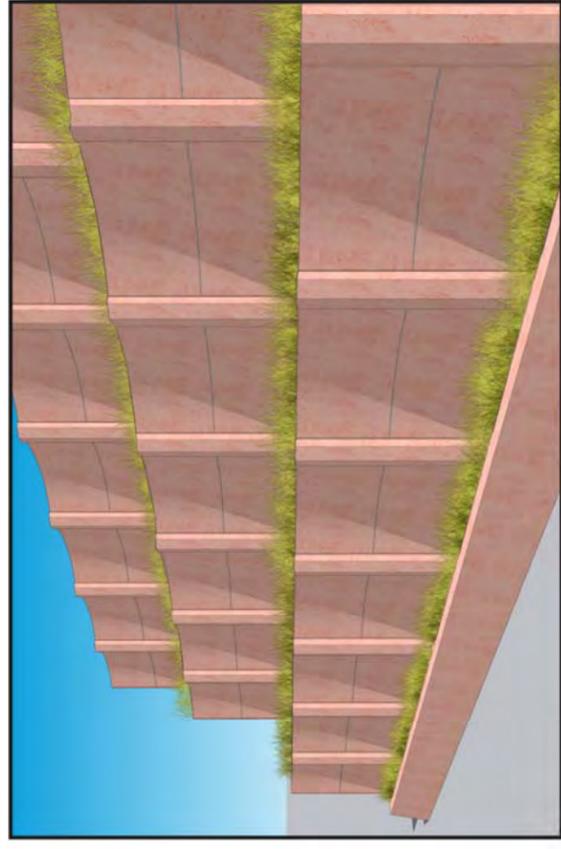


**OPTION 2**  
**MODIFIED CURVE WITH FLAT BACK**  
(8' HEIGHT - 1'-4" CURVE)

PLAN VIEW

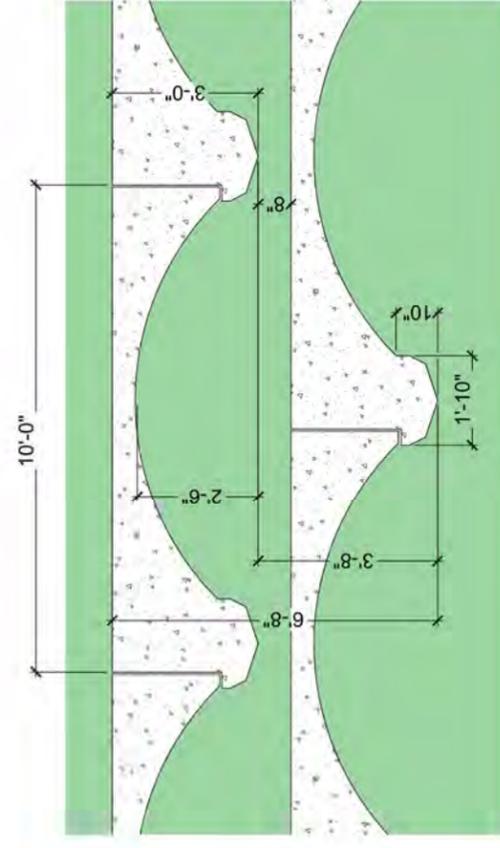


PERSPECTIVE

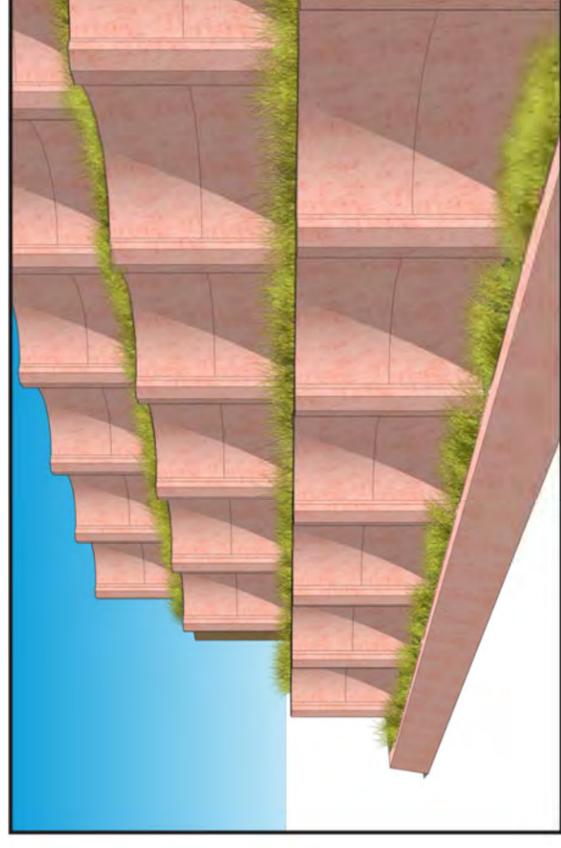


**OPTION 3**  
**SOLID FULL CURVE WITH FLAT BACK**  
(8' HEIGHT - 2'-6" CURVE)

PLAN VIEW



PERSPECTIVE



**CURVED WALL EXHIBIT**

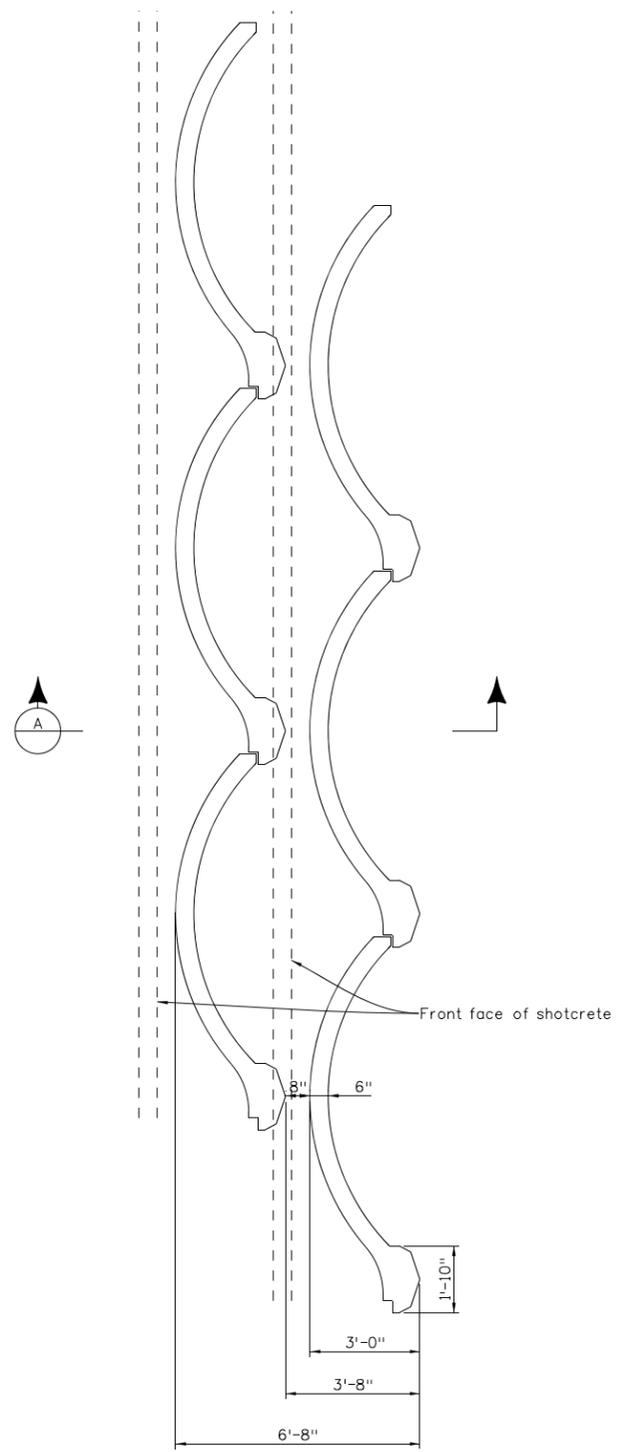


West Vail Pass  
Vail, CO

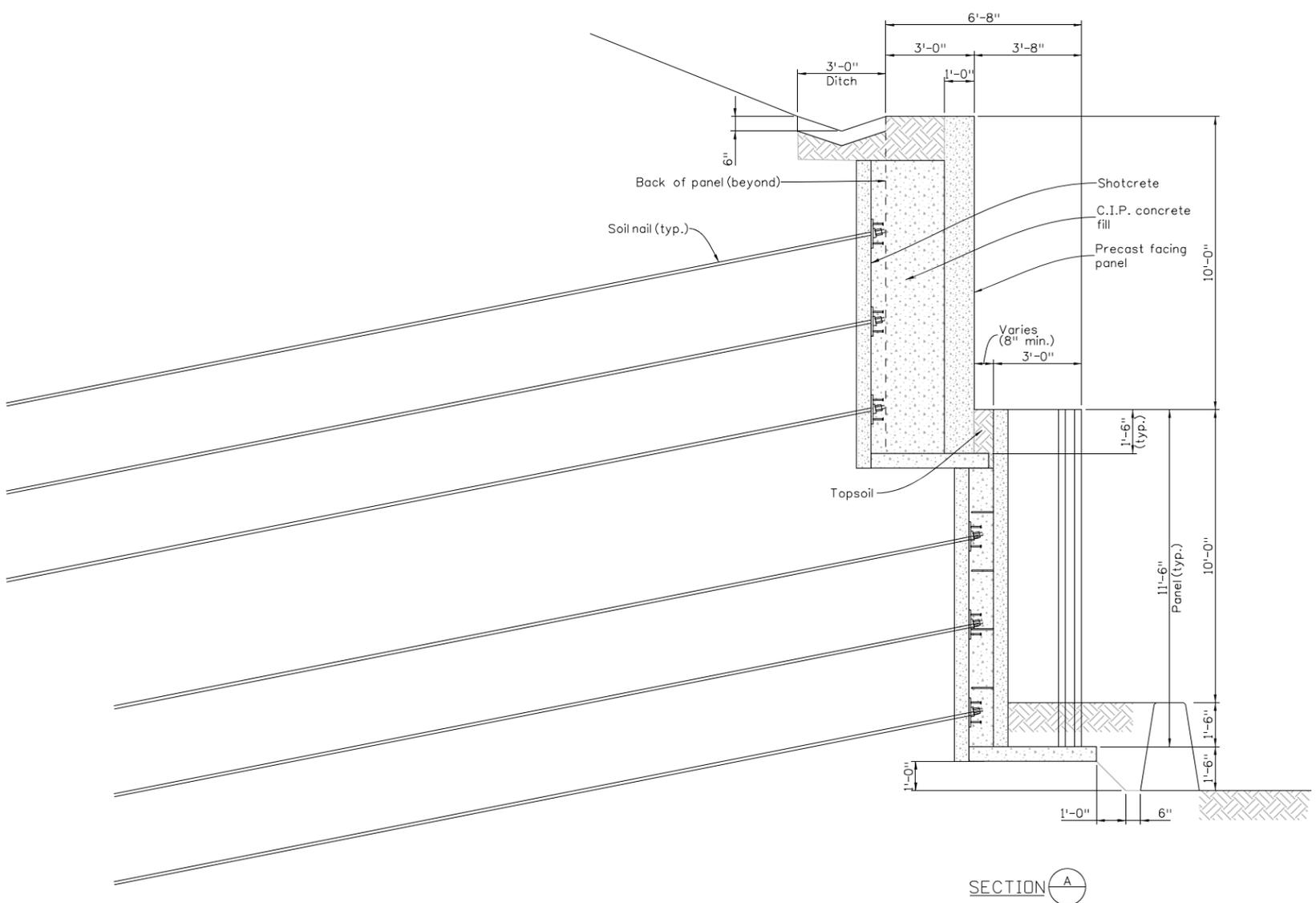
September 22, 2021



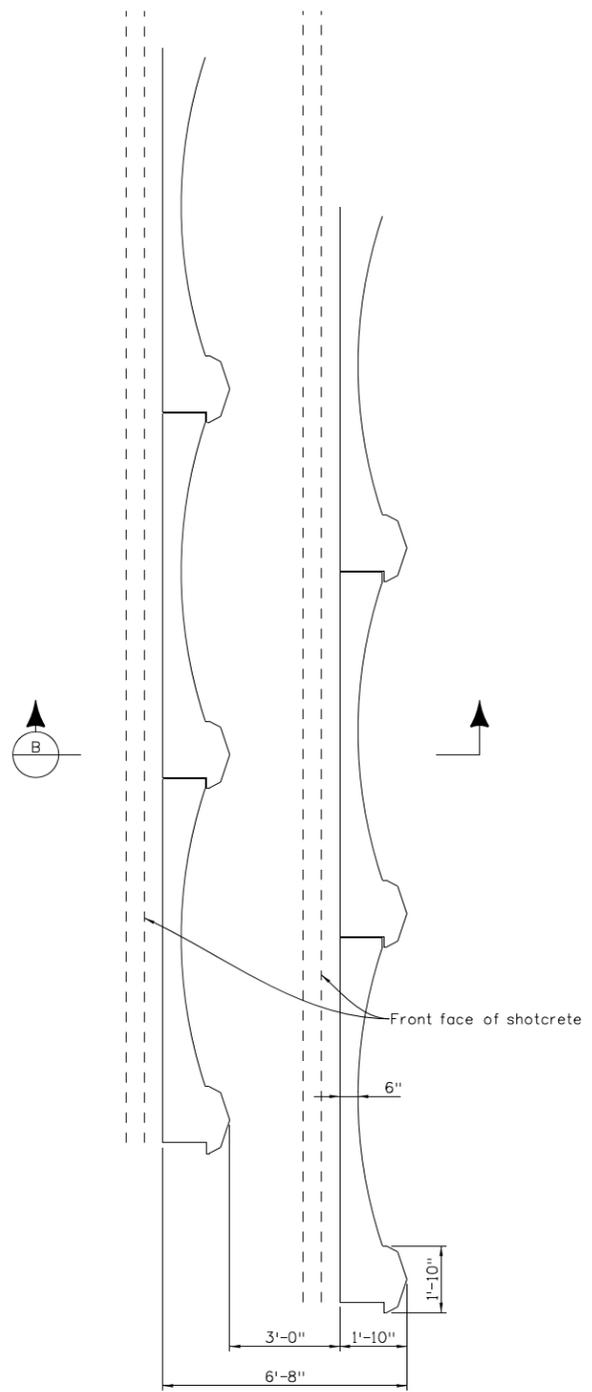
Scalloped Wall on Spruce Way – 8:55 to 9:25AM



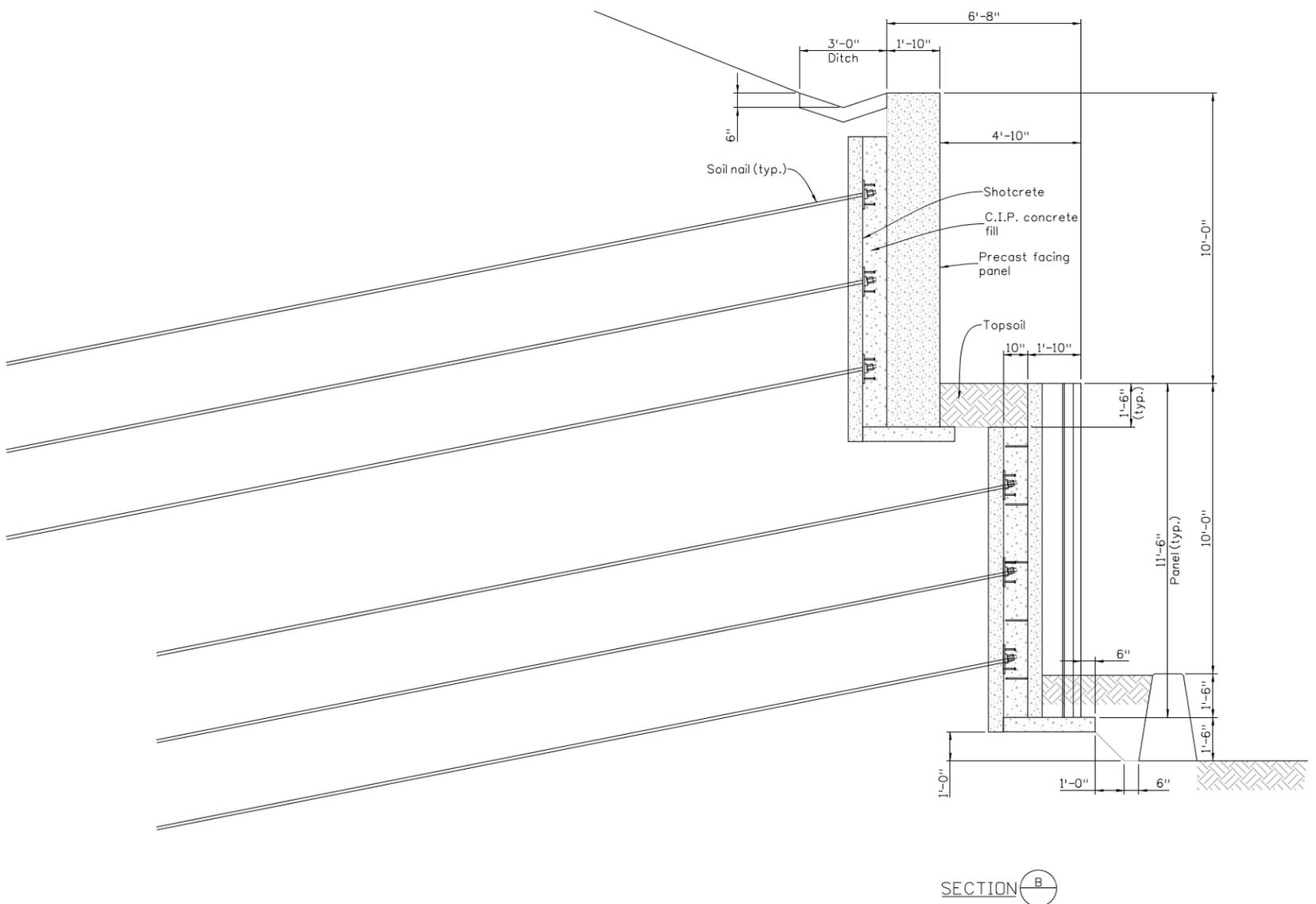
OPTION 1 - MATCH EXISTING CURVED PANELS



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



OPTION 2 - MODIFIED CURVE WITH FLAT BACK

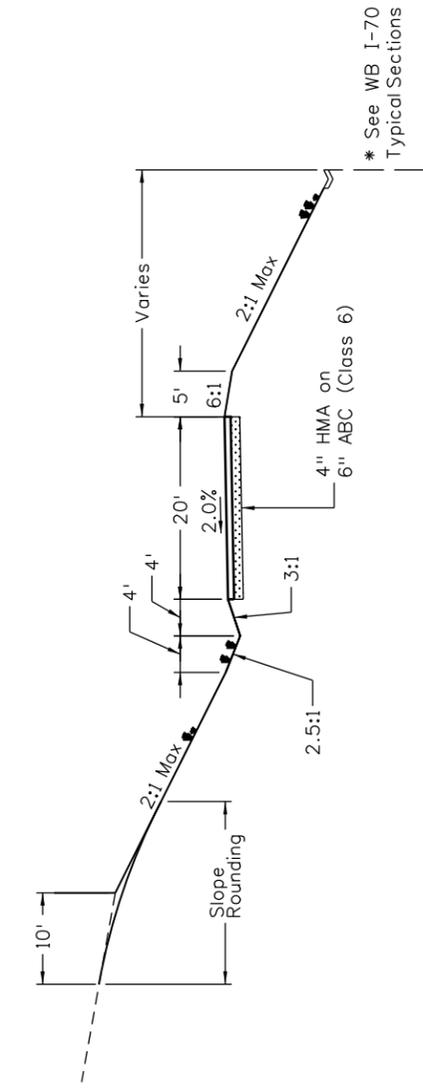
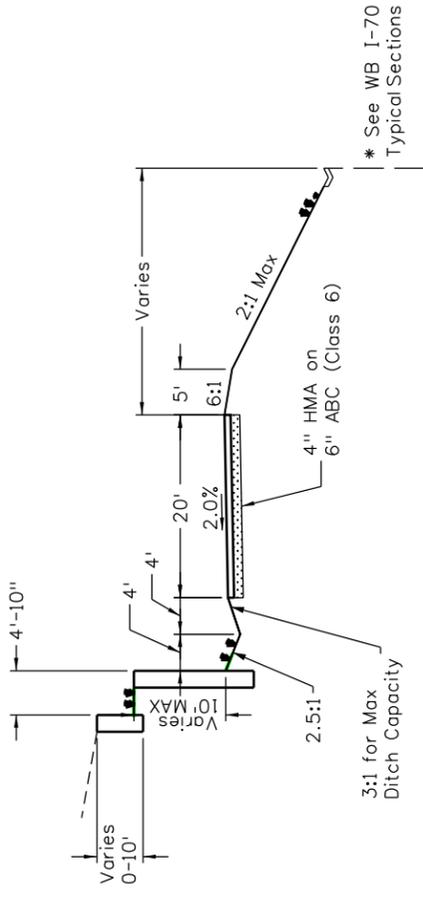


SECTION B





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

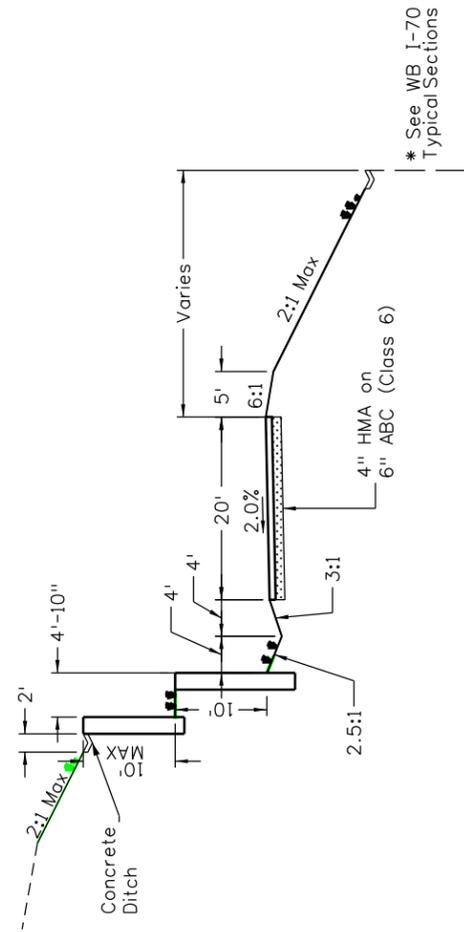


**US 6 TRAIL (REALIGNMENT)**

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 Subset Sheets: 6 of 6

**Project No./Code**

NHPP 0702-410

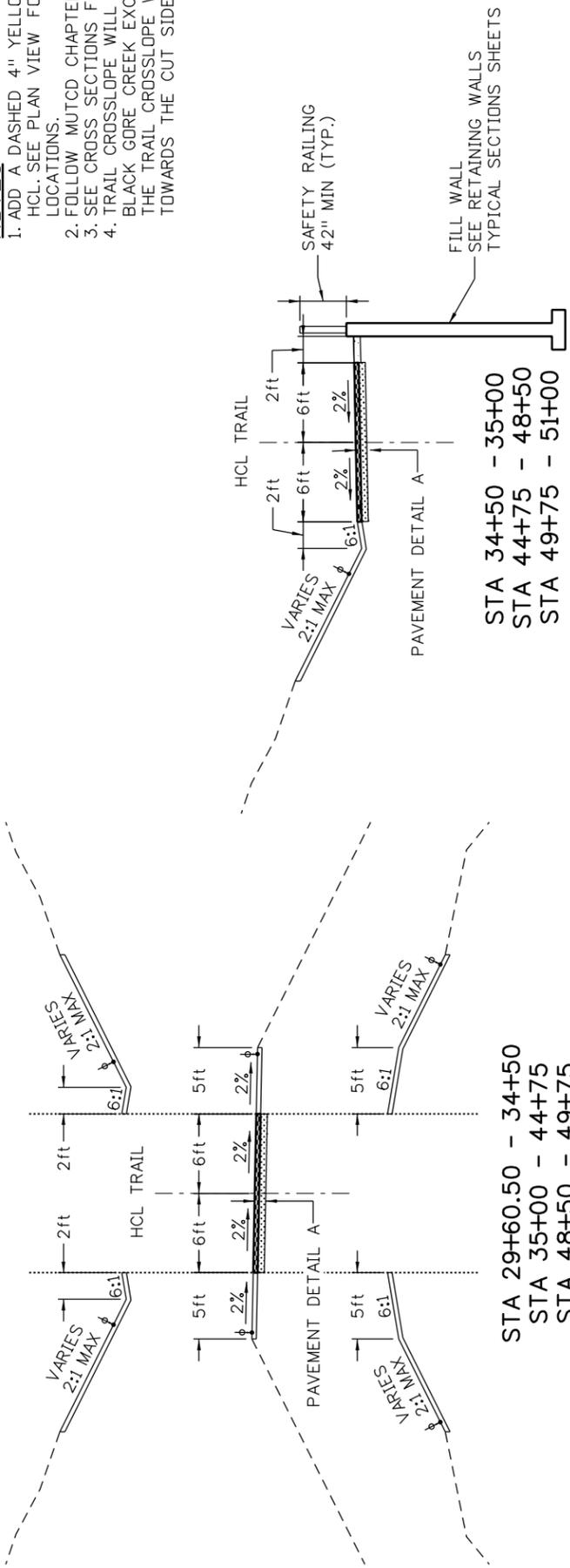
23982

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**

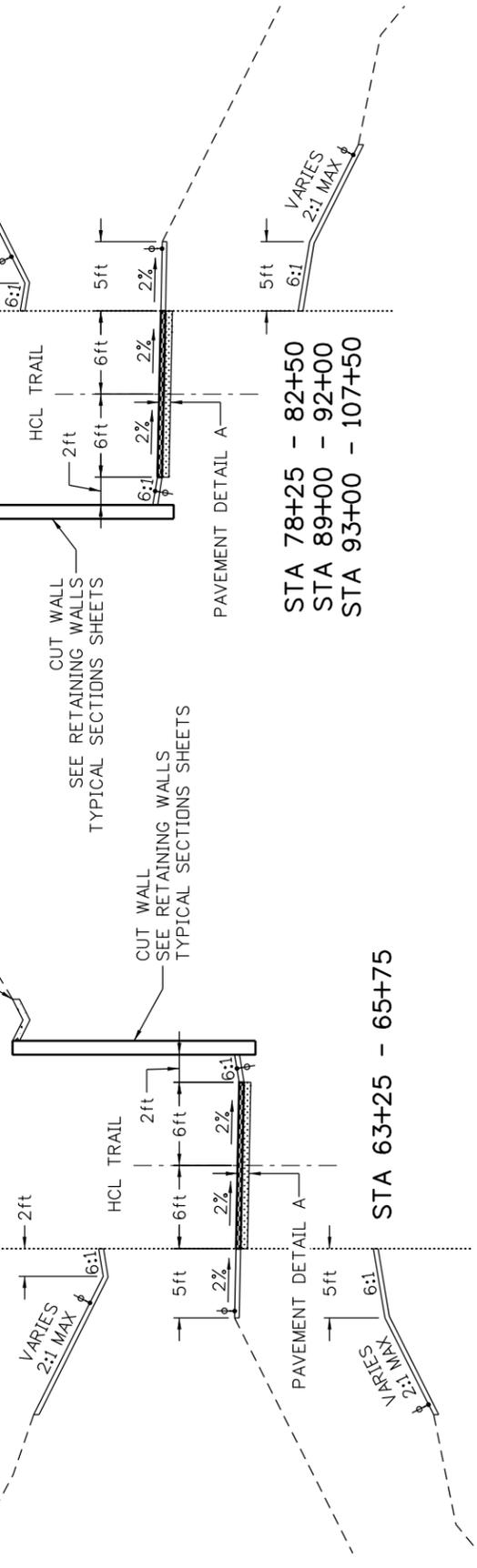
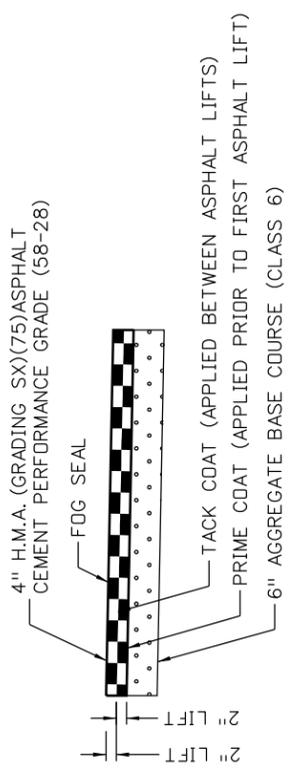
TOPSOIL (4 INCH) TYPICAL



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

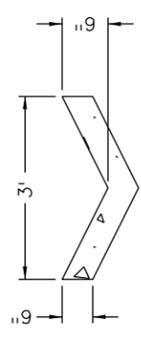
STA 34+50 - 35+00  
 STA 44+75 - 48+50  
 STA 49+75 - 51+00

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



STA 63+25 - 65+75

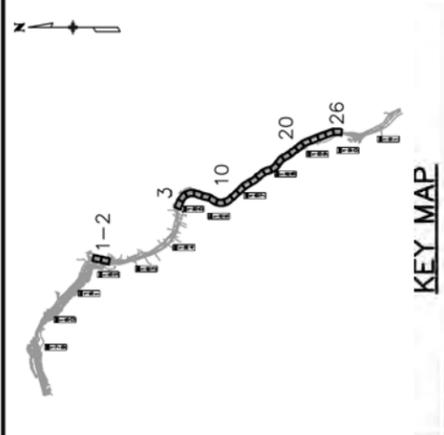
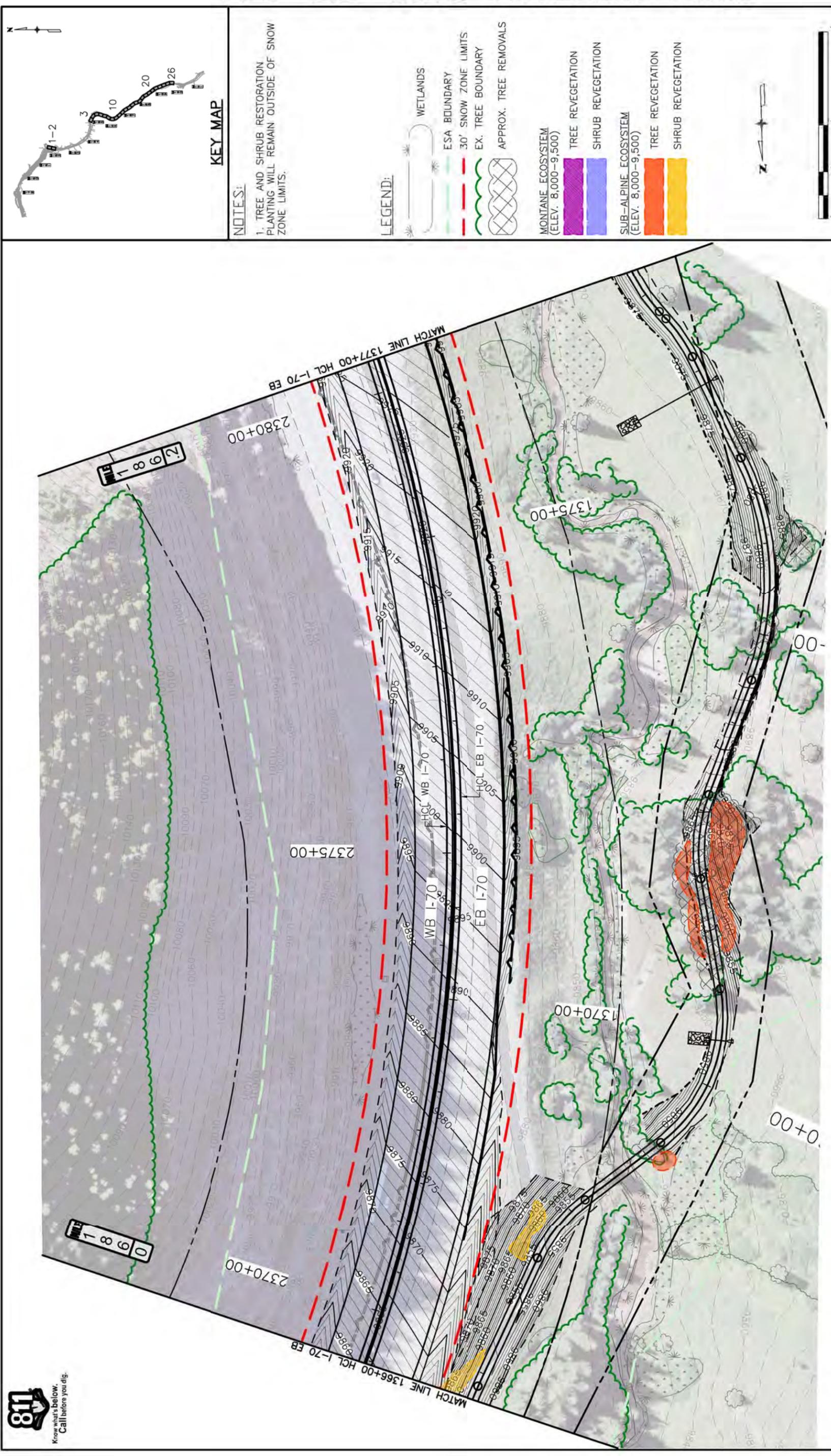
STA 78+25 - 82+50  
 STA 89+00 - 92+00  
 STA 93+00 - 107+50



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Horiz. Scale: 1:1				Eagle, CO 81631		Structure		X-XX-XX	
Unit Information				Phone: 970-328-6385		Numbers		23982	
Unit Leader Initials				FAX: 970-328-2368		J. Merrick		X-XX-XX	
<b>Jacobs</b>				Region 3		TYP SEC		Sheet Number	
				KMB		1 of 1		13	
						As Constructed			
						No Revisions:			
						Revised:			
						Void:			

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

23982 - WEST VAILPASS - FIR - 9.14.2021



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

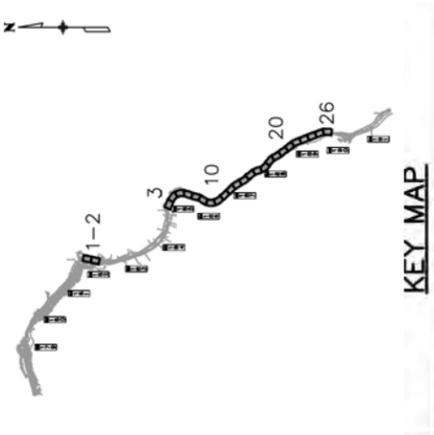
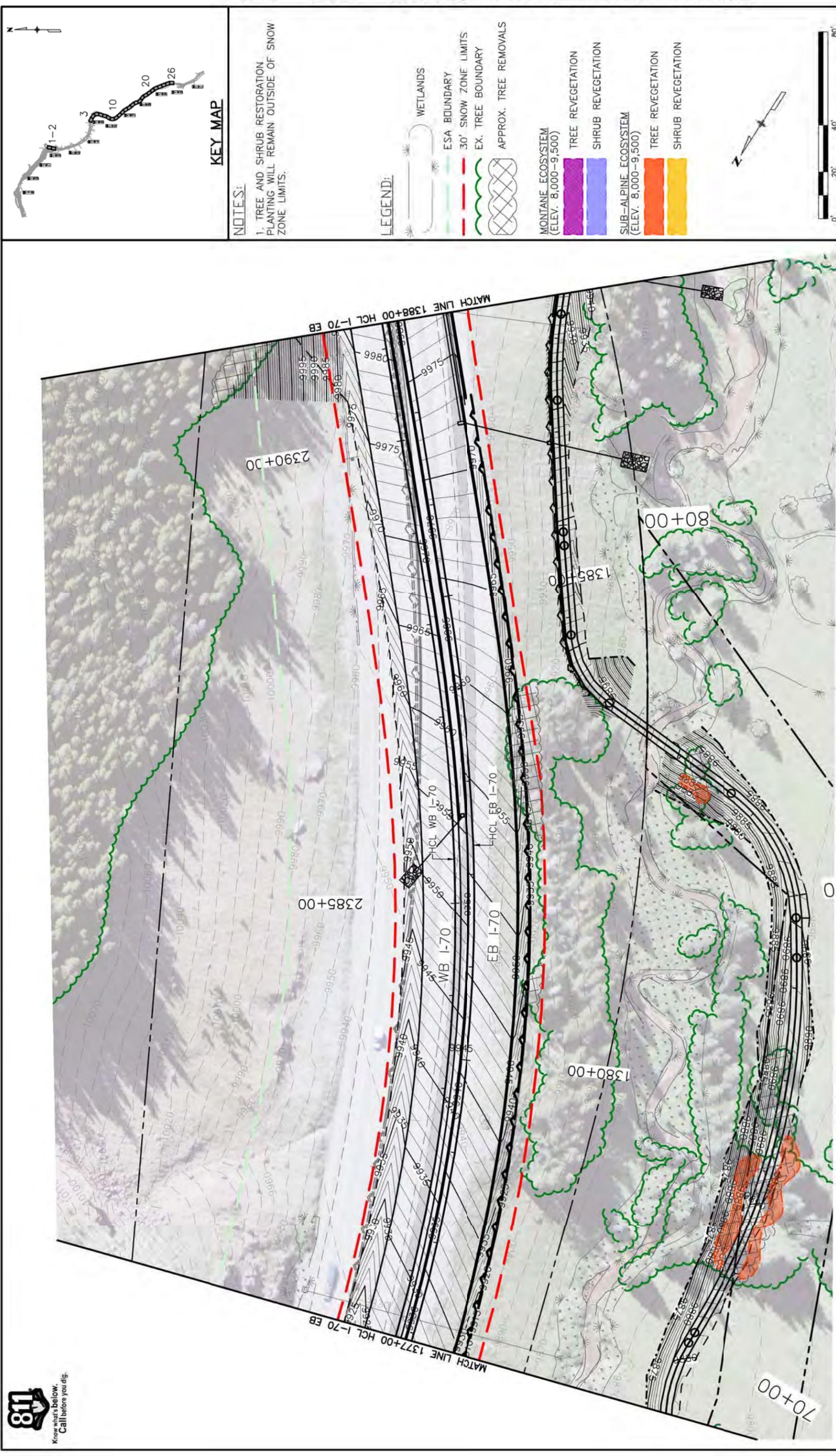
**LEGEND:**

- 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' 20' 40' 80'



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																	
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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 1366+00 TO 1377+00 LANDSCAPE PLAN																	
Region 3		Designer: PKM Detailer: AJB Sheet Subset: LANDSCAPE Sheet Number: 450 Subst Sheets: 09 of 26																	
KMB 0000		RS&H																	



**NOTES:**

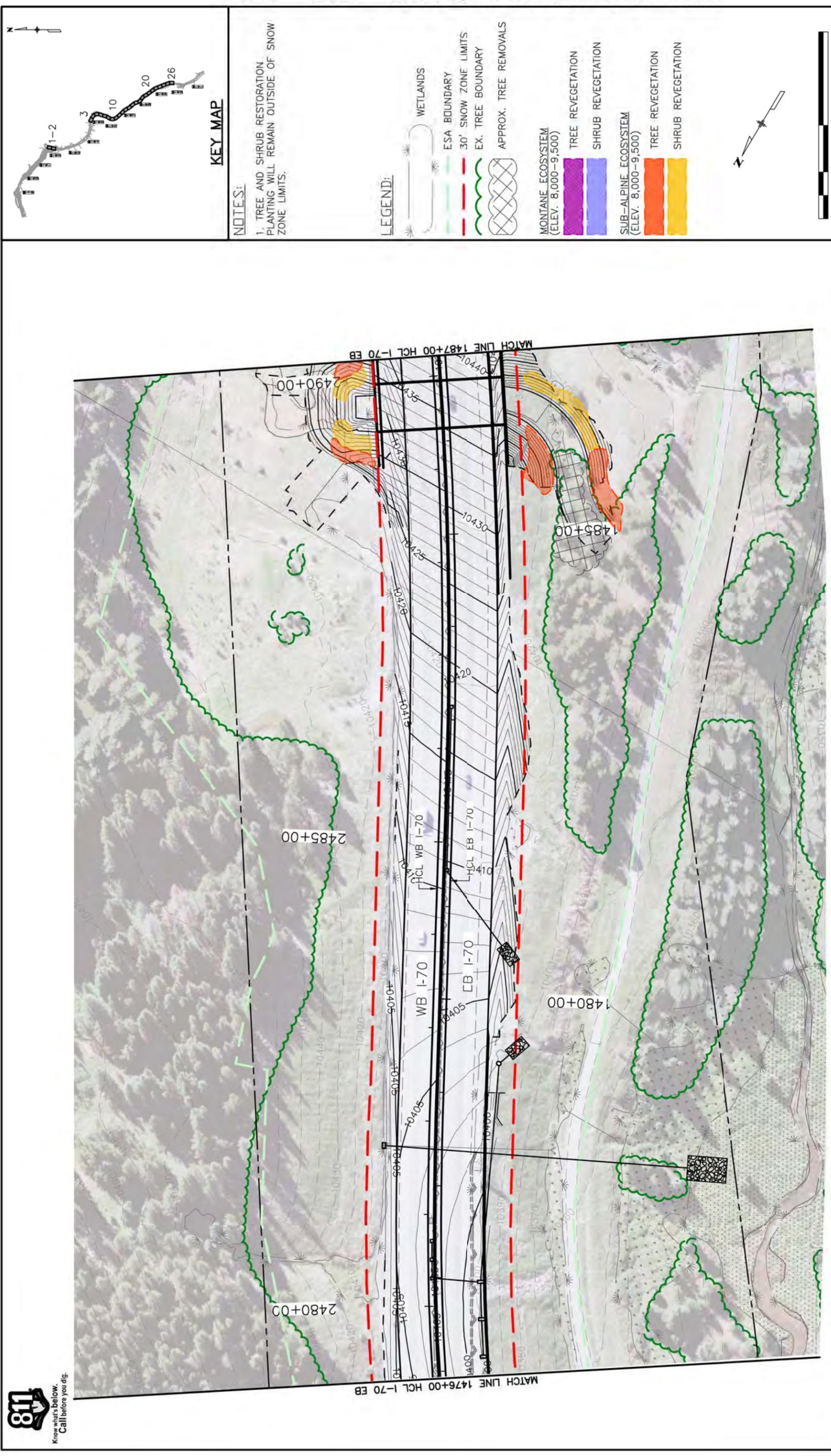
- TREE AND SHRUB RESTORATION PLANTING WILL REMAIN OUTSIDE OF SNOW ZONE LIMITS.

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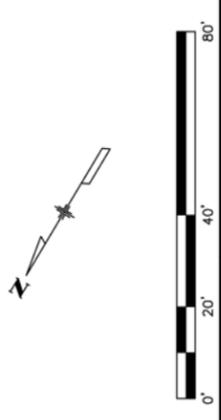
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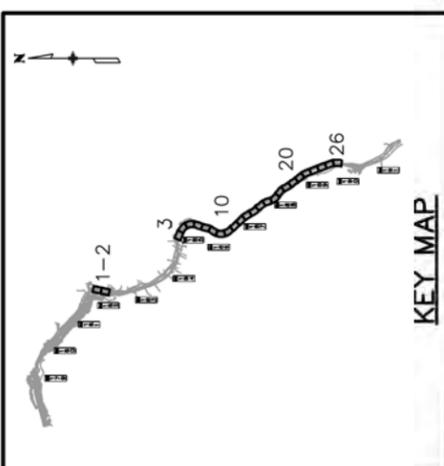
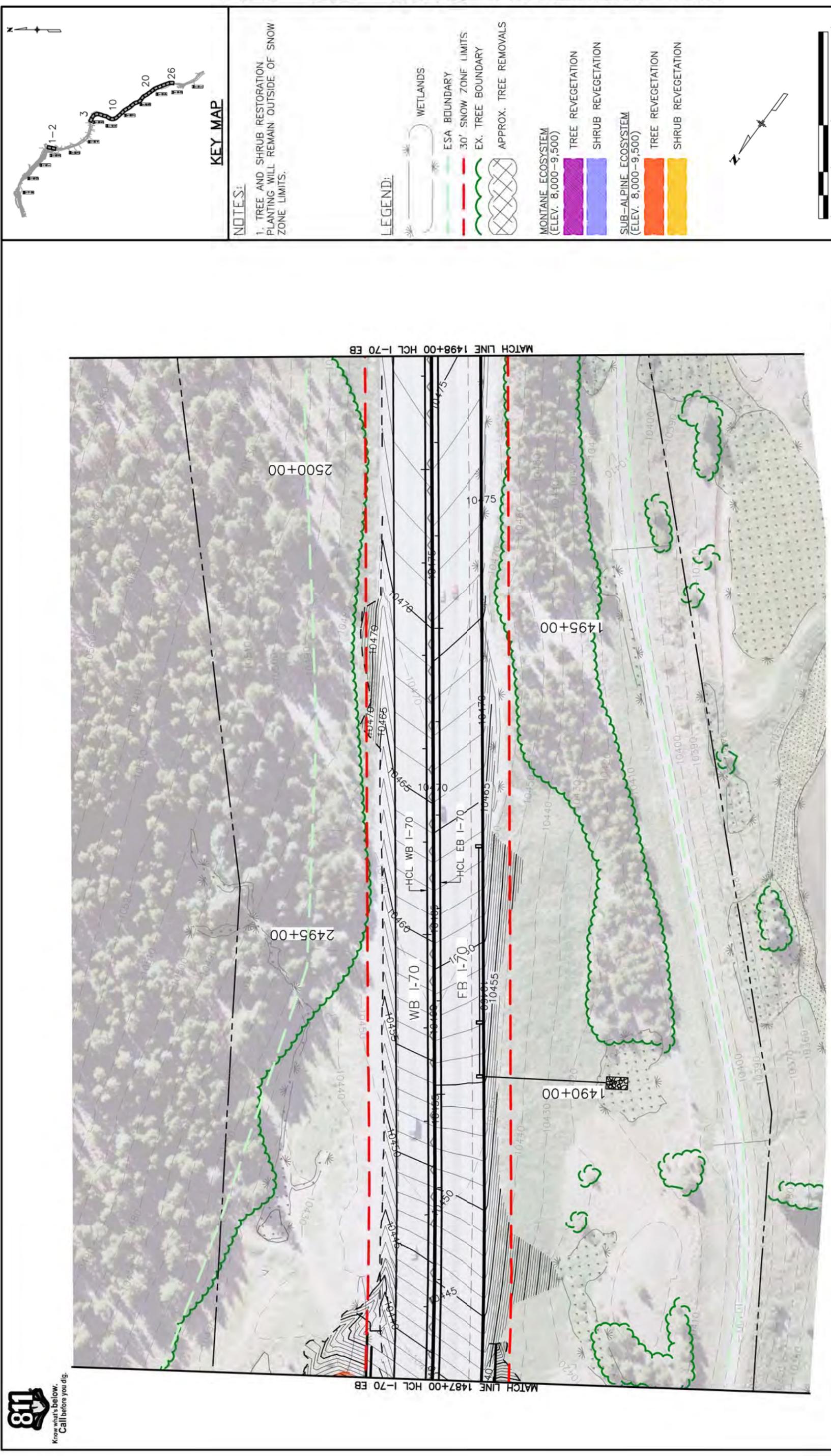


**NOTES:**  
 1. TREE AND SHRUB RESTORATION PLANTING WILL REMAIN OUTSIDE OF SNOW ZONE LIMITS.

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- WETLANDS
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Print Date: 09/14/2021		Project No./Code	
File Name: 23982des_ls-sheets		NHP 0702-410	
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Unit Information		Unit Leader Initials	
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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 1476+00 TO 1487+00 LANDSCAPE PLAN	
Region 3 KMB		Designer: PKM Structure Detailer: AJB Numbers Sheet Subset: LANDSCAPE Sheet Number: 460 Subsets: 19 of 26	



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

- TREE REVEGETATION
- SHRUB REVEGETATION

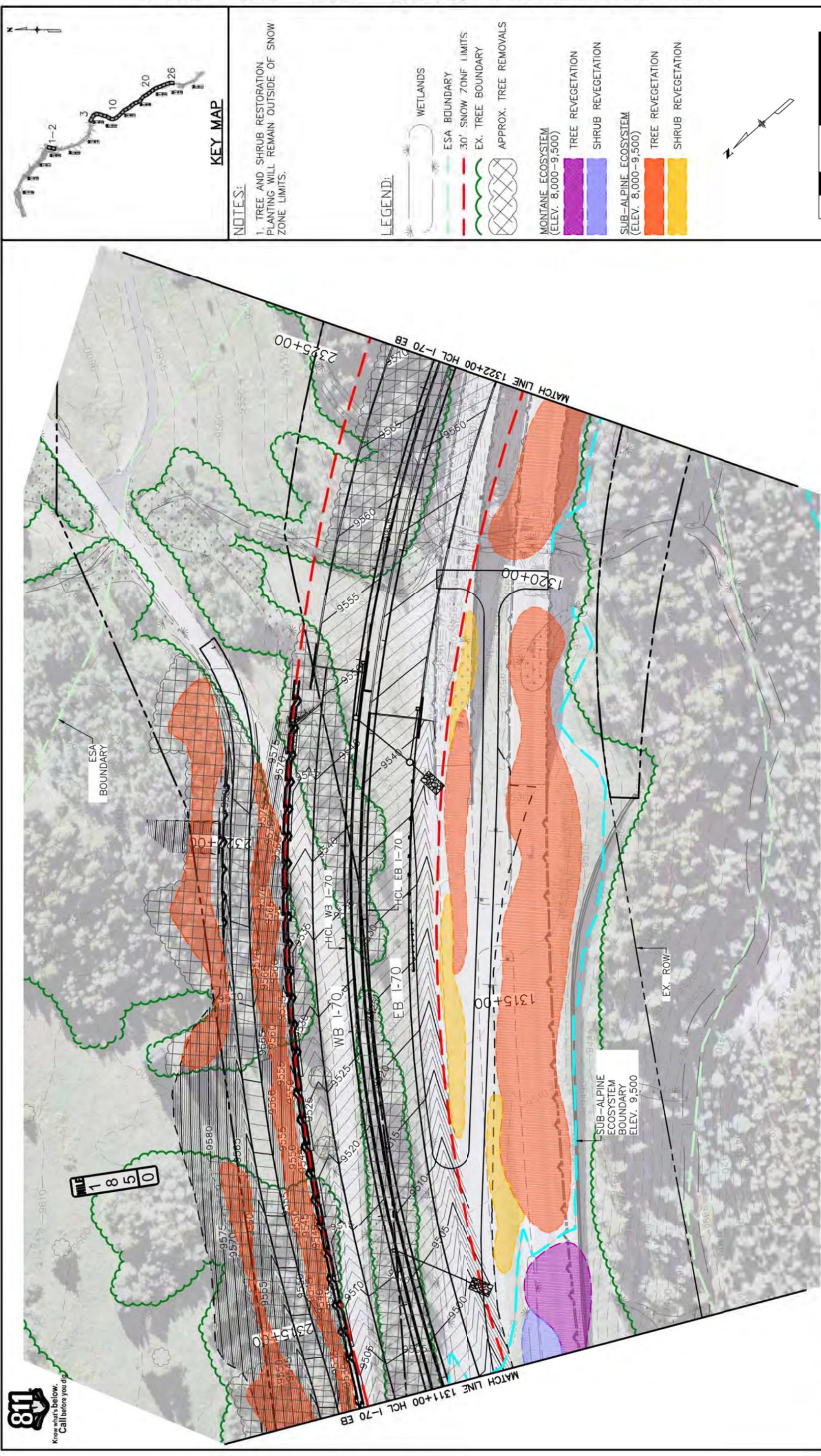
**SUB-ALPINE ECOSYSTEM (ELEV. 8,000-9,500)**

- TREE REVEGETATION
- SHRUB REVEGETATION

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



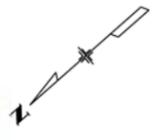
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Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368		Region 3 KMB	
As Constructed No Revisions: Revised: Void:		WEST VAIL PASS 1487+00 TO 1498+00 LANDSCAPE PLAN	
Designer: PKM Detailer: AJB		Project No./Code NHPP 0702-410	
Sheet Subset: LANDSCAPE		Sheet Number 461	
Subsets: 20 of 26		23982	



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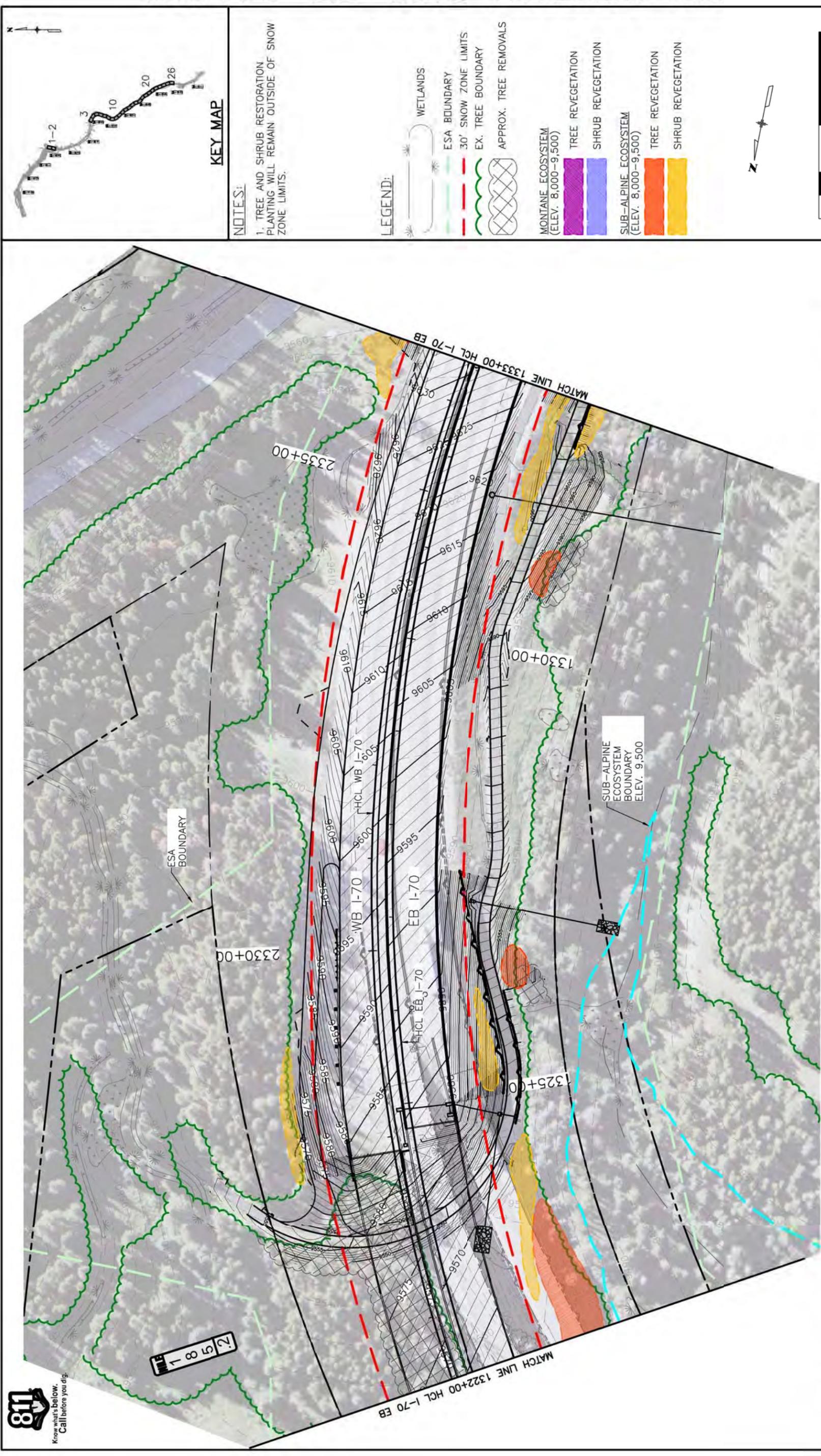
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Print Date: 09/14/2021 File Name: 23982des_ls-sheets Horiz. Scale: 1:100 Unit Information <b>RS&amp;H</b>	Sheet Revisions Date: _____ Init: _____ Comments: _____ _____ _____ _____		As Constructed No Revisions: _____ Revised: _____ Void: _____		WEST VAIL PASS 1311+00 TO 1322+00 LANDSCAPE PLAN		Project No./Code NHPP 0702-410	
	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: 445		Subsheet: LANDSCAPE Subsheet Number: 04 of 26	





1 8 5 2

**KEY MAP**



**NOTES:**

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	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 Structure Detailer: AJB Numbers Sheet Subset: LANDSCAPE Subset Sheets: 05 of 26		23982 Sheet Number 446	