

Logistics in Shared ROW with Electrical Transmission



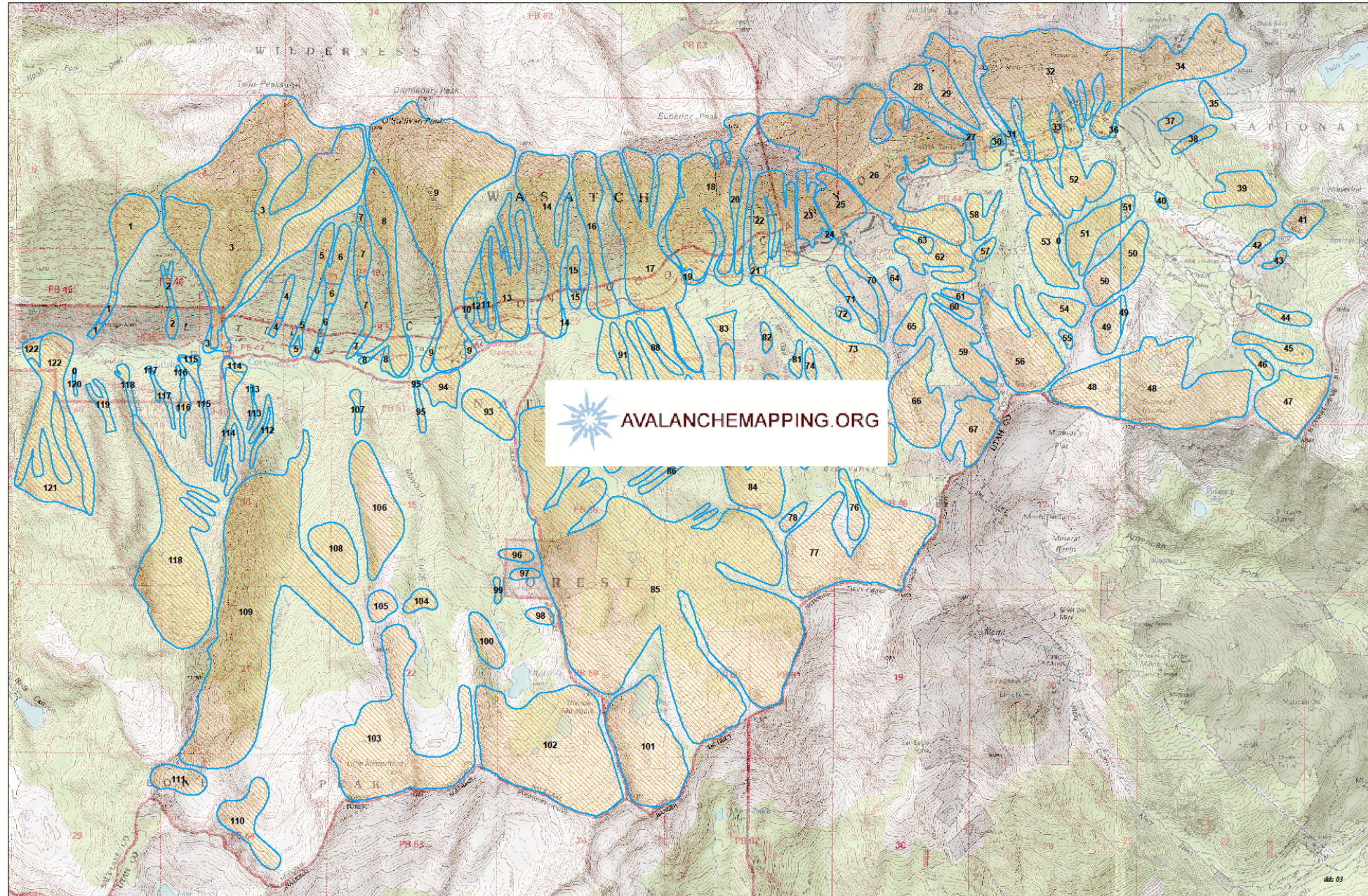




AVALANCHE PATHS OF LITTLE COTTONWOOD CANYON, UTAH

AVALANCHE PATHS:

1. Morman Slide
2. Acorn
3. Lisa Falls
4. Oak Ridge
5. 7-Turns
6. Old Mill
7. Goat
8. Maybird
9. Tanners
10. White Pine Chute 6
11. White Pine Chute 4-6
12. White Pine Chute 5
13. White Pine Chute 1-4
14. White Pine
15. Elbert's Slide
16. Little Pine
17. Little Pine East, Jedediah's
18. Willows, Cottonwood Draw, Monte Cristo
19. Willows
20. Monte Cristo Gully
21. #10 Springs Face
22. #10 Springs Gully, Ted's House
23. High Models
24. WastachAV_ID #218
25. Valerie's, Valerie's East, Hilton
26. Superior, Hellgate, Sixtyfour Chute, Blackjack
27. Cardiff Bowl
28. Cardiff Bowl, Toledo Bowl
29. Cardiff Bowl
30. Toledo Bowl
31. Flagstaff Shoulder
32. Flagstaff, Emma Chutes, Culp's
33. WastachAV_ID #175
34. Grizzly
35. WastachAV_ID #170
36. Grizzly Gulch
37. WastachAV_ID #177
38. WastachAV_ID #182
39. WastachAV_ID #195
40. WastachAV_ID #203
41. WastachAV_ID #209
42. WastachAV_ID #219
43. WastachAV_ID #228
44. WastachAV_ID #252
45. WastachAV_ID #267
46. WastachAV_ID #280
47. WastachAV_ID #292
48. WastachAV_ID #273, 283
49. WastachAV_ID #247, 248
50. WastachAV_ID #213, 224
51. WastachAV_ID #206, 207
52. WastachAV_ID #187
53. WastachAV_ID #192
54. WastachAV_ID #244
55. WastachAV_ID #266
56. WastachAV_ID #240
57. WastachAV_ID #222
58. WastachAV_ID #201
59. WastachAV_ID #254
60. WastachAV_ID #245
61. WastachAV_ID #241



AVALANCHE PATHS:

62. WastachAV_ID #216
63. L Blackjack
64. WastachAV_ID #234
65. WastachAV_ID #246
66. WastachAV_ID #275
67. WastachAV_ID #307
68. WastachAV_ID #311
69. Gad Valley
70. Daltons
71. Mach Schnell
72. WastachAV_ID #256
73. Wilbere Bowl
74. WastachAV_ID #279
75. Gad Valley Gulch
76. Gad Valley
77. Gad Valley
78. Gad Valley
79. Gad Valley Gulch
80. WastachAV_ID #294
81. WastachAV_ID #276
82. Gad Valley Gulch
83. Thunder Bowl
84. Gad Valley
85. WastachAV_ID #309
86. WastachAV_ID #318
87. WastachAV_ID #317
88. WastachAV_ID #306
89. WastachAV_ID #304
90. Y. Couloir
91. Y-Not
92. Coffin Chute
93. Scotty's Bowl
94. Scotty's Notch
95. WastachAV_ID #300
96. Display Ridge
97. Red Pine Chute
98. Red Pine Fork
99. Red Pine Fork
100. Red Pine Fork
101. WastachAV_ID #332
102. Thunder Mountain
103. Little Matterhorn Peak
104. MayBird Gulch
105. MayBird Gulch
106. MayBird Gulch
107. MayBird Gulch
108. Hogum Fork
109. Hogum Fork
110. WastachAV_ID #335
111. WastachAV_ID #334
112. WastachAV_ID #306
113. WastachAV_ID #304
114. Y. Couloir
115. Y-Not
116. WastachAV_ID #296
117. WastachAV_ID #295
118. Coalpit Gulch
119. Waterfall
120. WastachAV_ID #293
121. Coalpit Slide
122. Coalpit Slide



The Opportunity

- Cellular Service development
 - Limited Power and Communications
- Utah Adopts “Dig Once” Priority
 - Joint Trench



The Result

- Electrical Utility Declined Joint Trench
- Projects completed with own power circuits
- 5 years later electrical utility burying lines in same road



Logan Canyon

- Critical Arterial
- Seasonal Traffic
- Desire for cellular communications

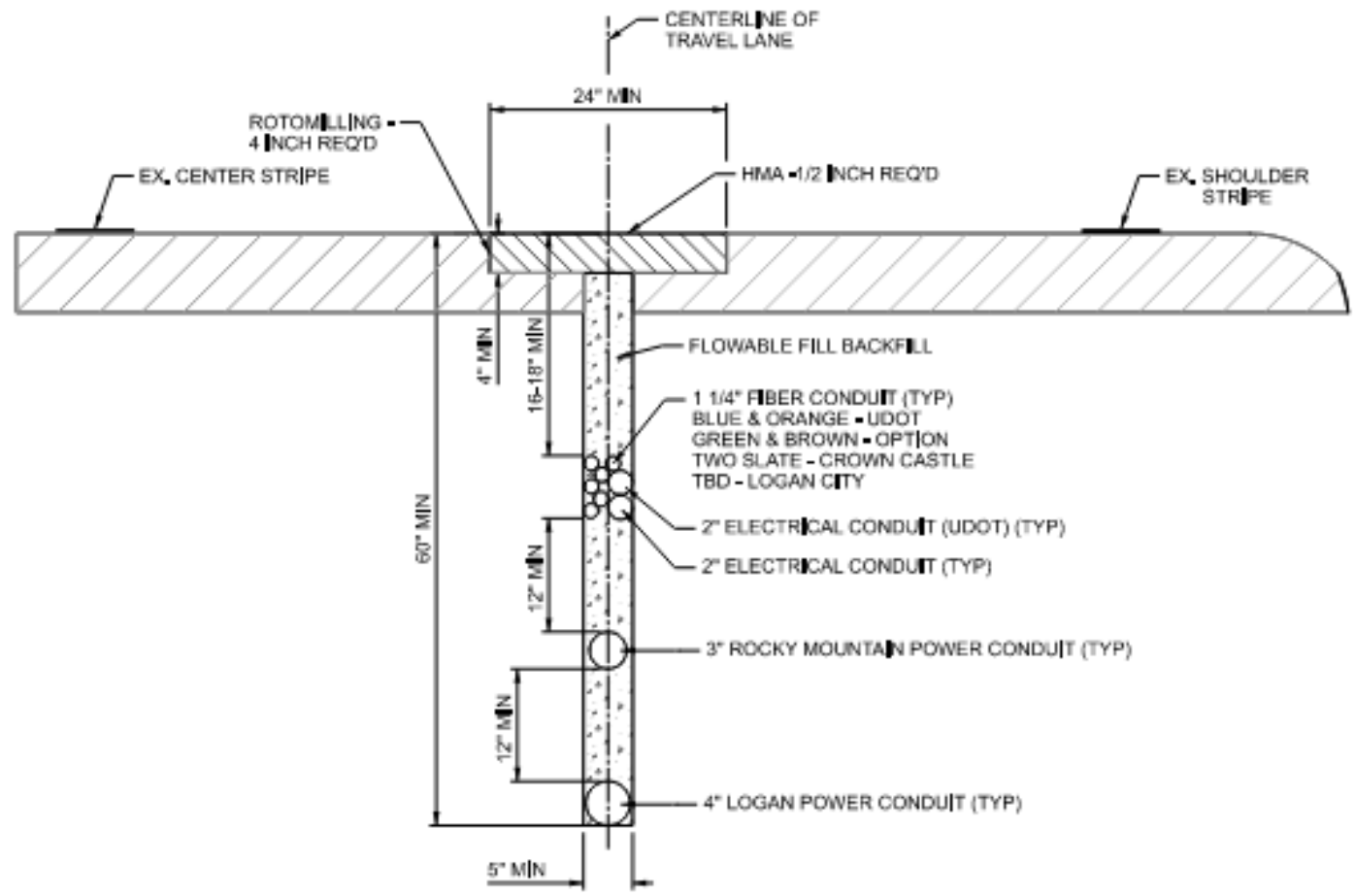
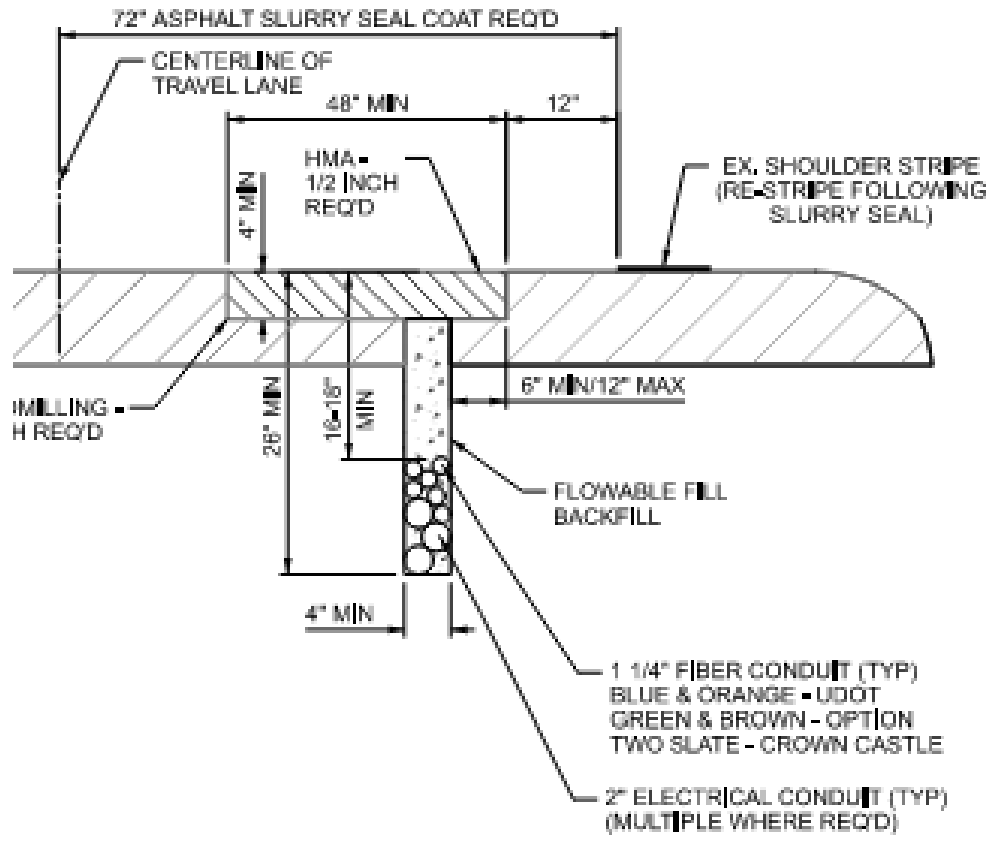


Logan Canyon

- Joint Trench Agreed
 - 4 Parties

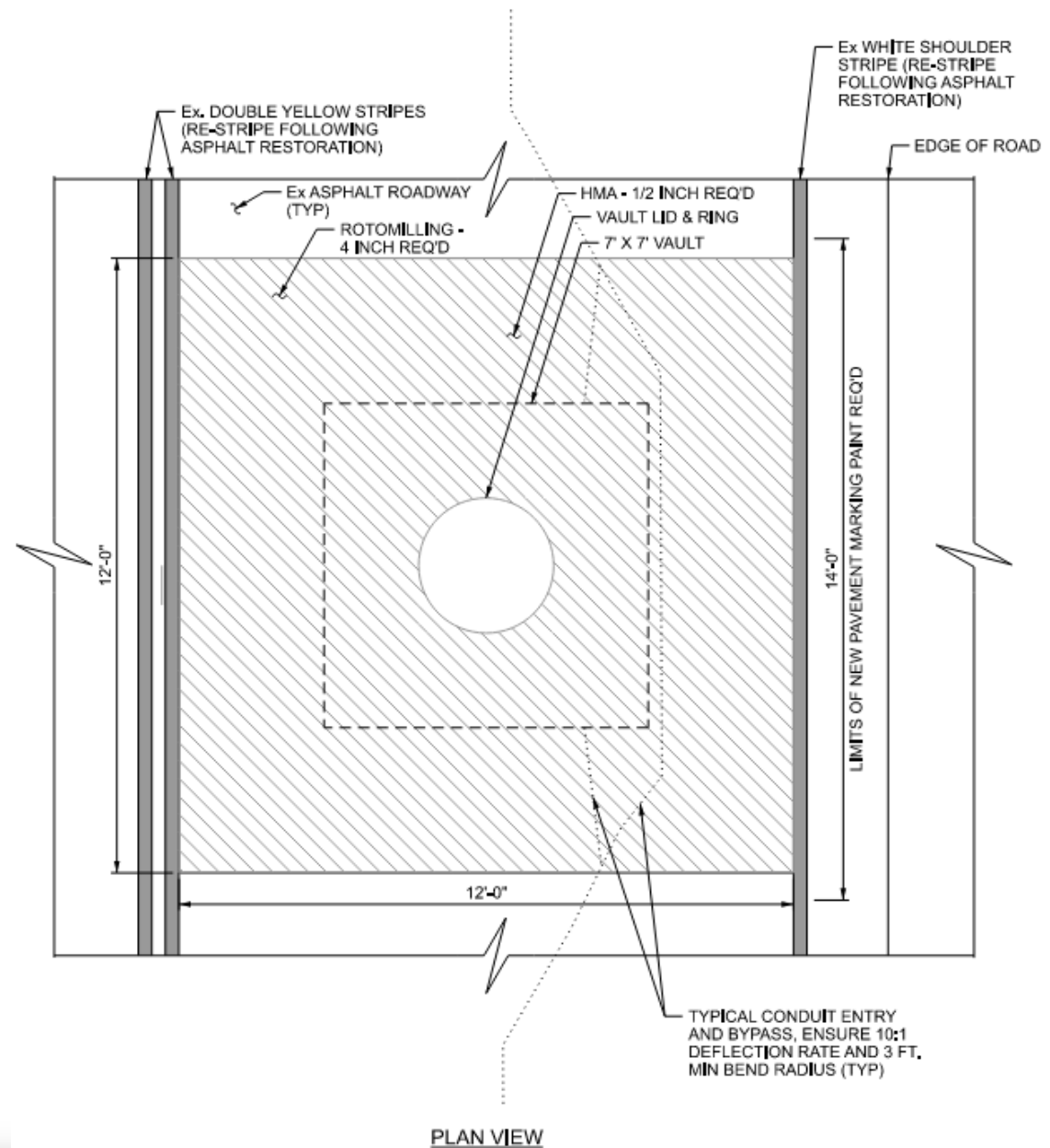


Joint Trench Impacts



Other Logistics

- Vaults
- Trench location
- Pavement
- Traffic control



PLAN VIEW