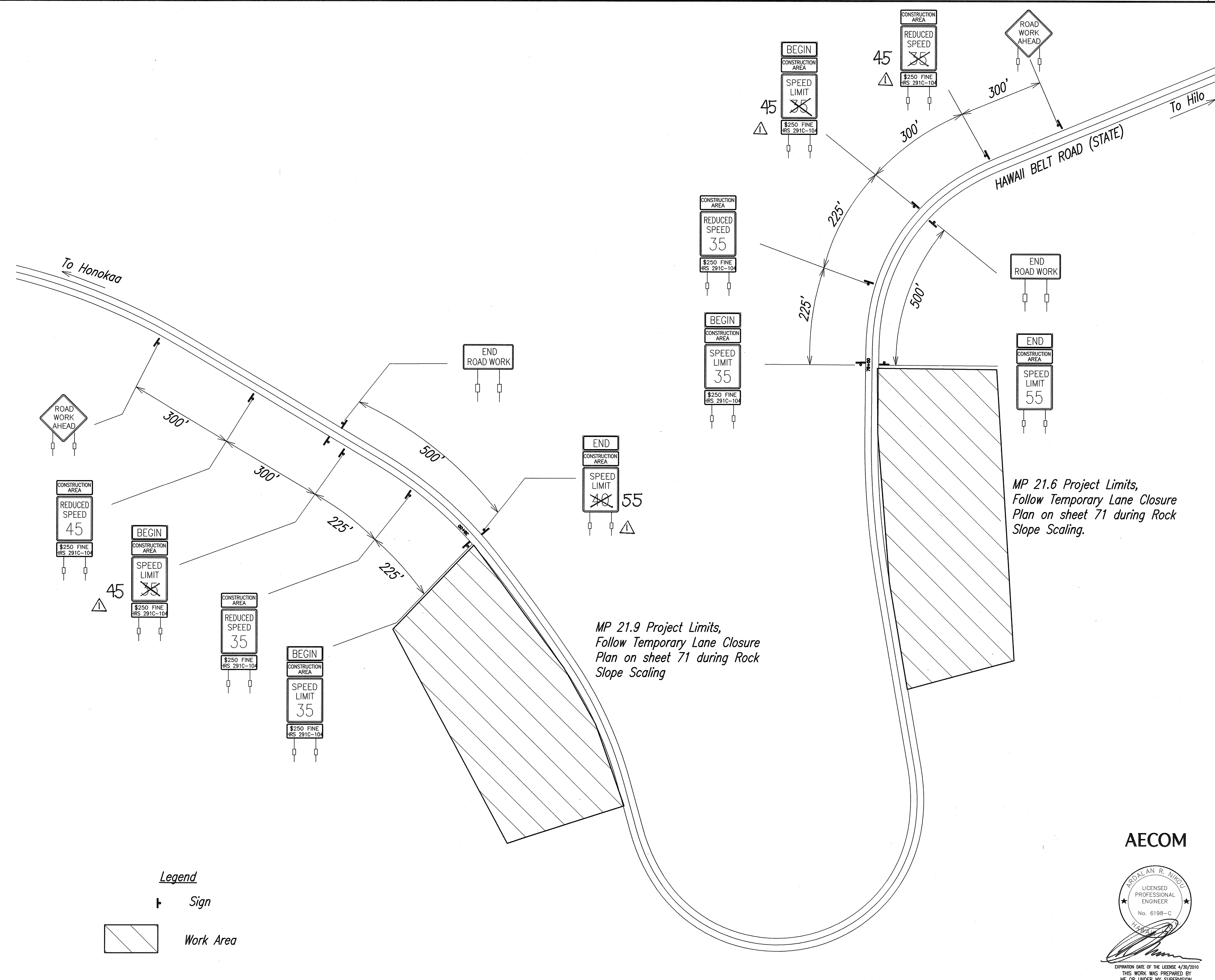


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-15(21)	2010	63R	89



MP 21.9 Project Limits,
Follow Temporary Lane Closure
Plan on sheet 71 during Rock
Slope Scaling

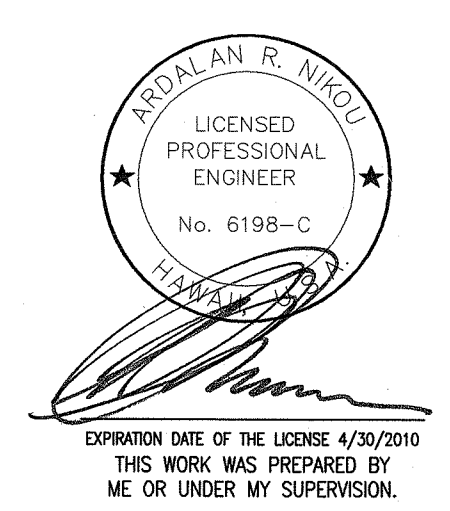
MP 21.6 Project Limits,
Follow Temporary Lane Closure
Plan on sheet 71 during Rock
Slope Scaling.

Legend

- Sign
- Work Area

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

AECOM



6-30-10	Changed speed limit signs per Addendum #2
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

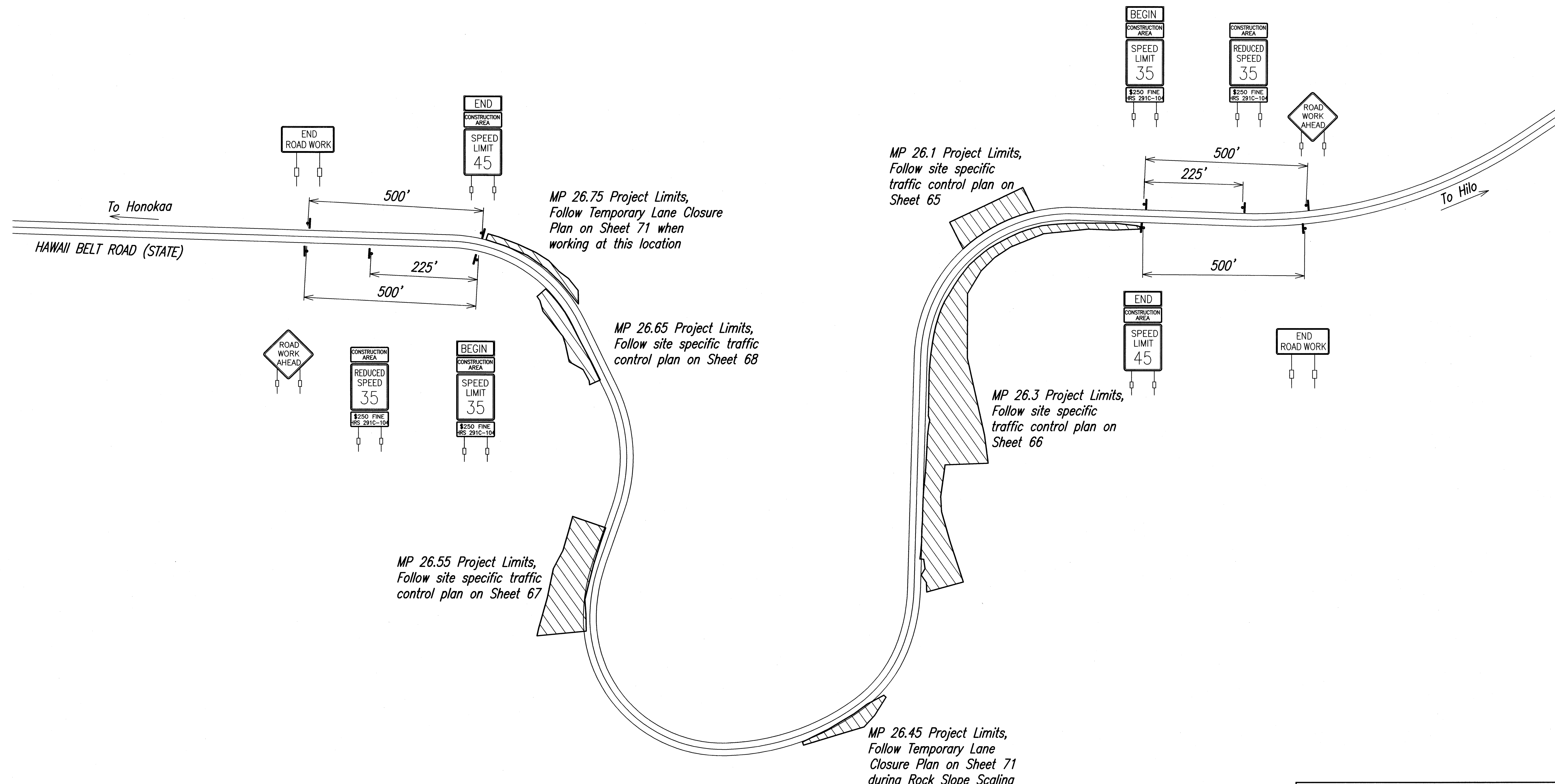
TRAFFIC CONTROL
MP 21.6 THRU MP 21.9
EMERGENCY EARTHQUAKE ROCKFALL REPAIRS
AT VARIOUS LOCATIONS
F.A. Project No. ER-15(21)

Scale: Not to Scale Date: December, 2009

SHEET No. 2 OF 13 SHEETS

P:\15\15003-201 Emergency Earthquake Repairs\15003-201 Traffic Control MP 21.6 thru MP 21.9.dwg 12/15/2009 10:45:00 AM 15003-201.dwg 12/15/2009 10:45:00 AM 15003-201.dwg

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-15(21)	2010	64	89



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	CHECKED BY	
No.		

Legend

Work Area

Sign

- Notes:**
- See sheet 71 for temporary lane closure plan.

AECOM

ARJALAN R. NIKEU
LICENSED PROFESSIONAL ENGINEER
No. 6198-C
HAWAII

EXPIRATION DATE OF THE LICENSE: 4/30/2010
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

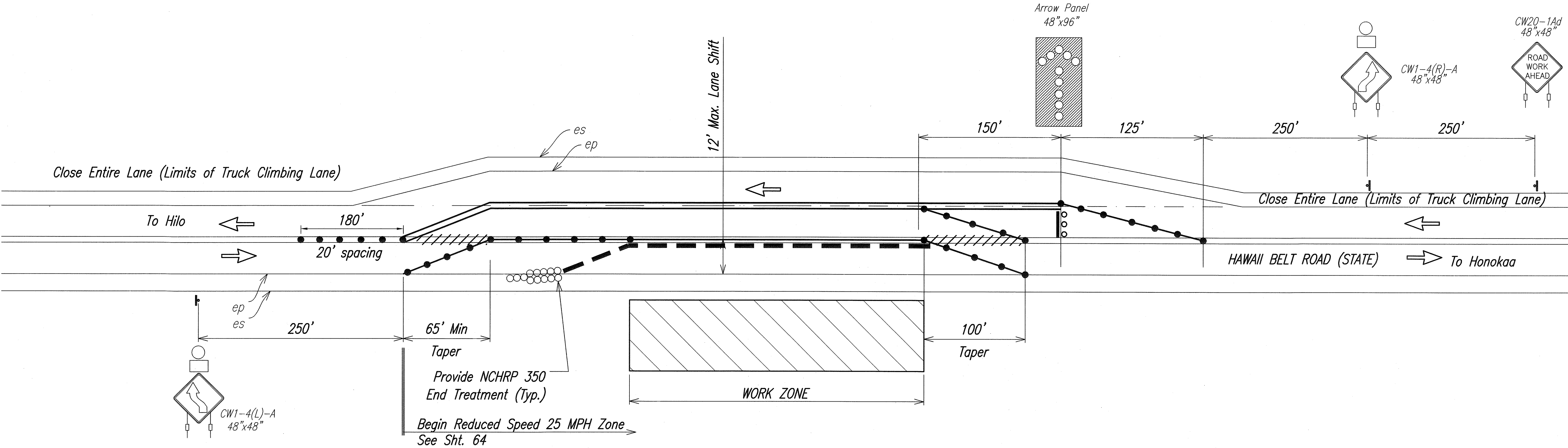
TRAFFIC CONTROL
MP 26.1 THRU MP 26.75
EMERGENCY EARTHQUAKE ROCKFALL REPAIRS
AT VARIOUS LOCATIONS
F.A. Project No. ER-15(21)

Scale: Not to Scale Date: December, 2009

SHEET No. 3 OF 13 SHEETS

P:\15\150012-001 Earthquake Remedial Repairs\2010 FAS\01 Drawings\26.1 Traffic Control MP 26.1 thru MP 26.75.dwg, 11-05-2010 08:21 pm, PLOT DATE: 05-26-2010 08:03 am

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-15(21)	2010	65R	89



Legend

- Temporary double 4" yellow stripe w/ Double row Type D reflectors at 20' OC, typical.
- Temporary 4" stripe with flexible delineator post
- Temporary 4" stripe
- Remove existing marking
- Portable Concrete Barrier
- Sign
- Flexible Delineator Post
- Direction of Traffic
- Work Area
- Arrow Panel
- Inertial Barrier System
- Flashing Light (Photovoltaic)

Notes:

- Delineators to be mounted 24 hours. Delineator spacing not drawn to scale. Actual spacing shall be as specified by the Delineator Schedule on this sheet.
- Double Type D reflectors shall be mounted in-line with double 4" yellow stripes. If installing in conjunction with 4" tape, cut and remove tape section prior to setting reflectors.
- Portable Concrete Barriers shall extend through the full length of CRM wall removal and shall remain in place until the new guardrail has been fully constructed.
- Portable Concrete Barriers shall have 4" White Stripe along bottom face, and steady burn lights mounted at 20' on center. See Std. Detail TE-42 and TE-43 for Portable Concrete Barrier Details.
- All shoulder striping and delineator posts shall be white.
- All centerline striping, raised pavement markers, and delineator posts shall be yellow.
- Arrow panel shall have a minimum of 15 lamps and shall be visible at 1 mile minimum legibility distance.
- Replace all pavement striping and markers within the traffic control limits after work is completed.

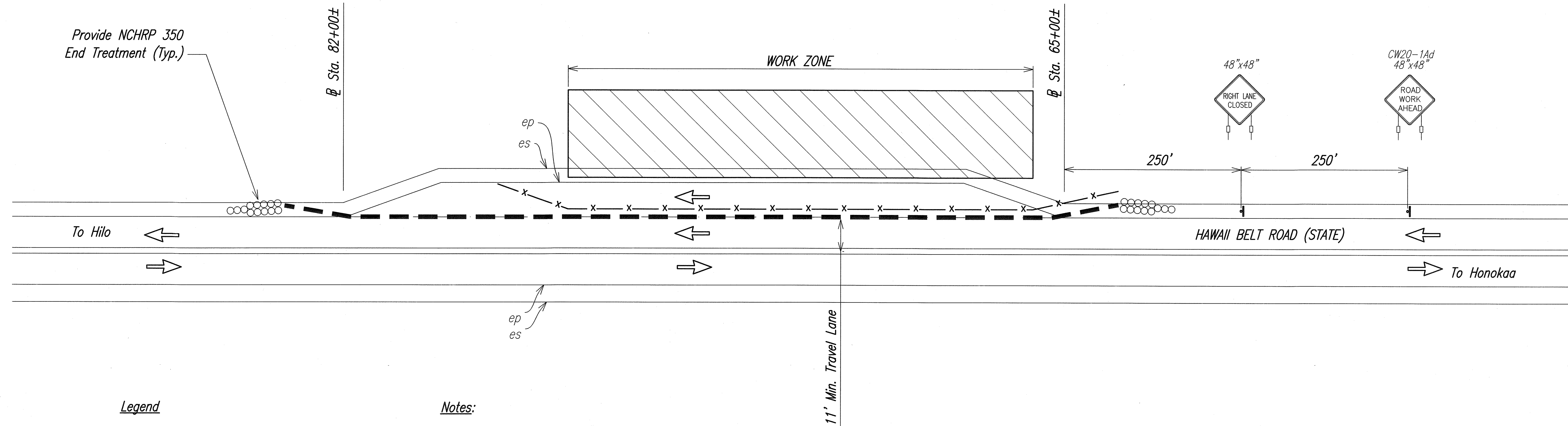
DELINEATOR SCHEDULE	
LOCATION	SPACING (FEET)
Buffer	35
Work	10
Taper	20

- Close the entire truck climbing lane beginning at Baseline Station 68+00± and ending at Baseline Station 85+00±.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

PROJECT: HAWAII STATE ROUTE 26.1, MP 26.1, LANE 1, LANE 2, LANE 3, LANE 4, LANE 5, LANE 6, LANE 7, LANE 8, LANE 9, LANE 10, LANE 11, LANE 12, LANE 13, LANE 14, LANE 15, LANE 16, LANE 17, LANE 18, LANE 19, LANE 20, LANE 21, LANE 22, LANE 23, LANE 24, LANE 25, LANE 26, LANE 27, LANE 28, LANE 29, LANE 30, LANE 31, LANE 32, LANE 33, LANE 34, LANE 35, LANE 36, LANE 37, LANE 38, LANE 39, LANE 40, LANE 41, LANE 42, LANE 43, LANE 44, LANE 45, LANE 46, LANE 47, LANE 48, LANE 49, LANE 50, LANE 51, LANE 52, LANE 53, LANE 54, LANE 55, LANE 56, LANE 57, LANE 58, LANE 59, LANE 60, LANE 61, LANE 62, LANE 63, LANE 64, LANE 65, LANE 66, LANE 67, LANE 68, LANE 69, LANE 70, LANE 71, LANE 72, LANE 73, LANE 74, LANE 75, LANE 76, LANE 77, LANE 78, LANE 79, LANE 80, LANE 81, LANE 82, LANE 83, LANE 84, LANE 85, LANE 86, LANE 87, LANE 88, LANE 89, LANE 90, LANE 91, LANE 92, LANE 93, LANE 94, LANE 95, LANE 96, LANE 97, LANE 98, LANE 99, LANE 100, LANE 101, LANE 102, LANE 103, LANE 104, LANE 105, LANE 106, LANE 107, LANE 108, LANE 109, LANE 110, LANE 111, LANE 112, LANE 113, LANE 114, LANE 115, LANE 116, LANE 117, LANE 118, LANE 119, LANE 120, LANE 121, LANE 122, LANE 123, LANE 124, LANE 125, LANE 126, LANE 127, LANE 128, LANE 129, LANE 130, LANE 131, LANE 132, LANE 133, LANE 134, LANE 135, LANE 136, LANE 137, LANE 138, LANE 139, LANE 140, LANE 141, LANE 142, LANE 143, LANE 144, LANE 145, LANE 146, LANE 147, LANE 148, LANE 149, LANE 150, LANE 151, LANE 152, LANE 153, LANE 154, LANE 155, LANE 156, LANE 157, LANE 158, LANE 159, LANE 160, LANE 161, LANE 162, LANE 163, LANE 164, LANE 165, LANE 166, LANE 167, LANE 168, LANE 169, LANE 170, LANE 171, LANE 172, LANE 173, LANE 174, LANE 175, LANE 176, LANE 177, LANE 178, LANE 179, LANE 180, LANE 181, LANE 182, LANE 183, LANE 184, LANE 185, LANE 186, LANE 187, LANE 188, LANE 189, LANE 190, LANE 191, LANE 192, LANE 193, LANE 194, LANE 195, LANE 196, LANE 197, LANE 198, LANE 199, LANE 200, LANE 201, LANE 202, LANE 203, LANE 204, LANE 205, LANE 206, LANE 207, LANE 208, LANE 209, LANE 210, LANE 211, LANE 212, LANE 213, LANE 214, LANE 215, LANE 216, LANE 217, LANE 218, LANE 219, LANE 220, LANE 221, LANE 222, LANE 223, LANE 224, LANE 225, LANE 226, LANE 227, LANE 228, LANE 229, LANE 230, LANE 231, LANE 232, LANE 233, LANE 234, LANE 235, LANE 236, LANE 237, LANE 238, LANE 239, LANE 240, LANE 241, LANE 242, LANE 243, LANE 244, LANE 245, LANE 246, LANE 247, LANE 248, LANE 249, LANE 250, LANE 251, LANE 252, LANE 253, LANE 254, LANE 255, LANE 256, LANE 257, LANE 258, LANE 259, LANE 260, LANE 261, LANE 262, LANE 263, LANE 264, LANE 265, LANE 266, LANE 267, LANE 268, LANE 269, LANE 270, LANE 271, LANE 272, LANE 273, LANE 274, LANE 275, LANE 276, LANE 277, LANE 278, LANE 279, LANE 280, LANE 281, LANE 282, LANE 283, LANE 284, LANE 285, LANE 286, LANE 287, LANE 288, LANE 289, LANE 290, LANE 291, LANE 292, LANE 293, LANE 294, LANE 295, LANE 296, LANE 297, LANE 298, LANE 299, LANE 300, LANE 301, LANE 302, LANE 303, LANE 304, LANE 305, LANE 306, LANE 307, LANE 308, LANE 309, LANE 310, LANE 311, LANE 312, LANE 313, LANE 314, LANE 315, LANE 316, LANE 317, LANE 318, LANE 319, LANE 320, LANE 321, LANE 322, LANE 323, LANE 324, LANE 325, LANE 326, LANE 327, LANE 328, LANE 329, LANE 330, LANE 331, LANE 332, LANE 333, LANE 334, LANE 335, LANE 336, LANE 337, LANE 338, LANE 339, LANE 340, LANE 341, LANE 342, LANE 343, LANE 344, LANE 345, LANE 346, LANE 347, LANE 348, LANE 349, LANE 350, LANE 351, LANE 352, LANE 353, LANE 354, LANE 355, LANE 356, LANE 357, LANE 358, LANE 359, LANE 360, LANE 361, LANE 362, LANE 363, LANE 364, LANE 365, LANE 366, LANE 367, LANE 368, LANE 369, LANE 370, LANE 371, LANE 372, LANE 373, LANE 374, LANE 375, LANE 376, LANE 377, LANE 378, LANE 379, LANE 380, LANE 381, LANE 382, LANE 383, LANE 384, LANE 385, LANE 386, LANE 387, LANE 388, LANE 389, LANE 390, LANE 391, LANE 392, LANE 393, LANE 394, LANE 395, LANE 396, LANE 397, LANE 398, LANE 399, LANE 400, LANE 401, LANE 402, LANE 403, LANE 404, LANE 405, LANE 406, LANE 407, LANE 408, LANE 409, LANE 410, LANE 411, LANE 412, LANE 413, LANE 414, LANE 415, LANE 416, LANE 417, LANE 418, LANE 419, LANE 420, LANE 421, LANE 422, LANE 423, LANE 424, LANE 425, LANE 426, LANE 427, LANE 428, LANE 429, LANE 430, LANE 431, LANE 432, LANE 433, LANE 434, LANE 435, LANE 436, LANE 437, LANE 438, LANE 439, LANE 440, LANE 441, LANE 442, LANE 443, LANE 444, LANE 445, LANE 446, LANE 447, LANE 448, LANE 449, LANE 450, LANE 451, LANE 452, LANE 453, LANE 454, LANE 455, LANE 456, LANE 457, LANE 458, LANE 459, LANE 460, LANE 461, LANE 462, LANE 463, LANE 464, LANE 465, LANE 466, LANE 467, LANE 468, LANE 469, LANE 470, LANE 471, LANE 472, LANE 473, LANE 474, LANE 475, LANE 476, LANE 477, LANE 478, LANE 479, LANE 480, LANE 481, LANE 482, LANE 483, LANE 484, LANE 485, LANE 486, LANE 487, LANE 488, LANE 489, LANE 490, LANE 491, LANE 492, LANE 493, LANE 494, LANE 495, LANE 496, LANE 497, LANE 498, LANE 499, LANE 500, LANE 501, LANE 502, LANE 503, LANE 504, LANE 505, LANE 506, LANE 507, LANE 508, LANE 509, LANE 510, LANE 511, LANE 512, LANE 513, LANE 514, LANE 515, LANE 516, LANE 517, LANE 518, LANE 519, LANE 520, LANE 521, LANE 522, LANE 523, LANE 524, LANE 525, LANE 526, LANE 527, LANE 528, LANE 529, LANE 530, LANE 531, LANE 532, LANE 533, LANE 534, LANE 535, LANE 536, LANE 537, LANE 538, LANE 539, LANE 540, LANE 541, LANE 542, LANE 543, LANE 544, LANE 545, LANE 546, LANE 547, LANE 548, LANE 549, LANE 550, LANE 551, LANE 552, LANE 553, LANE 554, LANE 555, LANE 556, LANE 557, LANE 558, LANE 559, LANE 560, LANE 561, LANE 562, LANE 563, LANE 564, LANE 565, LANE 566, LANE 567, LANE 568, LANE 569, LANE 570, LANE 571, LANE 572, LANE 573, LANE 574, LANE 575, LANE 576, LANE 577, LANE 578, LANE 579, LANE 580, LANE 581, LANE 582, LANE 583, LANE 584, LANE 585, LANE 586, LANE 587, LANE 588, LANE 589, LANE 590, LANE 591, LANE 592, LANE 593, LANE 594, LANE 595, LANE 596, LANE 597, LANE 598, LANE 599, LANE 600, LANE 601, LANE 602, LANE 603, LANE 604, LANE 605, LANE 606, LANE 607, LANE 608, LANE 609, LANE 610, LANE 611, LANE 612, LANE 613, LANE 614, LANE 615, LANE 616, LANE 617, LANE 618, LANE 619, LANE 620, LANE 621, LANE 622, LANE 623, LANE 624, LANE 625, LANE 626, LANE 627, LANE 628, LANE 629, LANE 630, LANE 631, LANE 632, LANE 633, LANE 634, LANE 635, LANE 636, LANE 637, LANE 638, LANE 639, LANE 640, LANE 641, LANE 642, LANE 643, LANE 644, LANE 645, LANE 646, LANE 647, LANE 648, LANE 649, LANE 650, LANE 651, LANE 652, LANE 653, LANE 654, LANE 655, LANE 656, LANE 657, LANE 658, LANE 659, LANE 660, LANE 661, LANE 662, LANE 663, LANE 664, LANE 665, LANE 666, LANE 667, LANE 668, LANE 669, LANE 670, LANE 671, LANE 672, LANE 673, LANE 674, LANE 675, LANE 676, LANE 677, LANE 678, LANE 679, LANE 680, LANE 681, LANE 682, LANE 683, LANE 684, LANE 685, LANE 686, LANE 687, LANE 688, LANE 689, LANE 690, LANE 691, LANE 692, LANE 693, LANE 694, LANE 695, LANE 696, LANE 697, LANE 698, LANE 699, LANE 700, LANE 701, LANE 702, LANE 703, LANE 704, LANE 705, LANE 706, LANE 707, LANE 708, LANE 709, LANE 710, LANE 711, LANE 712, LANE 713, LANE 714, LANE 715, LANE 716, LANE 717, LANE 718, LANE 719, LANE 720, LANE 721, LANE 722, LANE 723, LANE 724, LANE 725, LANE 726, LANE 727, LANE 728, LANE 729, LANE 730, LANE 731, LANE 732, LANE 733, LANE 734, LANE 735, LANE 736, LANE 737, LANE 738, LANE 739, LANE 740, LANE 741, LANE 742, LANE 743, LANE 744, LANE 745, LANE 746, LANE 747, LANE 748, LANE 749, LANE 750, LANE 751, LANE 752, LANE 753, LANE 754, LANE 755, LANE 756, LANE 757, LANE 758, LANE 759, LANE 760, LANE 761, LANE 762, LANE 763, LANE 764, LANE 765, LANE 766, LANE 767, LANE 768, LANE 769, LANE 770, LANE 771, LANE 772, LANE 773, LANE 774, LANE 775, LANE 776, LANE 777, LANE 778, LANE 779, LANE 780, LANE 781, LANE 782, LANE 783, LANE 784, LANE 785, LANE 786, LANE 787, LANE 788, LANE 789, LANE 790, LANE 791, LANE 792, LANE 793, LANE 794, LANE 795, LANE 796, LANE 797, LANE 798, LANE 799, LANE 800, LANE 801, LANE 802, LANE 803, LANE 804, LANE 805, LANE 806, LANE 807, LANE 808, LANE 809, LANE 810, LANE 811, LANE 812, LANE 813, LANE 814, LANE 815, LANE 816, LANE 817, LANE 818, LANE 819, LANE 820, LANE 821, LANE 822, LANE 823, LANE 824, LANE 825, LANE 826, LANE 827, LANE 828, LANE 829, LANE 830, LANE 831, LANE 832, LANE 833, LANE 834, LANE 835, LANE 836, LANE 837, LANE 838, LANE 839, LANE 840, LANE 841, LANE 842, LANE 843, LANE 844, LANE 845, LANE 846, LANE 847, LANE 848, LANE 849, LANE 850, LANE 851, LANE 852, LANE 853, LANE 854, LANE 855, LANE 856, LANE 857, LANE 858, LANE 859, LANE 860, LANE 861, LANE 862, LANE 863, LANE 864, LANE 865, LANE 866, LANE 867, LANE 868, LANE 869, LANE 870, LANE 871, LANE 872, LANE 873, LANE 874, LANE 875, LANE 876, LANE 877, LANE 878, LANE 879, LANE 880, LANE 881, LANE 882, LANE 883, LANE 884, LANE 885, LANE 886, LANE 887, LANE 888, LANE 889, LANE 890, LANE 891, LANE 892, LANE 893, LANE 894, LANE 895, LANE 896, LANE 897, LANE 898, LANE 899, LANE 900, LANE 901, LANE 902, LANE 903, LANE 904, LANE 905, LANE 906, LANE 907, LANE 908, LANE 909, LANE 910, LANE 911, LANE 912, LANE 913, LANE 914, LANE 915, LANE 916, LANE 917, LANE 918, LANE 919, LANE 920, LANE 921, LANE 922, LANE 923, LANE 924, LANE 925, LANE 926, LANE 927, LANE 928, LANE 929, LANE 930, LANE 931, LANE 932, LANE 933, LANE 934, LANE 935, LANE 936, LANE 937, LANE 938, LANE 939, LANE 940, LANE 941, LANE 942, LANE 943, LANE 944, LANE 945, LANE 946, LANE 947, LANE 948, LANE 949, LANE 950, LANE 951, LANE 952, LANE 953, LANE 954, LANE 955, LANE 956, LANE 957, LANE 958, LANE 959, LANE 960, LANE 961, LANE 962, LANE 963, LANE 964, LANE 965, LANE 966, LANE 967, LANE 968, LANE 969, LANE 970, LANE 971, LANE 972, LANE 973, LANE 974, LANE 975, LANE 976, LANE 977, LANE 978, LANE 979, LANE 980, LANE 981, LANE 982, LANE 983, LANE 984, LANE 985, LANE 986, LANE 987, LANE 988, LANE 989, LANE 990, LANE 991, LANE 992, LANE 993, LANE 994, LANE 995, LANE 996, LANE 997, LANE 998, LANE 999, LANE 1000, LANE 1001, LANE 1002, LANE 1003, LANE 1004, LANE 1005, LANE 1006, LANE 1007, LANE 1008, LANE 1009, LANE 1010, LANE 1011, LANE 1012, LANE 1013, LANE 1014, LANE 1015, LANE 1016, LANE 1017, LANE 1018, LANE 1019, LANE 1020, LANE 1021, LANE 1022, LANE 1023, LANE 1024, LANE 1025, LANE 1026, LANE 1027, LANE 1028, LANE 1029, LANE 1030, LANE 1031, LANE 1032, LANE 1033, LANE 1034, LANE 1035, LANE 1036, LANE 1037, LANE 1038, LANE 1039, LANE 1040, LANE 1041, LANE 1042, LANE 1043, LANE 1044, LANE 1045, LANE 1046, LANE 1047, LANE 1048, LANE 1049, LANE 1050, LANE 1051, LANE 1052, LANE 1053, LANE 1054, LANE 1055, LANE 1056, LANE 1057, LANE 1058, LANE 1059, LANE 1060, LANE 1061, LANE 1062, LANE 1063, LANE 1064, LANE 1065, LANE 1066, LANE 1067, LANE 1068, LANE 1069, LANE 1070, LANE 1071, LANE 1072, LANE 1073, LANE 1074, LANE 1075, LANE 1076, LANE 1077, LANE 1078, LANE 1079, LANE 1080, LANE 1081, LANE 1082, LANE 1083, LANE 1084, LANE 1085, LANE 1086, LANE 1087, LANE 1088, LANE 1089, LANE 1090, LANE 1091, LANE 1092, LANE 1093, LANE 1094, LANE 1095, LANE 1096, LANE 1097, LANE 1098, LANE 1099, LANE 1100, LANE 1101, LANE 1102, LANE 1103, LANE 1104, LANE 1105, LANE 1106, LANE 1107, LANE 1108, LANE 1109, LANE 1110, LANE 1111, LANE 1112, LANE 1113, LANE 1114, LANE 1115, LANE 1116, LANE 1117, LANE 1118, LANE 1119, LANE 1120, LANE 1121, LANE 1122, LANE 1123, LANE 1124, LANE 1125, LANE 1126, LANE 1127, LANE 1128, LANE 1129, LANE 1130, LANE 1131, LANE 1132, LANE 1133, LANE 1134, LANE 1135, LANE 1136, LANE 1137, LANE 1138, LANE 1139, LANE 1140, LANE 1141, LANE 1142, LANE 1143, LANE 1144, LANE 1145, LANE 1146, LANE 1147, LANE 1148, LANE 1149, LANE 1150, LANE 1151, LANE 1152, LANE 1153, LANE 1154, LANE 1155, LANE 1156, LANE 1157, LANE 1158, LANE 1159, LANE 1160, LANE 1161, LANE 1162, LANE 1163, LANE 1164, LANE 1165, LANE 1166, LANE 1167, LANE 1168, LANE 1169, LANE 1170, LANE 1171, LANE 1172, LANE 1173, LANE 1174, LANE 1175, LANE 1176, LANE 1177, LANE 1178, LANE 1179, LANE 1180, LANE 1181, LANE 1182, LANE 1183, LANE 1184, LANE 1185, LANE 1186, LANE 1187, LANE 1188, LANE 1189, LANE 1190, LANE 1191, LANE 1192, LANE 1193, LANE 1194, LANE 1195, LANE 1196, LANE 1197, LANE 1198, LANE 1199, LANE 1200, LANE 1201, LANE 1202, LANE 1203, LANE 1204, LANE 1205, LANE 1206, LANE 1207, LANE 1208, LANE 1209, LANE 1210, LANE 1211, LANE 1212, LANE 1213, LANE 1214, LANE 1215, LANE 1216, LANE 1217, LANE 1218, LANE 1219, LANE 1220, LANE 1221, LANE 1222, LANE 1223, LANE 1224, LANE 1225, LANE 1226, LANE 1227, LANE 1228, LANE 1229, LANE 1230, LANE 1231, LANE 1232, LANE 1233, LANE 1234, LANE 1235, LANE 1236, LANE 1237, LANE 1238, LANE 1239, LANE 1240, LANE 1241, LANE 1242, LANE 1243, LANE 1244, LANE 1245, LANE 1246, LANE 1247, LANE 1248, LANE 1249, LANE 1250, LANE 1251, LANE 1252, LANE 1253, LANE 1254, LANE 1255, LANE 1256, LANE 1257, LANE 1258, LANE 1259, LANE 1260, LANE 1261, LANE 1262, LANE 1263, LANE 1264, LANE 1265, LANE 1266, LANE 1267, LANE 1268, LANE 1269, LANE 1270, LANE 1271, LANE 1272, LANE 1273, LANE 1274, LANE 1275, LANE 1276, LANE 1277, LANE 1278, LANE 1279, LANE 1280, LANE 1281, LANE 1282, LANE 1283, LANE 1284, LANE 1285, LANE 1286, LANE 1287, LANE 1288, LANE 1289, LANE 1290, LANE 1291, LANE 1292, LANE 1293, LANE 1294, LANE 1295, LANE 1296, LANE 1297, LANE 1298, LANE 1299, LANE 1300, LANE 1301, LANE 1302, LANE 1303, LANE 1304, LANE 1305, LANE 1306, LANE 1307, LANE 1308, LANE 1309, LANE 1310, LANE 1311, LANE 1312, LANE 1313, LANE 1314, LANE 1315, LANE 1316, LANE 1317, LANE 1318, LANE 1319, LANE 1320, LANE 1321, LANE 1322, LANE 1323, LANE 1324, LANE 1325, LANE 1326, LANE 1327, LANE 1328, LANE 1329, LANE 1330, LANE 1331, LANE 1332, LANE 1333, LANE 1334, LANE 1335, LANE 1336, LANE 1337, LANE 1338, LANE 1339, LANE 1340, LANE 1341, LANE 1342, LANE 1343, LANE 1344, LANE 1345, LANE 1346, LANE 1347, LANE 1348, LANE 1349, LANE 1350, LANE 1351, LANE 1352, LANE 1353, LANE 1354, LANE 1355, LANE 1356, LANE 1357, LANE 1358, LANE 1359, LANE 1360, LANE 1361, LANE 1362, LANE 1363, LANE 1364, LANE 1365, LANE 1366, LANE 1367, LANE 1368, LANE 1369, LANE 1370, LANE 1371, LANE 1372, LANE 1373, LANE 1374, LANE 1375, LANE 1376, LANE 1377, LANE 1378, LANE 1379, LANE 1380, LANE 1381, LANE 1382, LANE 1383, LANE 1384, LANE 1385, LANE 1386, LANE 1387, LANE 1388, LANE 1389, LANE 1390, LANE 1391, LANE 1392, LANE 1393, LANE 1394, LANE 1395, LANE 1396, LANE 1397, LANE 1398, LANE 1399, LANE 1400, LANE 1401, LANE 1402, LANE 1403, LANE 1404, LANE 1405, LANE 1406, LANE 1407, LANE 1408, LANE 1409, LANE 1410, LANE 1411, LANE 1412, LANE 1413, LANE 1414, LANE 1415, LANE 1416, LANE 1417, LANE 1418, LANE 1419, LANE 1420, LANE 1421, LANE 1422, LANE 1423, LANE 1424, LANE 1425, LANE 1426, LANE 1427, LANE 1428, LANE 1429, LANE 1430, LANE 1431, LANE 1432, LANE 1433, LANE 1434, LANE 1435, LANE 1436, LANE 1437, LANE 1438, LANE 1439, LANE 1440, LANE 1441, LANE 1442, LANE 1443, LANE 1444, LANE 1445, LANE 1446, LANE 1447, LANE 1448, LANE 1449, LANE 1450, LANE 1451, LANE 1452, LANE 1453, LANE 1454, LANE 1455, LANE 1456, LANE 1457, LANE 1458, LANE 1459, LANE 1460, LANE 1461, LANE 1462, LANE 1463, LANE 1464, LANE 1465, LANE 1466, LANE 1467, LANE 1468, LANE 1469, LANE 1470, LANE 1471, LANE 1472, LANE 1473, LANE 1474, LANE 1475, LANE 1476, LANE 1477, LANE 1478, LANE 1479, LANE 1480, LANE 1481, LANE 1482, LANE 1483, LANE 1484, LANE 1485, LANE 1486, LANE 1487, LANE 1488, LANE 1489, LANE 1490, LANE 1491, LANE 14

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-15(21)	2010	66R	89



Legend

--- x --- x --- x --- Portable Concrete Barrier

Sign

➡ Direction of Traffic

Work Area

Inertial Barrier System

--- x --- x --- x --- Temporary Protection Fence

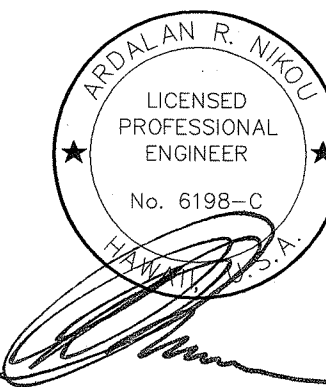
- Notes:**
- See Std. Detail TE-42 and TE-43 for Portable Concrete Barrier and Inertial Barrier System details.
 - Portable Concrete Barriers shall have 4" White Stripe along bottom face, and steady burn lights mounted at 20' on center.
 - Portable Concrete Barriers and all appurtenances shall be incidental to Item No. 645.0100 Work Zone Traffic Control.
 - Temporary Fence shall extend through the full length of the Rockfall Mitigation area.
 - Replace all pavement striping and markers within the traffic control limits after work is completed.
 - Close the entire truck climbing lane beginning at Baseline Station 68+00± and ending at Baseline Station 85+00±.



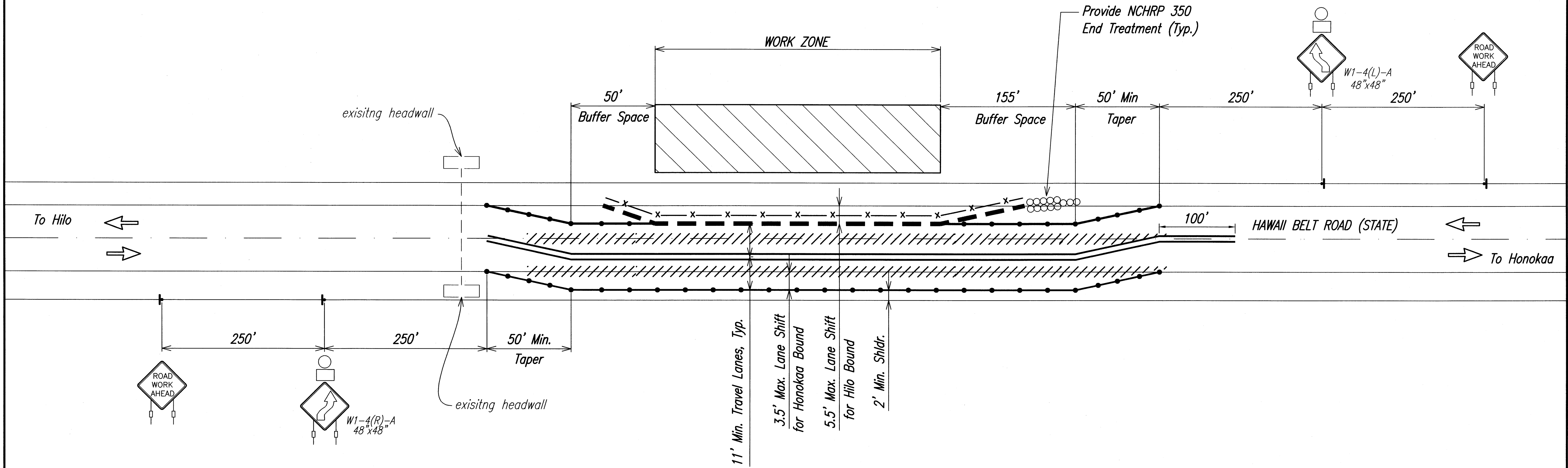
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

6-30-10	Added Note 6 per Addendum #. 2
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
TRAFFIC CONTROL – MP 26.3	
EMERGENCY EARTHQUAKE ROCKFALL REPAIRS	
AT VARIOUS LOCATIONS	
F.A. Project No. ER-15(21)	
Scale: Not to Scale	Date: December, 2009
SHEET No. 5 OF 13 SHEETS	

AECOM



EXPIRATION DATE OF THE LICENSE 4/30/2010
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.



Legend

- Temporary double 4" yellow stripe w/ Double row Type D reflectors at 20' OC, typical.
- Temporary 4" stripe with flexible delineator post
- Temporary 4" stripe
- Remove existing marking
- Portable Concrete Barrier
- 6' High Temporary Fence
- Sign
- Flexible Delineator Post
- Direction of Traffic
- Work Area
- Inertial Barrier System
- Flashing Light (Photovoltaic)

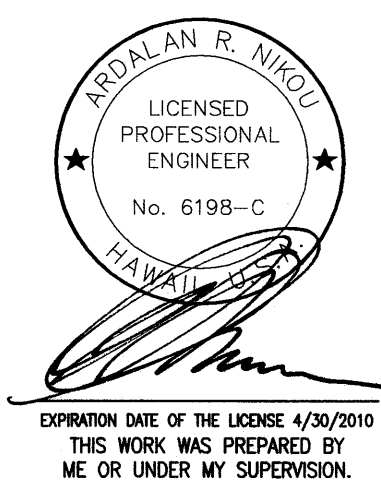
Notes:

- Delineators to be mounted 24 hours. Delineator spacing not drawn to scale. Actual spacing shall be as specified by the Delineator Schedule on this sheet.
- Double Type D reflectors shall be mounted in-line with double 4" yellow stripes. If installing in conjunction with 4" tape, cut and remove tape section prior to setting reflectors.
- Portable Concrete Barriers shall extend through the full length of rockfall mitigation work area.
- Portable Concrete Barriers shall have 4" White Stripe along bottom face, and steady burn lights mounted at 20' on center. See Std. Detail TE-42 and TE-43 for Portable Concrete Barrier Details.
- All shoulder striping and delineator posts shall be white.
- All centerline striping, raised pavement markers, and delineator posts shall be yellow.
- Replace all pavement striping and markers within the traffic control limits after work is completed.

DELINEATOR SCHEDULE	
LOCATION	SPACING (FEET)
Buffer	35
Work	10
Taper	20

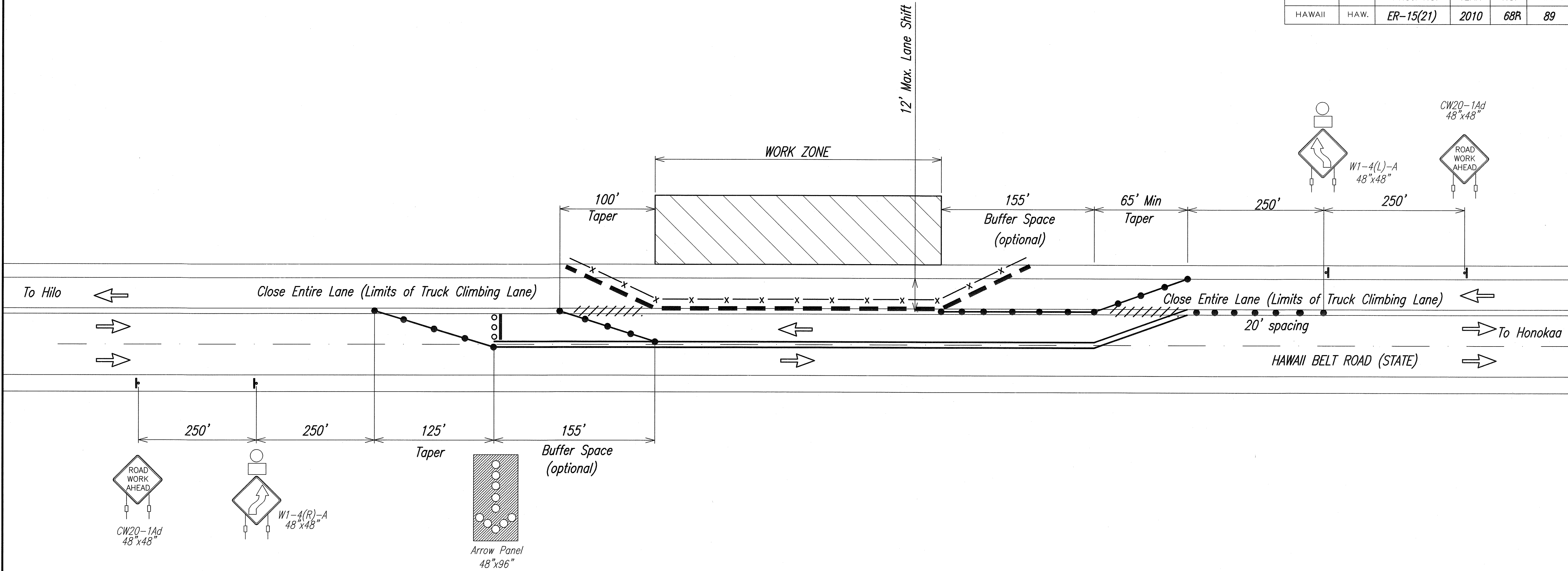
ORIGINAL PLAN	DATE
DESIGNED BY	
CHECKED BY	
NO.	

AECOM



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TRAFFIC CONTROL – MP 26.55
EMERGENCY EARTHQUAKE ROCKFALL REPAIRS
AT VARIOUS LOCATIONS
F.A. Project No. ER-15(21)
Scale: Not to Scale Date: December, 2009
SHEET No. 6 OF 13 SHEETS

BRIEF NAME: P-17110012-001 Earthquake Remedial Repairs MP 26.55 along US-100, HAWAII, 11-31-2009 @ 10:31 am
PLOT DATE: 01-05-2010 @ 09:03 am



Legend

- Temporary double 4" yellow stripe w/ Double row Type D reflectors at 20' OC, typical.
- Temporary 4" stripe with flexible delineator post
- Temporary 4" stripe
- Remove existing marking
- Portable Concrete Barrier
- Sign
- Flexible Delineator Post
- Direction of Traffic
- Work Area
- Arrow Panel
- Flashing Light (Photovoltaic)

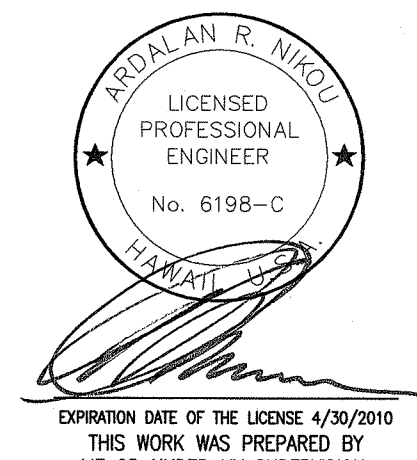
Notes:

- Delineators to be mounted 24 hours. Delineator spacing not drawn to scale. Actual spacing shall be as specified by the Delineator Schedule on this sheet.
- Double Type D reflectors shall be mounted in-line with double 4" yellow stripes. If installing in conjunction with 4" tape, cut and remove tape section prior to setting reflectors.
- Portable Concrete Barriers shall extend through the full length of Rockfall Mitigation Area.
- Portable Concrete Barriers shall have 4" White Stripe along bottom face, and steady burn lights mounted at 20' on center. See Std. Detail TE-42 and TE-43 for Portable Concrete Barrier Details.
- All shoulder striping and delineator posts shall be white.
- All centerline striping, raised pavement markers, and delineator posts shall be yellow.
- Arrow panel shall have a minimum of 15 lamps and shall be visible at 1 mile minimum legibility distance.
- Replace all pavement striping and markers within the traffic control limits after work is completed.

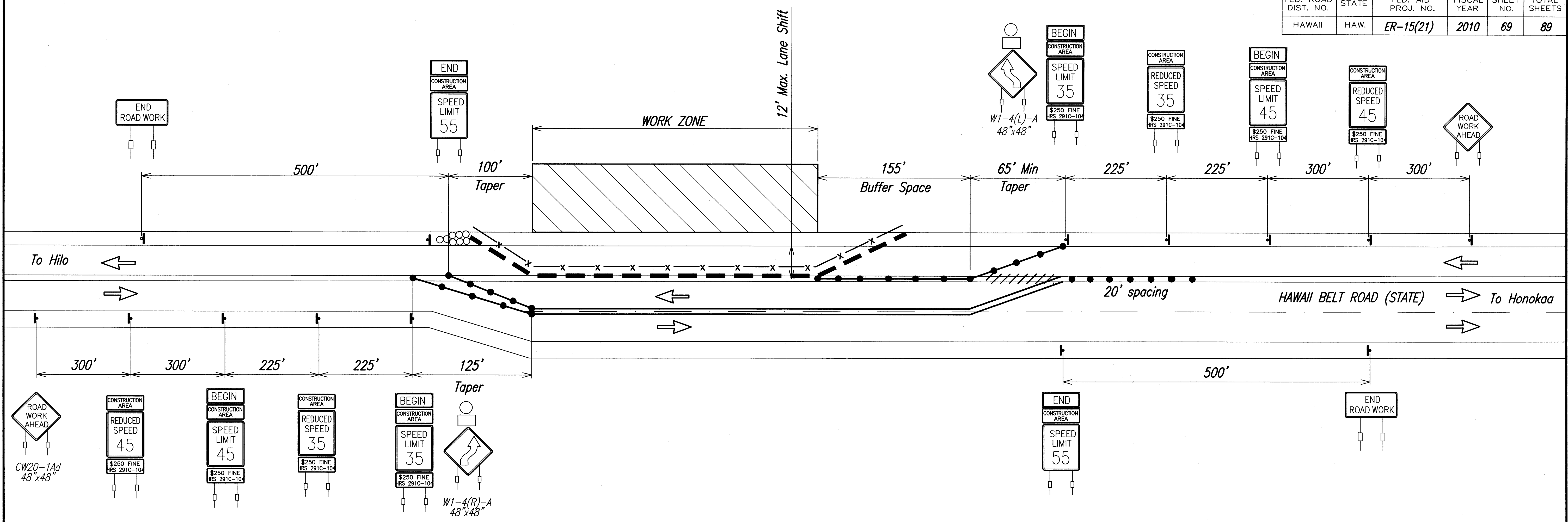
DELINEATOR SCHEDULE	
LOCATION	SPACING (FEET)
Buffer	35
Work	10
Taper	20

9. Close the entire truck climbing lane from Baseline Station 39+00± to Baseline Station 41+00±.

AECOM



6-30-10	Added Note 9 per Addendum #2
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
TRAFFIC CONTROL - MP 26.65	
EMERGENCY EARTHQUAKE ROCKFALL REPAIRS AT VARIOUS LOCATIONS	
F.A. Project No. ER-15(21)	
Scale: Not to Scale	Date: December, 2009
SHEET No. 7 OF 13 SHEETS	



Legend

- Temporary double 4" yellow stripe w/ Double row Type D reflectors at 20' OC, typical.
- Temporary 4" stripe with flexible delineator post
- Temporary 4" stripe
- Remove existing marking
- Portable Concrete Barrier
- Sign
- Flexible Delineator Post
- Direction of Traffic
- Work Area
- Arrow Panel
- Inertial Barrier System
- Temporary Protection Fence
- Flashing Light (Photovoltaic)

Notes:

- Delineators to be mounted 24 hours. Delineator spacing not drawn to scale. Actual spacing shall be as specified by the Delineator Schedule on this sheet.
- Double Type D reflectors shall be mounted in-line with double 4" yellow stripes. If installing in conjunction with 4" tape, cut and remove tape section prior to setting reflectors.
- Portable Concrete Barriers shall extend through the full length of Rockfall Mitigation Area.
- Portable Concrete Barriers shall have 4" White Stripe along bottom face, and steady burn lights mounted at 20' on center. See Std. Detail TE-42 and TE-43 for Portable Concrete Barrier Details.
- All shoulder striping and delineator posts shall be white.
- All centerline striping, raised pavement markers, and delineator posts shall be yellow.
- Arrow panel shall have a minimum of 15 lamps and shall be visible at 1 mile minimum legibility distance.
- Replace all pavement striping and markers within the traffic control limits after work is completed.

DELINEATOR SCHEDULE	
LOCATION	SPACING (FEET)
Buffer	35
Work	10
Taper	20

AECOM

AROLDAN R. NIROU
LICENSED PROFESSIONAL ENGINEER
No. 6198-C
HAWAII

EXPIRATION DATE OF THE LICENSE 4/30/2010
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL - MP 28.6

EMERGENCY EARTHQUAKE ROCKFALL REPAIRS AT VARIOUS LOCATIONS

F.A. Project No. ER-15(21)

Scale: Not to Scale Date: December, 2009

SHEET No. 8 OF 10 SHEETS

DATE: _____
SURVEY PLOTTED BY: _____
DRAWN BY: _____
DESIGNED BY: _____
CHECKED BY: _____
NOTE BOOK: _____
No. _____

PAW/PL/NAME: P:\A\10013-001 Earthquake Permanent Repair\04 PMR\01 Emergency Earthquake Rockfall Repairs Traffic Control MP 28.6.dwg PLOT DATE: 01-06-2010 09:03:00 LAST UPDATE: 01-06-2010 09:03:00

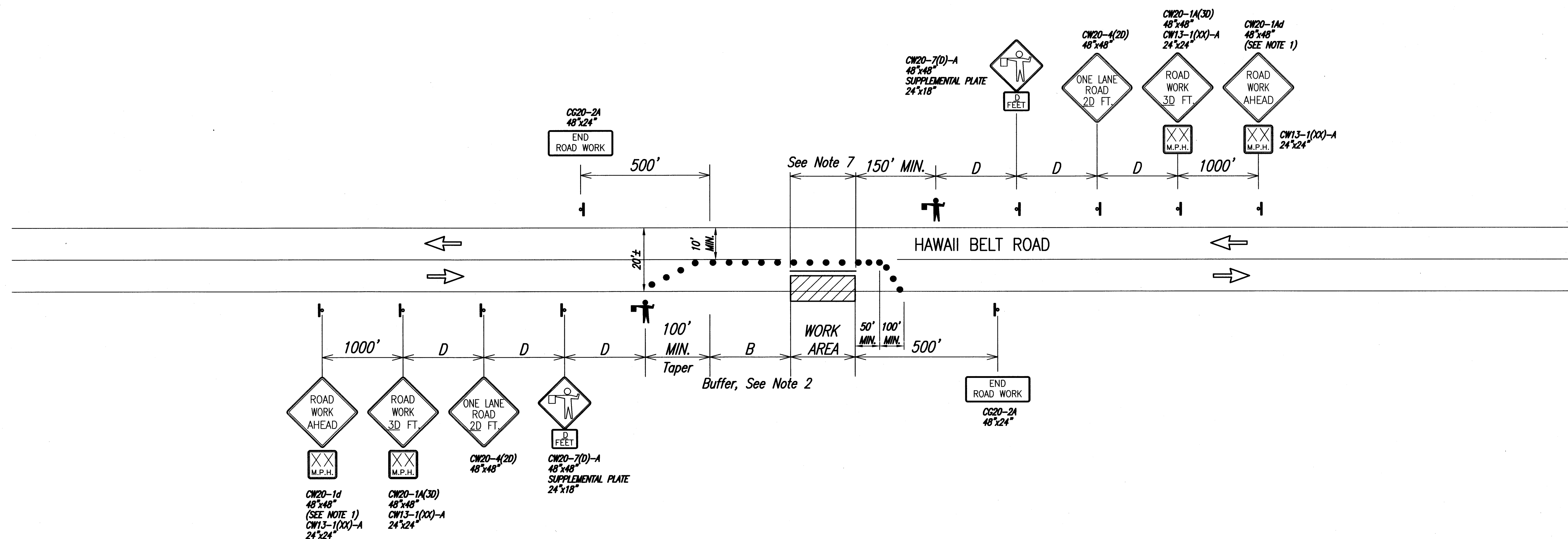


TABLE 1. FOR TRAFFIC CONTROL PLAN

POSTED SPEED LIMIT (M.P.H.)	SIGN SPACING (D) (FEET)	TAPER LENGTH (T) (FEET)	LONGITUDINAL BUFFER SPACE (B) (FEET)	SPACING OF CONES OR DELINEATORS (FEET)		
				TAPER	TANGENT	WORK AREA
20	250	200	35	20	20	10
25	250	200	55	25	25	10
30	250	250	85	30	30	10
35	250	250	120	35	35	10
40	500	350	170	40	40	10
45	500	550	220	45	45	10
50	1000	600	280	50	50	10
55	1000	700	335	55	55	10

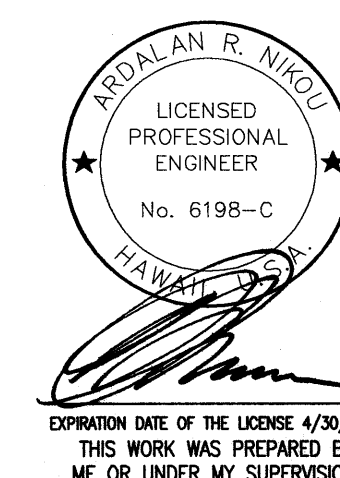
Notes:

- "One Lane Road" (CW20-4) AND "Flagger Ahead" (CW20-7) signs shall be removed or covered when no work is being performed and lane is not closed.
- The buffer space should be extended so that the two-way traffic taper is placed before a horizontal (or crest vertical) curve to provide adequate sight distance for the flagger and a queue of stopped vehicles.
- Cones or delineators shall be installed at 20' o.c. max. on tapers and 25' o.c. max. for buffer and work areas.
- 'Be Prepared to Stop' sign should be located between the flagger sign and the 'One Lane Road' sign.
- Except in emergencies, illuminate flagger stations at night.
- The advisory speed (XX) shall be determined by the engineer.
- Protect the highway surface and public during rock scaling/removal operations by means of temporary fence, portable concrete barriers, and/or steel plating (incidental to Traffic Control).

Legend

- † Sign
- Cone or Delineator
- ⇒ Direction of Traffic
- † Flagger / Police Officer
- ▨ Work Area

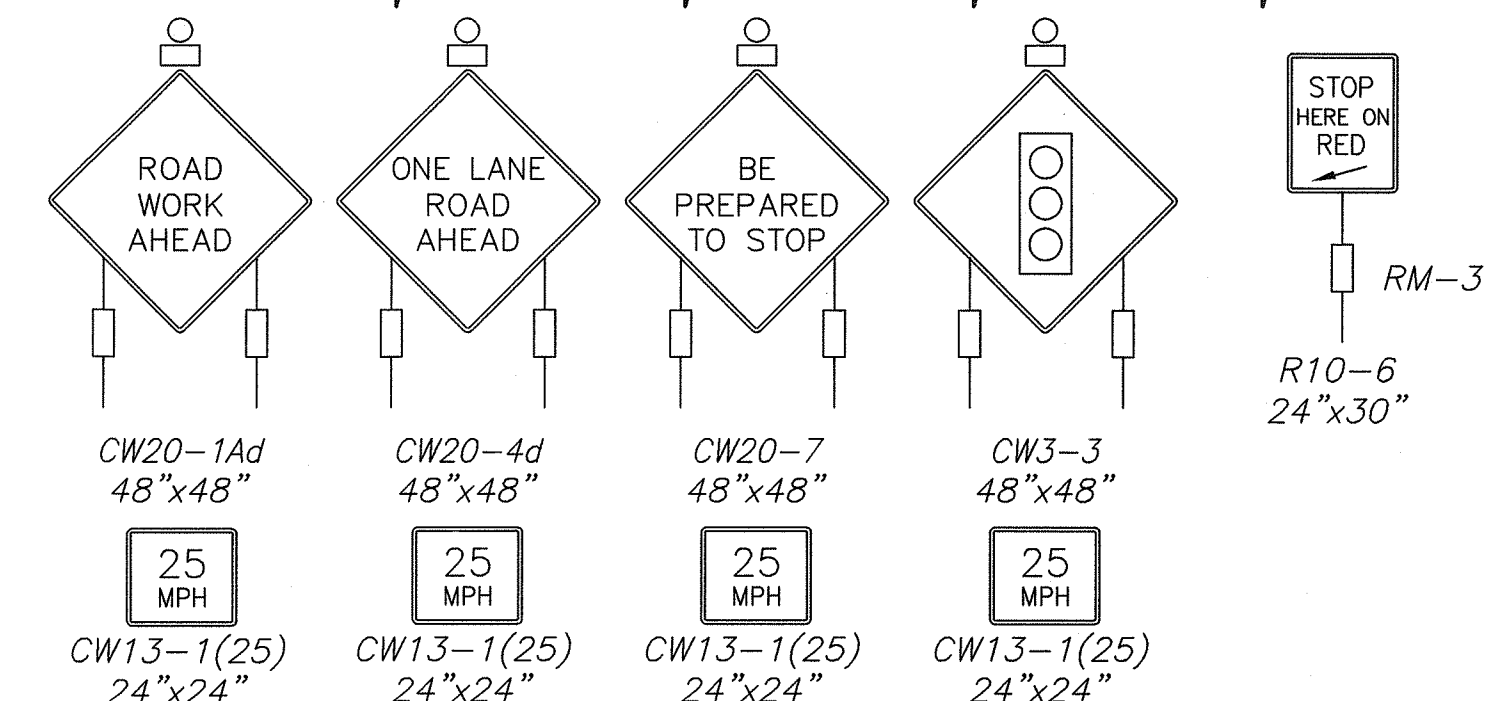
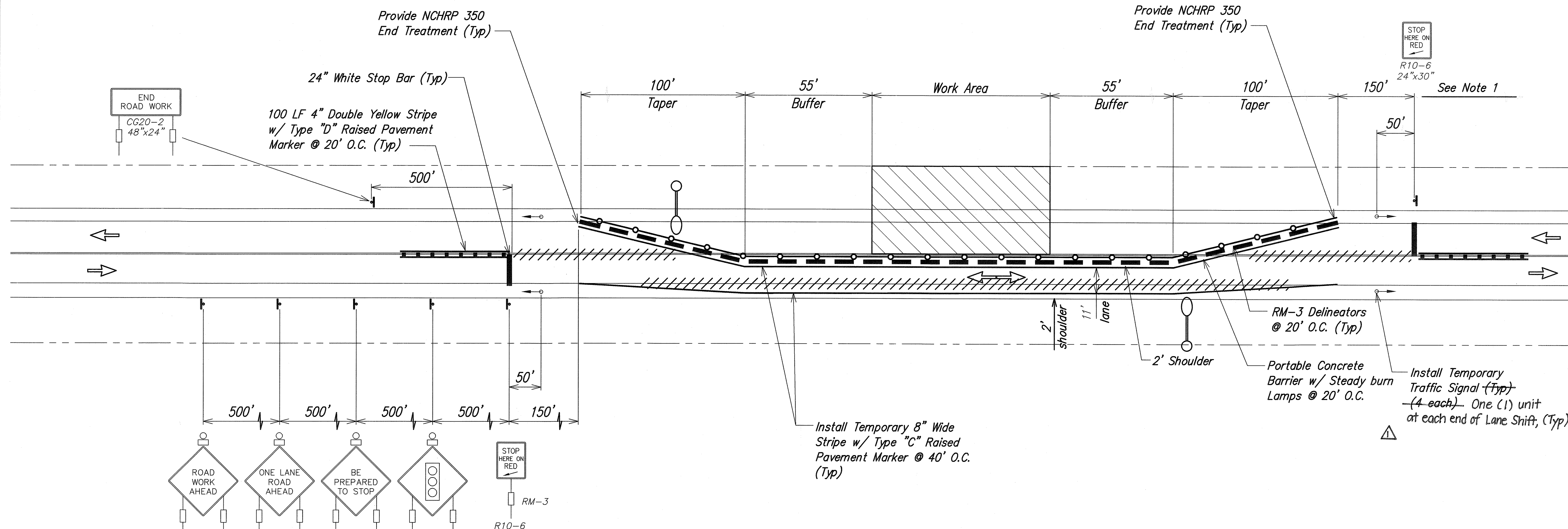
AECOM



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TRAFFIC CONTROL
TEMPORARY LANE CLOSURE PLAN
EMERGENCY EARTHQUAKE ROCKFALL REPAIRS
AT VARIOUS LOCATIONS
F.A. Project No. ER-15(21)
Scale: Not to Scale Date: December, 2009
SHEET No. 10 OF 13 SHEETS

ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	DRAWN BY	
NOTE BOOK	DESIGNED BY	
	CHECKED BY	
No.		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-15(21)	2010	72R	89



24 HOUR LANE CLOSURE PLAN USING TRAFFIC CONTROL SIGNALS
Not to Scale

- Legend**
- Temporary 4" Double Yellow Stripe w/ Type D reflectors at 20' OC
 - Temporary 4" stripe
 - Remove existing marking
 - Portable Concrete Barrier
 - Sign
 - Direction of Traffic
 - Work Area
 - Temporary Street Light

- Notes:**
- For lane closure using traffic control signals, signage and distances shall be the same on both sides of the work area.
 - End treatments for portable concrete barriers shall be considered incidental to Item No. 606.80000 – Portable Concrete Barrier.
 - The contractor shall consider the cost for removal and reinstallation of portable concrete barriers, traffic control signs, etc. for construction phasing as included in the price of the various items, and will not be paid for separately.
 - The contractor shall restore permanent pavement markings and signage to the pre-existing configuration upon completion of construction.
 - Replace all pavement striping and markers within the traffic control limits after work is completed.

AECOM

TRIPALAN R. NIROU
LICENSED PROFESSIONAL ENGINEER
No. 6198-C
HAWAII, U.S.A.

EXPIRATION DATE OF THE LICENSE: 4/30/2010
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

6-30-10	Revised temporary traffic signal callout per Addendum 2.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TRAFFIC CONTROL 24-HOUR LANE CLOSURE PLAN EMERGENCY EARTHQUAKE ROCKFALL REPAIRS AT VARIOUS LOCATIONS F.A. Project No. ER-15(21) Scale: Not to Scale Date: December, 2009 SHEET No. 11 OF 13 SHEETS	

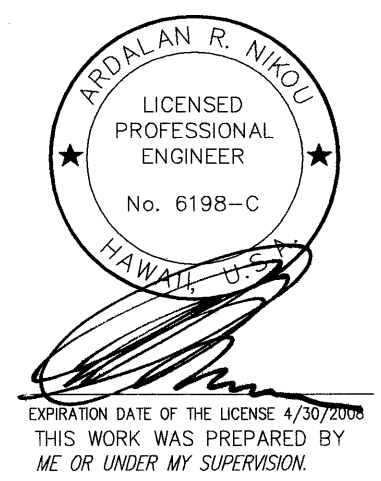
DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NO.	_____

PLAN/SECTION: P-15(1) 10003-001 Emergency Permanent Pavement Repairs/24 Hour Lane Closure Plan/Sheet 11 of 13 DATE: 06-30-2010 09:04 am PLOT DATE: 04-05-2010 09:04 am

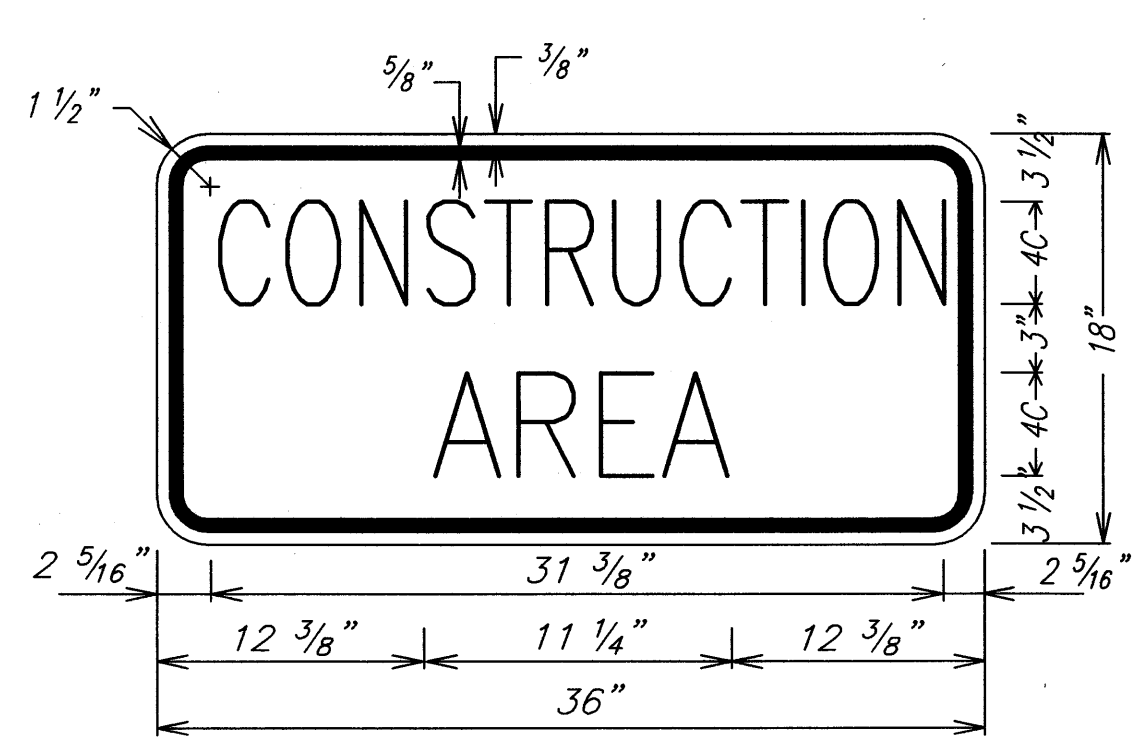
Work Zone Note:

1. This Work Zone Sign Plan is intended for use on long-term stationary work zones/construction phases (3 days or more). All work zones or construction phases less than 3 days duration will use Traffic Control Plans shown in Section 645 of the Special Provisions.
2. All existing regulatory speed limit signs with posts within the work zone/project limits shall be removed and replaced with work zone speed limit sign assemblies (R2-1(XX) and R2-5b(XX) with "CONSTRUCTION AREA" and "\$250 FINE HRS 291C-104" Supplemental Signs).
3. Construction sign assemblies shall be installed on both the approaching and trailing ends of each work zone as shown on this plan.
4. Each construction warning sign and work zone speed limit assembly shall have a minimum of two (2) Type II OM. Installation of each Type II OM shall be considered incidental to Item No. 645.0100 - Traffic Control.
5. Upon the completion of all physical work or as directed by the Engineer, all construction signs and work zone speed limit assemblies shall be removed. All speed limit signs and posts that were existing at the start of the project within the work zone/project limits shall be restored back to their original locations and configurations.
6. Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
7. The removal and restoration of existing regulatory speed limit signs shall be considered incidental to Item No. 645.0100 - Traffic Control.
8. The installation, maintenance and removal of work zone speed limit sign assemblies shall be paid for under Item No. 645.0100 - Traffic Control.
9. The work zone speed limit signs shall be new and become the property of the Contractor.

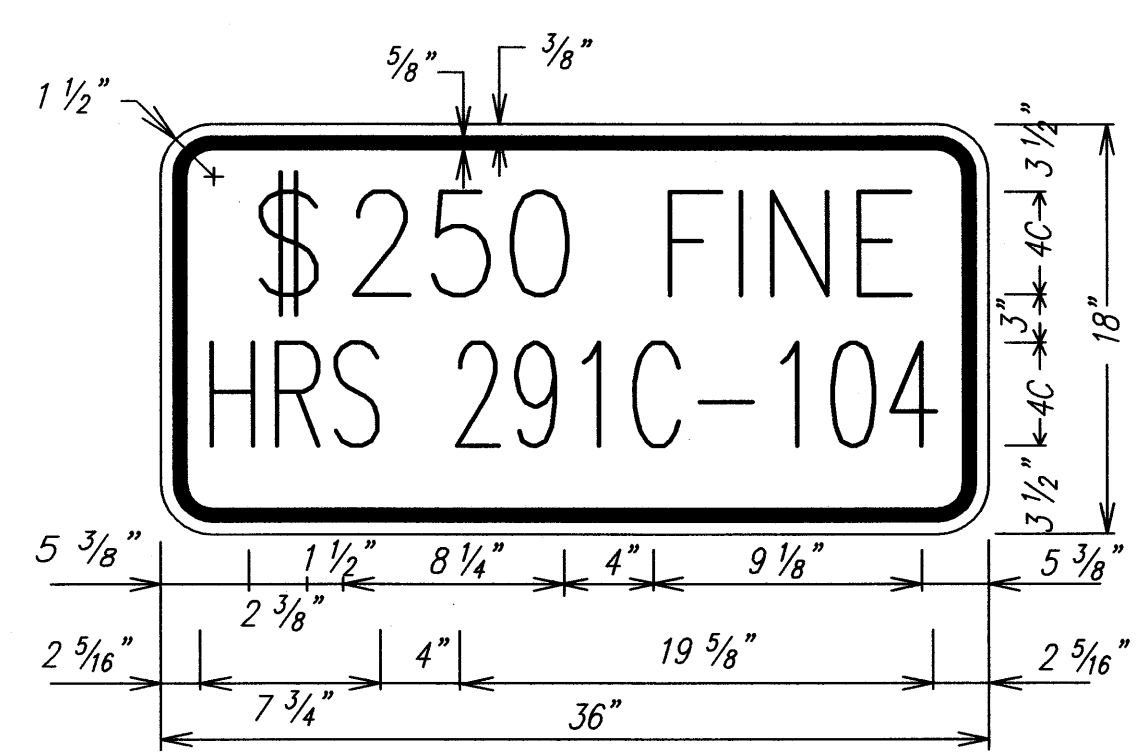
TABLE I GUIDELINE FOR ADVANCE PLACEMENT OF SPEED REDUCTION SIGN R2-5b(XX)-A, CONSTRUCTION AREA SPEED LIMIT		
YY - EXISTING POSTED SPEED LIMIT (MPH)	XX - NEW CONSTRUCTION AREA SPEED LIMIT (MPH)	D-REDUCED SPEED LIMIT SIGN SPACING TO FIRST CONSTRUCTION AREA SPEED LIMIT SIGN (FEET)
≤ 25	EXIST. SPEED LIMIT TO REMAIN	
30	25	100
35	25	175
40	30	175



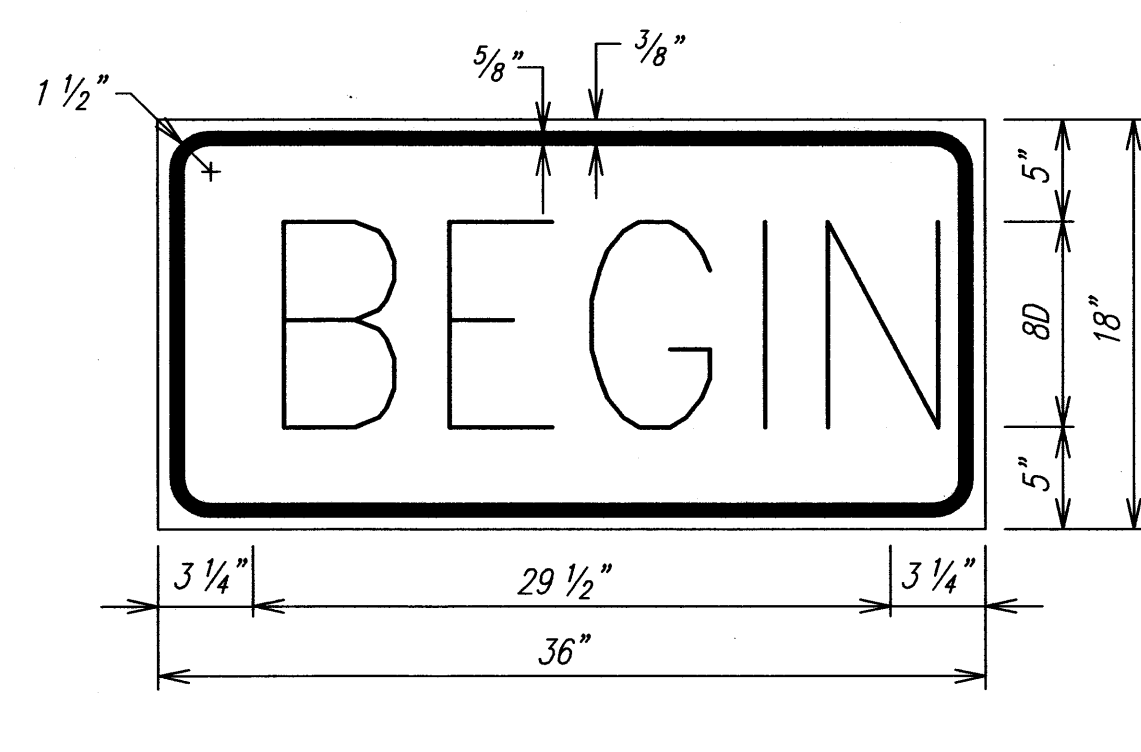
TYPICAL DETAIL FOR CONSTRUCTION SIGNS
ON TWO LANE OR MULTILANE UNDIVIDED HIGH SPEED HIGHWAY



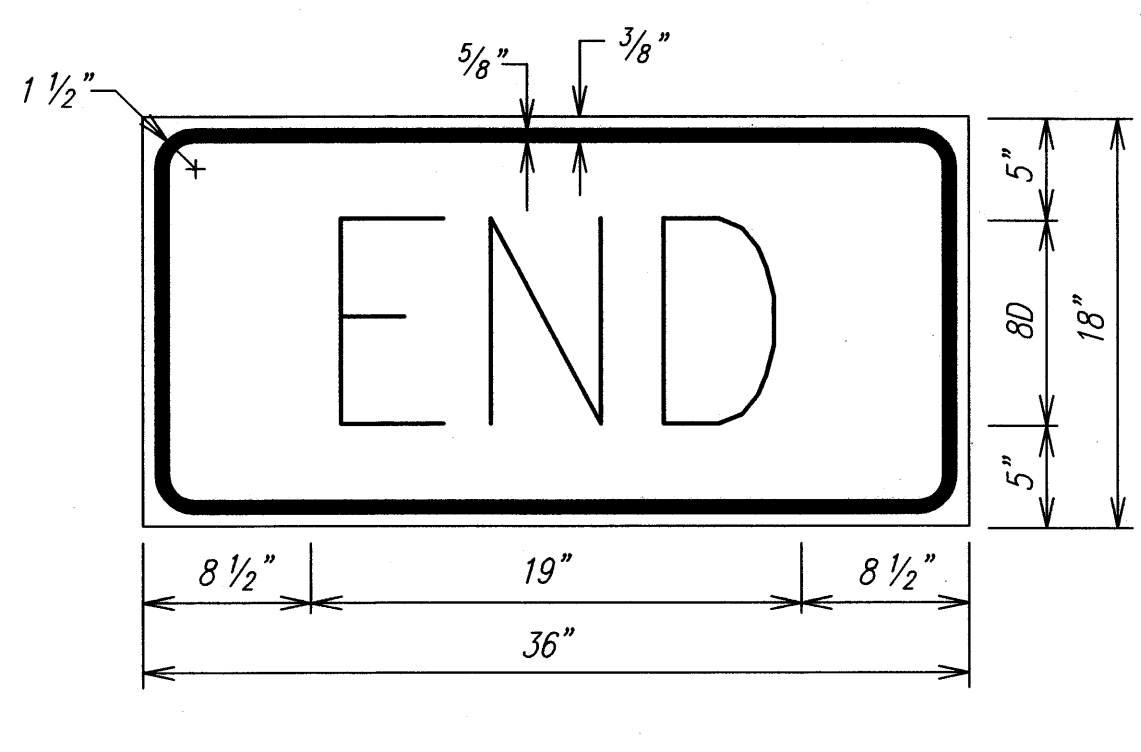
LEGEND: BLACK
BACKGROUND: ORANGE



LEGEND: BLACK
BACKGROUND: WHITE



LEGEND: BLACK
BACKGROUND: ORANGE

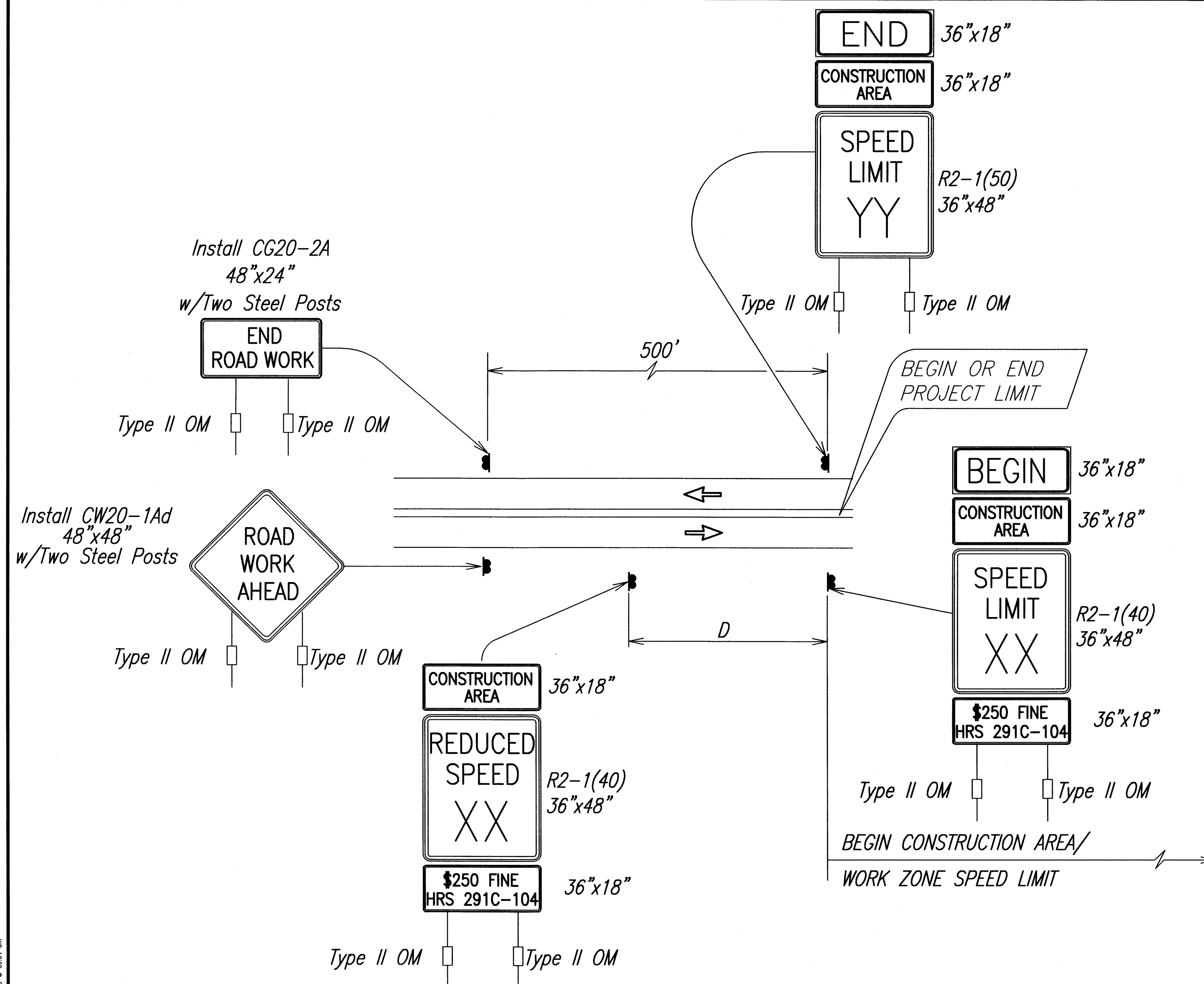


LEGEND: BLACK
BACKGROUND: ORANGE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TRAFFIC CONTROL
WORK ZONE SIGNING (LOW SPEED)
EMERGENCY EARTHQUAKE ROCKFALL REPAIRS
AT VARIOUS LOCATIONS
F.A. Project No. ER-15(21)
Scale: None Date: December, 2009
SHEET No. 12 OF 13 SHEETS

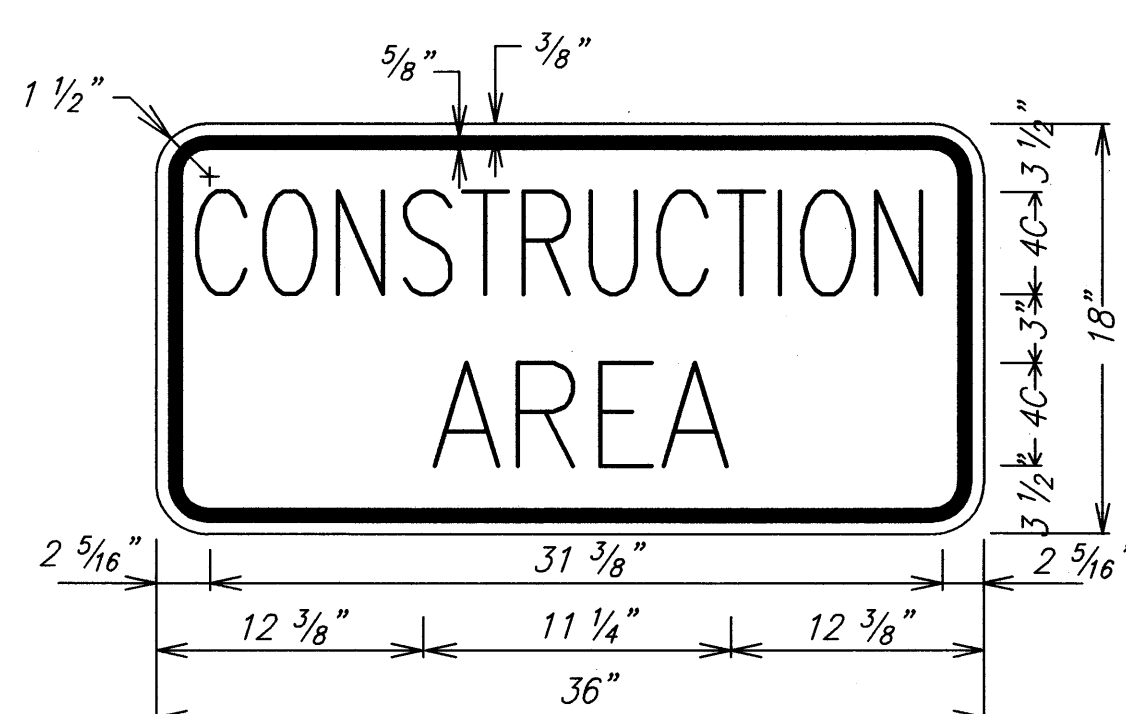
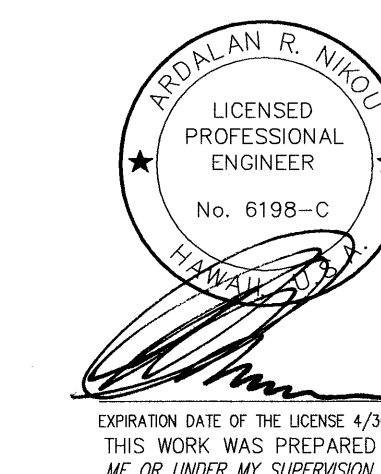
Work Zone Note:

1. This Work Zone Sign Plan is intended for use on long-term stationary work zones/construction phases (3 days or more). All work zones or construction phases less than 3 days duration will use Traffic Control Plans shown in Section 645 of the Special Provisions.
2. All existing regulatory speed limit signs with posts within the work zone/project limits shall be removed and replaced with work zone speed limit sign assemblies (R2-1(40) and R2-5b(40) with "CONSTRUCTION AREA" and "\$250 FINE HRS 291C-104" Supplemental Signs).
3. Construction sign assemblies shall be installed on both the approaching and trailing ends of each work zone as shown on this plan.
4. Each construction warning sign and work zone speed limit assembly shall have a minimum of two (2) Type II OM. Installation of each Type II OM shall be considered incidental to Item No. 645.0100 - Traffic Control.
5. Upon the completion of all physical work or as directed by the Engineer, all construction signs and work zone speed limit assemblies shall be removed. All speed limit signs and posts that were existing at the start of the project within the work zone/project limits shall be restored back to their original locations and configurations.
6. Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
7. The removal and restoration of existing regulatory speed limit signs shall be considered incidental to Item No. 645.0100 - Traffic Control.
8. The installation, maintenance and removal of work zone speed limit sign assemblies shall be paid for under Item No. 645.0100 - Traffic Control.
9. The work zone speed limit signs shall be new and become the property of the Contractor.
10. The design taper length for all sites shall be one-half of T in accordance with "Guidelines for TEMPORARY TRAFFIC CONTROL". For sites with multiple posted speed limits, the higher speed limit shall be used in the design.

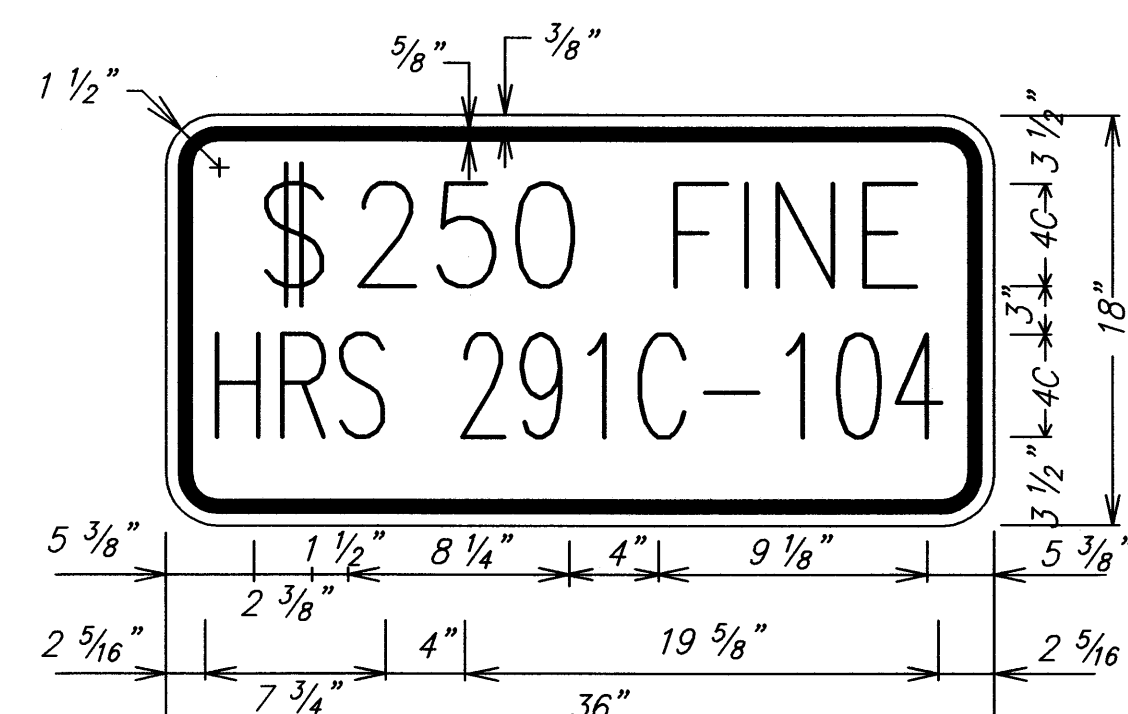


TYPICAL DETAIL FOR CONSTRUCTION SIGNS
ON TWO LANE OR MULTILANE UNDIVIDED HIGH SPEED HIGHWAY

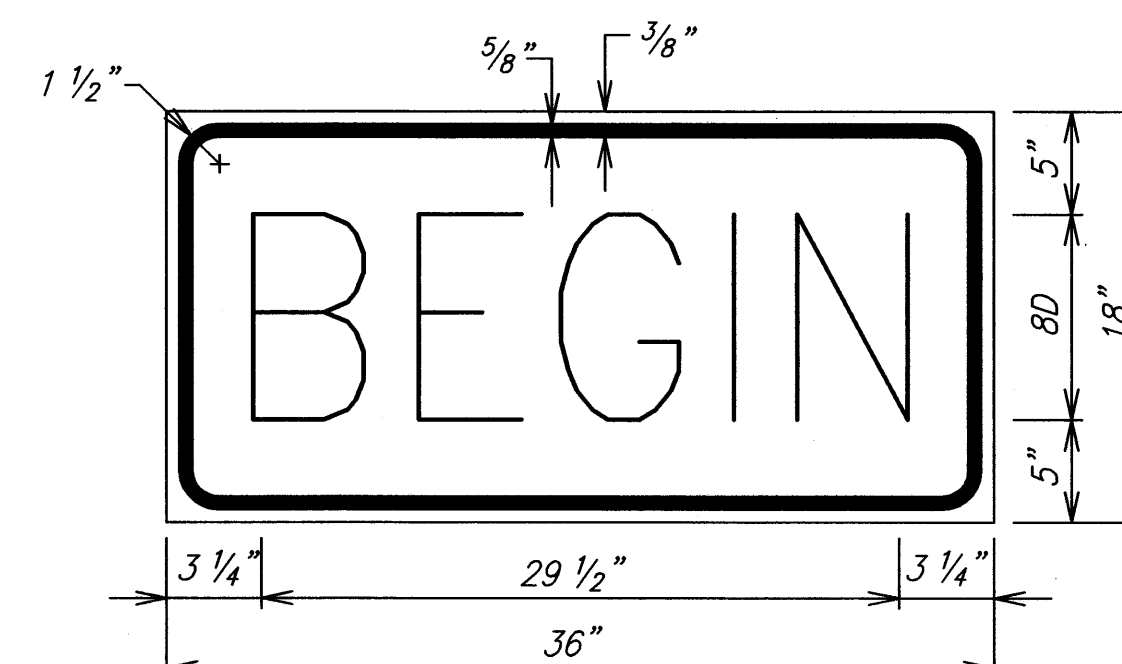
TABLE 1 GUIDELINE FOR ADVANCE PLACEMENT OF SPEED REDUCTION SIGN R2-5b(XX)-A, CONSTRUCTION AREA SPEED LIMIT		
YY - EXISTING POSTED SPEED LIMIT (MPH)	XX - NEW CONSTRUCTION AREA SPEED LIMIT (MPH)	D-REDUCED SPEED LIMIT SIGN SPACING TO FIRST CONSTRUCTION AREA SPEED LIMIT SIGN (FEET)
45	35	225
50	40	225
55	45	300



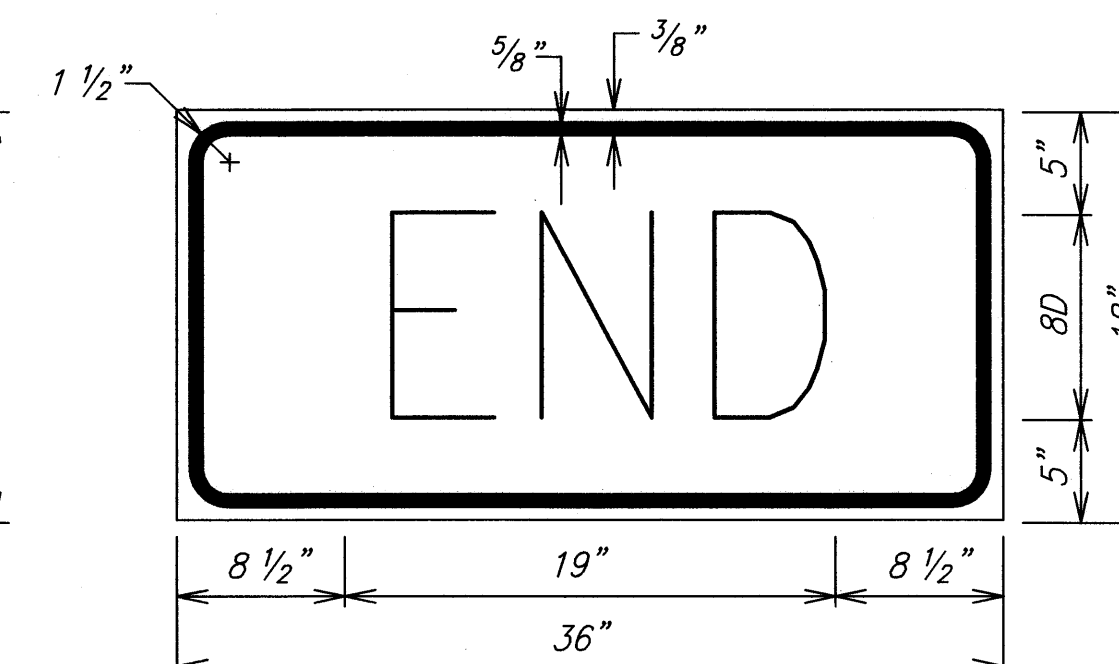
LEGEND: BLACK
BACKGROUND: ORANGE



LEGEND: BLACK
BACKGROUND: WHITE



LEGEND: BLACK
BACKGROUND: ORANGE



LEGEND: BLACK
BACKGROUND: ORANGE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TRAFFIC CONTROL
WORK ZONE SIGNING (HIGH SPEED)
EMERGENCY EARTHQUAKE ROCKFALL REPAIRS
AT VARIOUS LOCATIONS
E.A. Project No. ER-15(21)
Scale: None Date: December, 2009
SHEET No. 13 OF 13 SHEETS