

Intersection: S Rengstorff Ave at El Camino Real, Mountain View, California

MapData payload size 790

payload ecr-rengstorff

```
00128312280B30190000040000A5F786FC114145458887014A0288BC64B0045000000240011BF5B18C49EAEF240E2FA
8A0915200042C02140000030000C5319F984A09316314DCDEA0A6831F07445C1D1040600121F0000890C400042C0314
0000010000C552FE2C4A0B70B214F8E4D8A76F3AC73EEC05024350001060108800000A000116776CC129EBCEAC93845
D52380A4400000400008AF1390094DDE6BC49D02EAF00834000C0311000000800024B5FF99E0C5FF423AE7EEA4B01CD
000000A40035795C6B0605028C3A1E25C58C010F66A9E726E069A10FA7C8A3148210003245600018B020D0000008000
317263CA92EA35EEC7AB2514937C34BE07C8C4958245A00018B024D0000008000316DAB2D8FB5284F1EB453C84E2292
901F1752D029178000608540016051A000000A0002ACD7530047889A66A81C2C8B7501487A0000A43440004702D0800
0008000154B88840243C4D61D43A2D54DB477844320020000080238188400000400008A96C9789ABBA8665AA3568F30
886C00400001004703508000008000115AB9979352A523CB53C6D260110E8008000020096072A000001C8004B672A19
430281445EF105E81071392A02898D50FC9216400069058000348BA00018C07B100000080004351A282825791804C82
7D1AD950885820E80000052000ACED0E870C0A0518743C441BA88F18AAAEF6290F20002485C00011608BA0000010000
2202D7E12211342F0C58574E04864000116093A0000010000420D18FA19136CCA332DD4C468989F98A4360000822700
05826E800000200012862E7C811E219E4E97E324A59AC271DBA0A411000142290005828E80000028001088AEBF8676C
A600CE294CB090792629054000548B880028E0AC100000100002B5F15CA4121E10C1DD886E6DAC2203001000003FF1
C168200000200004472DBDA2186BDD10B2DBE0440A002000007FE382F04000004000088C3B38C43FF6943457D02C220
7001000003FF041860008300002DB3BA16047887A9E46D0246900038106580020C000237A29EA448C744C11BD640123
4400140834C00100000119C2D9022C6AEA315147790A4608003123280018
```

gov.usdot.asnl.generated.j2735.dsrc.MessageFrame

```
value MessageFrame ::= {
  messageId 18,
  value MapData : {
    msgIssueRevision 11,
    layerType intersectionData,
    intersections {
      {
        id {
          region 0,
          id 1024
        },
        revision 0,
        refPoint {
          lat 373957880,
          long -1221019508,
          elevation 270
        },
        laneWidth 330,
        speedLimits {
          {
            type vehicleMaxSpeed,
            speed 559
          }
        },
        laneSet {
          {
            laneID 1,
            ingressApproach 1,
            laneAttributes {
              directionalUse {ingressPath},
              sharedWith {},
              laneType vehicle : {}
            },
            maneuvers {maneuverRightAllowed, maneuverRightTurnOnRedAllowed},
            nodeList nodes : {
              {
                delta node-XY4 : {
                  x -42,
                  y 2246
                }
              },
              {

```

```

    delta node-XY5 : {
      x 1963,
      y 3876
    }
  },
  {
    delta node-XY2 : {
      x 559,
      y 325
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 21,
      maneuver {maneuverRightAllowed}
    },
    signalGroup 4
  }
}
},
{
  laneID 2,
  ingressApproach 1,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed, maneuverLeftAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 396,
        y 1996
      }
    },
    {
      delta node-XY5 : {
        x 2084,
        y 4451
      }
    },
    {
      delta node-XY3 : {
        x 441,
        y 980
      }
    },
    {
      delta node-XY3 : {
        x 416,
        y 1148
      }
    },
    {
      delta node-XY4 : {
        x 1093,
        y 2106
      }
    }
  }
},
connectsTo {
  {
    connectingLane {

```

```

        lane 1,
        maneuver {maneuverStraightAllowed}
    }
},
{
    connectingLane {
        lane 15,
        maneuver {maneuverStraightAllowed}
    },
    signalGroup 4
},
{
    connectingLane {
        lane 12,
        maneuver {maneuverLeftAllowed}
    },
    signalGroup 4
}
},
{
    laneID 3,
    ingressApproach 1,
    laneAttributes {
        directionalUse {ingressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverLeftAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x 663,
                y 1814
            }
        },
        {
            delta node-XY5 : {
                x 2093,
                y 4274
            }
        },
        {
            delta node-XY3 : {
                x 497,
                y 1179
            }
        },
        {
            delta node-XY3 : {
                x 475,
                y 1259
            }
        },
        {
            delta node-XY4 : {
                x 1006,
                y 2058
            }
        }
    },
    connectsTo {
        {
            connectingLane {
                lane 13,
                maneuver {maneuverLeftAllowed}
            }
        }
    }
}

```

```

    },
    signalGroup 4
  }
},
{
  laneID 4,
  egressApproach 2,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed, maneuverRightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 1262,
        y 1432
      }
    },
    {
      delta node-XY5 : {
        x 2539,
        y 5035
      }
    },
    {
      delta node-XY5 : {
        x 1800,
        y 3753
      }
    }
  }
},
{
  laneID 5,
  egressApproach 2,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 964,
        y 1600
      }
    },
    {
      delta node-XY5 : {
        x 2491,
        y 4958
      }
    },
    {
      delta node-XY5 : {
        x 1856,
        y 3759
      }
    }
  },
  connectsTo {
    {

```

```

        connectingLane {
            lane 6,
            maneuver {maneuverStraightAllowed}
        }
    }
},
{
    laneID 6,
    egressApproach 2,
    laneAttributes {
        directionalUse {egressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverLeftAllowed},
    nodeList nodes : {
        {
            delta node-XY5 : {
                x 3455,
                y 6558
            }
        },
        {
            delta node-XY2 : {
                x 95,
                y 929
            }
        },
        {
            delta node-XY4 : {
                x 1487,
                y 2985
            }
        }
    }
},
{
    laneID 7,
    ingressApproach 3,
    laneAttributes {
        directionalUse {ingressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed, maneuverRightAllowed,
        maneuverRightTurnOnRedAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x 1835,
                y 214
            },
            attributes {
                data {
                    speedLimits : {
                        {
                            type vehicleMaxSpeed,
                            speed 782
                        }
                    }
                }
            },
            dWidth 30
        }
    }
},
{

```

```

    delta node-XY5 : {
      x 3628,
      y -2046
    }
  },
  {
    delta node-XY4 : {
      x 2869,
      y -1561
    }
  },
  {
    delta node-XY5 : {
      x 5891,
      y -3262
    }
  },
  {
    delta node-XY4 : {
      x 3390,
      y -1885
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 4,
      maneuver {maneuverRightAllowed}
    },
    signalGroup 6
  },
  {
    connectingLane {
      lane 21,
      maneuver {maneuverStraightAllowed}
    },
    signalGroup 6
  }
}
},
{
  laneID 8,
  ingressApproach 3,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 1612,
        y -107
      }
    },
    {
      delta node-XY5 : {
        x 3747,
        y -2117
      }
    },
    {
      delta node-XY4 : {
        x 2738,

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        y -1495
    }
},
{
    delta node-XY5 : {
        x 6083,
        y -3336
    }
},
{
    delta node-XY4 : {
        x 3212,
        y -1749
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 22,
            maneuver {maneuverStraightAllowed}
        },
        signalGroup 6
    }
}
},
{
    laneID 9,
    ingressApproach 3,
    laneAttributes {
        directionalUse {ingressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x 1461,
                y -421
            }
        },
        {
            delta node-XY4 : {
                x 3497,
                y -1969
            }
        },
        {
            delta node-XY4 : {
                x 2769,
                y -1564
            }
        },
        {
            delta node-XY5 : {
                x 6282,
                y -3440
            }
        },
        {
            delta node-XY4 : {
                x 3165,
                y -1688
            }
        }
    }
}

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```

    },
    connectsTo {
      {
        connectingLane {
          lane 23,
          maneuver {maneuverStraightAllowed}
        },
        signalGroup 6
      },
      {
        connectingLane {
          lane 10,
          maneuver {maneuverStraightAllowed}
        }
      }
    }
  },
  {
    laneID 10,
    ingressApproach 3,
    laneAttributes {
      directionalUse {ingressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverLeftAllowed, maneuverUTurnAllowed},
    nodeList nodes : {
      {
        delta node-XY3 : {
          x 1239,
          y -720
        },
        attributes {
          dWidth -30
        }
      },
      {
        delta node-XY5 : {
          x 5325,
          y -3058
        }
      },
      {
        delta node-XY3 : {
          x 1163,
          y -176
        }
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 15,
        maneuver {maneuverLeftAllowed}
      },
      signalGroup 1
    },
    {
      connectingLane {
        lane 13,
        maneuver {maneuverUTurnAllowed}
      },
      signalGroup 1
    }
  }
},

```



```

{
  laneID 11,
  egressApproach 4,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 369,
        y -1784
      },
      attributes {
        dWidth 30
      }
    },
    {
      delta node-XY5 : {
        x 5511,
        y -3014
      }
    },
    {
      delta node-XY6 : {
        x 10907,
        y -5905
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 12,
        maneuver {maneuverStraightAllowed}
      },
      remoteIntersection {
        region 0,
        id 1025
      }
    }
  }
},
{
  laneID 12,
  egressApproach 4,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 603,
        y -1442
      }
    },
    {
      delta node-XY5 : {
        x 5495,
        y -3021
      }
    }
  }
}

```

```

    },
    {
      delta node-XY6 : {
        x 10805,
        y -5901
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 13,
        maneuver {maneuverStraightAllowed}
      },
      remoteIntersection {
        region 0,
        id 1025
      }
    }
  }
},
{
  laneID 13,
  egressApproach 4,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 855,
        y -1233
      }
    },
    {
      delta node-XY5 : {
        x 5418,
        y -2929
      }
    },
    {
      delta node-XY6 : {
        x 10723,
        y -5840
      }
    }
  }
},
  connectsTo {
    {
      connectingLane {
        lane 14,
        maneuver {maneuverStraightAllowed}
      },
      remoteIntersection {
        region 0,
        id 1025
      }
    }
  }
},
{
  laneID 14,
  ingressApproach 5,

```

```

laneAttributes {
  directionalUse {ingressPath},
  sharedWith {},
  laneType vehicle : {}
},
maneuvers {maneuverStraightAllowed, maneuverLeftAllowed, maneuverRightAllowed,
  maneuverRightTurnOnRedAllowed},
nodeList nodes : {
  {
    delta node-XY4 : {
      x -795,
      y -1947
    },
    attributes {
      data {
        speedLimits : {
          {
            type vehicleMaxSpeed,
            speed 559
          }
        }
      },
      dWidth -30
    }
  },
  {
    delta node-XY2 : {
      x -48,
      y -761
    }
  },
  {
    delta node-XY3 : {
      x -219,
      y -1019
    }
  },
  {
    delta node-XY3 : {
      x -459,
      y -961
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 11,
      maneuver {maneuverRightAllowed}
    },
    signalGroup 3
  },
  {
    connectingLane {
      lane 5,
      maneuver {maneuverStraightAllowed}
    },
    signalGroup 3
  },
  {
    connectingLane {
      lane 23,
      maneuver {maneuverLeftAllowed}
    },
    signalGroup 3
  }
}

```

```

    }
  },
  {
    laneID 15,
    egressApproach 6,
    laneAttributes {
      directionalUse {egressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverLeftAllowed},
    nodeList nodes : {
      {
        delta node-XY4 : {
          x -1484,
          y -1526
        }
      },
      {
        delta node-XY2 : {
          x -674,
          y -464
        }
      },
      {
        delta node-XY2 : {
          x -624,
          y -387
        }
      },
      {
        delta node-XY4 : {
          x -1179,
          y -1980
        }
      }
    }
  },
  {
    laneID 16,
    ingressApproach 7,
    laneAttributes {
      directionalUse {ingressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed, maneuverRightAllowed,
      maneuverRightTurnOnRedAllowed},
    nodeList nodes : {
      {
        delta node-XY4 : {
          x -2200,
          y -377
        },
        attributes {
          data {
            speedLimits : {
              {
                type vehicleMaxSpeed,
                speed 782
              }
            }
          },
          dWidth 30
        }
      },
    }
  },

```

```

    {
      delta node-XY5 : {
        x -3986,
        y 2191
      }
    },
    {
      delta node-XY4 : {
        x -3414,
        y 1915
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 15,
        maneuver {maneuverRightAllowed}
      },
      signalGroup 2
    },
    {
      connectingLane {
        lane 11,
        maneuver {maneuverStraightAllowed}
      },
      signalGroup 2
    }
  }
},
{
  laneID 17,
  ingressApproach 7,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -2003,
        y -31
      }
    },
    {
      delta node-XY5 : {
        x -3959,
        y 2142
      }
    },
    {
      delta node-XY4 : {
        x -3390,
        y 1870
      }
    }
  }
},
  connectsTo {
    {
      connectingLane {
        lane 12,
        maneuver {maneuverStraightAllowed}
      },
      signalGroup 2
    }
  }
}

```

```

    }
  },
  {
    laneID 18,
    ingressApproach 7,
    laneAttributes {
      directionalUse {ingressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
      {
        delta node-XY3 : {
          x -1839,
          y 250
        }
      },
      {
        delta node-XY4 : {
          x -2995,
          y 1637
        }
      },
      {
        delta node-XY4 : {
          x -2469,
          y 1329
        }
      },
      {
        delta node-XY4 : {
          x -1896,
          y 1011
        }
      }
    },
    connectsTo {
      {
        connectingLane {
          lane 13,
          maneuver {maneuverStraightAllowed}
        },
        signalGroup 2
      },
      {
        connectingLane {
          lane 19,
          maneuver {maneuverStraightAllowed}
        }
      }
    }
  },
  {
    laneID 19,
    ingressApproach 7,
    laneAttributes {
      directionalUse {ingressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverLeftAllowed},
    nodeList nodes : {
      {
        delta node-XY3 : {

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```

        x -1653,
        y 498
    },
    attributes {
        dWidth -30
    }
},
{
    delta node-XY4 : {
        x -2157,
        y 1215
    }
},
{
    delta node-XY4 : {
        x -2924,
        y 1643
    }
},
{
    delta node-XY2 : {
        x -569,
        y -140
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 4,
            maneuver {maneuverLeftAllowed}
        },
        signalGroup 5
    },
    {
        connectingLane {
            lane 20,
            maneuver {maneuverStraightAllowed}
        }
    }
}
},
{
    laneID 20,
    ingressApproach 7,
    laneAttributes {
        directionalUse {ingressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverLeftAllowed, maneuverUTurnAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x -1493,
                y 766
            }
        },
        {
            delta node-XY4 : {
                x -2196,
                y 1216
            }
        },
        {
            delta node-XY4 : {

```

```

        x -2284,
        y 1227
    }
},
{
    delta node-XY2 : {
        x -761,
        y 147
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 5,
            maneuver {maneuverLeftAllowed}
        },
        signalGroup 5
    },
    {
        connectingLane {
            lane 23,
            maneuver {maneuverUTurnAllowed}
        },
        signalGroup 5
    }
}
},
{
    laneID 21,
    egressApproach 8,
    laneAttributes {
        directionalUse {egressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY4 : {
                x -1054,
                y 1833
            },
            attributes {
                dWidth 30
            }
        },
        {
            delta node-XY3 : {
                x -1661,
                y 955
            }
        },
        {
            delta node-XY3 : {
                x -1607,
                y 875
            }
        }
    },
    connectsTo {
        {
            connectingLane {
                lane 1,
                maneuver {maneuverStraightAllowed}
            },

```



```

        remoteIntersection {
            region 0,
            id 1023
        }
    }
}
},
{
    laneID 22,
    egressApproach 8,
    laneAttributes {
        directionalUse {egressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x -1130,
                y 1517
            }
        },
        {
            delta node-XY3 : {
                x -1658,
                y 989
            }
        },
        {
            delta node-XY3 : {
                x -1691,
                y 892
            }
        }
    },
    connectsTo {
        {
            connectingLane {
                lane 2,
                maneuver {maneuverStraightAllowed}
            },
            remoteIntersection {
                region 0,
                id 1023
            }
        }
    }
},
{
    laneID 23,
    egressApproach 8,
    laneAttributes {
        directionalUse {egressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x -1266,
                y 1251
            }
        },
        {

```

```

    delta node-XY3 : {
      x -1537,
      y 842
    }
  },
  {
    delta node-XY4 : {
      x -1873,
      y 1035
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 3,
      maneuver {maneuverStraightAllowed}
    },
    remoteIntersection {
      region 0,
      id 1023
    }
  }
}
},
{
  laneID 24,
  laneAttributes {
    directionalUse {ingressPath, egressPath},
    sharedWith {},
    laneType crosswalk : {hasPushToWalkButton, audioSupport}
  },
  nodeList nodes : {
    {
      delta node-XY4 : {
        x -611,
        y 2582
      },
      attributes {
        dWidth -30
      }
    },
    {
      delta node-XY4 : {
        x 2718,
        y -1830
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 26,
        maneuver {maneuverLeftAllowed}
      },
      signalGroup 14
    }
  }
},
{
  laneID 25,
  laneAttributes {
    directionalUse {ingressPath, egressPath},
    sharedWith {},
    laneType crosswalk : {hasPushToWalkButton, audioSupport}
  },

```

```

nodeList nodes : {
  {
    delta node-XY4 : {
      x -187,
      y -2135
    }
  },
  {
    delta node-XY3 : {
      x -925,
      y 550
    }
  },
  {
    delta node-XY2 : {
      x -802,
      y 400
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 26,
      maneuver {maneuverRightAllowed}
    },
    signalGroup 10
  }
},
{
  laneID 26,
  laneAttributes {
    directionalUse {ingressPath, egressPath},
    sharedWith {},
    laneType crosswalk : {}
  },
  nodeList nodes : {
    {
      delta node-XY4 : {
        x -2293,
        y -895
      }
    },
    {
      delta node-XY3 : {
        x 1130,
        y 1699
      }
    },
    {
      delta node-XY3 : {
        x 552,
        y 1778
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 24,
        maneuver {maneuverRightAllowed}
      },
      signalGroup 12
    },
    {

```

```
connectingLane {
  lane 25,
  maneuver {maneuverLeftAllowed}
},
signalGroup 12
}
}
}
}
}
}
}
}
```