

Intersection: Churchill Ave at El Camino Real, Palo Alto, California

MapData payload size 663

```
payload=00128293280B3019000003EB00A5FA54D9913D3F53084B01680288BC4CB0045000000240011CD0F0161CBD338
39D6F78243C80010B0085000000400055629705023882BC4CBE255D16AC0AE8325C98D16D402C6BD5C2CB4D4E610840
60012148000830064400000700030B5273DC74F3B580F2B9BDD15DCE5D131DED9BC5859AD44CF2F88715A0DC296021A
00000048002AF427E40C0A051874783D4A1054555E6B00903200062C0534000002000045CA0E0C4B8D504B2CB6E33AA
084120012210000C580C6800000400008B5818C897299FEA5969C676F0488C000316039A000001000022C4B53F25D1E
7F41659619E141225000C381084000004000089EE03C47A66249966C9189B8221F001000003EC1C094200000200004
51963823D4991A8B356CC5941110800800001F60E05210000010000229BD2B91E9C092C59AD3629B0888C00400000FB
0B02DD0000008000310A8BE290CB3D7488815E466431D363D2B19A4F878242200008B031D00000080003112445790C9
0D764881BE45A4312365D2B1CDCF990242600008B035D0000008000411B34C890CC5D6604681B8A450A2D7721971AD7
958E5A7D3852150000410E8002C0E740000014000948E74F408F111343B7FC6786C8E890BED6052068000A912100051
C0F82000002000057070C108243C23F8B6819E26FEE01108001C10820000020000C4F03D72451C2CC72B35ACE9710EA
5CF78AC40140DC1108800800001F50E08C10000010000626CFD55220518C415ABF260D4873267F256205A0FF0884C00
400000FA8704A08000008000312F2DFC91028C668AD583314C43A473972B0F5D0740442A002000007D40826C0010680
025C92B2C408F106790B416291B686D968C048A10007020A300041800087940A07852717411A99A788BF4CCC1226800
20
```

gov.usdot.asn1.generated.j2735.dsrc.MessageFrame

```
value MessageFrame ::= {
  messageId 18,
  value MapData : {
    msgIssueRevision 11,
    layerType intersectionData,
    intersections {
      {
        id {
          region 0,
          id 1003
        },
        revision 0,
        refPoint {
          lat 374325427,
          long -1221546841,
          elevation 150
        },
        laneWidth 360,
        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 835,
                  y 2059
                }
              },
              {
                delta node-XY2 : {
                  x 606,
                  y 206
                }
              },
            }
          }
        }
      }
    }
  }
}
```

```

    delta node-XY2 : {
      x 629,
      y 495
    }
  },
connectsTo {
  {
    connectingLane {
      lane 15,
      maneuver {maneuverRightAllowed}
    },
    signalGroup 4
  }
},
{
  laneID 2,
  ingressApproach 1,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverLeftAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 1106,
        y 1546
      },
      attributes {
        dWidth -60
      }
    },
    {
      delta node-XY3 : {
        x 964,
        y 1214
      }
    },
    {
      delta node-XY5 : {
        x 2792,
        y 3416
      }
    },
    {
      delta node-XY3 : {
        x 928,
        y 1175
      }
    },
    {
      delta node-XY5 : {
        x 4514,
        y 5792
      }
    },
    {
      delta node-XY3 : {
        x 1131,
        y 1372
      }
    },
    {
      delta node-XY6 : {
        x 5786,
        y 7362
      }
    }
  }
}

```

```

    }
  },
connectsTo {
  {
    connectingLane {
      lane 1,
      maneuver {maneuverStraightAllowed}
    }
  },
  {
    connectingLane {
      lane 10,
      maneuver {maneuverLeftAllowed}
    },
    signalGroup 4
  }
}
},
{
  laneID 3,
  egressApproach 2,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed, maneuverLeftAllowed, maneuverRightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 1353,
        y 1271
      }
    },
    {
      delta node-XY4 : {
        x 1267,
        y 1712
      }
    },
    {
      delta node-XY4 : {
        x 2396,
        y 3037
      }
    },
    {
      delta node-XY3 : {
        x 953,
        y 1210
      }
    },
    {
      delta node-XY5 : {
        x 4574,
        y 5743
      }
    },
    {
      delta node-XY3 : {
        x 1068,
        y 1386
      }
    },
    {
      delta node-XY5 : {
        x 5067,
        y 6279
      }
    }
  }
}

```

```

    }
  },
  {
    delta node-XY3 : {
      x 833,
      y 901
    }
  }
},
{
  laneID 4,
  ingressApproach 3,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverRightAllowed, maneuverRightTurnOnRedAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 1858,
        y -28
      },
      attributes {
        data {
          speedLimits : {
            {
              type vehicleMaxSpeed,
              speed 782
            }
          }
        },
        dWidth 60
      }
    },
    {
      delta node-XY4 : {
        x 2708,
        y -3051
      }
    },
    {
      delta node-XY3 : {
        x 687,
        y -1192
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 3,
        maneuver {maneuverRightAllowed}
      },
      signalGroup 6
    }
  }
},
{
  laneID 5,
  ingressApproach 3,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},

```

```

nodeList nodes : {
  {
    delta node-XY3 : {
      x 1616,
      y -250
    }
  },
  {
    delta node-XY5 : {
      x 3637,
      y -4021
    }
  },
  {
    delta node-XY6 : {
      x 5852,
      y -6316
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 4,
      maneuver {maneuverStraightAllowed}
    }
  },
  {
    connectingLane {
      lane 16,
      maneuver {maneuverStraightAllowed}
    },
    signalGroup 6
  }
}
},
{
  laneID 6,
  ingressApproach 3,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 1376,
        y -462
      }
    },
    {
      delta node-XY5 : {
        x 3667,
        y -4107
      }
    },
    {
      delta node-XY6 : {
        x 5788,
        y -6289
      }
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 17,

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```

        maneuver {maneuverStraightAllowed}
    },
    signalGroup 6
}
},
{
    laneID 7,
    ingressApproach 3,
    laneAttributes {
        directionalUse {ingressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x 1099,
                y -705
            }
        },
        {
            delta node-XY5 : {
                x 3727,
                y -4120
            }
        },
        {
            delta node-XY6 : {
                x 5720,
                y -6267
            }
        }
    },
    connectsTo {
        {
            connectingLane {
                lane 18,
                maneuver {maneuverStraightAllowed}
            },
            signalGroup 6
        }
    }
},
{
    laneID 8,
    egressApproach 4,
    laneAttributes {
        directionalUse {egressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x -72,
                y -1807
            }
        },
        {
            delta node-XY4 : {
                x 2662,
                y -2925
            }
        },
        {
            delta node-XY6 : {

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        x 6948,
        y -7570
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 15,
            maneuver {maneuverStraightAllowed}
        },
        remoteIntersection {
            region 0,
            id 1004
        }
    }
}
},
{
    laneID 9,
    egressApproach 4,
    laneAttributes {
        directionalUse {egressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x 203,
                y -1599
            }
        },
        {
            delta node-XY4 : {
                x 2707,
                y -2966
            }
        },
        {
            delta node-XY6 : {
                x 6838,
                y -7478
            }
        }
    },
    connectsTo {
        {
            connectingLane {
                lane 16,
                maneuver {maneuverStraightAllowed}
            },
            remoteIntersection {
                region 0,
                id 1004
            }
        }
    }
}
},
{
    laneID 10,
    egressApproach 4,
    laneAttributes {
        directionalUse {egressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},

```

```

nodeList nodes : {
  {
    delta node-XY3 : {
      x 445,
      y -1351
    }
  },
  {
    delta node-XY4 : {
      x 2672,
      y -2922
    }
  },
  {
    delta node-XY6 : {
      x 6867,
      y -7525
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 17,
      maneuver {maneuverStraightAllowed}
    },
    remoteIntersection {
      region 0,
      id 1004
    }
  }
}
},
{
  laneID 11,
  ingressApproach 7,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -1711,
        y -59
      }
    },
    {
      delta node-XY5 : {
        x -4941,
        y 5586
      }
    },
    {
      delta node-XY5 : {
        x -4053,
        y 4659
      }
    },
    {
      delta node-XY5 : {
        x -5004,
        y 5693
      }
    },
    {
      delta node-XY6 : {

```



```

        x -7372,
        y 7951
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 8,
            maneuver {maneuverStraightAllowed}
        },
        signalGroup 2
    }
}
},
{
    laneID 12,
    ingressApproach 7,
    laneAttributes {
        directionalUse {ingressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x -1464,
                y 175
            }
        },
        {
            delta node-XY5 : {
                x -4976,
                y 5593
            }
        },
        {
            delta node-XY5 : {
                x -4041,
                y 4653
            }
        },
        {
            delta node-XY5 : {
                x -5048,
                y 5725
            }
        },
        {
            delta node-XY6 : {
                x -7269,
                y 7986
            }
        }
    },
    connectsTo {
        {
            connectingLane {
                lane 9,
                maneuver {maneuverStraightAllowed}
            },
            signalGroup 2
        }
    }
}
},
{
    laneID 13,
    ingressApproach 7,

```

```

laneAttributes {
  directionalUse {ingressPath},
  sharedWith {},
  laneType vehicle : {}
},
maneuvers {maneuverStraightAllowed},
nodeList nodes : {
  {
    delta node-XY3 : {
      x -1178,
      y 401
    }
  },
  {
    delta node-XY5 : {
      x -4923,
      y 5528
    }
  },
  {
    delta node-XY3 : {
      x -1216,
      y 1477
    }
  },
  {
    delta node-XY5 : {
      x -3032,
      y 3447
    }
  },
  {
    delta node-XY5 : {
      x -4936,
      y 5551
    }
  },
  {
    delta node-XY6 : {
      x -7274,
      y 8014
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 10,
      maneuver {maneuverStraightAllowed}
    },
    signalGroup 2
  },
  {
    connectingLane {
      lane 14,
      maneuver {maneuverStraightAllowed}
    }
  }
},
{
  laneID 14,
  ingressApproach 7,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverLeftAllowed, maneuverUTurnAllowed},

```

```

nodeList nodes : {
  {
    delta node-XY3 : {
      x -909,
      y 634
    },
    attributes {
      dWidth -30
    }
  },
  {
    delta node-XY5 : {
      x -3261,
      y 3583
    }
  },
  {
    delta node-XY4 : {
      x -2170,
      y 2333
    }
  },
  {
    delta node-XY3 : {
      x -977,
      y 856
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 3,
      maneuver {maneuverLeftAllowed}
    },
    signalGroup 5
  },
  {
    connectingLane {
      lane 18,
      maneuver {maneuverUTurnAllowed}
    },
    signalGroup 5
  }
},
{
  laneID 15,
  egressApproach 8,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY4 : {
        x 112,
        y 2081
      },
      attributes {
        dWidth 30
      }
    },
    {
      delta node-XY3 : {
        x -1032,
        y 872
      }
    }
  }
}

```

```

    }
  },
  {
    delta node-XY4 : {
      x -2167,
      y 2039
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 16,
      maneuver {maneuverStraightAllowed}
    }
  }
}
},
{
  laneID 16,
  egressApproach 8,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -127,
        y 1721
      }
    },
    {
      delta node-XY5 : {
        x -2960,
        y 3271
      }
    },
    {
      delta node-XY6 : {
        x -6475,
        y 7470
      }
    },
    {
      delta node-XY5 : {
        x -4443,
        y 5086
      }
    },
    {
      delta node-XY6 : {
        x -7680,
        y 8302
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 8,
        maneuver {maneuverStraightAllowed}
      },
      remoteIntersection {
        region 0,
        id 1002
      }
    }
  }
}

```

```

    }
  },
  {
    laneID 17,
    egressApproach 8,
    laneAttributes {
      directionalUse {egressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
      {
        delta node-XY3 : {
          x -305,
          y 1365
        }
      },
      {
        delta node-XY5 : {
          x -4056,
          y 4488
        }
      },
      {
        delta node-XY6 : {
          x -5380,
          y 6197
        }
      },
      {
        delta node-XY5 : {
          x -4508,
          y 5113
        }
      },
      {
        delta node-XY6 : {
          x -7675,
          y 8447
        }
      }
    },
    connectsTo {
      {
        connectingLane {
          lane 9,
          maneuver {maneuverStraightAllowed}
        },
        remoteIntersection {
          region 0,
          id 1002
        }
      }
    }
  },
  {
    laneID 18,
    egressApproach 8,
    laneAttributes {
      directionalUse {egressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
      {
        delta node-XY3 : {

```

```

        x -539,
        y 1017
    }
},
{
    delta node-XY5 : {
        x -4056,
        y 4506
    }
},
{
    delta node-XY6 : {
        x -5439,
        y 6310
    }
},
{
    delta node-XY5 : {
        x -4463,
        y 5015
    }
},
{
    delta node-XY6 : {
        x -7701,
        y 8424
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 10,
            maneuver {maneuverStraightAllowed}
        },
        remoteIntersection {
            region 0,
            id 1002
        }
    }
}
},
{
    laneID 19,
    laneAttributes {
        directionalUse {ingressPath, egressPath},
        sharedWith {},
        laneType crosswalk : {hasPushToWalkButton, audioSupport,
            unsignalizedSegmentsPresent}
    },
    nodeList nodes : {
        {
            delta node-XY4 : {
                x 586,
                y 2402
            },
            attributes {
                dWidth -30
            }
        },
        {
            delta node-XY2 : {
                x 242,
                y -844
            }
        },
        {
            delta node-XY3 : {
                x 1106,

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        y -1171
      }
    },
    {
      delta node-XY2 : {
        x 434,
        y 652
      }
    }
  },
connectsTo {
  {
    connectingLane {
      lane 20,
      maneuver {maneuverRightAllowed}
    },
    signalGroup 14
  }
}
},
{
  laneID 20,
  laneAttributes {
    directionalUse {ingressPath, egressPath},
    sharedWith {},
    laneType crosswalk : {hasPushToWalkButton, audioSupport}
  },
  nodeList nodes : {
    {
      delta node-XY4 : {
        x 2368,
        y 1039
      }
    },
    {
      delta node-XY2 : {
        x -434,
        y -652
      }
    },
    {
      delta node-XY3 : {
        x -1197,
        y -1201
      }
    },
    {
      delta node-XY3 : {
        x -1283,
        y -1229
      }
    }
  },
connectsTo {
  {
    connectingLane {
      lane 19,
      maneuver {maneuverLeftAllowed}
    },
    signalGroup 16
  }
}
}
}
}
}
}
```