

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

MapData payload size 818

```
payload=0012832E280A3011000003EE00A5F9CD29113DD979883C012C162C01140000009000572F1C0204050288BC579
7BB22A4BB9304889000216010A00000180004B9DC5D0030281445F0F0ECE39CC2C90FCDFE1689B2D2A852148000890C
80004180322000002000095981CB018140A22F87876A6D0F9647BA6F4CB45B169625808680000052000AB4526943028
1461D1E0B4E0D4C585AA7E290320006488C000316029A00000100002AC6785B0C0A051874782CE6377165CA700244A0
0018B018D000000800014F8C64018140A30E8F059B27C02CF64780489C000316039A000000A00029DFA7B030281461D
0F0B19D14C57C2AC8290A10001486200008E042100000100002A8131800C0A051874782BF94BE1680A4B0443E002000
007DE3812840000040000AA3ECB5030281461D1E0AFBD2B05A8C8BE1110800800001F78E052100000100002A9EC4460
C0A051874782C074441681A2604446002000007DE5816A80000072001AD8928DC0C0A05117C3C34AD982C6A1738C0D5
587D7128FA0A9240E000212104001091340008180C620000020000D46343B818140A22F87869562FB0D3B66C71ABE90
F2248C3B92C0D740000029000D45E8C6618140A30E8F089A25D8A343C6184681BC5310CE0D5F052110000490C200022
C0E740000020000D4762F8218140A30E8F089B6DC16341FE2CC688EC2C90CCED5D4121300004581EE80000040001A42
DD220C0A051874784504ED5B19F47214346A613886626A3E090A800022C10740000014000524A3308605028C3A1E1A8
C2D1834BCDD3452068000A913100051C11820000020000D4F6BE0A18140A30E8F06652D628CFC98E01A0E7166431BF5
EE0881C00400000FB4704A080000080003537FED40605028C3A3C197BB62C33D2E538686FC3F90C42D8002209001000
003ED1C13820000020000D4C878DC18140A30E8F065E5D9B0CED99A41A13F1204332B5750882C00400000FB49052580
020C0000B8A7E26C121E162E9C48A4548003922E8001C482B4C00106000156D66120243C2442193122F9098A4510004
122C40020482D6C0010600005B934F94090F08E5712C522A800149172000A2417C6000830000A8789054121E1D0F2D9
A2B31DB9148A100062459000300
```

gov.usdot.asnl.generated.j2735.ds.src.MessageFrame

```
value MessageFrame ::= {
  messageId 18,
  value MapData : {
    msgIssueRevision 10,
    layerType intersectionData,
    intersections {
      {
        id {
          region 0,
          id 1006
        },
        revision 0,
        refPoint {
          lat 374255954,
          long -1221467916,
          elevation 120
        },
        laneWidth 300,
        laneSet {
          {
            laneID 1,
            ingressApproach 1,
            laneAttributes {
              directionalUse {ingressPath},
              sharedWith {},
              laneType vehicle : {}
            },
            maneuvers {maneuverRightAllowed, maneuverRightTurnOnRedAllowed},
            nodeList nodes : {
              {
                delta node-XY4 : {
                  x 753,
                  y 2052
                },
                attributes {
                  data {
                    speedLimits : {
                      {
                        type vehicleMaxSpeed,
                        speed 559
                      }
                    }
                  }
                }
              }
            }
          }
        }
      }
    }
  }
}
```

```

    }
  },
  {
    delta node-XY3 : {
      x 971,
      y 1497
    }
  },
  {
    delta node-XY3 : {
      x 587,
      y 915
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 17,
      maneuver {maneuverRightAllowed}
    },
    signalGroup 4
  }
}
},
{
  laneID 2,
  ingressApproach 1,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed, maneuverLeftAllowed},
  nodeList nodes : {
    {
      delta node-XY4 : {
        x 952,
        y 1856
      },
      attributes {
        data {
          speedLimits : {
            {
              type vehicleMaxSpeed,
              speed 559
            }
          }
        },
        dWidth 30
      }
    },
    {
      delta node-XY4 : {
        x 1649,
        y 2508
      }
    },
    {
      delta node-XY6 : {
        x 4639,
        y 7164
      }
    }
  },
  {

```

```

    delta node-XY6 : {
      x 8812,
      y 13482
    }
  },
connectsTo {
  {
    connectingLane {
      lane 10,
      maneuver {maneuverLeftAllowed}
    },
    signalGroup 4
  },
  {
    connectingLane {
      lane 12,
      maneuver {maneuverStraightAllowed}
    },
    signalGroup 4
  }
},
{
  laneID 3,
  egressApproach 2,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 1216,
        y 1624
      },
      attributes {
        data {
          speedLimits : {
            {
              type vehicleMaxSpeed,
              speed 559
            }
          }
        },
        dWidth 30
      }
    },
    {
      delta node-XY4 : {
        x 1702,
        y 2591
      }
    },
    {
      delta node-XY6 : {
        x 4590,
        y 7123
      }
    },
    {
      delta node-XY6 : {
        x 8920,
        y 13489
      }
    }
  }
}

```

```

    }
  }
},
{
  laneID 4,
  ingressApproach 3,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed, maneuverRightAllowed,
    maneuverRightTurnOnRedAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 1300,
        y 421
      },
      attributes {
        data {
          speedLimits : {
            {
              type vehicleMaxSpeed,
              speed 782
            }
          }
        },
        dWidth 60
      }
    },
    {
      delta node-XY3 : {
        x 1336,
        y -1197
      }
    },
    {
      delta node-XY3 : {
        x 1069,
        y -705
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 3,
        maneuver {maneuverRightAllowed}
      },
      signalGroup 6
    },
    {
      connectingLane {
        lane 17,
        maneuver {maneuverStraightAllowed}
      },
      signalGroup 6
    }
  }
},
{
  laneID 5,
  ingressApproach 3,
  laneAttributes {

```

```

    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 1127,
        y 91
      },
      attributes {
        data {
          speedLimits : {
            {
              type vehicleMaxSpeed,
              speed 782
            }
          }
        },
        dWidth 60
      }
    },
    {
      delta node-XY3 : {
        x 1254,
        y -1161
      }
    },
    {
      delta node-XY3 : {
        x 1209,
        y -800
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 18,
        maneuver {maneuverStraightAllowed}
      },
      signalGroup 6
    }
  }
},
{
  laneID 6,
  ingressApproach 3,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY2 : {
        x 908,
        y -224
      },
      attributes {
        data {
          speedLimits : {
            {
              type vehicleMaxSpeed,

```

```

        speed 782
    }
}
},
dWidth 60
}
},
{
    delta node-XY3 : {
        x 1241,
        y -1056
    }
},
{
    delta node-XY3 : {
        x 1270,
        y -904
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 19,
            maneuver {maneuverStraightAllowed}
        },
        signalGroup 6
    }
}
},
{
    laneID 7,
    ingressApproach 3,
    laneAttributes {
        directionalUse {ingressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverLeftAllowed, maneuverUTurnAllowed},
    nodeList nodes : {
        {
            delta node-XY2 : {
                x 765,
                y -532
            },
            attributes {
                data {
                    speedLimits : {
                        {
                            type vehicleMaxSpeed,
                            speed 782
                        }
                    }
                },
                dWidth 30
            }
        },
        {
            delta node-XY3 : {
                x 1127,
                y -941
            }
        },
        {
            delta node-XY3 : {
                x 993,

```

```

        y -668
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 10,
            maneuver {maneuverUTurnAllowed}
        },
        signalGroup 1
    },
    {
        connectingLane {
            lane 12,
            maneuver {maneuverLeftAllowed}
        },
        signalGroup 1
    }
}
},
{
    laneID 8,
    egressApproach 4,
    laneAttributes {
        directionalUse {egressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x 19,
                y -1664
            },
            attributes {
                data {
                    speedLimits : {
                        {
                            type vehicleMaxSpeed,
                            speed 782
                        }
                    }
                }
            },
            dWidth 60
        }
    },
    {
        delta node-XY3 : {
            x 1017,
            y -834
        }
    },
    {
        delta node-XY3 : {
            x 1281,
            y -874
        }
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 15,
            maneuver {maneuverStraightAllowed}
        }
    }
}
}

```

```

    },
    remoteIntersection {
      region 0,
      id 1007
    }
  }
},
{
  laneID 9,
  egressApproach 4,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 251,
        y -1324
      },
      attributes {
        data {
          speedLimits : {
            {
              type vehicleMaxSpeed,
              speed 782
            }
          }
        },
        dWidth 60
      }
    },
    {
      delta node-XY3 : {
        x 1007,
        y -852
      }
    },
    {
      delta node-XY3 : {
        x 1350,
        y -929
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 16,
        maneuver {maneuverStraightAllowed}
      },
      remoteIntersection {
        region 0,
        id 1007
      }
    }
  }
},
{
  laneID 10,
  egressApproach 4,
  laneAttributes {
    directionalUse {egressPath},

```



```

    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 492,
        y -954
      },
      attributes {
        data {
          speedLimits : {
            {
              type vehicleMaxSpeed,
              speed 782
            }
          },
          dWidth 60
        }
      },
    },
    {
      delta node-XY3 : {
        x 1031,
        y -956
      },
    },
    {
      delta node-XY3 : {
        x 1283,
        y -948
      },
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 17,
        maneuver {maneuverStraightAllowed}
      },
      remoteIntersection {
        region 0,
        id 1007
      }
    }
  },
  {
    laneID 11,
    ingressApproach 5,
    laneAttributes {
      directionalUse {ingressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed, maneuverLeftAllowed, maneuverRightAllowed,
      maneuverRightTurnOnRedAllowed},
    nodeList nodes : {
      {
        delta node-XY4 : {
          x -951,
          y -1828
        },
        attributes {
          data {

```

```

        speedLimits : {
            {
                type vehicleMaxSpeed,
                speed 559
            }
        },
        dWidth 30
    }
},
{
    delta node-XY4 : {
        x -1701,
        y -2549
    }
},
{
    delta node-XY4 : {
        x -1513,
        y -2280
    }
},
{
    delta node-XY4 : {
        x -1364,
        y -2089
    }
},
{
    delta node-XY3 : {
        x -737,
        y -1003
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 3,
            maneuver {maneuverStraightAllowed}
        },
        signalGroup 8
    },
    {
        connectingLane {
            lane 8,
            maneuver {maneuverRightAllowed}
        },
        signalGroup 8
    },
    {
        connectingLane {
            lane 19,
            maneuver {maneuverLeftAllowed}
        },
        signalGroup 8
    }
}
},
{
    laneID 12,
    egressApproach 6,
    laneAttributes {
        directionalUse {egressPath},
        sharedWith {},
        laneType vehicle : {}
    }
}

```

```

    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
      {
        delta node-XY3 : {
          x -1254,
          y -1572
        },
        attributes {
          data {
            speedLimits : {
              {
                type vehicleMaxSpeed,
                speed 559
              }
            }
          },
          dWidth 30
        }
      },
      {
        delta node-XY4 : {
          x -1706,
          y -2570
        }
      },
      {
        delta node-XY4 : {
          x -1573,
          y -2361
        }
      },
      {
        delta node-XY4 : {
          x -1286,
          y -1927
        }
      },
      {
        delta node-XY3 : {
          x -884,
          y -1095
        }
      }
    }
  },
  {
    laneID 13,
    ingressApproach 7,
    laneAttributes {
      directionalUse {ingressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed, maneuverRightAllowed,
      maneuverRightTurnOnRedAllowed},
    nodeList nodes : {
      {
        delta node-XY3 : {
          x -1292,
          y -461
        },
        attributes {
          data {
            speedLimits : {
              {

```

```

        type vehicleMaxSpeed,
        speed 782
    }
}
},
dWidth 60
}
},
{
    delta node-XY5 : {
        x -3260,
        y 3781
    }
},
{
    delta node-XY4 : {
        x -1928,
        y 2145
    }
},
{
    delta node-XY4 : {
        x -2021,
        y 2214
    }
},
{
    delta node-XY5 : {
        x -4896,
        y 5500
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 8,
            maneuver {maneuverStraightAllowed}
        },
        signalGroup 2
    },
    {
        connectingLane {
            lane 12,
            maneuver {maneuverRightAllowed}
        },
        signalGroup 2
    }
}
},
{
    laneID 14,
    ingressApproach 7,
    laneAttributes {
        directionalUse {ingressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x -1103,
                y -63
            },
            attributes {

```

```

    data {
      speedLimits : {
        {
          type vehicleMaxSpeed,
          speed 782
        }
      }
    },
    dWidth 60
  }
},
{
  delta node-XY5 : {
    x -3219,
    y 3595
  }
},
{
  delta node-XY4 : {
    x -1985,
    y 2227
  }
},
{
  delta node-XY4 : {
    x -1906,
    y 2137
  }
},
{
  delta node-XY5 : {
    x -4914,
    y 5493
  }
}
},
connectsTo {
  {
    connectingLane {
      lane 9,
      maneuver {maneuverStraightAllowed}
    },
    signalGroup 2
  }
}
},
{
  laneID 15,
  ingressApproach 7,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY2 : {
        x -933,
        y 290
      },
      attributes {
        data {
          speedLimits : {
            {
              type vehicleMaxSpeed,

```

```

        speed 782
    }
}
},
dWidth 60
}
},
{
    delta node-XY5 : {
        x -3053,
        y 3419
    }
},
{
    delta node-XY4 : {
        x -2095,
        y 2314
    }
},
{
    delta node-XY4 : {
        x -1836,
        y 2126
    }
},
{
    delta node-XY5 : {
        x -4924,
        y 5407
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 10,
            maneuver {maneuverStraightAllowed}
        },
        signalGroup 2
    }
}
},
{
    laneID 16,
    ingressApproach 7,
    laneAttributes {
        directionalUse {ingressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverLeftAllowed, maneuverUTurnAllowed},
    nodeList nodes : {
        {
            delta node-XY2 : {
                x -728,
                y 609
            },
            attributes {
                data {
                    speedLimits : {
                        {
                            type vehicleMaxSpeed,
                            speed 782
                        }
                    }
                }
            }
        }
    },

```

```

        dWidth 30
    }
},
{
    delta node-XY4 : {
        x -1488,
        y 1676
    }
},
{
    delta node-XY4 : {
        x -1671,
        y 1869
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 3,
            maneuver {maneuverLeftAllowed}
        },
        signalGroup 5
    },
    {
        connectingLane {
            lane 19,
            maneuver {maneuverUTurnAllowed}
        },
        signalGroup 5
    }
}
},
{
    laneID 17,
    egressApproach 8,
    laneAttributes {
        directionalUse {egressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x -75,
                y 1797
            },
            attributes {
                data {
                    speedLimits : {
                        {
                            type vehicleMaxSpeed,
                            speed 782
                        }
                    }
                }
            },
            dWidth 60
        }
    },
    {
        delta node-XY4 : {
            x -2478,
            y 2757
        }
    },
},

```

```

    {
      delta node-XY4 : {
        x -2076,
        y 2272
      }
    },
    {
      delta node-XY4 : {
        x -1991,
        y 2227
      }
    },
    {
      delta node-XY5 : {
        x -5009,
        y 5614
      }
    }
  },
connectsTo {
  {
    connectingLane {
      lane 3,
      maneuver {maneuverStraightAllowed}
    },
    remoteIntersection {
      region 0,
      id 1005
    }
  }
}
},
{
  laneID 18,
  egressApproach 8,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -257,
        y 1448
      },
      attributes {
        data {
          speedLimits : {
            {
              type vehicleMaxSpeed,
              speed 782
            }
          }
        },
        dWidth 60
      }
    },
    {
      delta node-XY4 : {
        x -2578,
        y 2838
      }
    }
  },
}

```



```

    delta node-XY4 : {
      x -2139,
      y 2382
    }
  },
  {
    delta node-XY4 : {
      x -1937,
      y 2175
    }
  },
  {
    delta node-XY5 : {
      x -5054,
      y 5632
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 4,
      maneuver {maneuverStraightAllowed}
    },
    remoteIntersection {
      region 0,
      id 1005
    }
  }
}
},
{
  laneID 19,
  egressApproach 8,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -445,
        y 1134
      },
      attributes {
        data {
          speedLimits : {
            {
              type vehicleMaxSpeed,
              speed 782
            }
          }
        },
        dWidth 60
      }
    },
    {
      delta node-XY4 : {
        x -2587,
        y 2870
      }
    },
    {
      delta node-XY4 : {

```

```

        x -2196,
        y 2468
    }
},
{
    delta node-XY4 : {
        x -1969,
        y 2192
    }
},
{
    delta node-XY5 : {
        x -4918,
        y 5493
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 5,
            maneuver {maneuverStraightAllowed}
        },
        remoteIntersection {
            region 0,
            id 1005
        }
    }
}
},
{
    laneID 20,
    ingressApproach 9,
    laneAttributes {
        directionalUse {ingressPath, egressPath},
        sharedWith {},
        laneType crosswalk : {hasPushToWalkButton, audioSupport}
    },
    nodeList nodes : {
        {
            delta node-XY4 : {
                x 335,
                y 2203
            },
            attributes {
                dWidth 30
            }
        },
        {
            delta node-XY3 : {
                x 1117,
                y -1143
            }
        }
    }
},
connectsTo {
    {
        connectingLane {
            lane 21,
            maneuver {maneuverRightAllowed}
        },
        signalGroup 14
    },
    {
        connectingLane {
            lane 23,

```

```

        maneuver {maneuverLeftAllowed}
    },
    signalGroup 14
}
},
{
    laneID 21,
    ingressApproach 10,
    laneAttributes {
        directionalUse {ingressPath, egressPath},
        sharedWith {},
        laneType crosswalk : {hasPushToWalkButton, audioSupport}
    },
    nodeList nodes : {
        {
            delta node-XY3 : {
                x 1452,
                y 1060
            },
            attributes {
                dWidth 30
            }
        },
        {
            delta node-XY3 : {
                x -958,
                y -1645
            }
        },
        {
            delta node-XY3 : {
                x -929,
                y -1517
            }
        }
    },
    connectsTo {
        {
            connectingLane {
                lane 20,
                maneuver {maneuverLeftAllowed}
            },
            signalGroup 16
        },
        {
            connectingLane {
                lane 22,
                maneuver {maneuverRightAllowed}
            },
            signalGroup 16
        }
    }
},
{
    laneID 22,
    ingressApproach 11,
    laneAttributes {
        directionalUse {ingressPath, egressPath},
        sharedWith {},
        laneType crosswalk : {hasPushToWalkButton, audioSupport}
    },
    nodeList nodes : {
        {
            delta node-XY4 : {
                x -435,

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        y -2102
    },
    attributes {
        dWidth 30
    }
},
{
    delta node-XY3 : {
        x -1131,
        y 1099
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 21,
            maneuver {maneuverLeftAllowed}
        },
        signalGroup 10
    },
    {
        connectingLane {
            lane 23,
            maneuver {maneuverRightAllowed}
        },
        signalGroup 10
    }
}
},
{
    laneID 23,
    ingressApproach 12,
    laneAttributes {
        directionalUse {ingressPath, egressPath},
        sharedWith {},
        laneType crosswalk : {hasPushToWalkButton, audioSupport}
    },
    nodeList nodes : {
        {
            delta node-XY3 : {
                x -1566,
                y -1003
            },
            attributes {
                dWidth 30
            }
        },
        {
            delta node-XY4 : {
                x 1084,
                y 1741
            }
        },
        {
            delta node-XY3 : {
                x 817,
                y 1465
            }
        }
    }
},
connectsTo {
    {
        connectingLane {
            lane 20,
            maneuver {maneuverRightAllowed}
        }
    }
}
}

```

```
    },
    signalGroup 12
  },
  {
    connectingLane {
      lane 22,
      maneuver {maneuverLeftAllowed}
    },
    signalGroup 12
  }
}
}
}
}
}
}
}
```