

Project Name: F0661 SR377 Geometry Report
Description: SR377

BASIS OF BEARINGS:

ADOT Engineering Survey Crew surveyed and provided the Coordinates for the project. Coordinates were based on NAD83\2011 Horizontal and NAVD88 Vertical Datum with a GAF of 1.00031. NGS Control Points used for this project include: DRY, LAKE, and SCOTT.

BASIS OF ALIGNMENT AND STATIONS:

Best fit alignment was based on split of existing edge of pavement survey points and right of way markers that were located in the field. The alignment stationing is tied to 3 inch AC AHD POT Sta. 580+00 and the record drawing that was used to create the alignment was F-069-1-603.

BASIS OF ELEVATIONS:

NGS Monument Stamped DRY with elevation 5885.59, was held as basis of elevation for the project.

Horizontal Alignment Name: 100

Description:

Style: Default

| | STATION | NORTHING | EASTING |
|---------------------------|--------------------|------------|-----------|
| Element: Linear | | | |
| POB () | 523+00.00 | 1297052.71 | 625752.38 |
| PC () | 543+61.10 | 1299113.48 | 625789.41 |
| Tangent Direction: | N 1^01'46.17" E | | |
| Tangent Length: | 2061.10 | | |
| Element: Circular | | | |
| PC () | 543+61.10 | 1299113.48 | 625789.41 |
| PI () | 548+52.75 | 1299605.05 | 625798.25 |
| CC () | | 1299085.40 | 627351.75 |
| PT () | 553+13.75 | 1300003.00 | 626086.96 |
| Radius: | 1562.58 | | |
| Delta: | 34^55'52.00" Right | | |
| Degree of Curvature(Arc): | 3^40'00.23" | | |
| Length: | 952.65 | | |
| Tangent: | 491.65 | | |
| Chord: | 937.96 | | |
| Middle Ordinate: | 72.04 | | |
| External: | 75.52 | | |
| Tangent Direction: | N 1^01'46.17" E | | |
| Radial Direction: | S 88^58'13.83" E | | |
| Chord Direction: | N 18^29'42.17" E | | |
| Radial Direction: | S 54^02'21.83" E | | |
| Tangent Direction: | N 35^57'38.17" E | | |

Element: Linear

| | | | | |
|--------------------|------------------|-----------|------------|-----------|
| PT (|) | 553+13.75 | 1300003.00 | 626086.96 |
| POE (|) | 788+81.27 | 1319079.05 | 639926.49 |
| Tangent Direction: | N 35^57'38.17" E | | | |
| Tangent Length: | 23567.52 | | | |