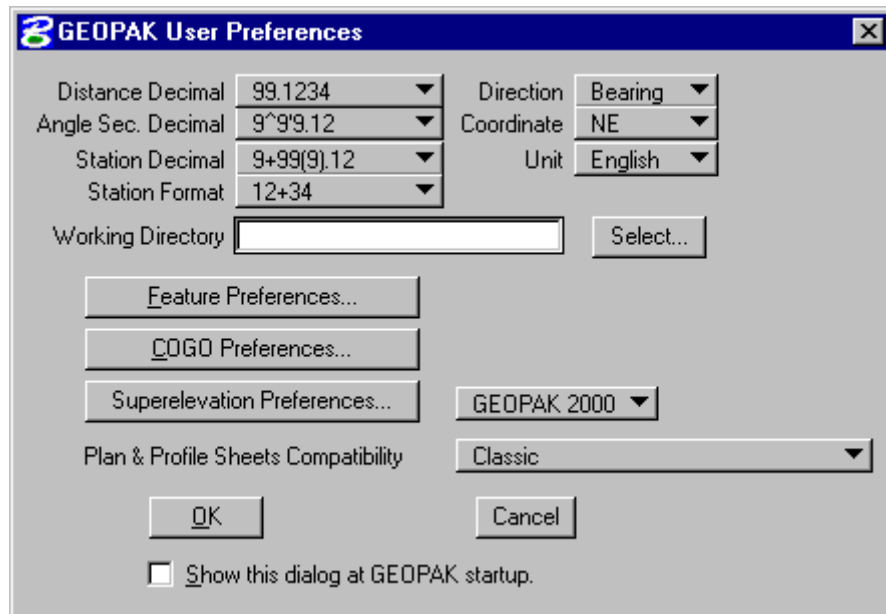


Exercise 5-1

1. Open the Microstation file t:\de-proj\Exercise_Rte_24\Route_24.dgn.

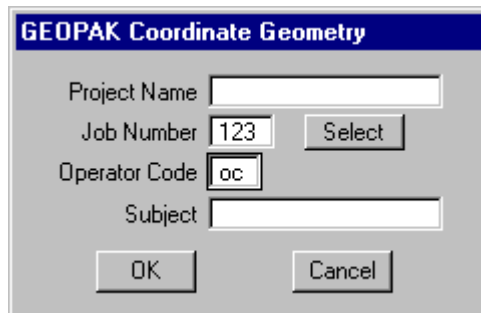
2. Go to **Applications>>Geopak Road>>User Preferences** and delete the working directory



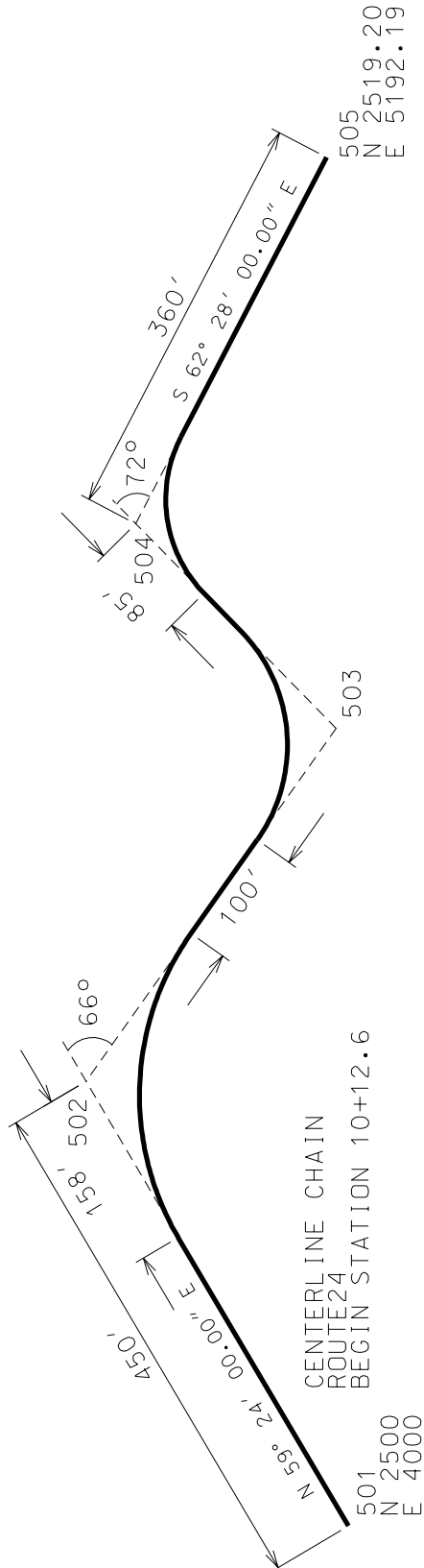
3. Open the **Coordinate Geometry** dialog. 

Create **Job Number: 123**

Set the **Operator Code** to your initials.



Create the following alignment as shown on the following pages.



4. Store points 501 and 505 with the coordinates shown.

Point > Store

Point Number: 501

Auto Increment

Coordinates

Northing: 2500 DP

Easting: 4000

Station: _____

Elevation: _____

PCode: _____

Cell: _____ Scale: _____

Feature: _____

Description: _____

Apply

Point > Store

Point Number: 505

Auto Increment

Coordinates

Northing: 2519.2 DP

Easting: 5192.19

Station: _____

Elevation: _____

PCode: _____

Cell: _____ Scale: _____

Feature: _____

Description: _____

Apply

5. Locate points 502 and 504.

Locate Traverse

Locate Point: 502 Elevation On
 Side Shot Mode

Starting Point

Name: 501 Equate

Elevation: 0.000000 Instr. Height: 0.000000

Direction

Bearing: N 59 24 00.00 E + _____

Offset Distance: RT 0.0000

Distance

Distance: 450

Zenith Angle: 90 00 00.00 Rod Height: 0.000000

Apply

Locate Traverse

Locate Point: 504 Elevation On
 Side Shot Mode

Starting Point

Name: 505 Equate

Elevation: 0.000000 Instr. Height: 0.000000

Direction

Bearing: N 62 28 W + _____

Offset Distance: RT 0.0000

Distance

Distance: 360

Zenith Angle: 90 00 00.00 Rod Height: 0.000000

Apply

6. Locate point 503 by using the **Intersect** tool.

7. Store CURVE1, CURVE2, and CURVE3.

7. (Continued)

Store Curve from Tangents

Curve name Station

Back Tangent

PB

PI

Element

Tangent

Increment

Ahead Tangent

Point Ahead (PA)

PT Curve1 to 503 m 100

Store Curve from Tangents

Curve name Station

Back Tangent

PB

PI

Element

Tangent

Increment

Ahead Tangent

Point Ahead (PA)

8. Store the alignment chain Route24.

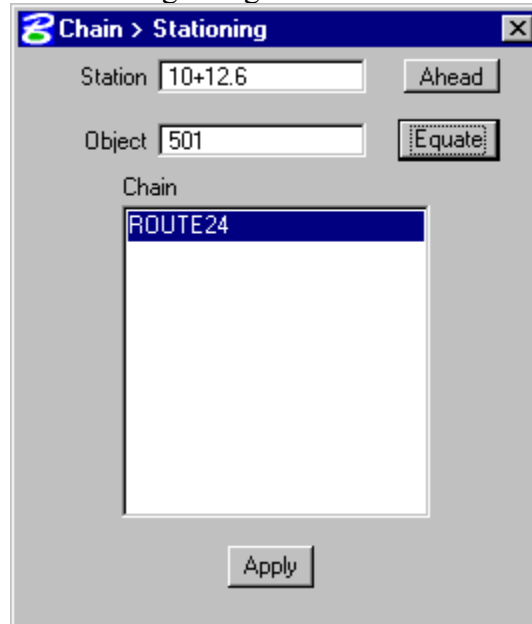
Chain > Store > From Elements

Chain Name

Elements

Point Number

9. Station the centerline at the beginning with station 10+12.6



10. Describe the chain and save the output file. Review the output file in **UltraEdit**.

11. Use **COGO Navigator** to view the data.

12. Exit Coordinate Geometry.