

**TEXAS DEPARTMENT OF TRANSPORTATION**  
**TECHNICAL PROVISIONS**  
**FOR**  
**SH 99 GRAND PARKWAY SEGMENTS H, I-1 AND I-2**

**ATTACHMENT 9-1**  
**SURVEY CONTROLS**  
**RFP ADDENDUM #7**  
**NOVEMBER 4, 2016**

## **ATTACHMENT 9-1 - SURVEY CONTROLS**

### **Segments H and I -1 (From East of US 59 to North of Interstate 10)**

Notes: All bearings and coordinates are based on the Texas coordinate system, North American datum of 1983, (1993 adjustment). The project from US 59 interchange to US 90 (Segment H) distances and coordinates shown are surface and may be converted to grid by dividing by a central zone adjustment factor of 1.0000437. The projects from US 90 to IH 10 (Segment I) distances and coordinates shown are surface and may be converted to grid by dividing by a south central zone adjustment factor of 1.00013.

### **H and I-1 Project Elevation Datum**

All elevations shown are referenced to the North American vertical datum of 1988 with a 1991 adjustment.

Project control coordinate values were established by constraining to values for control points g2h84 and g2h85 and h1-500 all elevations shown are based on TxDOT published elevation for g2h85 = 104.14 and h1-500 = 29.47 verified through digital 3-wire leveling and adjusting to match at the both ends.

### **Segment I-2 (From North of Interstate 10 to SH 146)**

Horizontal control for this project is referenced to the Texas Coordinate System, South Central Zone, North American Datum of NAD 83 (1993) (1996 Adjusted). All coordinates are surface and are in U.S. Survey feet and were derived by applying a combined adjustment factor of 1.00013.

### **I-2 Project Elevation Datum**

Vertical control for this project is based on monument H2002012. All elevations are based on NAVD 88(1991 Adj.) and are in U.S. Survey feet.