



### LAYER AND SURVEY DATUM REQUIREMENTS

When submitting survey datum and layer information for engineering plans that are to be submitted to the City of Prescott (i.e.: final plat, preliminary plat and revision of plat, improvement plans for subdivision and commercial site improvements, as-built plans, etc.) those plans must meet the following survey datum and layer requirements:

1. Datum will be in international feet for horizontal and vertical, NAVD 88 for vertical and City of Prescott co-ordinates for horizontal. Please refer to **Exhibit A** titled, "City of Prescott Survey Datum Requirements."
2. A survey block or note listing two on-site points conforming to "City of Prescott Survey Datum Requirements" must be provided. These two points must have a Northing, Easting and a NAVD 88 elevation.
3. Centerline monuments should be a rebar in a hand hole at all PC's, PT's and intersections. Right-of-Way monuments should be a rebar in concrete at PC's, PT's and angle points. See **Exhibit B**, "Y.A.G. Standard detail 120-1P entitled, "Survey Marker."
4. Works will be submitted in their entirety in digital electronic format which is compatible with the city's system as follows: CADD-- .DGN (microstation), .DWG (Auto CADD), .DXF (generic) and must conform to the city's layer and feature requirements listed below:

<b>"CITY OF PRESCOTT LAYER REQUIREMENTS"</b>	
<b>CONTROL LAYERS</b>	<b>STORM DRAIN LAYER</b>
CONTROL: GPS ground control	STORMLIN: Storm lines
SECCOR: Section corners	STORMSTR: Storm points or nodes
RGTOFWAY: Right of Ways	EXISTSTORM: Existing storm drain features
PARCELS: Property lines	
<b>WATER LAYERS</b>	<b>UTILITY LAYERS MISC.</b>
HYDRANT: Water hydrants	EASEMENT: Easements
WATERSTR: Water points or nodes	EXISTMISC: Existing misc. features
WATERMAIN: Water lines	GAS: Gas lines and features
EXISTWATER: Existing water features	CABLE/TV: Cable, Phone and TV lines
<b>SEWER LAYERS</b>	ELEC: Electric lines and features
SEWERSTR: Sewer points or nodes	<b>ROAD FEATURES</b>
SEWERMAIN: Sewer lines	CNTRLIN: Street centerlines
LIFTSTAT: Lift Stations	CURB: Curb and gutter
EXISTSEWER: Existing sewer features	SIDEWALKS: Sidewalks
	EDGEPAVE: Edge of pavement or uncurbed areas
<b>SURROUNDING FEATURES</b>	UNPAVEDROAD: Unpaved roads
BUILDING: Buildings	
FENCES: Fences and walls	



## “EXHIBIT A”

“CITY OF PRESCOTT SURVEY DATUM REQUIREMENTS”					
<b>COORDINATE UNITS:</b>		International Feet			
<b>DISTANCE UNITS:</b>		International Feet			
<b>HEIGHT UNITS:</b>		International Feet			
<b>VERTICAL DATUM:</b>		NAVD 88			
STATE PLANE					
<b>COORDINATE SYSTEM:</b>		US State Plane 1983			
<b>DATUM:</b>		(WGS 84)			
<b>ZONE:</b>		Arizona Central 0202			
<b>GEOID MODEL:</b>		GEOID99 (Conus)			
CITY OF PRESCOTT – CONVERSION FROM STATE PLANE					
<b>NORTHING:</b>		(State Plane x 1.000329975) – 701,456.0090			
<b>EASTING:</b>		(State Plane x 1.000329975) + 69,457.2499			
STATE PLANE – CONVERSION FROM CITY OF PRESCOTT					
<b>NORTHING:</b>		(City of Prescott + 701,456.0090) x 0.999670134			
<b>EASTING:</b>		(City of Prescott – 69,457.2499) x 0.999670134			
EXAMPLE CITY OF PRESCOTT MINGO BASE					
<b>LATITUDE</b>	34°	34’	29.27969” N		
<b>LONGITUDE</b>	112°	28’	48.72638” W		
<b>HEIGHT</b>	5582.412’				
STATE PLANE		COORDINATES		CITY OF PRESCOTT GRID	
<b>NORTHING</b>		1,301,026.703		600,000.0000	
<b>EASTING</b>		530,367.742		600,000.0000	
<b>ELEVATION</b>		5,673.955’		5,673.955’	
Control provided by the City of Prescott will be in the City of Prescott coordinate system.					
INTERNATIONAL FEET & U.S. FEET CONVERSIONS					
U.S. Feet to International Feet			U.S. Feet x 1.00000200		
International Feet to U.S. Feet			International feet x 0.99999800		

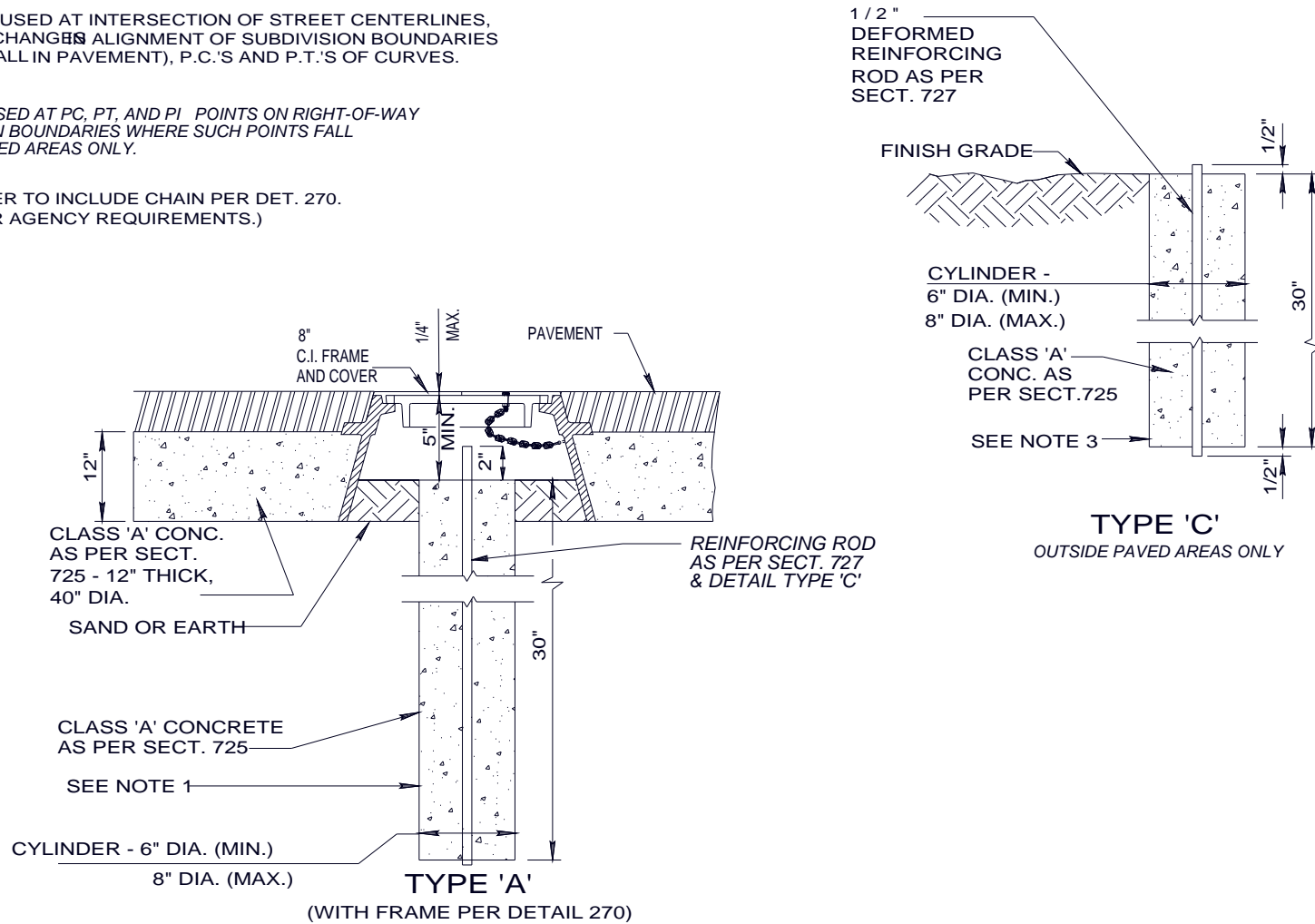
1. When converting elevations, the difference is negligible; 0.011 , For example: 5673.955 International Feet = 5673.944 U.S. Feet.
  
2. When converting State Plane, the difference is unacceptable:  
**Northing:** 1,301,026.703 International Feet = 1,301,024.101 U.S. Feet  
**Eastings:** 530,367.742 International Feet = 530,366.681 U.S. Feet  
 The difference in coordinates is 2.602 feet in the Northings and 1.061 feet in the Eastings which is a locational difference of 2.810 feet.

**Y.A.G. Standard Detail  
120-1P/ Survey Marker**

“EXHIBIT B”

**NOTES:**

1. TYPE 'A' TO BE USED AT INTERSECTIONS OF MAJOR STREETS & COLLECTOR STREETS, AND AT OTHER SPECIAL POINTS IF REQUIRED BY ENGINEER, AS SHOWN ON PLANS.
2. TYPE 'A' TO BE USED AT INTERSECTION OF STREET CENTERLINES, CORNERS OR CHANGES IN ALIGNMENT OF SUBDIVISION BOUNDARIES (WHEN THEY FALL IN PAVEMENT), P.C.'S AND P.T.'S OF CURVES.
3. TYPE 'C' TO BE USED AT PC, PT, AND PI POINTS ON RIGHT-OF-WAY AND SUBDIVISION BOUNDARIES WHERE SUCH POINTS FALL OUTSIDE OF PAVED AREAS ONLY.
4. FRAME & COVER TO INCLUDE CHAIN PER DET. 270. (OPTIONAL PER AGENCY REQUIREMENTS.)



revised 08/05

DETAIL NO. <b>120-1P</b>	<b>YAG STANDARD DETAIL</b>	<b>SURVEY MARKER</b>	DETAIL NO. <b>120-1P</b>
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