AS-BUILT PLANS/RECORD DRAWINGS CHECKLIST

for

City of Flagstaff Public Improvements

December 12, 2019

General (applies to entire plan set)

_____ As-Builts/Record Drawings plan set shall contain all sheets from the approved design/construction plan set (cover sheet to last sheet including details). This includes Landscape Plan, Retaining Wall sheets and Resource Protection Plan (if applicable)

_____ As-Built survey data shall tie into the same horizontal and vertical control as that used for the approved construction plans

_____ All plan sheets shall have an Engineer seal per B.T.R. rules.

_____ Certification. All as-built plans shall contain a statement by a licensed professional engineer who is currently registered in the State of Arizona certifying the drawings to be as-built. All plans must also contain the seal and signature of said registered professional.

_____ All survey data given by the as-built plans shall be performed by a registered land surveyor who is currently registered in the State. Plans must show seal and signature of registrant

_____ Any easements or ROW recorded must include the instrument number

_____ If the As-Built Engineer is different from the Design Engineer, provide the As-Built Engineer contact info on cover sheet.

_____ Place "As-Built" or "Record Drawing" lettering and date in lower right hand corner of all sheets.

_____ Improvements deleted in the field shall be crossed out with an "x" and labeled "not built".

_____ Improvements changed from the approved design plans shall be reflected and clearly called out by "clouding".

_____ Plan sheets that represent improvements that were not changed from the approved design plans shall have "Per Plan" placed in the lower right hand corner.

Sanitary Sewer Plans

_____ Improvements built exactly per design plan shall have the elevations/stations noted within parenthesis and marked "AB".

_____ Stations for all manholes, cleanouts, services and lateral stub-outs.

____ Manhole pipe invert elevations (in and out) and manhole rim elevations shall be determined by field surveying.

_____ Pipe lengths indicated on both plan and profile.

_____ Recalculate longitudinal pipe slopes for all pipe segments. (All measurements to MH Centers)

_____ Stations and length of pipe encasements/extra protection.

_____ Anode locations, valves and tracer wire connection stations and cross ties to two permanent structures at least 30" high

Water Plans

_____ Stations of all water services including landscape and fire lines. At least two (2) horizontal cross-ties

_____ Stations of all fire hydrants.

_____ Stations of all valve boxes, blow-offs, and air release valves.

_____ Stations of all bends, tees, and bell restraints.

_____ Profile view of all pipeline vertical alignments, including stations of all fittings, depth to finish grade, and pipe separation dimensions.

_____ Stations and length of pipe encasements/extra protection.

_____ Horizontal cross ties to two permanent structures (fire hydrants, light poles & ID #, power poles & ID #, etc.) for all valve boxes.

_____ Anode locations, valves and tracer wire connection stations and cross ties to two permanent structures at least 30" high

Drainage Plans

_____ Inverts for storm sewer pipes at inlets and manholes shall be determined by field surveying.

_____ Recalculate longitudinal pipe slopes for all pipe segments.

Street/Trail Plans

_____ Stations of all survey monuments – existing and new

_____ Sleeve/conduit/casing types, sizes, locations and stations.

_____ Provide spot elevations at intersections as well as pavement and curb every 500 ft.

Street Lights and Traffic Signal Plans

_____ Stations for all street illumination lights.

_____ Locations of all traffic signal poles, cabinets, J-boxes and related conduits.

_____ Abandonment of existing conduits and facilities.

_____ Location of signage related to traffic signal.

Miscellaneous

_____ Major unexpected dry utility crossings of water and sewer mains

_____ Unforeseen underground structures exposed during water and sewer main construction such as vaults

_____ Major constructed dry utilities

____ ADA compliance within the ROW, spot elevations, cross and longitudinal slopes