

1116 SURVEY TASK LIST

| ADOT SPEC SECTION | ADOT SPEC WORK ITEM | ACTIVITY DESCRIPTION | INSPECTOR | SURVEY CREW | FREQUENCY |
|-------------------|-----------------------------------|---|-----------|-------------|-------------------------|
| 201 | Clearing & Grubbing | Check staking limits w/ right-angle prism and 100 foot chain. | X | | Beginning of job. |
| 202 | Remove Structures & Obstructions | Measurements & records. | X | | Prior to removals. |
| 203 / 204 | Earthwork | Review plans; check Contractor's survey staking: | | | |
| | | check catch points | | X | 500 foot maximums. |
| | | check 90 degree angles | | X | 500 foot maximums. |
| | | check slope stakes | | X | 500 foot maximums. |
| | | check alignment | | X | 500 foot maximums. |
| | | Spot -check slopes w/hand level. | X | | As needed, 500 ft. max. |
| | | Check each progressive lift depth. | X | | As needed, 500 ft. max. |
| 205 | Grading Roadway for Pavement | Check Contractor bluetop survey staking. | | X | 200 foot average. |
| | | Stringline all bluetops. | X | | All. |
| 301 to 304 | Subgrades, Subbases, and Bases | Subgrade only: check Contractor survey control bluetops. | | | |
| | | Subbases & bases: check bluetops. | | X | 200 foot average. |
| | | Stringline each lift of subgrades, subbases, and bases. | | X | By request only. |
| | | | X | | All. |
| 305 | Lean Concrete Base | Check horizontal & vertical alignment of wire staking. | | X | 200 foot maximum. |
| | | Check hub & tack control with plumbline and stringline. | X | | 100 foot intervals. |
| 401 | Portland Cement Concrete Pavement | Check horizontal & vertical alignment of wire staking. | | X | 200 foot maximum. |
| | | Check hub & tack control with plumbline and stringline. | X | | 100 foot intervals. |
| 402 | PCCP Repairs | Measure, locate, record work. | X | | As required. |
| 406 to 408 | Asphaltic Concrete Classes | Check depths & offsets, stationing, and straightedging. | X | | 100 foot intervals. |

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| 501 / 502 | Pipes, Culverts, and Drains | Check Contractor's survey cut stakes: vertical and horizontal control. Use appropriate survey instruments. | X | X | Short runs - both ends. All large sizes, long runs; others by request only. |
| | | Check pipe excavation and backfill using hand level, watch grade checker. | X | | Check each advance. |
| 503 to 505 | Catch Basins, Standpipes, Manholes | Check position: alignment & elevations. Verify conformance with design. | X | X | Check only upon request. Field verify each location. |
| | | | | | |
| 601 | Concrete Structures: Bridges | Forms/soffit/falsework: verify edge of deck horizontal and vertical control. Check offsets, grades, screeds from control. Abutments & piers: check location & elevation of foundations prior to major pours. Bearing pads: check initial placement and control points, prepare as-builts. | X | X | Check every structure. Check all items. Check every structure. |
| | | Check bearing pads prior to concreting. Check approach and anchor slabs. Bid-Well: provide fill marks for Inspector to check bid-well initial setup. | X | X | Subsequent construction. By request only. Verify layout at beginning of job only, and by request thereafter. |
| | | Continue progress checks: depths, joint locations, etc. | X | | Subsequent construction. |
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| 601 (Cont'd) | Concrete Structures: Walls and Misc. | Check Contractor's initial staking, check footings placement & elevations, etc. Check locations & grades; check all wall forms and miscellaneous structures for plumbness and alignment. | X | X | Verify layout at beginning of job only, and by request thereafter. Check all items. |
| | | | | | |
| 603 & 609 | Pilings & Drilled Shaft Foundations | Check Contractor's survey control hubs, check elevations and horizontal placement. Check lines and grades. | X | X | Initially all, then random. Check all structures. |

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| 604 | Steel Structures | Forms/soffit/falsework: verify edge of deck horizontal and vertical control. Check offsets, grades, screeds from control. Abutments: initial location & elevation. Bearing pads: check initial placement and control points, prepare as-builts. Check bearing pads prior to concreting. Bid-Well: provide fill marks for Inspector to check Bid-Well initial setup. Continue progress checks: depths, joint locations, etc. | X | X | Check every structure. Check all items. Check every structure. Verify layout at beginning of job only, and by request thereafter. Subsequent construction. |
| 606 to 608 | Sign Structures & Support | Check installation layouts, foundation elevations, and slopes. Check lines and grades. | X | X | Verify layout at beginning of job only, and by request thereafter. All major units. |
| 801 to 804 | Landscape Earthwork | Check Contractor survey control bluetops. Inspect final grading & depth of soil. | X | X | By request only. All. |
| 808 / 809 | Water Distribution & Sewer System | Check Contractor's survey cut stakes: vertical and horizontal control. Use appropriate survey instruments. Check pipe excavation and backfill using hand level, watch grade checker. | X | X | Short runs - both ends. All large sizes, long runs; others by request only. Check each advance. |
| 902 / 903 | Fences | Check layout work & measure for payment. | X | | Prior to and when complete. |
| 905 | Guardrail | Check Contractor's layouts. Check layout and placement. | X | X | By request only. Subsequent construction. |
| 908 | Curb & Gutter | Check alignment & grade control points. | X | X | Only if C & G is placed prior to paving; otherwise checked by Inspectors. |
| 909 | Survey Monuments | Check Contractor's survey on permanent section corner replacements & similar. | | X | Verify all key monuments. |
| 910 | Concrete Barriers | Check placement and dimensions. | X | | All critical points. |
| 911 | Right-of-Way Markers | Check placement. | | X | Verify all markers. |

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| 914 | Sound Barrier Walls | Check Contractor's initial staking, check footings placement & elevations, etc. | | X | Verify layout at beginning of job only, and by request thereafter. |
| | | Check locations, grades, and plumbness. | X | | Check all structures. |
| 925 | Construction Surveying and Layout | Inspections and random checks as detailed above per instructions of the Engineer (per the Specification). | | X | As directed. |

GENERAL CONSTRUCTION-RELATED SURVEY ACTIVITIES

1. Preliminary Design Reviews: geometrics, alignment, terrain, obstructions, constructability.
2. Coordinate w/ADOT Photogrammetry on flights and mapping requests.
3. Maintain right-of-way records.
4. Review and check temporary construction easements.
5. Support review and approval of permit requests.