

Items Referenced in the 2024 Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges



Rev. 06/24/2024

Item	Title	Items, Articles, and Sections Referenced
1	Abbreviations and Definitions	None
2	Instructions to Bidders	None
3	Award and Execution of Contract	None
4	Scope of Work	None
5	Control of the Work	None
6	Control of Materials	None
7	Legal Relations and Responsibilities	None
8	Prosecution and Progress	None
9	Measurement and Payment	None
10	Maintenance/Traffic Materials Contracts	None
100	Preparing Right of Way	103, 752
103	Disposal of Wells	100
104	Removing Concrete	None
105	Removing Treated and Untreated Base and Asphalt Pavement	None
106	Obliterating Abandoned Road	None
110	Excavation	132
112	Subgrade Widening	110, 132, 204
132	Embankment	100, 110, 160, 204, 210, 216, 400
134	Backfilling Pavement Edges	162, 166, 168, 300, 314
150	Blading	None
152	Road Grader Work	110, 132, 150, 154, 156
154	Scraper Work	132, 150, 152
156	Bulldozer Work	132
158	Specialized Excavation Work	132
160	Topsoil	168
161	Compost	160
162	Sodding for Erosion Control	164, 166, 168
164	Seeding for Erosion Control	162, 166, 168
166	Fertilizer	520
168	Vegetative Watering	None
169	Soil Retention Blankets	None
170	Irrigation System	193, 402, 403, 618, 620, 624, 628
180	Wildflower Seeding	164
192	Landscape Planting	161, 166, 168, 734, 752
193	Landscape Establishment	166, 168, 192, 731, 734
194	Roadside Amenity	None
204	Sprinkling	None
210	Rolling	None
216	Proof Rolling	210
247	Flexible Base	105, 204, 210, 216, 520
250	Geogrid Base Reinforcement	None
251	Reworking Base Courses	204, 210, 216, 247, 520

260	Lime Treatment (Road-Mixed)	105, 132, 204, 210, 216, 247, 300, 310, 520
275	Cement Treatment (Road-Mixed)	204, 210, 216, 247, 300, 310, 520
276	Cement Treatment (Plant-Mixed)	204, 210, 216, 247, 300, 310, 520
290	Emulsified Asphalt Treatment (Road-Mixed)	105, 204, 210, 216, 247, 300, 315, 520
291	Foamed Asphalt Treatment (Road-Mixed)	105, 204, 210, 216, 247, 290, 300, 315, 520
292	Asphalt Treatment (Plant-Mixed)	300, 301, 320, 520, 585
295	Ultra-High-Pressure Water Cutting Treatment	738
300	Asphalts, Oils, And Emulsions	None
301	Asphalt Antistripping Agents	520
302	Aggregates For Surface Treatments	204, 300, 301, 320, 330
305	Salvaging, Hauling, And Stockpiling Reclaimable Asphalt Pavement	None
310	Prime Coat	300, 316
314	Emulsified Asphalt Treatment	204, 300
315	Fog Seal	300, 316
316	Seal Coat	210, 300, 302, 341, 520
320	Equipment for Asphalt Concrete Pavement	210, 504, 520
330	Limestone Rock Asphalt Pavement	300, 320, 520, 585
334	Hot-Mix Cold-Laid Asphalt Concrete Pavement	204, 300, 301, 320, 520, 585
341	Dense-Graded Hot-Mix Asphalt	300, 301, 320, 504, 520, 585
342	Permeable Friction Course (PFC)	300, 301, 320, 504, 520, 585
344	Superpave Mixtures	300, 301, 320, 504, 520, 585
346	Stone-Matrix Asphalt	300, 301, 320, 504, 520, 585
347	Thin Overlay Mixtures (TOM)	300, 301, 320, 504, 520, 585
348	Thin Bonded Friction Courses	300, 301, 320, 504, 520, 585
350	Microsurfacing	300, 520
351	Flexible Pavement Structure Repair	132, 204, 247, 260, 275, 276, 292, 310, 316, 330, 334, 341, 344
354	Planing and Texturing Pavement	None
356	Fabric Underseal	300, 316, 520
358	Hot In-Place Recycling of Asphalt Concrete Surfaces	210, 300, 320, 341, 520, 585
360	Concrete Pavement	300, 421, 422, 431, 438, 440, 529, 585
361	Full-Depth Repair of Concrete Pavement	360, 421, 431, 440
400	Excavation and Backfill for Structures	110, 132, 401, 402, 403, 416, 420, 421, 423
401	Flowable Backfill	421
402	Trench Excavation Protection	None
403	Temporary Special Shoring	410, 411
404	Driving Piling	405, 423
405	Foundation Load Test	404, 416
406	Timber Piling	404, 492
407	Steel Piling	404, 405, 441, 446, 448
409	Prestressed Concrete Piling	404, 405, 420, 421, 424, 425, 440
410	Soil Nail Anchors	421, 431, 440
411	Rock Nail Anchors	421, 431, 440
416	Drilled Shaft Foundations	405, 420, 421, 423, 440, 448
419	Concrete Sound (Noise) Walls	110, 400, 416, 420, 421, 424, 427, 440, 441, 442, 445, 446, 449
420	Concrete Substructures	400, 404, 421, 422, 426, 427, 440, 441, 448
421	Hydraulic Cement Concrete	360, 361, 416, 462, 464, 465
422	Concrete Superstructures	420, 421, 424, 440, 448, 454, 780
423	Retaining Walls	110, 132, 216, 400, 416, 420, 421, 424, 440, 445, 458, 556
424	Precast Concrete Structural Members (Fabrication)	420, 421, 425, 426, 440, 441, 504

425	Precast Prestressed Concrete Structural Members	409, 420, 421, 424, 426, 427, 434, 440, 442, 445, 448, 504
426	Post-Tensioning	420, 422, 424
427	Surface Finishes for Concrete	420, 740
428	Penetrating Concrete Surface Treatment	427
429	Concrete Structure Repair	421, 431, 440, 780
431	Pneumatically Placed Concrete	420, 421, 429, 440
432	Riprap	247, 420, 421, 431, 440
434	Bridge Bearings	420, 441, 442, 445, 446, 449
438	Cleaning and Sealing Joints	454
439	Bridge Deck Overlays	421, 422, 429, 440, 483
440	Reinforcement for Concrete	445, 448
441	Steel Structures	420, 442, 445, 446, 447, 448, 450, 504, 610, 613, 614, 650, 654, 686
442	Metal for Structures	441, 445, 446, 447, 448
445	Galvanizing	None
446	Field Cleaning and Painting Steel	441, 445, 784
447	Structural Bolting	441, 442
448	Structural Field Welding	440, 441, 442, 445
449	Anchor Bolts	445
450	Railing	420, 421, 422, 424, 440, 441, 442, 445, 446, 448, 540
451	Retrofit Railing	421, 429, 440, 441, 442, 445, 450, 540
454	Bridge Expansion Joints	429, 442, 785
458	Waterproofing Membranes for Structures	None
459	Gabions and Gabion Mattresses	None
460	Corrugated Metal Pipe	400, 402, 403, 445, 467, 476
462	Concrete Box Culverts and Drains	400, 402, 403, 420, 421, 422, 424, 440, 464, 465, 467, 471, 476
464	Reinforced Concrete Pipe	400, 402, 403, 420, 421, 424, 440, 462, 465, 467, 471, 476
465	Junction Boxes, Manholes, and Inlets	400, 420, 421, 424, 440, 462, 464, 471, 476
466	Headwalls and Wingwalls	400, 420, 421, 432, 440, 464
467	Safety End Treatment	400, 420, 421, 432, 440, 442, 445, 460, 464
468	Thermoplastic Pipe Culverts and Drains	400, 401, 466, 467
471	Frames, Grates, Rings, and Covers	441, 445, 448, 465
472	Removing and Re-Laying Culvert	400, 402, 403, 460, 462, 464, 476
474	Linear Drains	400, 420, 421, 440, 445, 460, 471
476	Jacking, Boring, or Tunneling Pipe or Box	402, 403, 462, 464
479	Adjusting Manholes and Inlets	400, 421, 465, 471
480	Cleaning Existing Culverts	None
481	Pipe for Drains	400
483	Concrete Bridge Deck Surfacing	421
490	Timber Structures	445, 491, 492
491	Timber for Structures	406, 490, 492
492	Timber Preservative and Treatment	None
495	Raising Existing Structures	420, 429, 442, 448
496	Removing Structures	None
499	Adjusting Steel Shoes	429, 442, 448
500	Mobilization	None
502	Barricades, Signs, and Traffic Handling	503, 505, 510
503	Portable Changeable Message Sign	None
504	Field Office and Laboratory	None
505	Truck-Mounted Attenuator (TMA) and Trailer Attenuator (TA)	None

506	Temporary Erosion, Sedimentation, and Environmental Controls	161, 432, 556
508	Constructing Detours	None
510	One-Way Traffic Control	None
512	Portable Traffic Barrier	420, 421, 424, 440, 442, 445, 502, 514
514	Permanent Concrete Traffic Barrier	400, 416, 420, 421, 424, 440, 442, 445, 448, 512
520	Weighing and Measuring Equipment	None
527	Colored Textured Concrete	420, 421, 440
528	Landscape Pavers	132, 247, 275, 401, 421
529	Concrete Curb, Gutter, and Combined Curb and Gutter	360, 420, 421, 440
530	Intersections, Driveways, and Turnouts	247, 260, 275, 276, 292, 316, 330, 334, 360, 421, 440
531	Sidewalks	104, 360, 420, 421, 440, 530
533	Rumble Strips	300, 320, 330, 334, 341, 350
536	Concrete Medians And Directional Islands	420, 421, 427, 440, 529
538	Right Of Way Markers	420, 421, 440
540	Metal Beam Guard Fence	421, 441, 445, 492, 529
542	Removing Metal Beam Guard Fence	None
543	Cable Barrier System	421, 658
544	Guardrail End Treatments	None
545	Crash Cushion Attenuators	421, 502
550	Chain Link Fence	421, 445
552	Wire Fence	445, 492
556	Pipe Underdrains	402, 421, 432
560	Mailbox Assemblies	None
585	Ride Quality for Pavement Surfaces	None
610	Roadway Illumination Assemblies	416, 421, 432, 441, 442, 445, 449, 613, 614, 616, 618, 620, 624, 628, 650, 654, 686
613	High Mast Illumination Poles	416, 421, 432, 441, 442, 445, 449, 610, 614, 618, 624, 628, 650, 654, 686
614	High Mast Illumination Assemblies	441, 442, 445, 610, 613, 616, 620, 628, 650, 654, 686
616	Performance Testing of Lighting Systems	618, 620
617	Temporary Roadway Illumination	416, 610, 613, 614, 618, 620, 621, 624, 627, 628
618	Conduit	400, 445, 476
619	Intelligent Transportation System (ITS) Multi-Duct Conduit	400, 401, 402, 421, 445, 476, 618, 620
620	Electrical Conductors	610, 628
621	Tray Cable	620
623	Intelligent Transportation System (ITS) Ground Boxes	420, 421, 432, 440, 471, 618, 619, 620
624	Ground Boxes	420, 421, 432, 440, 618, 620
625	Zinc-Coated Steel Wire Strand	None
627	Treated Timber Poles	None
628	Electrical Services	441, 445, 449, 618, 620, 627, 656
636	Signs	None
644	Small Roadside Sign Assemblies	421, 440, 441, 442, 445, 636, 656
647	Large Roadside Sign Supports and Assemblies	416, 421, 440, 441, 442, 445, 636
650	Overhead Sign Supports	416, 420, 421, 441, 442, 445, 449, 610, 613, 614, 618, 636, 654, 686
654	Sign Walkways	441, 445, 610, 613, 614, 650, 686
656	Foundations for Traffic Control Devices	400, 416, 420, 421, 432, 440, 441, 442, 445, 447, 449, 618
658	Delineator and Object Marker Assemblies	445
662	Work Zone Pavement Markings	666, 668, 672, 677
666	Retroreflectorized Pavement Markings	316, 502, 667, 677, 678
667	Mobile Retroreflectivity Data Collection for Pavement Markings	666
668	Prefabricated Pavement Markings and Rumble Strips	678

672	Raised Pavement Markers	677, 678
677	Eliminating Existing Pavement Markings and Markers	300, 302, 315, 316
678	Pavement Surface Preparation for Markings	677
680	Highway Traffic Signals	416, 450, 531, 610, 618, 620, 621, 624, 625, 628, 636, 656, 682, 684, 685, 686, 687, 688
681	Temporary Traffic Signals	416, 610, 617, 618, 620, 621, 624, 625, 627, 628, 636, 656, 680, 682, 684, 686, 687, 688
682	Vehicle and Pedestrian Signal Heads	None
684	Traffic Signal Cables	625, 680, 690
685	Roadside Flashing Beacon Assemblies	441, 442, 445, 449, 618, 620, 621, 622, 624, 628, 636, 656, 680, 682, 684, 687
686	Traffic Signal Pole Assemblies	416, 421, 441, 442, 445, 449, 610, 613, 614, 650, 654
687	Pedestal Pole Assemblies	445, 449, 656, 682, 688
688	Pedestrian and Vehicle Detectors	618, 624, 682, 684
690	Maintenance of Traffic Signals and Illumination	104, 400, 416, 421, 431, 432, 440, 445, 449, 450, 476, 610, 613, 614, 616, 618, 620, 621, 624, 625, 627, 628, 636, 656, 680, 682, 684, 685, 686, 687, 688
700	Pothole Repair	300, 330, 334, 341, 520
712	Cleaning and Sealing Joints and Cracks (Asphalt Concrete)	300, 341, 721
713	Cleaning and Sealing Joints and Cracks (Concrete Pavement)	None
720	Repair of Spalling in Concrete Pavement	429, 431
721	Fiber Reinforced Polymer Patching Material	302
730	Roadside Mowing	None
731	Herbicide Treatment	None
734	Litter Removal	None
735	Debris Removal	734, 738
738	Cleaning and Sweeping Highways	None
740	Graffiti Removal and Anti-Graffiti Coating	427, 446
745	Picnic Area Maintenance	740
751	Landscape Maintenance	166, 168, 170, 193, 730, 734, 745
752	Tree and Brush Removal	None
760	Cleaning and Reshaping Ditches	None
764	Pump Station and Drainage System Cleaning	None
770	Guard Fence Repair	429, 441, 445, 448, 540, 542, 544
771	Repair Cable Barrier System	543
772	Post and Cable Fence	421, 492
774	Attenuator Repair	448
776	Metal Rail Repair	429, 441, 445, 446, 448, 450
777	Permanent Concrete Traffic Barrier Repair	427, 429, 514
778	Concrete Rail Repair	427, 429, 450, 776
780	Concrete Crack Repair	None
784	Steel Member Repair	421, 441, 442, 446, 448, 780
785	Bridge Joint Repair or Replacement	429, 438, 448, 449, 454
786	Carbon Fiber Reinforced Polymer (CFRP)	429, 786
787	Replacing Elastomeric Bearing Pads	420, 429, 434, 442, 495
788	Concrete Beam Repair	424, 429, 441, 780, 786
790	Lane Closures	502, 503, 505