

Computations of Quantities

Section	Section Title	Pay Item	Unit	Comps	Minimum Measure to Nearest	Minimum Compute to Nearest	Minimum Pay to Nearest
DIVISION 100							
07-01007	Highway Construction Trainees	Highway Construction Trainees (Set Price)	Hours		Hour		Hour
DIVISION 200							
201	Clearing & Grubbing	Clearing & Grubbing	Lump Sum		Lump Sum		Lump Sum
202	Removal of Existing Structures	Removal of Existing Structures	Lump Sum		Lump Sum		Lump Sum
		Removal and Reconstruction of Existing Structures	Lump Sum		Lump Sum		Lump Sum
203	Resetting Existing Culverts	Resetting End Section	Each		Each		Each
		Resetting Pipe Culvert	LNFT		LNFT		LNFT
204	Excavation & Backfill for Structures	Class * Excavation	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Concrete (Grade**) (***)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Concrete for Seal Course (Set Price)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Foundation Stabilization	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Foundation Stabilization (Set Price)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Granular Backfill	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Granular Backfill (Wingwalls) (Set Price)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Water (Grading)(Set Price)	MGAL		0.1 MGAL		MGAL
205	Excavation & Embankment for Highways	Common Excavation	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Common Excavation (Contractor-Furnished)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Rock Excavation	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Rock Excavation (Non-Durable Shale)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Unclassified Excavation	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Common Excavation (Unstable)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Common Excavation (Unsuitable)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Compaction of Earthwork (Type *) (MR-**)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Embankment	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Embankment (Contractor-Furnished)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Eradication of Traveled Way	STA		0.1 STA		0.1 STA
		Water (Grading) (Set Price)	MGAL		0.1 MGAL		MGAL
206	Select Soil	Select Soil	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Select Soil (Contractor-Furnished)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
207	Overhaul	Overhaul	CUYD/STA	X	0.1 FT/0.1 STA	0.1 CUYD/0.1 STA	CUYD/STA
208	Linear Grading	Linear Grading (*) (**)	STA		0.1 STA		0.1 STA
		Water (Grading) (Set Price)	MGAL		0.1 MGAL		MGAL
07-02002	Salvaging, Stockpiling and Placing Topsoil	Salvaged Topsoil	SQYD	X	0.1 FT	0.1 SQYD	SQYD

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Section	Section Title	Pay Item	Unit	Comps	Minimum Measure to Nearest	Minimum Compute to Nearest	Minimum Pay to Nearest
DIVISION 300							
301	Subgrade Modification	Manipulation for Aggregate Subgrade Modification (*) (**)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Manipulation for In-Place Material Subgrade Modification (**)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Aggregate for Subgrade Modification (*)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Calcium Chloride	Ton			20 LBS or 0.01 Ton^	TON
		Cement	Ton			20 LBS or 0.01 Ton^	TON
		Fly Ash	Ton			20 LBS or 0.01 Ton^	TON
		Water (Subgrade Modification) (Set Price)	MGAL			0.1 MGAL	MGAL
		302	Lime Treated Subgrade	Lime	Ton		20 LBS or 0.01 Ton^
		Manipulation (Lime Treated Subgrade)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Water (Lime Treated Subgrade) (Set Price)	MGAL			0.1 MGAL	MGAL
303	Cement or Fly Ash Treated Subgrade	Cement	Ton			20 LBS or 0.01 Ton^	TON
		Fly Ash	Ton			20 LBS or 0.01 Ton^	TON
		Manipulation for Treated Subgrade (*)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Water (Treated Subgrade) (Set Price)	MGAL			0.1 MGAL	MGAL
304	Crushed Stone Subgrade	Crushed Stone Subgrade (*)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Water (Crushed Stone Subgrade) (Set Price)	MGAL			0.1 MGAL	MGAL
305	Aggregate Base and Aggregate Shoulders	Aggregate Base (*) (**)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Aggregate Shoulder (*) (**)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Calcium Chloride	Ton			20 LBS or 0.01 Ton^	TON
		Water (Aggregate Base) (Set Price)	MGAL			0.1 MGAL	MGAL
		Water (Aggregate Shoulders) (Set Price)	MGAL			0.1 MGAL	MGAL
306	Cement Treated Base	Cement Treated Base	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Quality Control Testing (CTB)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
307	Granular Base	Granular Base (*)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Water (Granular Base) (Set Price)	MGAL			0.1 MGAL	MGAL
DIVISION 500							
501	Portland Cement Concrete Pavement (QC/QA)	Concrete Pavement (*Uniform) (AE) (**)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Concrete Pavement (*Variable) (AE) (**)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Early Strength Concrete Pavement (*Uniform) (AE) (**)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Early Strength Concrete Pavement (*Variable) (AE) (**)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Quality Control Testing (PCCP)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Concrete Core (Set Price)	Each			Each	Each

Computations of Quantities

Section	Section Title	Pay Item	Unit	Comps	Minimum Measure to Nearest	Minimum Compute to Nearest	Minimum Pay to Nearest
502	Portland Cement Concrete Pavement (NON-QC/QA)	Concrete Pavement (*Uniform) (AE) (**)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Concrete Pavement (*Variable) (AE) (**)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Early Strength Concrete Pavement (*Uniform) (AE) (**)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Early Strength Concrete Pavement (*Variable) (AE) (**)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
503	Portland Cement Concrete Pavement Smoothness	Concrete Pavement Smoothness	Lump Sum	X	\$0.01		\$0.01
07-05004	Portland Cement Concrete Pavement Bonded Inlay or Overlay Over Hot Mix Asphalt (HMA)	Milling	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Concrete Placement	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Bonded Concrete Pavement (*Uniform)(AE)(**)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
Future	Portland Cement Concrete Pavement Bonded Inlay or Overlay Over Portland Cement Concrete Pavement (PCCP)	Milling	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Surface Preparation	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Concrete Placement	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Bonded Concrete Pavement (*Uniform)(AE)(**)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Saw Cuts	LNFT		0.1 LNFT		0.1 LNFT
DIVISION 600							
602	Hot Mix Asphalt (HMA) Construction (QC/QA)	HMA Base (*) (**) (***)	Ton		20 LBS or 0.01 Ton^		Ton
		HMA Surface (*) (**) (***)	Ton		20 LBS or 0.01 Ton^		Ton
		HMA Overlay (*) (**) (***)	Ton		20 LBS or 0.01 Ton^		Ton
		HMA Pavement (#) (##)	SQYD	X	1/4 inch	0.1 SQYD	SQYD
		HMA Pavement (#) Shoulder	SQYD	X	1/4 inch	0.1 SQYD	SQYD
		Emulsified Asphalt (****)	Ton		10 Gallons	.1 Ton	Ton
		Asphalt Core (Set Price)	Each		Each		Each
		Material for HMA Patching (Set Price)	Ton		20 LBS or 0.01 Ton^		Ton
		Quality Control Testing (HMA)	Ton		20 LBS or 0.01 Ton^		Ton
603	Asphalt Pavement Smoothness	Asphalt Pavement Smoothness	Lump Sum	X	\$0.01		\$0.01
604	Cold Recycle Asphalt Construction (CIR)	Cold Recycled Asphalt Material	STA		0.1 STA		0.1 STA
		Lime (Hydrated) (Slurry)	Ton		20 LBS or 0.01 Ton^		TON
		Emulsified Asphalt (CSS) (Special)	Ton		10 Gallons	.1 Ton	Ton
		Emulsified Asphalt (CSS-1H or SS-1H) Cure (Set Price)	Ton		10 Gallons	.1 Ton	Ton
		Blotter Sand (Set Price)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
605	Surface Recycled Asphalt Construction	Surface Recycling (*)	STA		0.1 STA		0.1 STA
		Asphalt Rejuvenating Agent	Ton		100 LBS		Ton
606	Microsurfacing	Aggregate for Microsurfacing	Ton		20 LBS or 0.01 Ton^		Ton
		Emulsified Asphalt (*) (Modified)	Ton		10 Gallons	.1 Ton	Ton
		Mineral Filler	Ton		.01 Ton or nearest		Ton

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Section	Section Title	Pay Item	Unit	Comps	Minimum Measure to Nearest	Minimum Compute to Nearest	Minimum Pay to Nearest
607	Asphalt Prime Coat	Emulsified Asphalt (*)	Ton		10 Gallons	.1 Ton	Ton
		Cutback Asphalt (*)	Ton		10 Gallons	.1 Ton	Ton
608	Asphalt Sealing	Cover Material (*)	CUYD	X	0.25 CU YD		CUYD
609	Single Asphalt Surface Treatment	Cutback Asphalt (*)	Ton		10 Gallons	.1 Ton	Ton
		Emulsified Asphalt (*)	Ton		10 Gallons	.1 Ton	Ton
610	Double Asphalt Surface Treatment	Asphalt Cement (*)	Ton		10 Gallons	.1 Ton	Ton
		Water (Flexible Pavement) (Set Price)	MGAL		0.1 MGAL		MGAL
		Manipulation (Asphalt Seal)	STA		0.1 STA		0.1 STA
		Manipulation (*.A.S.T.)	STA		0.1 STA		0.1 STA
611	Hot Mix Asphalt (HMA) - Commercial Grade	HMA - Commercial Grade (Class *)	Ton		20 LBS or 0.01 Ton^		Ton
		HMA - Commercial Grade (Class *) (Patching)	Ton		20 LBS or 0.01 Ton^		Ton
612	Milling	Milling	SQYD	X	0.1 FT	0.1 SQYD	SQYD
			Ton		20 LBS or 0.01 Ton^		Ton
613	Ultrathin Bonded Asphalt Surface	HMA Surface (Ultrathin Bonded) (*) (**)	Ton		20 LBS or 0.01 Ton^		Ton
614	Plant Mix Asphalt Construction	Aggregate for Asphalt Surface Course (*)	Ton		20 LBS or 0.01 Ton^		Ton
07-06001	(BM-Mixes)	Aggregate for Asphalt Base Course (*)	Ton		20 LBS or 0.01 Ton^		Ton
		Aggregate for Asphalt Surface Course (*) (Shoulders)	Ton		20 LBS or 0.01 Ton^		Ton
		Aggregate for Asphalt Base Course (*) (Shoulders)	Ton		20 LBS or 0.01 Ton^		Ton
		Asphalt Cement (**)	Ton		10 Gallons	.1 Ton	Ton
		Cutback Asphalt (**)	Ton		10 Gallons	.1 Ton	Ton
		Asphalt Core (Set Price)	Each		Each		Each
		Material for Asphalt Patching (Set Price) (***)	Ton		20 LBS or 0.01 Ton^		Ton
07-06002	Plant Mix Asphalt Construction - Commercial Grade (BM-Mixes)	Plant Mix Asphalt Mixture - Commercial Grade	Ton		20 LBS or 0.01 Ton^		Ton
		Plant Mix Asphalt Mixture - Commercial Grade (Patching)	Ton		20 LBS or 0.01 Ton^		Ton
07-06004	Asphalt Pavement - UGWC/KC/Kansas	Plant Mix Asphalt Mixture - Wyandotte County (*)	Ton		20 LBS or 0.01 Ton^		Ton
07-06010	HMA Base (Reflective Crack Interlayer (RCI))	HMA Base (RCI) (*)	Ton		20 LBS or 0.01 Ton^		Ton
		Quality Control Testing (HMA)	Ton		20 LBS or 0.01 Ton^		Ton
DIVISION 700							
701	Temporary Shoring	Temporary Shoring	Lump Sum		Lump Sum		Lump Sum
702	Corrugated Metal Sheet Piling	* Corrugated Metal Sheet Piling	LNFT		0.1 LNFT		LNFT
703	Drilled Shafts	Drilled Shaft (*) (**)	LNFT		0.1 LNFT		LNFT
		Permanent Casing (*) (Set Price)	LNFT		0.1 LNFT		LNFT
		Sonic Test (Drilled Shaft) (Set Price)	Each		Each		Each
		Core Hole (Investigative)	LNFT		0.1 LNFT		LNFT

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Section	Section Title	Pay Item	Unit	Comps	Minimum Measure to Nearest	Minimum Compute to Nearest	Minimum Pay to Nearest
704	Piling	Piles (*) (**)	LNFT		0.1 LNFT		0.1 LNFT
		Test Piles (*) (**)	LNFT		0.1 LNFT		0.1 LNFT
		Test Piles (Special) (*) (**)	LNFT		0.1 LNFT		0.1 LNFT
		Cast Steel Pile Points	Each		Each		Each
		Pre-Drilled Pile Holes	LNFT		0.1 LNFT		0.1 LNFT
706	Bearings and Pads for Structures	Elastomeric Bearing Pad (**)	Each		Each		Each
		Bearing (*) (**)	Each		Each		Each
707	Finger Plate and Modular Expansion Devise	Expansion Device (Finger Plate)	LNFT		0.1 LNFT		LNFT
		Expansion Device (Modular)	LNFT		0.1 LNFT		LNFT
708	Falsework and Form Construction	Falsework Inspection	Lump Sum		Lump Sum		Lump Sum
710	Concrete Structure Construction	Concrete (*) (**) (***)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
711	Reinforcing Steel	Reinforcing Steel (*) (**)	LBS	X	0.1 FT	1 LB	10 LBS
		Reinforcing Steel (Repair) (*) (**) (Set Price)	LBS	X	0.1 FT	1 LB	10 LBS
712	Structural Steel Construction	Structural Steel (*) (**) (***)	LBS		LB		LB
		Structural Steel (Merchant Quality)	LBS		LB		LB
		Welded Stud Shear Connectors	Each		Each		Each
		Bridge Drainage System	Lump Sum		Lump Sum		Lump Sum
			LNFT		0.1 LNFT		LNFT
			Each		Each		Each
714	Painting Structural Steel	Bridge Painting (*)	Lump Sum		Lump Sum		Lump Sum
		Environmental Protection	Lump Sum		Lump Sum		Lump Sum
		Power Wash	Lump Sum		Lump Sum		Lump Sum
715	Prestressed Concrete Members	Prestressed Concrete Beams (*) (**)	LNFT		0.1 LNFT		LNFT
		Prestressed Concrete Panels	SQFT	X	0.1 FT	0.1 SQFT	SQFT
716	Post - Tensioning (Haunched Slab Bridges)	Post - Tensioning for Slab Bridge	LBS	X	LB		LB
717	Silica Fume Overlay	Silica Fume Overlay (*) (**)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Material for Silica Fume Overlay (Set Price)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
719	Expansion Joint (Strip Seal Assembly)Preformed Elastomeric (Neoprene & Compression & Other)	Expansion Joint (*)	LNFT		0.1 LNFT		LNFT
721	Handrail for Bridges & Other Uses	Bridge Handrail (*) (**)	LNFT		0.1 LNFT		LNFT
		Handrail (*) (**)	LNFT		0.1 LNFT		LNFT
722	Sign Structures & Bridge Mounted Sign Attachments	Bridge Mounted Sign Attachment (*) (**)	Each		Each		Each
		Butterfly Overhead Sign Structure (*) (**)	Each		Each		Each
		Cantilever Sign Structure (*) (**)	Each		Each		Each
		Overhead Sign Structure (*) (**)	Each		Each		Each
		Overhead Sign Structure (Mast Arm Type) (*) (**)	Each		Each		Each

Computations of Quantities

Section	Section Title	Pay Item	Unit	Comps	Minimum Measure to Nearest	Minimum Compute to Nearest	Minimum Pay to Nearest
722	Sign Structures & Bridge Mounted Sign Attachments (cont.)	Overhead Sign Structure (Single Tapered Tube)(*)(**)	Each		Each		Each
		Remove and Reset Sign Structure (***)	Each		Each		Each
		Reset Sign Structure (***)	Each		Each		Each
		Sign Structural Modification (***)	Each		Each		Each
723	Substructure Waterproofing Membrane	Substructure Waterproofing Membrane	SQYD	X	0.1 FT	0.1 SQYD	SQYD
724	Bridge Backwall Protection System	Bridge Backwall Protection System	SQYD	X	0.1 FT	0.1 SQYD	SQYD
725	Abutment Drainage Systems	Abutment Strip Drain	SQYD	X	0.1 FT	0.1 SQYD	SQYD
726	Concrete Masonry Coating	Concrete Masonry Coating	SQYD	X	0.1 FT	0.1 SQYD	SQYD
727	Repair (Structure)	Bridge Repair	Lump Sum		Lump Sum		Lump Sum
		Jacking of Existing Structure	Lump Sum		Lump Sum		Lump Sum
		Raise Expansion Device	Each		Each		Each
		Remove and Reset Expansion Device	Each		Each		Each
		Reset Existing Bearing	Each		Each		Each
728	Bridge Curb Repair	Bridge Curb Repair	LNFT		0.1 LNFT		LNFT
729	Multi-Layer Polymer Concrete Overlay	Multi-Layer Polymer Concrete Overlay	SQYD	X	0.1 FT	0.1 SQYD	SQYD
730	Epoxy Resin Crack Repair	Epoxy Resin Crack Repair	LNFT		0.1 LNFT		LNFT
731	Area Prepared for Patching (Existing Concrete Bridge Decks)	Area Prepared for Patching	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Area Prepared for Patching (Full Depth)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Area Prepared for Patching (Poured with Overlay)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Reinforcing Steel (Repair) (*) (**) (Set Price)	LBS	X	0.1 FT	1 LB	10 LBS
732	Machine Preparation (Existing Concrete Bridge Decks)	Machine Preparation (*)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
733	Hydrodemolition	Hydrodemolition	SQYD	X	0.1 FT	0.1 SQYD	SQYD
734	Structural Plate Structures	(*) Structural Plate Pipe (**) (***)	LNFT		0.1 LNFT		LNFT
		(*) Structural Plate Pipe Arch (**) (***)	LNFT		0.1 LNFT		LNFT
		(*) Structural Plate Arch (**) (***)	LNFT		0.1 LNFT		LNFT
735	Precast Reinforced Concrete Box	Reinforced Concrete Box (*) (Precast)	LNFT		0.1 LNFT		LNFT
07-07001	Bridge Project Marker	Bridge Project Marker	Each		Each		Each
07-07003	Heat Straightening (In-Place) of Damaged Structural Steel	Heat Straightening Repair	LNFT		0.1 LNFT		LNFT
07-07012	Expansion Joint (Membrane Sealant)	Expansion Joint (Membrane Sealant *)	LNFT		0.1 LNFT		LNFT
07-07018	Rolled Beam Detour Bridge	Erect and Remove Rolled Beam Detour Bridge	Lump Sum		Lump Sum		Lump Sum
		Furnish Rolled Beam Detour Bridge	Lump Sum		Lump Sum		Lump Sum

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DIVISION 800							
801	Mobilization	Mobilization	Lump Sum		Lump Sum		Lump Sum
		Mobilization (DBE)	Lump Sum		Lump Sum		Lump Sum
802	Contractor Construction Staking	Contractor Construction Staking	Lump Sum		Lump Sum		Lump Sum
		Right-of-Way Survey Monument	Each		Each		Each
		Benchmark Monument (Concrete Cylinder)	Each		Each		Each
		Monument Box	Each		Each		Each
803	Field Office and Laboratory	Field Office	Each		Each		Each
		Field Office & Laboratory (*)	Each		Each		Each
804	Maintenance and Restoration of	Maintenance and Restoration of Haul Roads					
07-08031	Haul Roads	(Set Price)	Lump Sum		Lump Sum		Lump Sum
805	Work Zone Traffic Control & Safety	Work Zone Signs (0 to 9.25 SQFT)	EADA		EADA		EADA
		Work Zone Signs (9.26 to 16.25 SQFT)	EADA		EADA		EADA
		Work Zone Signs (16.26 SQFT and over)	EADA		EADA		EADA
		Work Zone Signs (Special) (**)	Each		Each		Each
		Work Zone Barricades (Type III - 4 to 12 LNFT)	EADA		EADA		EADA
		Arrow Display	EADA		EADA		EADA
		Portable Changeable Message Sign	EADA		EADA		EADA
		Channelizer (Fixed)	EADA		EADA		EADA
		Channelizer (Portable)	EADA		EADA		EADA
		Work Zone Warning Light (Type "A" Low Intensity)	EADA		EADA		EADA
		Work Zone Warning Light (Red Type "B" Low Intensity)	EADA		EADA		EADA
		Pavement Marking (Temporary) 4" Broken (8.2 ft) (*Tape)	STAL		0.01 STAL		0.1 STAL
		Pavement Marking (Temporary) 4" Solid (*Tape)	STAL		0.01 STAL		0.1 STAL
		Pavement Marking (Temporary) 4" Broken (3.3 ft) (*Tape)	STAL		0.01 STAL		0.1 STAL
		Pavement Marking (Temporary) 4" Broken (Raised Pavement Marker)	STAL		0.01 STAL		0.1 STAL
		Pavement Marking (Temporary) 4" Dotted Extension (*Tape)	STAL		0.01 STAL		0.1 STAL
		Pavement Marking (Temporary) Broken (Line Masking Tape)	STAL		0.01 STAL		0.1 STAL
		Pavement Marking (Temporary) Solid (Line Masking Tape)	STAL		0.01 STAL		0.1 STAL
		Flagger (Set Price)	Hour		Hour		Hour
		Traffic Signal Installation (Temporary)	Lump Sum		Lump Sum		Lump Sum

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805	Work Zone Traffic Control & Safety (cont.)	Temporary Raised Pavement Marker (*)	Each		Each		Each
		Traffic Control	Lump Sum		Lump Sum		Lump Sum
		Traffic Control (Initial Set Up)	Lump Sum		Lump Sum		Lump Sum
07-08030		Barricade (Type III) (Fixed)	Each		Each		Each
806	Durable Pavement Marking	Pavement Marking (*) (**) (***) (****) (*****)	LNFT		0.1 FT		LNFT
07-08024		Pavement Marking (Plowable Raised Pavement Marker) (**)	Each		Each		Each
		Pavement Marking Symbol (*) (**) (****) (*****)	Each		Each		Each
807	Painted Pavement Marking	Pavement Marking (Paint) (*) (**)	LNFT		0.1 FT		LNFT
		Pavement Marking Symbol (Paint) (*) (***)	Each		Each		Each
808	Removal of Existing Pavement	Pavement Marking Removal	LNFT		0.1 FT		LNFT
07-08025	Marking	Pavement Marking Removal (Plowable Raised Marker)	Each		Each		Each
809	Concrete Safety Barrier	Concrete Safety Barrier (*)	LNFT		0.1 FT		LNFT
		Concrete Safety Barrier (*) (Temporary)	LNFT		0.1 FT		LNFT
		Concrete Safety Barrier (*) (Temporary - Installation Only)	LNFT		0.1 FT		LNFT
		Concrete Safety Barrier (*) (Temporary - Relocate)	LNFT		0.1 FT		LNFT
810	Inertial Barrier System	Inertial Barrier System	Each		Each		Each
		Replacement Modules (*)	Each		Each		Each
811	Impact Attenuator	Impact Attenuator (*)	Each		Each		Each
		Impact Attenuator (Temporary)	Each		Each		Each
07-08034		Replacement Module	Each		Each		Each
812	Permanent Signing	Sign (*1) (High Performance)	SQFT	X	0.01 FT	0.01 SQFT	0.01 SQFT
		Sign Post (4" x 6" Wood) (*2)	LNFT		0.1 FT		LNFT
		Sign Post (*3 Steel Beam)	LNFT		0.1 FT		LNFT
		Sign Post (*4 U Steel)	LNFT		0.1 FT		LNFT
		Sign Post (*5 Perforated Square Steel Tube)	LNFT		0.1 FT		LNFT
		Sign Post (4" x 6" Structural Steel)	LNFT		0.1 FT		LNFT
		Sign Post (3 I 2.25 Aluminum)	LNFT		0.1 FT		LNFT
		Sign Post Stub and Breakaway Base Plate (*3)	Each		Each		Each
		Sign Post Breakaway Base Plate (*3)	Each		Each		Each
		Sign Post Footing (*6 Concrete)	LNFT		0.1 FT		LNFT
		Sign Post Footing (*5 Perforated Square Steel Tube)	Each		Each		Each
		Signing Object Marker (*7)	Each		Each		Each
		Signing Delineator (*8) (*9 Rigid, "U" Post)	Each		Each		Each

Computations of Quantities

Section	Section Title	Pay Item	Unit	Comps	Minimum Measure to Nearest	Minimum Compute to Nearest	Minimum Pay to Nearest
812	Permanent Signing (cont.)	Signing Delineator (*8) (*9 Flexible) (*10 Anchor)	Each		Each		Each
		Signing Delineator (*8) (*9 Bracket)	Each		Each		Each
		Sign (Remove and Reset)	Lump Sum		Lump Sum		Lump Sum
07-08022		Sign Post Square Coupler (*)	Each		Each		Each
		Sign Post Footing (Sign Post Square Coupler) (*)	Each		Each		Each
813	Rumble Strips (Milled) and	Rumble Strips (Milled) (*)	STA		0.1 STA		0.1 STA
07-08029	Rumble Strips (Milled) (Centerline)	Rumble Strips (Milled) (*) (Centerline)	STA		0.1 STA		0.1 STA
		Rumble Strips (Milled) (*) (Edgeline)	STA		0.1 STA		0.1 STA
814	Electrical Lighting Systems and Traffic Signals	Electric Lighting System	Lump Sum		Lump Sum		Lump Sum
		Electric Conduit (*) (**)	LNFT		0.1 LNFT		LNFT
		Electric Service Box	Each		Each		Each
		Traffic Signal	Lump Sum		Lump Sum		Lump Sum
		Traffic Signal Interconnect	Lump Sum		Lump Sum		Lump Sum
		Emergency Vehicle System	Lump Sum		Lump Sum		Lump Sum
815	Catch Basins, Inlets, Outlets, Manholes, Junction Boxes & Other Existing Structures	Catch Basin *	Each		Each		Each
		Inlet *	Each		Each		Each
		Outlet *	Each		Each		Each
		Manhole *	Each		Each		Each
		Junction Box	Each		Each		Each
816	Adjustment of Inlets, Manholes & Other Existing Structures	Adjustment of Catch Basins	Each		Each		Each
		Adjustment of Curb Inlets	Each		Each		Each
		Adjustment of Manholes	Each		Each		Each
		Structural Steel	LBS		LB		LB
		Cast Steel	LBS		LB		LB
		Cast Iron	LBS		LB		LB
817	Pipe Culverts, Erosion Pipe, Storm Sewers, Sanitary Sewers & End Sections	Entrance Pipe (*) (**) (+) (++) (^) (^^)	LNFT		0.1 FT		LNFT
07-08023		Cross Road Pipe (*) (**) (+) (++) (^) (^^)	LNFT		0.1 FT		LNFT
		Erosion Pipe (*) (**) (+) (++) (^) (^^)	LNFT		0.1 FT		LNFT
		Liner Pipe (*) (**)	LNFT		0.1 FT		LNFT
		Storm Sewer (*) (**) (^) (^^)	LNFT		0.1 FT		LNFT
		Sanitary Sewer (*) (**)	LNFT		0.1 FT		LNFT
		End Section (*) (**) (+) (++)	Each		Each		Each
		Concrete Headwall	Each		Each		Each
		Fly Ash Slurry Grout (xx)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
818	Encasement Pipe	Encasement Pipe (*) (**) (***)	LNFT		0.1 FT		LNFT
819	Bored, Jacked or Tunneled Pipe	* (Bored, Jacked or Tunneled)	LNFT		0.1 FT		LNFT
820	Flume Inlets & Slope Drains	Flume Inlet (*)	Each		Each		Each
		Slope Drain (*)	LNFT		0.1 FT		LNFT
		Slope Drain (Special)	LNFT		0.1 FT		LNFT

Computations of Quantities

Section	Section Title	Pay Item	Unit	Comps	Minimum Measure to Nearest	Minimum Compute to Nearest	Minimum Pay to Nearest
821	Flapgates	(*) Flapgates	Each		Each		Each
822	Underdrains	* Pipe Underdrains (Type **)	LNFT		0.1 FT		LNFT
		Aggregate for Blanket Underdrains	Ton		20 LBS or 0.01 Ton*		Ton
			CUYD	X	0.1 FT	0.1 CUYD	CUYD
823	Prefabricated Interception Devices & Slotted Drains	Prefabricated Interception Device (*)	Each		Each		Each
		Slotted Drain (**)	LNFT		0.1 FT		LNFT
824	Concrete Sidewalk, Steps and Ramps	Sidewalk Construction (*) (**)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Sidewalk Ramp	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Grade 3.0 Concrete (Misc.)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Reinforcing Steel	LBS	X	0.1 FT	1 LB	10 LBS
825	Curb & Gutter	Curb, Edge (*) (**)	LNFT		0.1 FT		LNFT
		Curb, Header (**)	LNFT		0.1 FT		LNFT
		Curb & Gutter, Combined (**)	LNFT		0.1 FT		LNFT
		Gutters (**)	LNFT		0.1 FT		LNFT
		Curb, Protection (*) (**)	LNFT		0.1 FT		LNFT
		Curb, Asphaltic Concrete	LNFT		0.1 FT		LNFT
		Gutters, Asphaltic Concrete	LNFT		0.1 FT		LNFT
		Curb & Gutters, Asphaltic Concrete	LNFT		0.1 FT		LNFT
		Curb Repair	LNFT		0.1 FT		LNFT
826	Shot - Crete Concrete	Shot - Crete	*				
07-08019	Concrete Surface Repair	Concrete Surface Repair	SQFT	X	0.1 FT	0.1 SQFT	SQFT
827	Guardrail & Guideposts	Guardrail, Steel Plate	LNFT		0.1 FT		LNFT
		Guardrail, Cable	LNFT		0.1 FT		LNFT
		Guardrail, Removal of Steel Plate	LNFT		0.1 FT		LNFT
		Guardrail, Removal of Cable	LNFT		0.1 FT		LNFT
		Guardrail, Removal of Timber	LNFT		0.1 FT		LNFT
		Guardrail, Reconstruction of Steel Plate	LNFT		0.1 FT		LNFT
		Guardrail, Reconstruction of Cable	LNFT		0.1 FT		LNFT
		Guardrail, Removal & Reconstruction of Steel Plate	LNFT		0.1 FT		LNFT
		Guardrail, Removal & Reconstruction of Cable	LNFT		0.1 FT		LNFT
		Guideposts	Each		Each		Each
		Guideposts, Removal of	Each		Each		Each
		Guideposts, Resetting of	Each		Each		Each
		Guideposts, Removal & Resetting of	Each		Each		Each
		Guardrail Posts	Each		Each		Each
		Guardrail End Terminals (*)	Each		Each		Each
828	Fencing	Fence (*) (**) (***)	LNFT		0.1 FT		LNFT
		Fence (*) (Temporary)	LNFT		0.1 FT		LNFT
		Fence (*) (Removal & Resetting)	LNFT		0.1 FT		LNFT

Computations of Quantities

Section	Section Title	Pay Item	Unit	Comps	Minimum Measure to Nearest	Minimum Compute to Nearest	Minimum Pay to Nearest
828	Fencing (Cont.)	Fence (*) (Removal of Existing)	LNFT		0.1 FT		LNFT
		Gate (*) (**)	Each		Each		Each
		Posts (Corner) (*)	Each		Each		Each
		Posts (End) (*)	Each		Each		Each
		Posts (Pull) (*)	Each		Each		Each
		Floodgates	Each		Each		Each
829	Riprap	Riprap (*) (**)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
830	Slope Protection	Bedding for Slope Protection	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Slope Protection (*) (**) (***)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Slope Protection (Gabion)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Slope Protection (Special)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Geotextile Fabric	SQYD	X	0.1 FT	0.1 SQYD	SQYD
831	Ditch Lining	Aggregate Ditch Lining (*)	Ton		20 LBS or 0.01 Ton^		Ton
		Aggregate Backslope Ditch Lining	Ton		20 LBS or 0.01 Ton^		Ton
		Concrete Ditch Lining	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Concrete Backslope Ditch Lining	SQYD	X	0.1 FT	0.1 SQYD	SQYD
832	Gabions	Gabions	CUYD	X	0.1 FT	0.1 CUYD	CUYD
			SQYD	X	0.1 FT	0.1 SQYD	SQYD
833	Pavement Patching	Asphalt Pavement Patching	Ton		100 LBS		Ton
		PCCP Patching (*) (**) (***)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		PCCP Edge Joint Patching (***)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		PCCP Joint Patching (Full Depth)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		PCCP Joint & Crack Patching (***)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Extra Work Saw Cuts (Set Price)	LNFT		0.1 FT		LNFT
834	Undersealing	Fly Ash (Undersealing)	Ton		20 LBS or 0.01 Ton^		TON
		Injection Holes	Each		Each		Each
835	Resealing Joints & Sealing Cracks in Existing PCCP & HMA Pavements	Sealing PCCP Joints (Longitudinal)	LNFT		0.1 FT		LNFT
		Sealing PCCP Joints (Transverse)	LNFT		0.1 FT		LNFT
		Sealing PCCP Cracks (>1/8"<2")	LNFT		0.1 FT		LNFT
		Sealing Spalled PCCP Joints & Cracks (>2"≤3")	LNFT		0.1 FT		LNFT
		Sealing Spalled PCCP Joints & Cracks, Type A or B (>2"≤3")	LNFT		0.1 FT		LNFT
		Sealing Asphalt Cracks (>1/8"≤1/2")	LNFT		0.1 FT		LNFT
		Sealing Asphalt Cracks (>1/2"<1/2")	LNFT		0.1 FT		LNFT
		Sealing Longitudinal Asphalt Shoulder Joint	LNFT		0.1 FT		LNFT
836	Surfacing for Side Roads & Entrances	Surfacing Material (*)	Ton		20 LBS or 0.01 Ton^		Ton

Computations of Quantities

Section	Section Title	Pay Item	Unit	Comps	Minimum Measure to Nearest	Minimum Compute to Nearest	Minimum Pay to Nearest
837	Pavement Widening, Shouldering	Shoulders (Earth) (HMA Widening)	STA		0.1 STA		0.1 STA
07-08033	& Pavement Edge Wedge	Shoulders (Aggregate) (HMA Widening)	STA		0.1 STA		0.1 STA
		Pavement Edge Wedge (Earth)	STA		0.1 STA		0.1 STA
		Pavement Edge Wedge (Rock)	Ton		20 LBS or 0.01 Ton^		Ton
		Aggregate for Shoulders (AS-1)	Ton		20 LBS or 0.01 Ton^		Ton
		Common Excavation (Contractor-Furnished)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Water for Earthwork Compaction (Set Price)	MGAL		0.1 MGAL		MGAL
838	Grinding Rehab Concrete						
07-08032	Pavement	Grinding Concrete Surface	SQYD	X	0.1 FT	0.1 SQYD	SQYD
839	Rubblizing Portland Cement	Crushed Stone for Backfill	CUYD	X	0.1 FT	0.1 CUYD	CUYD
	Concrete Pavement	Removal of Asphaltic Material	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Rubblized Concrete	SQYD	X	0.1 FT	0.1 SQYD	SQYD
840	Temporary Surfacing	Temporary Surfacing Material (Aggregate) (Set Price)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Temporary Surfacing Material (HMA) (Set Price)	Ton		20 LBS or 0.01 Ton^		Ton
841	Light Type Surfacing	Light Type Surfacing (*)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
842	Drilling & Grouting	Drilling & Grouting	Each		Each		Each
		Drilling & Grouting (Repair) (Set Price)	Each		Each		Each
843	Flowable Fill	Flowable Fill (*)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
844	Slurry Grout	Slurry Grout (*)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
845	Cleaning Existing Structures & Underdrains	Cleaning Existing Structures	Lump Sum		Lump Sum		Lump Sum
		Cleaning Existing Underdrains	LNFT		0.1 FT		LNFT
846	Transporting Salvageable Material	Transporting Salvageable Material	*				
			Ton		20 LBS or 0.01 Ton^		Ton
			Lump Sum		Lump Sum		Lump Sum
847	Mailbox Installation	Mailbox Installation (Set Price)	Each		Each		Each
07-08003	Dowel Bar Retrofit (Existing Portland Cement Concrete Pavement)	Dowel Bar Retrofit (*)	Each		Each		Each
07-08004	Bridge Approach Slab Footing	Bridge Approach Slab Footing	CUYD	X	0.1 FT	0.1 CUYD	CUYD
07-08005	Retaining Wall System	Retaining Wall (*)	SQFT	X	0.1 FT	0.1 SQFT	SQFT
07-08006	Tie Bar Insertion	Tie Bar Insertion	Each		Each		Each
07-08007	Adjustment of Meter and Valve Boxes	Adjustment of Meter Box (*)	Each		Each		Each
		Adjustment of Valve Box (*)	Each		Each		Each
07-08008	Solid Interlocking Paving Units (Paving Bricks)	Paving Brick	SQYD	X	0.1 FT	0.1 SQYD	SQYD
07-08009	Loop Detector Replacement	Loop Detector Replacement (Set Price)	LNFT		0.1 FT		LNFT
07-08010	Pavement Waterproofing Membrane	Pavement Waterproofing Membrane	LNFT		0.1 FT		LNFT
07-08012	Sanitary Sewer System	Sanitary Sewer System	Lump Sum		Lump Sum		Lump Sum

Computations of Quantities

Section	Section Title	Pay Item	Unit	Comps	Minimum Measure to Nearest	Minimum Compute to Nearest	Minimum Pay to Nearest
07-08013	Plugging Wells	Plugging (*) Wells	Each		Each		Each
07-08014	Compaction Grouting	Compaction Grouting	LNFT		0.1 FT		LNFT
		Compaction Grout	CUYD	X	0.1 FT	0.1 CUYD	CUYD
07-08015	Prefabricated Vertical Drain	Prefabricated Vertical Drain	LNFT		0.1 FT		LNFT
07-08016	Granular Drainage Blanket	Granular Drainage Blanket (*)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
07-08017	Separation Geotextile	Separation Geotextile	SQYD	X	0.1 FT	0.1 SQYD	SQYD
07-08018	Landscape Retaining Wall System	Landscape Retaining Wall	SQFT	X	0.1 FT	0.1 SQFT	SQFT
07-08020	Courtesy Towing	Towing (Courtesy) (Set Price)	Each		Each		Each
07-08021	Adjustment of Existing Structure	Adjustment of Existing Structure	Lump Sum		Lump Sum		Lump Sum
07-08028	Railroad Signing & Protective Liability Insurance	Reflectorized Advance-Warning Signs	Each		Each		Each
		Reflectorized Railroad Crossing Signs	Each		Each		Each
		Railroad Protective Liability Insurance	Lump Sum		Lump Sum		Lump Sum
DIVISION 900							
901	Temporary Erosion & Pollution Control	Temporary Berm	LNFT		0.1 FT		LNFT
		Temporary Slope Drain	LNFT		0.1 FT		LNFT
		Temporary Slope Barrier (Set Price)	LNFT		0.1 FT		LNFT
		Temporary Ditch Check	LNFT		0.1 FT		LNFT
		Temporary Ditch Check (Rock) (Set Price)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Temporary Inlet Sediment Barrier	Each	Field Book	Each		Each
		Temporary Sediment Basin	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Temporary Steam Crossing	Each	Field Book	Each		Each
		Sediment Removal (Set Price)	CUYD	X	0.1 FT	0.1 CUYD	CUYD
		Temporary Fertilizer (**)	LBS		LB		LB
		Temporary Seed (****)	LBS		LB		LB
		Soil Erosion Mix	LBS		LB		LB
		Temporary Seeding	Lump Sum		Lump Sum		Lump Sum
		Erosion Control (*)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
		Mulching (Temporary)	ACRE	X	1 FT	0.01 Acre	0.1 Acre
		Mobilization (Emergency Erosion Control) (Set Price)	Each		Each		Each
07-09002		Curb Inlet Protection	LNFT		0.1 FT		LNFT
902	Fertilizer, Agricultural Limestone & Peat Moss	Fertilizer (*-**-****)	LBS		LB		LB
		Agricultural Limestone	Ton		20 LBS or 0.01 Ton^		Ton
		Peat Moss	Ton		20 LBS or 0.01 Ton^		Ton
903	Seeding	Seed (*)	LBS		LB		LB
		Seed (Hydro) (*)	LBS		LB		LB
		Seeding	Lump Sum		Lump Sum		Lump Sum
904	Mulching	Mulching (Temporary)	ACRE	X	1 FT	0.01 Acre	0.1 Acre
		Mulching (Permanent) (Set Price)	ACRE	X	1 FT	0.01 Acre	0.1 Acre
		Mulching Tacking Slurry	ACRE	X	1 FT	0.01 Acre	0.1 Acre
		Mulching (Hydro)	SQYD	X	0.1 FT	0.1 SQYD	SQYD

Computations of Quantities

Section	Section Title	Pay Item	Unit	Comps	Minimum Measure to Nearest	Minimum Compute to Nearest	Minimum Pay to Nearest
905	Topsoil	Topsoil	CUYD	X	0.1 FT	0.1 CUYD	CUYD
906	Sodding	Sod (*) (**)	SQYD	X	0.1 FT	0.1 SQYD	SQYD
907	Trees, Shrubs & Other Plans	Furnishing & Planting Plant Materials	Lump Sum		Lump Sum		Lump Sum
		Transplanting Existing Plants	Lump Sum		Lump Sum		Lump Sum
908	Mowing	Mowing	PMPS		0.1 PMPS		0.1 PMPS
910	Stone Masonry Tree Wells	Stone Masonry for Tree Wells	CUYD	X	0.1 FT	0.1 CUYD	CUYD
911	Park Structures	Bench	Each		Each		Each
		Grill	Each		Each		Each
		Table (*)	Each		Each		Each
		Table Shade (**)	Each		Each		Each
		Waste Receptacle	Each		Each		Each
		Comfort Station (***)	Each		Each		Each
		Comfort Station (Modification)	Each		Each		Each
912	Water Systems	Water System	Lump Sum		Lump Sum		Lump Sum

^Platform scales nearest 20 lbs, overhead bins 0.01 ton