

INDEX

<u>Item</u>	<u>Reference</u>	<u>Item</u>	<u>Reference</u>
A			
A + B bidding	1103.02	coated fence	4154
Abbreviations, definitions of	1101.02	coated wire.....	4154.04
Abrasion. See specific material.		conduit	4185.10
Abutting joints--steel structure.....	2408.03, F	extrusions.....	4186.02, D
Accelerated work schedule	1108.02, K	fasteners	4190.02
Acceptance and final payment.....	1109.08	nuts	4190.02, B
Adjustment		support structures	4187
in contract	1109.14	poles	4185.02, F
deficient work	1109.03, C	railing	2414
work or materials not in reasonably		sheet	4186.02, A
close conformity	1105.04	washers.....	4190.02, C
of fixture		welding.....	2423.03, B
HMA	2303.03, C, 7, c	Anchor bolts	
PCC	2301.03, D	foundations and	
of pin nuts	2408.03, U	substructures	2405.03, H
of proportions--PCC		highway lighting	2523.03, G
pavement	2301.02, A	steel structures.....	2408.03, V
Admixtures		Anchor lug removal	
air entraining	4103.01, B	measurement	2529.04, E
calcium chloride		payment	2529.05, E
pavement repair	2529.02, B, 5	Anchors--plant materials	2610.03, F
equipment for	2001.20, D	Annulment of approval	1103.07
for PCC pavement	2301.02, B, 5	Antistrip additive.....	4138.01, C
extended		Apparent	
delivery.....	2301.02, C, 4a, 5	error or omission in figures	
for structural concrete	2403.02, B	and drawings.....	1105.04, C
decks.....	2412.02	omission in plans	1105.04, C
surfacing, overlay, and repair.....	2413.02	Approval for Award and	
Aerial equipment	2601.03, A, 12	Award of Contract	1103.02
Aerial power cable.....	4185.12, B	Approximate start date.....	1108.02, C, 2
Affidavit, collusion	1102.09, E, 4	Appurtenances, water main	2554.03, B
Affirmative Action	1102.19	measurement	2554.04
Aggregate		payment	2554.05
cover	4125	Aprons--corrugated culvert	
feeders, dryer, or drum	2001.22, A	measurement	2417.04
for slurry seal	4124	payment	2417.05
furnished by county.....	1106.05, C	Aprons--rigid culvert	
spreaders	2001.13	measurement	2416.04
Aggregate for Type A HMA.....	4127	payment	2416.05
Aggregate for Type B HMA.....	4127	Arch	
Aggregate Gradations	Appendix	anchorage, structural plate	2402.03, F
Agitator.....	2001.21, C	pipe--concrete.....	4145
Agreed-price basis	1109.03, B, 1	Archaeological salvage	2102.03, J
Air-Entraining Admixtures	4103.01, B	clearance	2102.03, F, 3
Air entrainment		Arches, pipe	2420
pavement	2301.02, B, 4	Area clearing and grubbing	2101
prestressed concrete	2407.03, B, 2	Arrow displays.....	2528.03, F
structural concrete	2403.02, B, 3	Asbestos removal	2536
surface, overlay, and repair ..	2413.02, D	Asphalt	
Aluminum		binder control unit	2001.22, F
bolts	4190.02	cut-back and liquid	4138
		emulsified.....	4140
		stabilizing agent	2318.02, A

INDEX

<u>Item</u>	<u>Reference</u>	<u>Item</u>	<u>Reference</u>
Asphalt Binder	4137	required--piles	2501.03, N
Assembling steel	2408.03, Q	surfaces, facing	2408.03, E
shop	2408.03, C	value of piles	2501.03, M
Assembly--disc bearing	2434	wave equation analysis	2501.03, M, 1
Authority and duties		Bearing assembly--disc	2434
of inspector	1105.06	Bearing Pads	4195
of Engineer	1105.01	Bearings	
Award of contract	1103	bronze	2408.03, E, 7
		material	4190.03
		lead	2408.03, M, 3
		material	4195.01
		rocker	2408.03, W
		Bedding pipe	2416.03, D, 2, a
		structural plate	2420.03, B
		Bending reinforcement	2404.03, B
		Bent plates	2408.02, F
		Bents, pile and framed	2409.03
		Bid bond form	1102.11
		Bidders	
		competency and qualification	1102.11
		disqualification	1102.03
		increase in requirements	1102.03
		instructions to	1101.03
		joint	1102.09, D
		notice to	1101.03
		reduction in qualification	
		restrictions	1102.02
		suspension	1102.03
		Bidding, A + B	1103.02
		Bids, consideration of	1103.01
		Bin type crib walls	2535
		Bins, hot aggregate	2001.22, D
		Bituminous	
		distributors	2001.12
		material	
		heating	2001.11
		measurement	4100.03
		Bituminous Fog Seal (Pavement)	2306
		Bituminous Fog Seal (Shoulders)	2308
		Bituminous Seal Coat	2307
		Blading and shaping	
		shoulder material	2213.03, C
		Blast Cleaning	2508
		Blocks, spacer, guardrail	4155.06
		Boards, common	4162.06
		Bolt holes	2408.02, L
		Bolts	
		aluminum	4190.02, A
		anchor	
		foundations and	
		substructures	2405.03, H
		galvanized	4100.07
		high-strength	4153.06, B
		installing	2408.03, S, 5

B

Backfill	
granular	4133
porous	4131
selected or special	2102.04
special	4132
Ballast	
roadway luminaires	4185.03
tower lighting	2522.03, F
Balled-and-burlapped trees	
and shrubs	4170.02, B, 3
planting	2610.03, E
Bars, reinforcement	4151
Barbed wire	4154.04
stretching	2519.03, A, 6
Bare copper ground wire	4185.12, F
Barricades and	
warning signs	1107.09
channelizing devices	2528.03, C
lighting devices	2528.03, F
Barricades (See Safety Closures)	
Barrier, concrete	2513
markers	4186.12
rail, temporary	2528.03, E
Bars and plates	2408.02, E
Base	
breakaway, lighting	2523.03, H
macadam stone	2210
PCC	2201
HMA	2203
repair	2212
widening	2213
Basic Asphalt Binder Content	2303.02, D
Basic asphalt content. see Mixture	
Basis of payment. See specific item.	
Batch mixer--HMA	2001.22, K, 1
Batching equipment--PCC	2001.20
Beam guardrail	2505
end anchors	2505.03, A, 4
posts	2505.03, A, 3
Beams and stringers, wood	4162.03
Bearing	
area, preparation of	2408.03, M
formulas, pile	2501.03, M, 2

INDEX

<u>Item</u>	<u>Reference</u>	<u>Item</u>	<u>Reference</u>
lighting pole.....	4185.02, B	Cable	
panel, signing.....	4186.09	and wire	4185.12
post clip.....	4186.09, B, 4	guardrail.....	2505
prestressed concrete	2407.02, G	materials	4155.03
ribbed	2408.02, C	guardrail end anchors	2505.03, A
steel structures.....	2408.02, C	guardrail posts	4155
materials	4153.06	high tension.....	2505
structural plate pipe.....	2420.03	Calcium chloride, applied.....	2314
materials	4144.04	material	4194.01
timber structures	4153.07	surface application	2314
Bond, contract, requirements of.....	1103.05	Calcium Chloride and Sodium Chloride ..	4194
Bonded, PCC Overlay.....	2310	Calibrated wrenches	2408.03, S, 5, C, 3
Bonding construction joints	2403.03, H	Calibration. See specific equipment	
Bonding new and old work.....	2403.03, I	Camber, prestressed concrete..	2407.03, H, 4
Border, sign.....	4186.06, C	Camber, steel structures.....	2408.02, K
Boring pin holes	2408.02, M	Cancelled work	1109.04
Borrow		Caps	
alternate	2102.03, F, 1, b, 3	pile driving.....	2501.03, A, 7
contractor's plan.....	2102.03, F, 2	post, for fence	4154.10, C
designated	2102.03, F, 1, b, 4	timber structures	2409.03, H
excavation	2102	Cast-in-place prestressed concrete	2407
finishing.....	2102.03, K	Castings	
mandatory	2102.03, F, 1, b, 1	galvanized.....	4100.07, A
optional	2102.03, F, 1, b, 2	iron	4153.04
restoration	2102.03, F, 4	steel	4153.03
roadway and excavation	2102	manhole and intake.....	4149.04, I
Boulders, removal	2102.03, C	Caulking Compound	4192
measurement	2102.04, A, 1, f	Cement	
payment	2102.05	Portland.....	4101
Box culverts.....	2415	proportioning equipment	2001.20, B
Brace post assembly.....	2519.03, A, 2	Certificate of insurance	1103.04
Brace wire	4154.05	Certification. See specific item.	
Braces, field fence.....	4154.08	Certified plant inspection.....	2521
Bracing--timber structure.....	2409.03, I	Certified statement of sales tax and	
Breakaway base, lighting	2523.03, H	use tax paid.....	1109.07
Breaking up old pavement	2510.03, B	Chain link fence	2519.03, B
Bridge		materials	4154
approach sections.....	2301.03, R	measurement	2519.04
measurement.....	2301.04, D	payment	2519.05
payment	2301.05, D	Chairs, reinforcing.....	2404.03, E
decks, placing, new.....	2412.03	Changeable message signs,	
hauling	1105.12, B	portable	2528.03, B
painting	2408.02, Q	Change of work, significant.....	1109.16, C
recreational trail	2429	Changes and substitutions--steel	
Bridge cleaning	2427	structural	2408.03, A
paint removal	2508	Channel crossing fence	2519.03, A
Bronze bearing metal	4190.03	Channel Excavation	2104
Brooms.....	2001.14	Channelizing devices	2528.03, C
Burlap for curing concrete	4104	Character of workers.....	1108.05
		Charging of working days	1108.02, E
C		Charpy test.....	4152.02, B
Cabinets, control	4185.07	Check dams, PCC pavement 2301.03, K, 4, d	

INDEX

<u>Item</u>	<u>Reference</u>	<u>Item</u>	<u>Reference</u>
Check dams, pavement		measurement	2107.04, B, 3
widening	2302.03, e, 3, b	payment	2107.05, A, 3
Check slots	2601.03, M, 1, a	Compaction	
Chert, unsound	4115.02	Class IA	2303.03, C, 5, b, 1
Choke stone base course	2210.03, D	Class IB	2303.03, C, 5, b, 2
Chutes	2403.03, B, 1, b	Class IC	2303.03, C, 5, b, 3
Circuits	2523.03, L	Class II	2303.03, C, 5, c
Claims		special compaction of	
against Contractor	1109.11	subgrade	2109.03, C
damage	1107.12	Type A	2107.03, E
disputed	1109.10	Type B	2107.03, F
Class A deck repair	2413.03, C, 2	with moisture control	2107.03, F
Class B deck repair	2413.03, C, 3	with moisture and	
Class L Fine Aggregate for PCC	4111	density control	2107.03, H
Class V Aggregate for PCC	4117	Competency and qualification	
Clay sewer pipe	4149.02, A, 8	of bidders	1102.01
Cold In-Place Recycled Asphalt		Completion of contracts in default	1108.11
Pavement	2318	Concrete	
materials	2318.02	asphalt binder, pavement	2303.02, A
Cleaning and preparation		bearing piles	2501.03, D
of base	2212.03, B, 1	bridge decks, new	2412
measurement	2212.04, A	compression test specimen	4100.08
payment	2212.05, A	cracking and seating	2216
Cleaning, Surface Preparation, and		drilled shaft	2433.02, B
Painting of Galvanized Surfaces	2509	finishing structural	2403.03, P
Clearing and Grubbing	2101	footings--sign	2524.03, B, 1
Closure day	1111.02, B	headers	2301.03, J
CMP subdrain outlets	2502.02, D	lightweight, structural	2403.02, C
Coarse Aggregate for PCC	4115	manhole units, precast	4149.04, A
Cofferdam construction		mixed at the site,	
foundations and		structural	2403.02, D, 2
substructures	2405.03, A	mixing equipment	2001.21
Cofferdam removal	2402.03, E	bridge deck surfacing, repair	
Cohesive soils	2102.02, D, 1, a	and overlay	2413.02
Cold finished steel	4153.02	Portland cement, pavement ..	2301.02, B
Cleaning and Filling Cracks for		Piles	2501.03, D
HMA Surfaces	2541	materials	4166
Cold weather protection		pipe	
of pavement	2301.03, K, 3	culvert	4145
Color		sanitary sewer	4149.02
code--steel, structural	2408.02, B	storm sewer	4149.03
of retroreflective sheeting	4186.03	placing	
of traffic paint	4183	Portland cement,	
Combinations of aggregates	4100.05	pavement	2301.03, C
Common boards and sheathing	4162.06	structural	2403.03, C
Common class timber and		rubblizing	2217
lumber	4162.01, B	sealer, bridge seats	2403.03, P, 3
Compacting		material	4139.01
backfill adjacent to culverts		sidewalk	2511.02, A
and structures	2107.03, O	structural	2403
measurement	2107.04, B, 4	subjecting to exterior	
payment	2107.05, A, 4	loads	2403.03, N
trench bottom	2107.03, M	vibration of	2403.03, D
		Concrete Drilled Shaft	2433

INDEX

<u>Item</u>	<u>Reference</u>	<u>Item</u>	<u>Reference</u>
Concrete and Stone Revetment.....	2507	Continuous mixer--PCC	2001.21, D
Concrete beams, high performance concrete (HPC)		Contract	
aggregate	2407.02, A, 1	award of	1103.02
construction.....	2407.03, B, 4	bond	1103.05
Concrete, barrier	2513	execution of.....	1103.06
Concrete Box, Arch, and Circular		failure to execute.....	1103.07
Culverts	2415	in default	1108.10
Concrete bridge decks		period	1103.03
measurement	2412.04	extension of	1108.07
payment	2412.05	failure to complete within ...	1108.09
placing concrete	2412.03, C	price, adjustment.....	1109.03
Concrete Culvert Pipe	4145	deficient work	1109.03, C
Concrete Decks, new bridge	2412	work or material not in reasonably close conformity.....	1109.04
Concrete Median.....	2301.03, Q	standardized contract clause	1109.06
measurement	2301.04, C	subletting of.....	1108.01
payment	2301.05, C	supplemental.....	1109.06, B
Concrete pavement undersealing by pressure grouting	2539	Contraction joints	
Concrete Structures	2406	PCC pavement.....	2301.03, N
Conduit.....	2523.03, N	pavement widening.....	2303.03, E, 2
and fittings.....	4185.10	sealing.....	2301.03, P
Cones, traffic	2528.03, C, 1, b	Contractor	
Conference, preconstruction	1108.02, L	bid bond	1102.11
Conformity with and coordination of specifications, plans, special provisions developmental specifications, and supplemental specifications	1105.04	claims against	1109.11
Connector assemblies.....	4185.11	financial statement.....	1102.01
Connectors		nonsegregated facilities	
lighting.....	2523.03, R	prime contractor.....	1102.19, C, 5
pipe		subcontractor	1102.06
culvert, concrete.....	4145.06, J	responsibility for utility property and services.....	1107.15
sanitary sewer.....	4149.02	responsibility for work	1107.14
storm sewer	4149.03	supervision by	1105.05
water main	4150.02	termination of responsibility	1108.12
timber	2408.02, G	Contracts in default	1108.10
Consideration of bids	1103.01	completion of.....	1108.11
Consistency--PCC pavement....	2301.02, B, 3	Control	
Consistency--structural		cabinets.....	4185.07
concrete	2403.02, B, 2	cable	4185.12, D
Construction. See work type.		station	2523.03, T
Construction materials	Div. 41	Control of Materials.....	1106
Construction stakes.....	1105.15	Control of Work	1105
Construction survey	2526	Cooperation and coordination.....	1102.09, F
Contactors.....	4185.05	utilities	2523.03, C
Container grown plant		Coordination of Contract	
material	4170.02, B, 4	Documents.....	1105.04
Containment		Corner posts	2519.03, A, 2, a, 2
non-hazardous paint		Corporations, foreign	1102.15
removal	2508.01, A, 4	Corrugated Culverts	2417
hazardous paint removal... 2508.01, B, 4		Corrugated Steel Culvert Pipe	4141
Contents of proposal forms	1102.04	County, aggregate furnished by.....	1106.05
Continuous mixer--HMA.....	2001.22, K, 2	Cover Aggregate and Aggregate	
		for Slurry Mixtures.....	4124
		Cover aggregate, bituminous	

INDEX

<u>Item</u>	<u>Reference</u>	<u>Item</u>	<u>Reference</u>
seal coat	2307.02, A	administrative	
measurement	2307.04, A	reconsideration	1102.17, E, 5
payment	2307.05, A	goals	1102.17, E, 2
spreaders	2307.03, A, 1	good faith effort	1102.17, E
spreading	2307.03, B, 3	hauling materials	1102.17, D, 2, g
C.P.M	1110	participation	1102.17, D
Crack Cleaning and Sealing		Damage claims	1107.12
(HMA Surfaces)	2541	Damages, liquidated	1108.08
Crack and Joint Cleaning and Sealing		Dams, retention	1107.07, C
(PCC Pavement)	2542	Deaeration chamber	2001.22, F, 2, b
Cracking and Seating Concrete		Debris picked up	2601.03, I, 3
Pavement	2216	Decks	
Crash Cushions	2551	concrete bridge	2412
Creosote	4160.01, A	placing	2412.03, C
Crib walls, bin type	2535	plank	2410
Critical closure activity	1111.02, A	surface, overlay, and repair	2413
Critical path method	1110	timber structures	
Crossing ducts	2523.03, N, 2, b	Default	
Crossings, railroad	1104.10	contracts in	1108.10
Crownvetch seeding	2601.03, B, 4, f, 6	completion of contracts in	1108.11
Crushed Stone Base Materials	4122	Defective work, removal of	1105.08
Crushed stone surfacing materials	4120	Deficient work	
Cultipacker	2601.03, A, 6, a	payment for	1109.03, C
Culvert pipe		not in reasonably close	
concrete	4145	conformity	1105.04
corrugated steel	4141	reasonably acceptable	1105.04
plastic	4146	Definitions	
Culverts		abbreviations	1101.02
concrete box, arch, and circular	2415	terms	1101.03
corrugated	2417	Deflected strands	2407.03, G
plastic pipe	2417	Degreasing, Signing materials ..	4186.06, A, 2
rigid pipe	2416	Delineators	2524.03
unclassified	2422	fasteners for	4186.09, C, 1
Curb and Flume Removal	2514	for guardrails	2505.03, A, 6
Curb		posts for	4186.10, C
Integral	2301.03, I	reflectors for	4186.11, A
Curb and gutter	2512	temporary	2527.02, D, 4
concrete	2512.02	Delivery of Samples	2534
concrete decks, new bridge ..	2412.03, F	Density. See specific type of work.	
Curing. See specific type of work.		Design loads--falsework	2403.03, L, 4
material		Detectable Warnings	4171
burlap	4104	Determination of	
liquid	4105	bearing value of piles	2501.03, M
plastic film	4106	length of piles	2501.03, B
Curing and Protection		Detours	1107.08, C
pavement	2301.03, K	maintenance of	1104.05
structural concrete	2403.03, E	pavement	2304
Cutback and liquid asphalts	4138	Diamond Grinding, pavement	2532
Cutout letters	4186.06, A, 6	Diesel hammers	2501.03, A, 3
Cutting, thermal	2408.02, H	Differing site conditions	1109.16, A
		Disadvantaged Business Enterprise ..	1102.17
D		Disc Bearing Assembly	2534
DBE	1102.17	Disclosure of subcontractor	1103.08
		Disk. See specific type of construction.	

INDEX

Item	Reference
grading	2107.03, D, 3
erosion control	2601.03, A, 1
Dispenser for admixtures	2001.20, D
Displacing water with concrete.....	2403.03, J
Disputed claims for extra compensation	1109.10
Disqualification of bidder.....	1102.03, A, 3
Distributors, bituminous.....	2001.12
Distributors, water	2001.09
Ditches	
intercepting--erosion control .	2601.03, G
intercepting--excavation	2102.03, H
reshaping	2125
Domestic origin, materials.....	1107.06, B
Dotted lines	2527.03, D, 6
Double plank decks.....	2410.03, C
Douglas Fir.....	4162, 4163
Dowel bars	4151.02, B
Drain Tiles.....	4148
Drainage	
provisions for.....	2102.03, H
temporary	2102.03, K
Drains, wick.....	2112
Drawings	
falsework.....	2403.03, L, 7
lighting.....	2523.03, B
signing.....	2524.03, A, 1, b, 2, c
steel structures.....	2408.03, A
Drifting, bolt holes	2408.03, D
Drilled holes	2408.02, M
Driveway surfacing.....	2315
Driveways, removal and construction of paved	2515
Driving	
caps	2501.03, A, 7
nuts	2408.02, O
piles. See Piles.	
Drum mixer.....	2001.22, K, 3
Drums, traffic control	4188.02
Ductile iron sewer pipe.....	4149.01, A, 7
Ducts, electrical.....	2523.03, N
Durability. See specific material.	
Dust collector	2001.22, I
Dust, spread of.....	1107.07, E
Duties of inspector	1105.06

E

EEO/AA.....	1102.19
Early completion, incentive/disincentive .	1111
Earth shoulders for pavements and bases.....	2123
construction.....	2123.03, B
measurement.....	2123.04, A, 2

Item	Reference
payment	2123.05, A, 2
finishing.....	2123.03, C
measurement.....	2123.04, A, 1
payment	2123.05, A, 1
Edge	
lines.....	2527.03, D, 1
planing steel structures	2408.02, G
trim molding	4186.02, E
Edge Rut Slurry Treatment	2319
Elastomeric joint seal	4136.03, D
Elbows--corrugated culvert	2417.04, C
Elbows--rigid culvert.....	2416.04, C
Electrical	
ducts	2523.03, N
grounds--	
fence	2519.03, A, 9
.....	2519.03, B, 5
grounding, lighting.....	2523.03, M, 2
Electrode. See Welding	
Electronic Document Storage	1113
Elliptical pipe	4145.04, D
Elongation of pipe	4141.01, C
structural plate	4144.03, B
Embankment-in-place	
measurement	2102.04, A, 1, d
payment	2102.05, A, 1
Embankment adjacent to culverts and structures	2107.03, O
Embankments, construction of.....	2107
rebuilding	2107.03, L
Emergency provisions, national.....	1109.13
Emulsified Asphalt	4140
End	
anchor	
guardrail.....	2505.03, A, 4
.....	2505.03, B, 4
prestressed concrete structures	2407.03, A, 1, b
connection angles, structures	2408.03, G
posts--fence	4154.07, B
End of run	2301.03, J
Endgate cyclone seeder	2601.03, A, 9
Energy output. See Hammers	
Engineer.....	1101.03
authority of	1105.01
Chief.....	1101.03
County.....	1101.03
Engineering Fabric.....	4196
Entrained air. See specific mixture.	
Entrance culverts	2422
Environmental Clearance.....	2102.03, F, 3
Epoxy	
coated dowels and tie bars	4151.02

INDEX

coated reinforcement,		payment	2105.05
structures	2404.03, B	sectional plate structures	
<u>Item</u>	<u>Reference</u>	<u>Item</u>	<u>Reference</u>
material	4151.03	measurement	2420.04
paint pavement markings	4183.04	payment	2420.05
Equal Employment Opportunity	1102.19	sign support structures	
Equipment. See specific type of work.		measurement	2423.04, B, 1
Erosion control	2601	payment	2423.05, B, 1
mobilization	2601.03, S	structures	2402
Erosion Control Materials	4169	classification	2402.03, J
Erosion Stone	4130	Excelsior mat	2601.03, M
Error, apparent	1105.04, C	Execution of contract	1103.06
Establishment period--plant		Expanded mesh roller	1601.03, A, 6, d
materials	2610.03, I	Expansion joint	
Estimate of quantities	1102.07	PCC pavement	2301.03, O
Evaporation chart, bridge		sealer	4136.03
deck	2412.03, C, 4	structural concrete	2403.03, O, 2
Examination of plans, proposal form,		Expansion tubes	4191.01, B
specifications, supplemental		Expiration date--qualification	1102.01, B
specifications, developmental		Exploratory work	1104.01, C
specifications, and site of work	1102.08	Explosives, use of	1107.10
Excavation		Extension of contract period	1108.07
base widening	2213.01	Extensions and splices, piling	2501.03, P
bin type crib walls	2535	Extra	
channel	2103	compensation	1109.10
classification		depth excavation, structures	2402.05, B
roadway and borrow	2102.03, B	piles, payment for	2501.04, F
structures	2402.03, J	work	1109.03, B
finishing	2102.03, K	by subcontractor	1109.03, B, 3
lighting	2523.03, D	payment	1109.03
pavement--PCC	2301.03, B		
measurement	2301.04, E	F	
payment	2301.05, E	Fabric reinforcement	2303.03., C, 2, c
pavement widening	2302.03, D	measurement	2303.04, F
measurement	2302.04, A	payment	2303.05, F
payment	2302.05, A	Fabrication of reinforcement	2404.03, B
pipe culverts		Fabrication of structural steel	2408.02, B
concrete		Facing bearing surfaces	2408.03, E
measurement	2416.04, E	Failure to complete work within	
payment	2416.05, E	contract period	1108.09
metal		Failure to execute contract	1103.07
measurement	447	False forms	2301.03, A, 3, b
payment	448	Falsework	
plastic		and forms	2406.03, A
measurement	2417.04, D	design and construction	2403.03, L
payment	2417.05, D	plans	2403.03, L, 7
unclassified		removal of	2403.03, M
measurement	2422.04, B	Fast dry traffic paint	4183.02
payment	2422.05	4183.03
roadway and borrow	2102	Fasteners. See also Bolts	
classification	2102.03, B	accessories--sign	4186.09
measurement	2102.04, A, 1	Federal participation	1107.06
payment	2102.05, A, 1	Fence Construction	2519
topsoil	2105.03, B	Fence Materials	4154
measurement	2105.04		

INDEX

Fertilizer--erosion control		Flaggers	2528.03, K
material	4169.03	Flange plates	2408.02, J, 1, c
<u>Item</u>	<u>Reference</u>	<u>Item</u>	<u>Reference</u>
seeding	2601.03, B, 4, b	Floated surface finish	2403.03, P, 2, a
sod	2601.03, F, 3, b	Flood plain fence	2519.03, A, 11
special ditch control	2601.03, K	Floodlighting, temporary	2528.03, H
stabilizing crop seeding	2601.03, C, 2	Flowable Mortar	2506
Fertilizer--installing plant		Flume, removal	2514.03, B
materials	2610.03, E, 2	Fly Ash	4108.01
Field		PCC pavement	2301.02, B, 6
measurement--liquid		structural concrete	2403.02, B, 5
bitumen	4100.03, A	Fog Seal, Bituminous	
painting--steel structures	2408.03, X	pavement	2306
tiller	2601.03, A, 3	shoulders	2308
Field Laboratory and Field Office	2520	Followers	2501.03, A, 8
Filing of proposal	1102.12	Footings	
Fill		culverts	2415.03, A
in streams and water bodies	1105.13	excavation for structures	2402
rock	2107.03, J	foundations and	
Filler. See specific mixture.		substructures	2405.03, C
Filler bitumen ratio	2303.03, D, 3, c	lighting	2523.03, G
Fillet		signing	2524.03, B, 1, e
Intersecting roads. See specific type of		tower lighting	2522.03, B
work.		Force account basis	1109.03, B, 2
paved shoulder	2121.03, D	Foreign corporations	1102.15
Filling steel pipe piles	2501.03, E, 3	Forfeiture, proposal guaranty	1103.07
Final		Forgings, steel	4153.01
acceptance--lighting	2523.03, U	Form line excavating machine	
acceptance and payment	1109.08	fixed form	2301.03, A, 3, a, 4
adjustment	1109.12	slip form	2301.03, A, 3, b, 1
cleaning up	1104.08	Formed steel beam guardrail	2505
inspection	1105.10	materials	4155.02
Financial statement	1102.01	railings	2414
Fine Aggregate for Portland		Forming and punching plates	4144.03
Cement Concrete	4110	Forms. See specific type of work.	
Fine Aggregate for Portland		Foundation piles	2501
Cement Concrete, Class L	4111	Foundation treatment	2402.03, C
Fine limestone--Class V	4117	Foundations and Substructures	2405
Finish. See specific type of work.		Framed bents	2409.03, G
Finishing earth shoulders	2123.03, C	Framing, timber structures	2409.03, E
Finishing embankments and		Free haul limit	2108.04, E
borrowes	2102.03, K	channel excavation	2104.05, B
Finishing machine		excavation for structures	2402.04, D
HMA	2001.19	Freezing and thawing test. See specific	
decks, bridge	2412.03, D	material.	
overlay	2413.03, A, 4	Fuel Adjustment	2120
PCC pavement	2301.03, A, 3, a	Full depth finish patches	2529
Fire hydrants	2554.03, B	Full depth repair patches	2212
measurement	2554.04, B, 3	Full Depth Reclamation	2116
payment	2554.05, B, 3	Furnish and Apply Granular	
Fittings, conduit and	4185.10	Shoulder Material	2128
Fittings, chain link--fence	4154.11	Furnishing and delivering materials	
Fixtures in pavement surface		on road, granular surfacing	2312
HMA	2303.04, C, 7, c		
PCC	2301.03, D		

G

INDEX

Gabions and Revet Mattresses.....	2546	Grout, concrete and stone	
<u>Item</u>	<u>Reference</u>	revetment	2507.03, E
Galvanized reinforcement	2404.03, B, 5	<u>Item</u>	<u>Reference</u>
materials.....	4151.03, B	Guaranty, proposal.....	1102.11
Galvanized surfaces, cleaning, surface		return of.....	1103.03
preparation, and painting	2509	Guardrail--Materials	4155
Galvanizing. See specific material.		Guying--installing plant	
various items	4100.07	materials.....	4170.09, C, 2
Gates			
chain link fence	2519.03, B, 4	H	
field fence.....	2519.03, A, 8	HMA	2303
materials.....	4154.12	quality assurance program....	2303.03, D
General Equipment Requirements.....	2001	Hammers, pile driving	2501.03, A
General Provisions--Materials.....	4100	Hand cyclone seeder	2601.03, A, 10
General Requirements	Div. 11	Hand tamping equipment.....	2601.03, A, 6, c
Girders, plate.....	2408.02, J	Handholes, lighting.....	2523.03, O
Government inspection--plant		material	4185.08
materials.....	4170.06	Hangers--decks.....	2412.03, A, 2
Gradation, aggregate	4109	Hardware--timber structures	2409.02, C
Grading for paving.....	2102.03, L	materials	4153.07
Granular backfill		measurement	2409.05, B
bin type crib walls.....	2535.03, C	payment	2409.05, B
corrugated culverts.....	2416.03, D, 4	Harrow.....	2601.03, A, 2
excavation for structures.....	2402.03, H	2601.03, A, 5
rigid pipe culverts	2416.03, D	Haul road, temporary primary road....	1105.12
Granular blankets.....	2107.03, K	Haul routes, moistening	1107.07, E
Granular material for		Hauling bridge.....	1105.11, B
backfill--sanitary sewers.....	2552	Hazardous Paint Removal	2508.01, B
embankments.....	2107.03, K	Header	
soil aggregate subbase	2110.02	concrete	2301.03, J
Granular Subbase	2111	Health.....	1107.07
maintenance of completed....	2111.03, E	Heater scarification	2309
Granular Subbase Material	4121	Heating	
Granular Surfacing Material	4120	and protection equipment .	2403.03, B, 4
Granular Shoulders	2121	equipment--bituminous	
Granular shoulder material, furnish		materials	2001.11
and apply.....	2128	prestressed concrete	2407.03, C, 2
Grass seed.....	4169.02	structural concrete	2403.03, F, 4
sowing	2601.03, B, f	Heavy equipment restrictions....	2407.03, C, 2
Gravel		High performance concrete (HPC)	
Class C.....	4120.03	concrete beams	
special backfill.....	4132	aggregate.....	2407.02, A, 1
Gravity hammers.....	2501.03, A, 1	construction.....	2407.3, B, 4
Gravity seeder.....	2601.03, A, 8	High pressure sodium lamps.....	4185.03
Grooving decks	2412.03, C, 4	High strength fasteners	4153.06, B
surfacing, repair, and		High tension cable guardrail.....	2505
overlay.....	2413.03, E, 3	Highway Lighting.....	2523
Grooving pavement.....	2306.03, H, 3	Highway Lighting Materials	4185
Ground		Highway Signing	2524
electrical--fence.....	2519.03, A, 9	Historic preservation	2102.03, F, 3, a
limestone, fertilizer	4169.03, J	Holes	
rod--lighting	4185.04	prebored.....	2501.03, Q
resistance measurements .	2523.03, M, 2	structural steel	
Grounding, lighting	2523.03, M	bolt	2408.02, L

INDEX

bolting	2408.03, S
drifting	2408.03, D
<u>Item</u>	<u>Reference</u>
pin	2408.02, M
Holidays	1108.03, C
Hot aggregate proportioning	2001.22, J
Hot Mix Asphalt Mixtures	2303
construction	2303.03
gyratory mix design	
criteria	2303.02, D, 4
materials	2303.02
Hot mixture storage	2001.22, L
H-piles	2501.03, F
materials	4167.01, A
Hydrated lime	
HMA mixtures	2303.03, C, 3, c, 1
Soil stabilization	4193
Hydraulic seeder	2601.03, A, 7
I	
Ice breakers	2405.03, G
Identification of steel	2408.02, B
Impact properties, structural steel	4152.02
tower lighting	2522.03, E
Imposition of increase in bidder qualification requirements	1102.03
Incentive	
bridge decks and bridge	
deck overlays	2428.05, A
pavement thickness	2301.05, A, 2
pavement smoothness	2316.05
value engineering	1105.14
Incentive/Disincentive for Early Completion	1111
closure day	1111.02, B
critical closure activity	1111.02, A
I/D Daily Rate	1111.02, C
I/D Payment or Assessment	1111.05
Income tax deduction on nonresident contractors	1102.16
Increased or decreased length or size of piles	2501.05, A
Increased or decreased quantities	1104.03
Inoculant	2601.03, B, 4, e
material	4169.04
Inserts--prestressed beams	2407.03, J, 2
Inspection	
arrangements	4100.02
certified plant	2521
final	1105.10
government--plant material	4170.06
work	1105.07
Inspector	
authority and duties	1105.06

structural steel	1108.02, P
Installing Plant Material	2610
<u>Item</u>	<u>Reference</u>
Insulated forms	2403.03, F, 5, b
Insulating covers	4106.02
Insulation-resistance measurements and report	2523.03, U, 2
Insurance	
liability	1107.02, A
certificate	1103.04
railroad protective	1107.02, B, 5
Intakes	
castings	4149.04, I
storm sewers	2435
subdrains	2502.03, A, 3
Integral curb	2301.03, A, 3, a, 2
Intent of plans and specifications	1104.01
Intercepting ditches	2102.03, H
Interest, final payment	1109.09, B
Intersection marking tape	2527.03, D, 10
Investigation by contractor	1104.01, C
Iron castings	4153.04
Irregular proposals	1102.10
Isolation joints--sidewalk	2511.03, C, 5
Issuance of proposals	1102.05
J	
Jets, water, piling	2501.03, A, 9
Job mix formula (JMF). See type of work.	
Joint	
sealing--pavement	
widening	2302.03, E, 2
sealing compounds	
sanitary sewer	4149.02, A, 7, c
storm sewer	4149.02, A, 7, c
water main	4150.02, A, 2, c
Joint Fillers and Sealers	4136
Joint Repair	
longitudinal	2540
transverse	2543
Joints	
abutting--steel structures	2408.03, F
HMA	2303.03, C, 6
concrete pipe	2416.03, D, 5
concrete structures	2406.03, C
curb and gutter	2512.03, G
decks, bridge	2412.03, H
expansion	2301.03, O
foundations and	
substructures	2405.03, F
PCC pavement	2301.03, N
pavement widening	2301.03, P
pavement widening	2302.03, E, 2
sawing	2301.03, N

INDEX

sealing.....	2301.03, P	Limitations of operations	1108.03
sidewalks.....	2511.03, C, 3, a, 2		
<u>Item</u>	<u>Reference</u>	<u>Item</u>	<u>Reference</u>
structural concrete.....	2403.03, O	Line posts	
Joists and plank	4162.03, A	wood.....	4154.07
Journey - Worker.....	1102.19, B, 3	steel.....	4154.09
Junction boxes, lighting.....	2523.03, P	Lines-temporary pavement	
materials.....	4185.09	marking	2527.03, F
		Liquid admixtures for PCC	4103
		Liquid asphalts	4138
		Liquid Curing Compounds.....	4105
		Liquid Sealing Materials for	
		Concrete Surfaces	4139
		Liquidated damages.....	1108.08
		Load tests, pile	2501.03, M, 3
		Locating tile lines.....	2102.03, H, 3
		measurement	2102.04, A, 6
		payment	2102.05, A, 6
		Longitudinal	
		joint repair	2540
		subdrains	2502.03, C
		materials	4143.01, B
		measurement.....	2502.04, B
		payment	2502.05, B
		Low devices, luminaire.....	4185.03, B
		Lubricant, lighting cable	2523.03, Q, 3
		Lumber	
		for laminated wood decks	2411.02, A
		for plank decks	2410.02, A
		for timber structures	2409.02, A
		forms and falsework.....	2403.03, L
		treated.....	4163
		untreated.....	4162
		Luminaire	
		highway lighting	2523.03, K
		materials	4185.03
		lowering device	2522.03, G
		tower lighting.....	2522
		Lumps in Portland cement	4101.01, D
		M	
		Macadam Stone Base.....	2210
		Macadam stone base material	4122
		Main members, steel structures.....	2408.02
		Maintenance	
		of base	2210.03, G
		of completed work.....	1107.13, A
		of detours	1104.05
		of subbase	2111.03, E
		Mandatory borrow	2102.03, F, 1, b, 1
		Manhole	
		materials	4149.04
		sanitary and storm sewers	2435
		Marking pavement.....	2527

INDEX

Marking tape	2527.02	Misplaced holes	2408.02, L, 7
profiled	2527.03, D, 9		
<u>Item</u>	<u>Reference</u>	<u>Item</u>	<u>Reference</u>
Mastarms	2523.03, J	Mixing	
materials	4185.02, C	HMA	2303.03, C, 3, d
Material		equipment	2001.22
bins	2001.06	PCC	2301.02., C, 4
change in plans	1105.02	equipment	2001.21
change in quantities	1104.03	prewetting aggregate	2001.08
Materials		structural concrete	2403.02, D
acceptance of	1106.01	Mobilization	2533
control of	1106	Modification in contract price	
found in right-of-way	1104.07	deficient work	1109.03, C
inspection of	1106.01	work not in reasonably close	
.....	1106.02	conformity	1105.04, E
reasonably close conformity .	1105.04, E	Modified Subbase	2115
storage within right-of-way	1107.08, I	Modular Block Retaining Wall	2430
unacceptable	1106.04	Modular glare screen	2528.03, E, 2
Mattresses	2546	Moisture and density control	2107.03, H
Measurement and Payment and		Moisture Control	2107.03, I
Metric Conversion	1109	Mortar, flowable	2506
Measurement of liquid		Motor graders	2001.15
bituminous materials	4100.03	Moving heavy equipment	1105.11
quantities	1109.01	Mowing	
Mechanical		erosion control	2601.03, B, 4, n
paint removal	2508.01, A, 3, b, 2	maintenance	2612
tampers	2001.04	Mowers, erosion control	2601.03, A, 16
trencher	2601.01, A, 15	Mulch	2601.03, D
Mechanically Stabilized Earth (MSE)		erosion control	4169.07
Retaining Wall	2432	plant materials	4170.09, D
Median, concrete	2301.03, Q	special ditch control	2601.03, L
Medium curing asphalt	4138.01, A	stabilizer	2601.03, A, 14
Mesh reinforcement	4151.04	Mulching--installing plant	
Metal		materials	2610.03, G
keyway	4191	seed areas	2601.03, D
nonferrous	4190	Multiple	
Methods and equipment	1108.04	lane construction--PCC	
Methods of sampling and testing	4100.04	pavement	2301.03, G
Metric conversion	1109.01, B	structures, structural plate	2420.03, C
Metric Station	1109.01, B		
Milepost markers	2524.03, A, 2	N	
measurement	2524.04, F	National emergency provisions	1109.13
payment	2524.05, F	Native grass	
Mill and shop inspection	2408.02, P	drill	2601.03, A, 11
Mill orders and shipping		seeding	2601.03, I
statements	2408.02, P, 5	Natural Subgrade	2109
Milled Shoulder Rumble		Noeprene bearing pads	4195.02
Strips - HMA or PCC Surface	2548	Neoprene washers	4186.09, A, 4, d
Milling pavement	2531	New Hire	1102.19, B, 5
Mineral filler. See specific mixture.		No passing lanes	2527.03, D, 5
Minority	1102.19, B, 4	No waiver of legal rights	1107.17
Miscellaneous hardware--timber structures		Nonferrous Metals	4190
measurement	2509.04, C	Non-hazardous Paint Removal	2508.01, A
payment	2509.05, B	Nonreflective sheeting	4186.04
Miscellaneous Iron and Steel	4153		

INDEX

Nonresident contractors, income		Pavement marking	2527
tax deduction	1102.16	removal	2527.03, C
<u>Item</u>	<u>Reference</u>	<u>Item</u>	<u>Reference</u>
Nonsegregated facilities notice for Federal aid projects		Pavement surface repair (diamond grinding)	2532
prime contractors	1102.19, B, 8	Pavement surface repair (milling)	2531
subcontractors and suppliers	1102.06	Pavement widening	2302
Notice to proceed	1108.02, G	Pavement Scarification	2214
Nuts. See also Bolts.		Pavement smoothness	2316, 2317
pilot and driving	2408.02, O	Paving, grading for	2102.03, L
pin	2408.03, U	Paving--machine	
O		HMA	2001.19
Obstructions, removal	1104.06	PCC	
Omission, apparent	1105.04, C	standard	2301.03, A, 3, a, 6
Opening sections of highway to traffic	1107.13	slip form	2301.03, A, 3, b
Overhaul	2108	Paving mixer	2001.21
Overhaul--channel excavation	2104.05, B	2001.22
Overhaul--excavation for structures	2402.05, D	Payment	
Overlay		agreed price basis	1109.03, B, 1
Bridge Decks, surfacing and repair	2413	contract quantities	1109.01, A, 2
Type "B" Guide Signs	2545	definite prices	1109.03, A
Overseeding	2601.03, B, 4, k	final acceptance	1109.08
Oxygen cutting	2408.02, H	for cancelled work	1109.04
		for deficient work	1109.03, C
P		for extra work	1109.03, B
Pad mounted cabinet, lighting	4185.07, A, 12	force account basis	1109.03, B, 2
Pads, bearing	4195	measurement	1109.01
.....	4190.03	partial	1109.05
Paint, traffic	4183	responsibility for	1109.09
Painting. See specific work.		scope of	1109.02
Panel bolts, sign	4186.09	Penetration of piles	2501.03, O
Panels, sign	4186.02	Pentachlorophenol	4161.03
Partial depth finish patches	2530	Permits, licenses, and taxes	1107.03
Partial payments	1109.05	Personal liability of public officials	1107.16
Patches--base repair		Photoelectric control	4185.06
full depth repair	2212.03, B, 2, b	Pile	
partial depth repair	2212.03, B, 2	bents--timber structures	2409.03, F
surface	2212.03, B, 2, c	encasement	2501.03, F, 2
Patches--finish		heads, treatment	2409.03, D
full depth finish	2529	loading tests	2501.03, M, 3
partial depth finish	2530	Piles	
Patented devices, materials, and processes	1107.04	bearing value	2501.03, M
Paved invert--corrugated pipe	2417.02	concrete	2501.03, D
Paved shoulders	2122	concrete bearing	2501.03, G
fillet	2121.03, D	concrete sheet	2501.02, G
Pavement PCC		determination of length	2501.03, M
cracking and seating	2216	falsework	2403.03, L, 3
slipform	2301	2408.03, L
standard	2301	increased or decreased	
vibrator		length or size	2501.05, A
monitoring	2301.03, A, 3, a, b, a, 6	preparation of, wood	2501.03, J
		sheet--steel	2501.03, G
		steel	4167
		substructures	2405.03, L
		test	2501.03, C

INDEX

timber	4165	Plates, bars and	2408.02, E
trestle	2501.03, I	Plates, bent	2408.02, F
<u>Item</u>	<u>Reference</u>	<u>Item</u>	<u>Reference</u>
materials	4165.05	Plates, structural	2420
Piles and Pile Driving	2501	Pneumatic tired rollers	
Pilot and driving nuts	2408.02, O	pull type	2001.05, D
Pilot cars	2528.03, D	self propelled	2001.05, C
Pin clearance	2408.03, H	Pole mounted cabinet	4185.07, A, 11
Pin holes, boring	2408.02, M	Poles	
Pin nuts, adjustment of	2408.03, U	aluminum	4185.02, F
Pins and rollers	2408.02, D	and mastarms	4185.02, C
Pipe. See also specific type.		and supports	4185.02
arches	2420	steel	4185.02, E
piling	2501.03, E	wood	4185.02, G
railings	2414.02, B	Pollution	1107.07
Pipeline notification	1107.15	Pollution control--water (soil erosion)	2602
Placement of backfill material 2102.03, D, 3, c		Polyethylene	
Placement of fill in streams and		culverts	2417
water bodies	1105.13	insulated cable	4185.12, A, 1
Placement of selected or special		Polymeric coating	4141.02, A, 1
backfill	2102.03, F, 2, d, 1	Porous Backfill Material	4131
Placement of surplus material	2102.03, G	Portable Changeable Message	
Placing concrete		Signs	2528.03, B
pavement	2301.03, F	measurement	2528.04, A, 2
structural	2403.03, C	payment	2528.05, A, 2
Placing reinforcement	2404.03, D	Portland Cement	4101
Plan quantities	1109.01, A, 2	Portland Cement Concrete Base	2201
Plank Decks	2410	Portland Cement Concrete Curb	
Plans	1105.02	and Gutter	2512
alteration	1109.16, C, 1	Portland Cement Concrete Pavement	2301
conformity with and coordination of		rubbleizing	2217
contract documents	1105.04	Portland Cement Concrete Pavement	
intent of	1104.01	Widening	2302
working drawings	1105.03	Portland Cement Concrete Sidewalks	2511
Plant		Post clip bolts	4186.09
calibration--HMA	2001.22, N	Posts	
calibration--PCC	2001.22, A, 2	and timbers	4162.05, B
certified inspection	2521	fence	4154
equipment--HMA	2001.22, F	guardrail	4155
equipment--PCC	2001.21	signing	4186.10
establishment period	2610.03, I	traffic control	2528.03, A, 7
materials	4170	treated wood	4164
Planting	2610.03, E	Post tensioned concrete	2407.03, I
Plants, shipment of	4170.08	Power cable	4185.12
Plastic		Impact wrenches	2408.03, S, 5, a, 8
conduit	4185.10, D	Prebored holes, piling	2501.03, Q
netting	4169.09	Precast	
pipe	4146	box culverts	2415.01, B
sanitary sewer	4149.02, A	concrete sewer structures	4149.04
storm sewer	4149.03	noise wall	2436
water main	4150.02, A, 1	Precast and Prestressed Concrete	
Plastic Film for Subgrade Treatment	4107	Bridge Units	2407
Plastic film and insulating covers for		Precast, Prestressed, Concrete	
curing PCC	4106	Deck Panels	2425
Plate girders	2408.02, J	Preconstruction conference	1108.02, L

INDEX

Pre-Engineered Steel Truss Recreational Trail Bridge.....	2429	Provisions for drainage	2102.03, H
<u>Item</u>	<u>Reference</u>	Pruning.....	2610.03, C
Preformed		<u>Item</u>	<u>Reference</u>
elastomeric joint seal.....	4136	Public convenience and safety.....	1107.08
expansion joint filler.....	4136.03	Public officials, liability of.....	1107.16
polymer tape	2527.02, D, 7	Public opening of proposals	1102.14
Preinoculated seed	2601.03, B, 4, e, 3	Public utilities	1107.15
Premolded resilient filler--decks	2412.03, H	Pull posts	
Preparation of proposals	1102.09	chain link fence	2519.03, B, 2, g
Preparation of sod for grading.....	2105.03, A	field fence.....	2519.03, A, 3
Preparation of subgrade, base		Pulverizing equipment.....	2001.17
widening	2213.03, E	Punched holes	2408.02, L, 2
Preservative Treatment.....	4161	Pure-live-seed basis.....	4169.02
Presplitting and Production Blasting			
of Rock Slope Cuts	2103	Q	
Pressure grouting pavement	2539	Qualification of bidders.....	1102.01
Prestressed concrete beams, high		Qualification of welders	2408.13
performance concrete (HPC)		Quality index. See specific type of work.	
aggregates	2407.02, A, 1	Quality Assurance Program	2303.03, D
construction.....	2407.03, B, 4	sampling and testing	2303.03, D
Prestressed concrete units.....	2407	production plant	2303.03, D
Prestraining steel.....	4151.05	JMF working ranges.....	2303.03, D, 3, c
stresses	2407.03, a	Quality Control--Small HMA	
Prewetting equipment	2001.08	Paving Quantities	2303.03, E
Price adjustment	1109.03, A	Quality, water	1105.13
deficient work	1109.03, C	Quantities, increased or	
material or work not in reasonably		decreased	1104.03
close conformity	1105.04	Quantities, measurement of	1109.01
Primary service ducts.....	2523.03, N, 2, C		
Production blasting, rock		R	
slope cuts	2103.03, C	RAP.....	2303.02, C
Production limits, producer's	1106.01, B	Railings	2414
Profiled marking tape	2527.02, D, 9	Railroad Approach Sections.....	2517
Profilograph.....	2316.02, B, 2317.02, A	Railroad crossings.....	1104.10
Progress of the work	1108.02, K	Rails	
Progress scheduling.....	1110	chain link fence	4154.10
Proof rolling subgrade	2301.03, B, 3, c	supplementary	2301.03, A, 3, a, 3
Proportions--PCC pavement .	2301.03, B, 3, c	temporary barrier	2528.03, E
Proportions--structural concrete....	2403.02, B	Rain, protection of pavement	2301.03, K, 4
Proposal		Rapid curing asphalt	4138.01, A
filing.....	1102.12	Ready mixed concrete	2301.03, K, 4
form	1102.04	mixers	2001.21, C
guaranty	1102.11	Reaming.....	2408.02, N
irregular	1102.10	Reasonably acceptable.....	1105.04, E
issuance	1102.05	Reasonably close conformity	1105.04
preparation	1102.09	Rebuilding embankments.....	2107.03, L
withdrawal of	1102.13	Rebuilding shoulders.....	2213.03, J
Proposal Requirements and Conditions..	1102	Recall	1102.19, B, 6
Prosecution and Progress.....	1108	Reclamation, full depth.....	2116
Prosecution of work.....	1108.02	Reclaiming Present Surfacing Material...	2126
Protection. See specific type of work.		Recognized laboratory	4103.01, A, 1
and restoration of property.....	1107.11	Reconstruction of Roadbed.....	2127
trees and shrubs	2610.03, A	Recycled Asphalt Pavement	2303.02, C
water quality and wetlands.....	1105.13		

INDEX

Reduction in bidder qualification		Requirement of contract bond.....	1103.05
restrictions.....	1102.02	Reseeding	2601.03, E
	<u>Item</u>		<u>Reference</u>
Refertilizing	2601.03, E	Reshaping Ditches	2125
Reflectoring Spheres for Traffic Paint ..	4184	Resilient joint filler	4136.03, A
Rehire.....	1102.19, B, 7	Resistance measurements,	
Reinforced bridge approach		lighting.....	2523.03, U
sections.....	2301.03, R	Responsibility for damage claims	1107.12
Reinforcement		Responsibility for payment.....	1109.09
bridge decks.....	2412.03, B	Restoration	
culverts		borrow	2102.03, F, 4
cast-in-place.....	2415.03, B, 2, c	final cleaning up	1104.08, B
pipe	4145.06	property.....	1107.11
PCC Pavement	2301.03, E	surfaces opened by permit.....	1107.05
Precast and prestressed		Restrictions. See also specific type of work.	
concrete	2407, E	moving and use of heavy	
structures	4151.03	equipment	1105.11
Release by the Engineer.....	1107.12, C	tractors with lugs	2001.01, C
Release of pretensioned		Retaining walls	2516
reinforcement	2407.03, H	modular block.....	2430
Remediation, soil.....	2537	segmental	2431
Remodeling structures	2401.03, B	mechanically stabilized	
Removal and construction of		earth (MSE).....	2432
guardrail	2505	Retarder. See Admixtures	
paved driveways	2515	Retention dams	1107.07, C
PCC sidewalk.....	2511	Retention of preservative	4161.03
retaining walls and steps.....	2516	Retroreflective sheeting	4186.03
Removal of		Return of proposal guaranty	1103.03
anchor lugs	2510.01	Requirement of contract bond.....	1103.05
asbestos.....	2536	Revetment.....	2507
boulders	2102.03, C	Revetment Stone	4130
buildings	2538.03, D, 6	Ribbed bolts	2408.02, C
cofferdams	2402.03, E	Right-of-way	
concrete and masonry	2401.03, F	available to Contractor	1104.09
curb, base widening	2213.03, C	materials found on	1104.07
curb, pavement	2514	Rigid conduit	4185.10
defective work	1105.08	Rigid Pipe Culverts	2416
excavated material.....	2402.03, G	Roadbed correction	
existing structures	2401	soil aggregate subbase.....	2110.03, B
flumes paved driveways.....	2515	Roadbed, reconstruction of	2127
pipe culverts.....	1104.06, B	Roadside Development.....	Div. 26
retaining walls	2516	Roadway	
sidewalks	2511	and borrow excavation.....	2102
steel	2401.03, E	cover aggregate	2307
steps	2516	luminaires.....	2523.03, K
structures and obstructions.....	1104.06	Rock cuts	2102.03, E
substructures	2401.03, C	Rock slope cuts, presplitting and	
superstructures	2401.03, B	production blasting.....	2103
underground tanks	2537	Rock fills.....	2107.03, J
unsuitable or unstable soil	2102.03, D	Rocker bearings, setting	2408.03, W
Remulching	2601.03, E	Rodent guard--subdrains	4143.03, B, 4
Replacement of		Rods	
erosion control	2601.03, R	for splicing fence	2519.03, A, 7, a
plant materials.....	2610.03, I	ground--fence.....	2519.03, B, 5
Request for proposal forms.....	1102.05	ground--light.....	4185.04

INDEX

Rollers	2001.05	HMA plants	2001.22
expanded mesh.....	2601.03, A, 6, d	PCC plants.....	2001.20
<u>Item</u>	<u>Reference</u>	<u>Item</u>	<u>Reference</u>
restrictions on use	2303.03, B, 3	weighing equipment.....	2001.07
Rollers, pins and	2408.02, D	Scarifying equipment.....	2001.16
Rotary brooms.....	2001.14	Scarifying pavement.....	2214
Rotary tiller	2601.03, A, 4	Schedule of staging.....	1108.02, J
Rough bolted connections.....	2408.02, C	Scheduling, progress	1110
Rough dimensions--timber and		Scope of payment	1109.02
lumber	4162.03	Scope of Work.....	1104
Round wood posts	4164.02	Seal coat	
Route markers, 6 inches by 6		bituminous.....	2307
inches.....	2524.03, A, 3	Seal courses	
Rubblizing existing Portland cement		foundations and	
concrete	2217	substructures	2405.03, B
Runout ditches	2102.03, H, 2	structural concrete	2403.03, J, 5
Rust.....	2404.03, A	Sealers, joint fillers	4136
		Sealing. See specific type of work.	
S		Seedbed preparation.....	2601.03, B, 4, a
Safety		Seeding	2601.03, B
closure.....	2518	aerial	2601.03, A, 12
edge	2305	special ditch control	2601.03, J
fence for pavement	2301.03, L	Seeds	4169.02
heater scarification	2309.03, G	Segmental Retaining Wall.....	2431
health, pollution, and sanitation..	1107.07	Selected backfill material	2102
material bins.....	2001.06, C	measurement	2102.04, A, 3
pavement scarification	2214.03, D	payment	2102.05, A, 3
public convenience and.....	1107.08	placement	2102.03, D, 3, c
requirements--HMA plants	2001.22, M	Selective saving--plants	2101.05
sampling locations.....	1107.07, B	Self locking nuts	4190.02, B, 4
Sales tax	1109.07	Setting	
Savage, removal and disposal		anchor bolts	
of obstructions.....	2538	steel structures.....	2408.03, V
Salvage, archaeological	2102.03, J	substructures	2405.03, H
Salvaging topsoil	2105	forms	2301.03, C
Samples		posts--chain link fence	2519.03, B, 2
HMA		posts--field fence.....	2519.03, A
measurement	2303.04, H	rocker bearings	2408.03, W
payment	2303.05, H	Sewer Pipe and Manhole Materials	4149
PCC		Sewers	
measurement	2301.04, a	sanitary	2504
payment	2301.05, a	storm	2403
Samples and tests.....	1106.02	structures	2435
Sampling and testing		Shaft--concrete drilled.....	2433
methods	4100.04	Sheathing	4162.07
safety.....	1107.07, B	Sheet	
Sample delivery.....	2534	aluminum	4186.02, A
Sand cover	4125	piles.....	2501
Sand spreader.....	2001.13, C	Sheeting, retroreflective	4186.03
Sanitary Sewers	2504	Shelter--structural concrete.....	2403.03, C, 4
structures	2435	Shipment, of plants	4170.08
Sanitation	1107.07, A	Shipments, liquid bituminous	
Sawed wood posts	4164.03	materials.....	4100.03, B
Scales		Shipping structural steel.....	2408.02, R
		Shoe, joint matching.....	2001.19

INDEX

Shop		Slump. See specific type of work.	
assembly	2408.03, C	Smoothness, pavement	2316
<u>Item</u>	<u>Reference</u>	<u>Item</u>	<u>Reference</u>
drawings	1105.03	primary interstate	2317
highway lighting	2523.03, B	Smoothness, bridge decks and bridge	
signing	2524.03, A, 1, b, 2, c	deck overlays	2428
steel structures	2408.03, A	Sod	4169.07
tower lighting	2408.03, A	shredding for grading	2105.03, A
erection	2408.03, J	Sodding	2601.03, F
inspection	2408.02, P	Sodium chloride	4194.02
painting	2408.02, Q	Sodium lamps	4185.03
storage of materials	2408.03, S	Soil	
Shotcrete	2424	cohesive	2102.02, D, 1, a
Shoulders		granular	2102.02, D, 1, b
earth	2123	remediation	2537
fillet, granular	2121.03, D	suitable for embankment	2102.02, D, 2
granular	2121	unsuitable for	
material, furnish and apply	2128	embankment	2102.02, D, 3
paved	2122	Soil aggregate subbase	2110
pavement widening	2302.03, F	Soil, erosion	2602
measurement	2302.04, D	Solid white barrier lines	2527.03, D, 9
payment	2302.05, D	Source of supply and quality	
rebuilding--base widen	2213.03, J	requirements	1106.01
Shrubs	2610	Southern pine--timber and lumber	
with warranty	2611	treated	4163
Sidewalks	2511	untreated	4162
removal	2511	Spacer blocks, guardrail	4155.06
Sight conditions, differing	1109.16, A	Special	
Sign		backfill material	4132
letters, numerals, symbols		measurement	2102.04, A, 4
and borders	4186.06, C	payment	2102.05, A, 4
posts, Types A and B	2524.03, B	placement	2102.03, D, 3, c
measurement	2524.04	compaction of subgrade	2109.03, C
payment	2524.05	measurement	2109.04, B
posts--traffic control	2528.03, A, 7	payment	2109.04, B
posts, wood	4164.04	ditch control	2601.03, H
Significant change in character of		fittings--fence	4154.11
work	1109.16, C	seed	2601.03, B, 4, d
Signing, highway	2524	surface finish--structural	
Signing Materials	4186	concrete	2403.03, P, 2, c
Signs		treatment--wood posts	4161.03, B, 3
traffic	2524.03, A, 1	Specialty items	1108.01, A
traffic control	2528.03	Specific intensity	4186.11, B
Type A	2524.03, A, 1, b, 1	Specifications, conformity with	1105.04
Type B	2524.03, A, 1, b, 2	intent of	1104.01
warning	1107.09	Specified starting date	1108.02, C, 1
Silt basins, silt dikes, silt ditches, silt		Spheres, reflectorizing	4184
fence, and silt fence for		Spike tooth harrow	2601.03, A, 5
ditch checks	2602	Spiral reinforcement	4151.03, A
Single conductor wire and cable	4185.12, A	Splices	
Single plank decks	2410.03, B	field fence	2519.03, A, 7
Skewed - arch spans	2420.03, E	lighting	2523.03, S
Slip form concrete pavement	2301.01, B	piles	2501.03, P
Slope protection	2601.03, H	reinforcement	2404.03, F
Slow curing asphalt	4138.01, A	Spreaders	2001.13

INDEX

Spreading topsoil2105

<u>Item</u>	<u>Reference</u>
Stabilizing crop seeding and	
fertilizing	2601.03, C
measurement	2601.04, A
payment	2601.05, A
Staging, schedule of.....	1108.02, J
Stakes, construction.....	1105.15
Stakes for holding sod.....	4169.09
Staking	
and guying material.....	4170.09, C
plants.....	2610.03, F
sod flumes and ditch	
canals.....	2601.03, F, 3, c, 4
Standard concrete pavement.....	2301.01, A
Standard subdrains	2502.03, A
materials.....	4143.01, C
measurement	2502.04, A
payment	2502.05, A
Standardized contract clauses	1109.14
differing site conditions.....	1109.14, A
significant change in the character	
of work.....	1109.14, C
suspension of work	1109.14, B
Staples	
fence	4154.06
for special ditch control	4169.09, A
Starting date	
approximate	1108.02, C, 2
late	1108.02, C, 3
specified.....	1108.02, C, 1
Stationary mixer	2001.21, B
Steam hammers.....	2501.03, A, 2
Steel	
assembling	2408.03, Q
beam guardrail	4155.02
castings	4153.03
galvanized.....	4100.07, A
cold finished	4153.02
conduit.....	4185.10, B
for prestressing	4151.05
forgings	4153.01
galvanized--sign	4186.02, B
H-piles	2501.03, F
identification	2408.02, B
miscellaneous	4153
piles.....	4167
pipe	4153.05
pipe piles	2501.03, F
poles--light.....	4185.02, E
posts	
braces, and rails.....	4154.08
guardrail	4155.05
line	4154.09

sign4186.10
 traffic control 2528.03, A, 7

<u>Item</u>	<u>Reference</u>
railings.....	2414
reinforcement	4151
removal of	2401.03, E
sheet piles.....	2501.03, G
structural	4152
structures	2408
tired rollers	2001.05, B
truss bridge--pre-engineered	2429
Steps, manhole	4149.04, L
Sticking agent.....	2601.03, B, 4, e, 5
materials	4169.05
Stockpiles. See specific type of work.	
Stone revetment.....	4130
Storage. See also specific type of work.	
HMA	2001.22, L
Stored materials, partial	
payment	1109.05, A, 2
Storm Sewers.....	2503
pipe for	4149
structures	2435
Straightening and straightness. See specific material.	
Strands, deflected	2407.03, G, 9
Strands, release of	2407.03, H
Straw mulching machine.....	2601.03, A, 13
Strength. See specific material.	
Strengthening courses	2303.03, C, 7, a
Stress relieving.....	2408.02, I
Stresses, prestressing.....	2407.03, G
Stretching fence	
barbed wire	2519.03, A, 6
field fence.....	2519.03, A, 5
Stringers.....	2409.03, J
Strip-down surface finish.....	2403.03, P, 2, D
Stripping and Removal of	
Unsuitable Material	2312.03, E
Stripping, Salvaging, and Spreading	
Topsoil.....	2105
Structural	
panels, Type B signs.....	4186.02, D
plates for pipe, pipe arches, and arches.....	4144
plate pipes, pipe arches, and	
arches	2420
reinforcing	2404
steel	4152
steel railings	2414
timber and lumber	
treated.....	4163
untreated.....	4162
Structural Concrete	2403
air content	2403.02, B, 3
bonding	

INDEX

Test strip		rollers	2001.05, E
(HMA pavement)	2303.03, C, 5, b, 4	subdrain	2502.03
<u>Item</u>	<u>Reference</u>	<u>Item</u>	<u>Reference</u>
Thermoplastic wire and cable	4185.13, C	Trenchless Construction	2553
Thrie beam rail	4155.02, B	Trencher, mechanical.....	2601.03, A, 15
Tie wire-fence	4154.05	Trestle piles.....	2501.03, I
Tile, drain	4143.03, C	material	4165.05
Tile lines, locating.....	2102.03, H, 3	Truck mixer and agitator	2001.21, C
Tiller	2601.03, A	Trucks--bituminous mixtures	2001.03
Timber and lumber		Tying reinforcement	2404.03, D, 2
treated	4163	decks.....	2412.03, B, 2
untreated	4162	Type	
Timber Piles	4165	A compaction	2107.03, E
Timber Structures.....	2409	A sign posts	2524.03, B
Time for opening pavements.....	2301.03, 4	A signs	2524.03, A, 1, b, 1
earth shoulders	2123.03, B, 8	B compaction	2107.03, F
Time limits for final adjustment.....	1109.12	B sign posts	2524.03, B
Time, mixing		B signs	2524.03, A, 1, b, 2
HMA	2303.03, C, 3, d, 5	L-1 connectors	4185.11, D
PCC.....	2001.21	L-2 connectors	4185.11, E
Topsoil		Y-1 connectors.....	4185.11, A
for installing plant materials..	4170.09., A	Y-2 connectors.....	4185.11, B
stripping, salvaging, and		Y-3 connectors.....	4185.11, C
spreading	2105		
Torque wrench	2408.03, S, 5, c	U	
Tower lighting	2522	Unacceptable materials.....	1106.04
Traffic control	2528	Unauthorized work	1105.09
Traffic control devices	2528.03	Unclassified Pipe Culverts	2422
Traffic, opening sections to	1107.13	Unexpected rock excavation	
Traffic paint	4183	earthwork	2102.05, A, 1, f
Traffic signalization		structures	2402.05, E
controller	2525.03, E	Underground ducts.....	2523.03, N, 2
detector loops.....	2525.03, F	Underground tanks.....	2537
handholes.....	2525.03, B	Undersealing pavements	2539
signals	2525.03, G	Underwater placement	
signal supports	2525.03, H	equipment	2403.03, B, 2
temporary	2528.03, G	Units of aggregate, sampling	4100.05
Traffic signs.....	2524.03, A, 1	Unsuitable or unstable soil	
Trainee	1102.19, B, 9	removal	2102.03, D
Transformer base, material	4185.02, D	use of	2107.04, N
Transverse		Untreated Timber and Lumber	4162
pavement marking.....	2527.03, D, 7	Untreated timber piles	4165.03
Treated Timber and Lumber	4163	Urban seeding.....	2601.03, B, 4, J
Treated Wood Posts	4164	Use of	
Treatment of treated wood		explosives	1107.10
piles.....	2501.03, I, 5	materials found on the	
Treatment preservative	4161	right-of-way	1104.07
Tree wrap	4170.09, E	Use tax paid	1109.07
Trees, protection of	2102.03, I	Utilities, public	1107.15
Tremie	2403.03, B	Utility companies, highway	
Trench		lighting.....	2523.03, C
bottom, compacting.....	2107.03, M	Utility property and services	1107.15
drains	2502.03, B		
Excavation and Backfill	2553	V	
excavating machines.....	2001.18		

INDEX

Valves, water mains2555
Item Reference
 Value engineering proposal 1105.14
 Vertical panels..... 2528.03, C, 1, b
 Vibration of structural concrete 2403.03, D
 deck overlays2413.03, E, 2, i
 Vibrators for pavement.. 2301.03, A, 3, a, 6, a
 Vibratory compactor--
 subdrains..... 2502.03, C, 7
 Vibratory rollers2001.05, F
 Volumetric proportioning--PCC 2001.20, E

W

Waiver of damages due
 to delays 1108.02, C, 2
 Waiver of legal rights, no..... 1107.17
 Walls
 modular block retaining2430
 segmental retaining.....2431
 mechanically stabilized earth (MSE)
 retaining2432
 Walls and steps.....2516
 Warning lights2528.03, F
 Warning signs 1107.09
 Washers
 aluminum 4190.02, C
 high strength fasteners 4153.06, B
 signing.....4186.09
 timber structures 4153.07, B
 Water
 calcium chloride application2314
 cement ratio. See specific mixture.
 distributors2001.09
 embankments,
 measurements 2107.04, B, 6
 jets 2501.03, A, 9
 payment 2107.05, A, 6
 pollution control2602
 supply equipment.....2001.10
 washing--PCC
 pavement 2301.03, A, 3, f
 washing--structural
 concrete 2403.03, C, 2
 Watering
 haul routes 1107.07, E
 plants 2610.03, E, 6
 sod2601.03, F, 3, e
 special ditch control2601.03, Q
 Water Mains, Valves,
 and Appurtenances2555
 Water quality and wetlands 1105.13
 Weather restrictions. See specific type of
 work.

Web stiffeners 2408.02, J, 2
 Weekly report of working days 1108.02, H
Item Reference
 Weighing equipment and
 procedures2001.07
 HMA2001.22
 PCC2001.20
 Welding
 iron castings..... 4153.04, C
 pipe reinforcement 4145.06, C
 prestressed concrete
 reinforcement 2407.03, C
 steel piles4167.01
 steel structures..... 2408.03, B
 support structures 2423.03, B
 tower lighting 2522.03, D
 Welds, temporary--bridge
 decks..... 2412.03, A, 2
 White
 fast dry traffic paint.....4183.03
 pigmented curing compounds....4105.05
 Wick Drains 2112
 Winter seal
 Aggregate 2307.02, A, 1
 base widening2213.03, I
 Winter work1108.02, F
 Wire
 and cable4185.12
 barbed4154.04
 fence4154.02
 mesh reinforcement4151.04
 staples, fence.....4154.06
 staples, special ditch
 control 4169.09, A
 tie and brace4154.05
 Withdrawal of proposal 1102.13
 Wood
 excelsior mat 4169.09, B, 1
 decks
 laminated2411
 plank2410
 piles.....4165
 poles, lighting 4185.02, G
 posts
 fence4154.07
 guardrail4155.04
 round.....4164.02
 sawed4164.03
 sign4164.04
 treated.....4164
 railings
 materials 2414.02, C
 construction 2414.03, C
 Wood Preservatives4160
 Work

INDEX

accelerated schedule	1108.02, D
alteration of, character of	1109.16, C
<u>Item</u>	<u>Reference</u>
cancelled	1109.04
completion of--erosion	
control	2601.03, R
Contractor's responsibility for.....	1107.14
control of	1105
defective	1105.08
deficient.....	1109.03, C
extra	1104.04
failure to complete.....	1108.09
inspection of.....	1105.07
interrupted	1109.06
payment for	1109.03
progress	1108.02
progrcess scheduling	1110
prosecution of.....	1108.02
significant change	1109.16, C
special	1104.02
temporary suspension of.....	1108.06
unauthorized	1105.09
winter.....	1108.02, F
Working day	
charging	1108.02, E
weekly report.....	1108.02, H
Working drawings.....	1105.03
Workers, character of.....	1108.05

Y

Yellow	
fast dry traffic paint.....	4183.03

Z

Zinc	
coating, testing	4100.06
coatings, galvanizing.....	4100.07
rich paint.....	4182.02

