

INDEX

A

Abandoning miscellaneous structure	96
Abandoning pipes and structures	98
Abandoning wells	98
ABS drainage pipe	389
Acceptance of plant materials	446, 453
Acceptance of secondary fabrication items	277
Acceptance of work	
Final	83
Final acceptance	42
Partial acceptance	42
Substantial completion	42
Acronyms	14
Active voice-imperative mood	14
ACZA wood preservative	293
Addenda, definition	16
Adjusting catch basin, manhole and inlet covers	388
Adjustment, definition	16
Admixtures for concrete	
Air-entraining	213, 222
Dispensing equipment	226
Proportioning	223
Retarding	214, 222
Water-reducing	214, 222
Adverse weather day, definition	16
Adverse weather days	71
Advertisement, definition	16
Affiliated, definition	16
Aggregate base course	133
Aggregate gradation	See Gradations
Aggregate, coarse	216
Aggregate, definition	133, 133
Aggregate, fine	215
Aggregates for	
Asphaltic base	147
Concrete	215
Granular backfill	121
HMA pavements	193
Mineral filler	182
Mortar	216
Seal coat cover	208
Slope Paving	373
Structure backfill	123
Agricultural limestone treatment	433
Air hammers for pile driving	301
Air pollution control rules on open burning	87
Air-entraining admixtures for concrete	213
Alleys, concrete	162
Altered quantities	77
Aluminum	
Apron endwalls	355
Coated steel culvert pipe	360
Pipe culverts	355
Railing	323
Reference monuments	413
Sign bridges	482
Ammoniacal copper arsenate wood preservative	293
Anchor bars for concrete barrier	370
Anchor bolts for railings	322
Anti-desiccant for plant materials	450
Antistripping additives for asphalt	194
Antistripping additives for asphalt mixes	194

INDEX

Antitrust assignment clause	59
Approach slab, concrete pavement	162, 172
Approved product lists	48
Apron endwalls	
Aluminum	355
Culvert pipe	345
Reinforced concrete	352
Salvaged	354
Arch, structural plate pipe	357
Archeological and historical findings	60
Arrow boards	490
Asphaltic	
Asphaltic concrete pavement	See HMA pavement
Base and base widening	147
Base patching	157
Binders	194
Concrete curb	206
Flumes	206
Pavement, base	147
Pavers	183
Recycled pavement materials	194
Rumble strips	206
Salvaged pavement	210
Salvaged pavement, base	142
Seal coat	208
Asphaltic binder, definition	181
Asphaltic materials	
Certification and acceptance	188
Dampproofing	329
MC, SC, and Emulsified Asphalts	188, 188, 188, 189
PG asphalts	188, 188, 188
Recovered asphaltic binder from recycled materials	194
Tack coat	189
Volume-temperature correction	190, 190
Asphaltic mixing plant	
Batch	182
Assemblies, bearing	275
Assignment of the contract	62
Authority and duties of	
Contractor's superintendent	41
Inspector	41
Project engineer	41
Automatic batching plants for asphaltic mix	182
Automatic batching plants for concrete mix	225
Auxiliary lane, definition	16
Award, cancellation of	27
Award, definition	16
B	
Backfill, granular	121
Backfill, structure	123
Backfilling	
Concrete sidewalks	368
Drainage structures	385
Excavation below subgrade	103
Pipe arch and structural plate pipe	358
Pipe culverts	347
Pipe underdrains	391
Plant materials	450
Storm sewers	380
Structures	117, 112
Trenches	94
Bales, erosion	422, 425
Balled plant stock	446
Bar chart progress schedule	63

INDEX

Bar steel reinforcement	264
Barbed wire	402
Bare root plant stock	446
Barricades	53, 489
Barrier, concrete	370
Bars, dowel	266
<u>Base</u>	
Asphaltic	147
Concrete	148
Dense Graded	139
Open graded	143
Salvaged	142
<u>Base aggregate</u>	
Compaction	137, 137
Dense graded	139
Open graded	143
Physical properties	136
<u>Base aggregate classifications</u>	
Blended material	134
Crushed concrete	134
Crushed stone or crushed gravel	134
Reclaimed asphaltic pavement	19
Reprocessed material	133
<u>Base camera pole</u>	571
<u>Base ITS controller cabinet</u>	571
<u>Base patching</u>	157
<u>Base, definition</u>	16
<u>Bases</u>	
Concrete	532
Control cabinet	532
Pedestal	295
<u>Batch mixer for site-mixed concrete</u>	229
<u>Beams</u>	
Prestressed concrete	255
Steel	270
Timber	291
<u>Bearing assemblies</u>	275
<u>Bearing pads</u>	273
<u>Bearing plates, lubricated bronze</u>	271
<u>Bearing values</u>	
Cast-in-place piling	313
Steel piling	317
Timber piling	303
<u>Bed for pipe culverts</u>	345
<u>Bed for storm sewers</u>	378
<u>Benches in embankment</u>	235
<u>Bidder</u>	
Competency	22
Definition	16
Disqualification of	26
Right to nullify	28
<u>Bidding</u>	
Bid bond	25
Bid, definition	16
Bidding proposal content	22
Bidding proposal, definition	16
Bidding requirements and conditions	22
Interpreting bid proposal quantities	23
<u>Black paint for wood</u>	333
<u>Blankets, concrete curing</u>	246
<u>Blast cleaning of metal</u>	335, 288
<u>Block masonry</u>	343
<u>BlueBook for equipment expense rates</u>	79
<u>Bolt holes for steel bridges</u>	278
<u>Bolts for</u>	

INDEX

<u>Anchors, railings</u>	322
<u>Sign bridges</u>	480
<u>Structural steel</u>	272
<u>Timber rail guard fence</u>	400
<u>Timber structures</u>	294
<u>Bond, bid</u>	25
<u>Bond, contract</u>	27
<u>Borrow</u>	
<u>Excavation</u>	118
<u>Pit cleanup</u>	118
<u>Pit seeding</u>	441
<u>Boulders, disposal of</u>	106
<u>Boxes, junction and pull</u>	530
<u>Breaker run</u>	144
<u>Breaker run, definition</u>	133
<u>Brick masonry</u>	343
<u>Bridge deck crack and surface sealing</u>	251
<u>Bridge, definition</u>	16
<u>Bridges</u>	
<u>Concrete</u>	233
<u>Over navigable water</u>	58
<u>Removal</u>	92
<u>Sign</u>	480
<u>Steel</u>	270
<u>Timber</u>	291
<u>Bronze bearing plates, lubricated</u>	271
<u>Bronze castings</u>	271
<u>Brown stain for wood</u>	334
<u>Building removal</u>	97
<u>Bureau, definition</u>	16
<u>Burning, open</u>	87
<u>Business day, definition</u>	16
<u>Buy American</u>	47
<u>By-Product Materials</u>	135

C

<u>Cable, electrical</u>	534
<u>Calcium chloride for dust control</u>	415
<u>Calendar day contracts</u>	70
<u>Calendar day, definition</u>	16
<u>Camber in steel bridges</u>	278
<u>Cameras</u>	583
<u>Cancellation of award</u>	27
<u>Cancellation of contract</u>	27
<u>Carbon steel shafting</u>	271
<u>Carbon steel, structural</u>	270
<u>Cast aluminum railing posts</u>	321
<u>Castings, bronze</u>	271
<u>Castings, steel</u>	270
<u>Cast-in-place concrete piling</u>	312
<u>Catch basins</u>	
<u>Abandoning</u>	98
<u>Adjusting covers</u>	386
<u>Constructing</u>	385
<u>Reconstructing</u>	386
<u>Removing</u>	97
<u>Cattle pass</u>	
<u>Pipe</u>	345
<u>Reinforced concrete</u>	350
<u>CCA wood preservative</u>	293
<u>Cement, portland</u>	
<u>Certification acceptance</u>	213
<u>Handling and proportioning</u>	222, 223
<u>Types</u>	213
<u>Weighing equipment</u>	225

INDEX

Central mixed ready-mix concrete	226
Certificate of compliance, definition	16
Certification of	
Portland cement	213
Precast concrete plants	49
Prestressed concrete plants	256
Secondary fabrication items	277
Certified report of test or analysis, definition	17
Chain link fence	402
Change orders	
Definition	17
For differing site conditions	29
For eliminated bid items	30
For engineer-ordered suspensions	29
For extra work	29
For revisions to contract time	30
For significant changes in the character of the work	30
Pending	82
Channels, streams, and waterways	113
Character of work, significant changes	30
Character of workers	68
Checks, ditch	375
Chert	216
Chromated copper arsenate wood preservative	293
Claims process	
Alternate dispute resolution	44
Claim content	43
Claim submission	43
Notice of claim	43
Review by the bureau	44
Review by the Region	44
Review panel	45
Claims, damage and tort	55
Classes of concrete	219
Clean outs for concrete forms	237
Cleaning	
Culvert pipes	347
Drainage structures	387
Sediment basins	426
Storm sewers	380
Cleanup of	
Borrow pits	118
Pits and quarries	35
Project site	35
Clear protective coating	252
Clearing and grubbing	86
Clearing, roadside	90
Closing culvert pipes	98
Closing culverts	93
Coal-tar	
Creosote solution	293
Pitch	294
Coarse aggregate for concrete	216
Coarse aggregates, definition	215
Coated high strength bar steel	264
Cofferdams	110
Cold weather construction of	
Concrete	231
Concrete bridges	248
Concrete curb and gutter	364
Concrete pavement	168
Cold-dip treatment for wood posts	399
Collars for driving timber piling	302
Collected and plantation grown plant materials	445
Colored concrete	160

INDEX

<u>Common excavation</u>	<u>102</u>
<u>Communication systems</u>	<u>586</u>
<u>Communication vault</u>	<u>573</u>
<u>Compaction methods and procedures</u>	
<u>Maximum density method</u>	<u>202</u>
<u>Ordinary</u>	<u>206</u>
<u>Special</u>	<u>116, 137</u>
<u>Standard</u>	<u>116, 137</u>
<u>Compensable delays</u>	<u>72</u>
<u>Competency of bidder</u>	<u>22</u>
<u>Completion date contract</u>	<u>70</u>
<u>Completion date, definition</u>	<u>17</u>
<u>Composite pipe storm sewer</u>	<u>378</u>
<u>Compost</u>	<u>447</u>
<u>Concrete</u>	<u>213</u>
<u>Admixtures</u>	<u>213</u>
<u>Aggregates</u>	<u>215</u>
<u>Bridges</u>	<u>233</u>
<u>Cement</u>	<u>213</u>
<u>Central-mixed, definition</u>	<u>226</u>
<u>Classes</u>	<u>219</u>
<u>Coloring</u>	<u>160</u>
<u>Composition of concrete</u>	<u>220</u>
<u>Crack repair</u>	<u>369, 180</u>
<u>Depositing underwater</u>	<u>240</u>
<u>Grades of</u>	<u>219</u>
<u>Handling materials</u>	<u>222</u>
<u>Inspection</u>	<u>228</u>
<u>Job mix</u>	<u>221</u>
<u>Masonry anchors</u>	<u>234, 251</u>
<u>Materials</u>	<u>213</u>
<u>Maturity</u>	<u>250</u>
<u>Mixing</u>	<u>226</u>
<u>Overlay</u>	<u>307</u>
<u>Pavement</u>	<u>162</u>
<u>Placing</u>	<u>230</u>
<u>Precast</u>	<u>49</u>
<u>Prestressed</u>	<u>49</u>
<u>Proportioning</u>	<u>220, 223</u>
<u>Protection in cold weather</u>	<u>231</u>
<u>Ready-mix</u>	<u>226</u>
<u>Shrink mixed, definition</u>	<u>226</u>
<u>Site-mixed</u>	<u>229</u>
<u>Slump</u>	<u>230</u>
<u>Test specimens</u>	<u>231</u>
<u>Transit-mixed, definition</u>	<u>226</u>
<u>Volumetric mixer</u>	<u>229</u>
<u>Water</u>	<u>214</u>
<u>Concrete alleys</u>	<u>162</u>
<u>Concrete apron endwalls</u>	<u>345, 350</u>
<u>Concrete barrier</u>	<u>370</u>
<u>Concrete base</u>	
<u>Foundation</u>	<u>125</u>
<u>General requirements</u>	<u>148</u>
<u>Patching</u>	<u>157</u>
<u>Shoulders adjacent to</u>	<u>140</u>
<u>Concrete bases</u>	<u>532</u>
<u>Concrete block masonry</u>	<u>343</u>
<u>Concrete brick masonry</u>	<u>343</u>
<u>Concrete bridges</u>	
<u>Application of loads</u>	<u>249</u>
<u>Clear protective coating</u>	<u>235</u>
<u>Cold weather protection</u>	<u>248</u>
<u>Composition of concrete</u>	<u>233</u>
<u>Compressive strength</u>	<u>250</u>

INDEX

Concrete masonry	251
Curing	245
Falsework	235, 238
Forms and forming	236
Handling and placing concrete	238
High early strength concrete	233
Joints	241
Materials	233
Maturity	250
Measurement and payment	252
Name plates	272, 250
Surface finish	242
Concrete control cabinet bases	532
Concrete corrugated median	411
Concrete culverts	262
Concrete curb and gutter	363
Concrete curing materials	
Burlap	219
Curing compound	219
Polyethylene sheeting	219
Polyethylene-coated burlap	219
Concrete deck overlay and repair	307
Concrete ditch checks	375
Concrete endwalls	262
Concrete landmark monuments	413
Concrete loading zones	366
Concrete masonry sign supports	462
Concrete pavement	
Ancillary	180
Approach slab	162
Approach slabs	172
Appurtenant construction	175
Cold weather paving	168
Compressive strength	170, 170
Crack repair	172, 174
Cracking and seating	154
Curing	167
Dowel bars	175, 175, 176
Formed	165
Foundation	125
Gaps	162, 162, 172
High early strength	162
Joints	165
Materials	162
Maturity	170
Measurement	173
Opening to service	169
Payment	173
Removing	96
Repair	177
Repair and replacement	176
Replacement	177
Rumble strips	177
Shoulders adjacent to	140
Slip-formed	164
Special High early strength	178
Stamping	167
Surface drains	177
Surface testing and correction	167
Thickness	170
Tie bars	175, 175, 176
Concrete piling, cast-in-place	312
Concrete pipe	
Cattle pass	350
Culverts	350

INDEX

Endwalls, apron	352
Storm sewer	382
Concrete prestressed members	255
Concrete reference monuments	413
Concrete retaining walls	262
Concrete safety islands	366
Concrete sidewalks	366
Concrete sign supports	462
Concrete slope paving	373
Concrete steps	366
Concrete surface repair, bridges	307
Concrete Testing	
Class I	599
Class II and III	604
General	596
Conditional acceptance of work	42
Conduit, electrical	527
Conformity with the contract	38
Consideration of proposals	27
Consolidating	
Concrete	239
Construction joints in concrete bridges	241
Construction limits, definition	17
Construction loads on structures	69
Construction over navigable water	58
Construction staking	See Staking, construction
Consulting firm, definition	17
Container-grown plant material	446
Continuous Wet Cure Method	246
Contract	
Allowable tolerances	38
Assignment	62
Award	27
Bond requirement	27
Bond, definition	17
Calendar day	70
Cancellation of award	27
Cancellation of contract	73
Completion date	70
Conditional acceptance	42, 42
Conformity	38
Coordination	39
Default	72
Definition	17
Eliminated items	81
Examination by bidder	23
Execution	28
Failure to award	27
Failure to execute	28
Final acceptance of work	42, 83
General	38
Modification, definition	17
Partial acceptance of work	42
Period, definition	17
Revision, definition	17
Revisions to	29
Subletting	62
Termination	73
Time determination and extensions	71
Time, definition	17
Working day	70
Contraction joints in	
Concrete bridges	241
Concrete curb and gutter	364
Concrete pavement	165

INDEX

Concrete sidewalk	367
Contractor	
Coordination	39
Definition	17
Notification	30
Obligations	39
Responsibility for utility service	59
Responsibility for work	55
Contractor assurance, definition	19
Control cabinet bases	532
Control of	
Erosion	58
Materials	47
The work	38
Traffic	489, 32
Controllers and detectors	577
Controlling item of work, definition	17
Convenience of the public	53
Coordination of the contract documents	39
Coordination with the contractor	39
Copper naphthenate wood preservative	293
Copper, sheet	271
Cores, concrete pavement	170
Corrugated aluminum	
Pipe arch and structural plate pipe	357
Pipe culvert	355
Pipe underdrain	389
Corrugated concrete median	411
Corrugated polyethylene pipe culverts	361
Corrugated steel	
Pipe culvert	349
Pipe underdrain	389
Cost reduction incentive	35
Concept submittal	36
Payment	37
Proposal acceptance or rejection	37
Proposal submittal	36
Covenants and general requirements	14
Covers for catch basins, manholes and inlets	386
Crack sealer for bridge decks	234
Crack sealing	251
Cracked and seated pavement	154
Creosote-coal tar solution wood preservative	293
CRI	See Cost reduction incentive
Cribs	110
Critical path method progress schedule	66
Crossings, railroad	56
Crushed aggregate	
Base and shoulders	137
Slope paving	373
Crushed stone, definition	133
Culvert pipe	
Aluminum	355
Cattle pass	345
Cleaning	347
Concrete	345, 352, 350
Construction methods	345
Corrugated polyethylene	345
Deflection testing	347
Salvaged	354
Steel, corrugated	349
Temporary	345
Culvert, definition	17
Culverts	
Breaking down	92, 92

INDEX

<u>Closing</u>	<u>93</u>
<u>Construction methods</u>	<u>262</u>
<u>Removing</u>	<u>92</u>
<u>Culverts and retaining walls</u>	<u>262</u>
<u>Curb and gutter construction</u>	<u>363</u>
<u>Curb and gutter, removing</u>	<u>96</u>
<u>Curb repair of concrete bridge deck</u>	<u>309</u>
<u>Curb, asphaltic</u>	<u>206</u>
<u>Curing</u>	
<u>Colored concrete</u>	<u>161</u>
<u>Concrete barrier</u>	<u>371</u>
<u>Concrete base course</u>	<u>148</u>
<u>Concrete bridges</u>	<u>245</u>
<u>Concrete culverts</u>	<u>262</u>
<u>Concrete curb and gutter</u>	<u>364</u>
<u>Concrete pavement</u>	<u>167</u>
<u>Concrete prestressed members</u>	<u>259</u>
<u>Concrete retaining walls and endwalls</u>	<u>262</u>
<u>Concrete sidewalks, loading zones, safety islands and steps</u>	<u>367</u>
<u>Concrete slope paving</u>	<u>373</u>
<u>Curing compound</u>	
<u>Concrete pavement</u>	<u>162</u>
<u>Concrete structures</u>	<u>233</u>
<u>General concreting</u>	<u>219</u>
<u>Cutoffs, pile</u>	<u>317, 317, 314, 304</u>
<u>Cylindrical forms for concrete</u>	<u>237</u>