# CONSTRUCTION MANAGEMENT AND CONSTRUCTION QUALITY ASSURANCE SERVICES FOR VARIOUS LANDFILL CONSTRUCTION PROJECTS FOR THE SAN BERNARDINO COUNTY SOLID WASTE MANAGEMENT DIVISION

## **EXHIBIT 2-COST PROPOSAL**

#### Exhibit 2 - Cost Proposal

# SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS SOLID WASTE MANAGEMENT DIVISION (PWG-125-SOLID-5900)

#### SOUTHSTAR ENGINEERING & CONSULTING, INC. RATE AND REIMBURSEMENT SCHEDULE (This rate schedule covers the period between October 27, 2025 and October 26, 2030) **BILLING RATE PER HOUR (NOT TO EXCEED)** POSITION TITLE 2025 2026 2027 2028 2029 2030 Principal-in-Charge/Project Representative \$ 335.00 \$ 345.05 \$ 355.40 \$ 366.06 \$ 377.05 \$388.36 Construction Manager \$ 319.00 \$ 328.57 \$ 338.43 \$ 348.58 \$ 359.04 \$ 369.81 Structures Representative \$ 307.00 \$ 316.21 \$ 325.70 \$ 335.47 \$ 345.53 \$ 355.90 Structures Inspector \$ 325.70 \$ 345.53 \$ 355.90 \$ 307.00 \$ 316.21 \$ 335.47 Deputy Project Manager \$ 150.00 \$ 154.50 \$ 159.14 \$ 163.91 \$ 168.83 \$ 173.89 Urban Planner \$ 260.00 \$ 267.80 \$ 275.83 \$ 284.11 \$ 292.63 \$ 301.41 Transit Planner \$ 330.00 \$ 339.90 \$ 350.10 \$ 360.60 \$ 371.42 \$ 382.56 Project Manager \$ 321.36 \$ 340.93 \$ 361.69 \$ 312.00 \$ 331.00 \$ 351.16 Project Engineer/Plan Check \$ 250.00 \$ 257.50 \$ 265.23 \$ 273.18 \$ 281.38 \$ 289.82 Resident Engineer \$ 309.00 \$ 318.27 \$ 327.82 \$ 337.65 \$ 347.78 \$358.22 Assistant Resident Engineer \$ 265.00 \$ 272.95 \$ 281.14 \$ 289.57 \$ 298.26 \$ 307.21 \$ 221.45 \$ 228.09 \$ 249.24 Construction Inspector \$ 215.00 \$ 234.94 \$ 241.98 **Electrical Inspector** \$ 221.45 \$ 228.09 \$ 234.94 \$ 241.98 \$ 249.24 \$ 215.00 Right-of-Way Manager/Engineer \$ 255.00 \$ 262.65 \$ 270.53 \$ 278.65 \$ 287.00 \$ 295.61 **Document Control Specialist** \$ 185.00 \$ 190.55 \$ 196.27 \$ 202.15 \$ 208.22 \$ 214.47 \$ 190.96 \$ 202.59 Labor Compliance \$ 180.00 \$ 185.40 \$ 196.69 \$ 208.67 Public Outreach Specialist \$ 180.25 \$ 185.66 \$ 191.23 \$ 196.96 \$ 202.87 \$ 175.00 **Utilities Coordinator** \$ 208.00 \$ 214.24 \$ 220.67 \$ 227.29 \$ 234.11 \$ 241.13 Scheduler \$ 230.00 \$ 236.90 \$ 244.01 \$ 251.33 \$ 258.87 \$ 266.63 Office Support \$ 161.00 \$ 165.83 \$ 170.80 \$ 175.93 \$ 181.21 \$ 186.64

#### NOTES:

these items.

- All Southstar Engineering & Consulting, Inc. rates shown above are subject to annual increase of 3% pending County approval.
   Rates are inclusive of all professional expenses anticipated, such as insurance, printing, communications and travel. Costs for laptop, telephone, and vehicle usage are included in the rates listed above and no additional compensation will be required for
- 3) Hourly rates are fully burdened or loaded, including full compensation for all overhead and profit.
- 4) These billing rates include estimated cost provisions for normal supplies and materials, in-house reproduction services, and local travel costs.
- 5) Prevailing wage rates shall apply to any skills or trades as required by law.
- 6) A 15% administrative markup will be utilized on subconsultant invoices, if allowed by the contract.





# ON-CALL MAPPING AND SURVEY SERVICES SAN BERNARDINO COUNTY NO. PWG125-SOLID-5900 FEE SCHEDULE

(This rate schedule covers the period between October 27, 2025 and October 26, 2030)

| Office Staff:               |       |       |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|-------|-------|
|                             | 10/25 | 10/26 | 10/27 | 10/28 | 10/29 | 10/30 |
| Contract/ Survey Manager    | \$260 | \$275 | \$290 | \$305 | \$320 | \$340 |
| Project Surveyor            | \$220 | \$235 | \$250 | \$265 | \$280 | \$295 |
| Survey Analyst / Technician | \$185 | \$195 | \$205 | \$215 | \$225 | \$240 |
| Admin / Clerical            | \$120 | \$130 | \$140 | \$150 | \$160 | \$170 |

Note: Authorized overtime will be charged at 1.5 times the above rate.

| Field Staff:          |       |       |       |       |       |       |
|-----------------------|-------|-------|-------|-------|-------|-------|
| 1 Person Field Crew * | \$265 | \$280 | \$295 | \$310 | \$325 | \$345 |
| 2 Person Field Crew * | \$365 | \$385 | \$405 | \$425 | \$450 | \$475 |
| 3 Person Field Crew * | \$465 | \$490 | \$515 | \$540 | \$570 | \$600 |

CL Surveying and Mapping, Inc. is signatory to the International Union of Operating Engineers Local 12. Field surveyors are therefore paid prevailing wage rates for all work performed.

#### **Reimbursable Expenses:**

- 1. 3D Laser Scanner equipment is not included in our overhead rate and will be invoiced at an additional separate daily rate.
- 2. All field staff are subject to prevailing wages.
- 3. Aerial Mapping Costs by subconsultant Digital Mapping Inc. (DMI) will be invoiced as an ODC. A copy of invoices from DMI will be submitted for reimbursement.



#### Exhibit 2 - Cost Proposal

#### 2025 AMENDED BILLING RATE SCHEDULE (Verdantas West)

| Professional Services                         | <b>Hourly Rate</b> | Support Cont'd                  | <b>Hourly Rate</b> |
|---|--------------------|---------------------------------|--------------------|
| Senior Consultant I, Associate                | \$250.00           | Administrative//Technical       | \$86.00            |
| Senior Consultant II, Principal               | \$280.00           | Editor/ Project Coordinator I   |                    |
| Senior Consultant III, Sr. Principal          | \$330.00           | Administrative//Technical       | \$115.00           |
| Project Manager                               | \$210.00           | Editor/Project Coordinator II   |                    |
| Senior Project Manager                        | \$230.00           | Operations / Laboratory Manager | \$195.00           |
| •   |                    | Field/Lab Supervisor            | \$160.00           |
| Staff I Engineer/Scientist/Geologist          | \$160.00           | ·                               |                    |
| Staff II Engineer/Scientist/Geologist         | \$175.00           | CAD/GIS/Data Management         | <b>Hourly Rate</b> |
| Project Engineer/Scientist/Geologist          | \$195.00           | CAD Designer I                  | \$145.00           |
| Senior Engineer/Scientist/Geologist           | \$210.00           | CAD Designer II                 | \$160.00           |
| •   |                    | Project Designer                | \$165.00           |
| Support                                       | <b>Hourly Rate</b> | Senior Project Designer         | \$185.00           |
| Field/Lab Technician I                        | \$95.00            | CAD Technician I                | \$125.00           |
| Field/Lab Technician II/Special Inspector     | \$105.00           | CAD Technician II               | \$140.00           |
| Field/Lab Technician III/Special Inspector II | \$115.00           | CAD Technician III              | \$150.00           |
| Senior Technician/Senior Special Inspector    | \$122.00           |                                 |                    |
| Source Inspector                              | \$145.00           | GIS Analyst I                   | \$150.00           |
| System Operation & Maintenance Specialist     | \$160.00           | GIS Analyst II                  | \$160.00           |
| Non-Destructive Testing (NDT) Specialist      | \$170.00           | Senior GIS Analyst              | \$210.00           |
| Prevailing Wage (Group 1) *                   | \$155.00           | GIS Technician I                | \$125.00           |
| Prevailing Wage (Group 2) *                   | \$165.00           | GIS Technician II               | \$145.00           |
| Prevailing Wage (Group 3) *                   | \$170.00           |                                 |                    |
| City of Los Angeles Deputy Building/          | \$165.00           | Data Manager                    | \$165.00           |
| Grading Inspector                             |                    | Senior Data Manager             | \$185.00           |

#### NOTES:

- 1. Standard Billing Rates: Our standard billing rates are reviewed no less than annually and may be adjusted at those times.
- 2. **Proposal Expiration:** Proposals are valid for at least 30 days, subject to change after 30 days; unless otherwise stated in an attached proposal.
- 3. \*Prevailing Wages: Our fees for prevailing wage work are based upon California prevailing wage laws and wage determinations. Unless specifically indicated in our proposal, costs for apprentice are not included. If we are required to have an apprentice on your project, additional fees will be charged. Prevailing wage rates will increase by \$8 on July 1st of each year.
- 4. **Expert Testimony**: Litigation, expert witness, and all other legal and court related appearances will be billed at twice the standard fee schedule rate. There is a minimum eight-hour charge per day and a minimum overall fee of \$3,000.00 per appearance.
- 5. **Higher Hourly Rates**: Certain services, such as emergency/rapid response consulting, may be subject to higher hourly billing rates as agreed upon on a project-specific basis.
- 6. **Overtime**: Standard overtime rate is per California Labor Law and is billed at 1.5 or 2 times their hourly billing rate. Overtime rate for non-exempt field personnel working on a Verdantas observed holiday is billed at 2 times their hourly billing rate. Overtime rate for Prevailing wage work is per the California Department of Industrial Relations (DIR) determination and is multiplied at 1.5 to 2 times their hourly billing rate for overtime and double-time, respectively.
- 7. Field Equipment and Supplies: Field equipment and in-house supplies will be billed at fixed unit prices, subject to periodic updates.
- 8. **Subcontractors and Project Expenses**: Heavy equipment, subcontractor fees and expenses, project-specific permits and/or licenses, project-specific supplemental insurance, travel, subsistence, project-specific parking charges, shipping, reproduction, and other reimbursable expenses will be invoiced at cost plus 20%, unless billed directly to and paid by client or in accordance with the specific project agreement.
- 9. Mileage: The mileage for personal vehicles will be billed at the current United States Internal Revenue Service reimbursement rate.
- 10. Minimum Field Hourly Charges: For Field Technicians, Special Inspectors, or any on-site (field) materials testing services:
  - 2 hours: 2-hour minimum charge will be applied to any field visit for technicians or to any service canceled on the same day of service.
  - 4 hours: 4-hour minimum charge up to the first four hours of work.
  - **8 hours**: 8-hour minimum charge for over four hours of work, up to eight hours.
  - Project time accrued includes portal to portal travel time for technicians. For projects outside a 50-mile radius from the nearest Verdantas office location, excess mileage and travel time will be charged for special inspectors.
- 11. **Client Disclosures:** Client agrees to provide all information in Client's possession about actual or possible presence of buried utilities and hazardous materials on the project site, prior to fieldwork, and agrees to reimburse Verdantas for all costs related to unanticipated discovery of utilities and/or hazardous materials. Client is also responsible for providing safe and legal access to the project site for all Verdantas field personnel.
- 12. **Insurance & Limitation of Liability:** These rates are predicated on standard insurance coverage and a limit of Verdantas' liability equal to our total fees for a given project.



### **GEOTECHNICAL LABORATORY TESTING**

|  |                | OKATOKT ILOTINO  |             |
|--|----------------|--|-------------|
| METHOD   | <u>\$/TEST</u> | METHOD   | \$/TEST     |
| Classification & Index Properties Photograph of sample   | 45             | Soil Chemistry & Corrosivity cont'd  | 0.5         |
| Moisture content (ASTM D2216)  | 15<br>25       | Sulfate content - by ion chromatograph (CTM 417 Part 2) Sulfate screen (Hach®)   | 85<br>35    |
| Moisture & density (ASTM D2937) ring samples   | 37             | Chloride content (AASHTO T291/CTM 422)   | 75          |
| Moisture & density (ASTM D2937) Shelby tube or cutting   | 45             | pH + minimum resistivity (CTM 643)   | 140         |
| Atterberg limits 3 points (ASTM D4318)   | 160            | Chloride content – by ion chromatograph (AASHTO  | 85          |
| - Single point, non-plastic  | 90             | T291/CTM 422)  |             |
| - Atterberg limits (organic ASTM D2487 / D4318)  | 195            | Corrosion suite: minimum resistivity, sulfate, chloride,   | 285         |
| <ul> <li>Visual classification as non-plastic (ASTM</li> </ul>                                     | 15             | pH (CTM 643)   |             |
| D2488) Particle size:  |                | Organic matter content (ASTM D2974)  | 70          |
| <ul> <li>Sieve only 1½ inch to #200 (AASHTO T27/ASTM</li> </ul>                                    | 155            | Consolidation & Expansion/Swell Tests  |             |
| C136/ASTM D6913/CTM 202)   |                | Consolidation (ASTM D2435):  | 210         |
| - Large sieve 6 inch to #200 (AASHTO T27/ASTM  | 195            | Each additional time curve.  | 50          |
| C136/ASTM D6913/CTM 202)   | 100            | Each additional load/unload w/o time reading   | 45          |
| - Hydrometer only (ASTM D7928)   | 120            | Expansion Index (ASTM D4829)   | 140         |
| - Sieve + hydrometer ≤3 inch sieve, (ASTM D7928)   | 200            | Relative compaction of untreated/treated soils/  | 270         |
| - Percent passing #200 sieve, wash only (ASTM D1140)   | 75<br>140      | aggregates (CTM 216)   | 250         |
| Specific gravity and absorption of fine aggregate (AASHTO T84/ASTM C128/ASTM D854/CTM 207)         | 140            | Relative density 0.1 ft mold (ASTM D4253, D4254)   | 250<br>535  |
| Specific gravity and absorption of coarse aggregate  | 110            | California Bearing Ratio (ASTM D1883) - 3 point<br>California Bearing Ratio (ASTM D1883) - 1 point                         | 200         |
| (AASHTO T85/ASTM C127/CTM 206)   | 110            | R-Value untreated soils/aggregates (AASHTO T190/   | 335         |
| Total porosity - on Shelby tube sample (calculated)  | 180            | ASTM D2844/CTM 301)  | 000         |
| Total porosity - on other sample (calculated)  | 165            | R-Value lime or cement treated soils/aggregates  | 365         |
| Shrinkage limits wax method (ASTM D4943)   | 135            | (AASHTO T190/ ASTM D2844/CTM 301)  |             |
| Pinhole dispersion (ASTM D4647)  | 225            | Swell collapse Method A up to 10 load/unloads w/o  | 310         |
| Total porosity - on other sample (calculated)  | 165            | time curves (ASTM D4546-A)   |             |
| Dispersive characteristics (double hydrometer ASTM   | 215            | Single load swell/collapse - Method B (ASTM  | 115         |
| D4221)   | C.F.           | D4546-B, seat, load & inundate only)   |             |
| As-received moisture & density (chunk/carved sample)   | 65<br>115      | Triaxial Tests  Unconfined compression strangth of cohosive soil   | 145         |
| Sand Equivalent (AASHTO T176/ASTM D2419/CTM 217) Sieve + hydrometer ≤3-inch sieve, (ASTM D7928)    | 115<br>200     | Unconfined compression strength of cohesive soil (with stress/strain plot, ASTM D2166)                                     | 143         |
| Shear Strength   | 200            | Unconsolidated undrained triaxial compression test   | 185         |
| Pocket penetrometer  | 20             | on cohesive soils(UU, ASTM D2850, USACE Q test,  | 100         |
| Direct shear (ASTM D3080, mod., 3 points):   |                | per confining stress)  |             |
| - Consolidated undrained - 0.05 inch/min (CU)  | 320            | Consolidated undrained triaxial compression test   | 400         |
| - Consolidated drained - <0.05 inch/min (CD)   | 385            | for cohesive soils, (CU, ASTM D4767, USACE R-bar test)   |             |
| Residual shear EM 1110-2-1906-IXA (price per each  | 55             | with back pressure saturation & pore water pressure  |             |
| additional pass after shear)   |                | measurement (per confining stress)   |             |
| Remolding or hand trimming of specimens (3 points)   | 95             | Consolidated drained triaxial compression test (CD,  |             |
| Oriented or block hand trimming (per hour)   | 70             | USACE S), with volume change measurement. Price  |             |
| Single point shear<br>Torsional shear (ASTM D6467 / ASTM D7608)                                    | 115<br>880     | per soil type below EM 1110-21906(X):  | 400         |
| Compaction & Pavement Subgrade Tests   | 000            | - Sand or silty sand soils (per confining stress)  | 400<br>535  |
| Standard Proctor compaction, 4 points (ASTM D698)  |                | - Silt or clayey sand soils (per confining stress)   | 755         |
|  | 170            | - Clay soils (per confining stress)  | 700         |
| <ul><li>4-inch diameter mold (Methods A &amp; B)</li><li>6-inch diameter mold (Method C)</li></ul> | 230            | <ul><li>Three-stage triaxial (sand or silty sand soils)</li><li>Three-stage triaxial (silt or clayey sand soils)</li></ul> | 935         |
| Modified Proctor compaction 4 points (ASTM D1557):   | 230            | - Three-stage triaxial (slit of clayey sailu solis)  | 1,320       |
| - 4-inch diameter mold Methods A & B   | 235            | - Remolding of test specimens  | 70          |
| - 6-inch diameter mold Method C  | 265            | Hydraulic Conductivity Tests   | 70          |
| Check point (per point)  | 70             | Triaxial permeability in flexible-wall permeameter with  | 335         |
| Relative compaction of untreated/treated   | 270            | backpressure saturation at one effective stress (EPA   | 333         |
| soils/aggregates (CTM 216)   | 0              | 9100/ASTM D5084, falling head Method C):   |             |
| Relative density 0.1 ft mold (ASTM D4253, D4254)   | 250            | Each additional effective stress   | 130         |
| California Bearing Ratio (ASTM D1883) - 3 point  | 535            | Hand trimming of soil samples for horizontal K   | 65          |
| California Bearing Ratio (ASTM D1883) - 1 point  | 200            | Remolding of test specimens  | 70          |
| R-Value untreated soils/aggregates (AASHTO T190/   | 335            | Permeability of granular soils (ASTM D2434)  | 145         |
| ASTM D2844/CTM 301)  | 205            | Soil-Cement (ACTM  | 222         |
| R-Value lime or cement treated soils/aggregates  | 365            | Moisture-density curve for soil-cement mixtures (ASTM  | 260         |
| (AASHTO T190/ ASTM D2844/CTM 301)  |                | D558) Wet dry durability of sail coment mixtures (ASTM D550) 1   | 4.200       |
| Soil Chemistry & Corrosivity pH Method A (ASTM D4972 or CTM 643)                                   | 50             | Wet-dry durability of soil-cement mixtures (ASTM D559) <sup>1</sup> Compressive strength of molded soil-cement cylinder    | 1,290<br>65 |
| Electrical resistivity – single point – as received moisture                                       | 50             | (ASTM D1633) <sup>1</sup>  | 03          |
| Minimum resistivity 3 moisture content points (ASTM  | 95             | Soil-cement remolded specimen (for shear strength,   | 250         |
| G187/CTM 643)  |                | consolidation, etc.) <sup>1</sup>  | _00         |
| pH + minimum resistivity (CTM 643)   | 140            | <sup>1</sup> Compaction (ASTM D558 maximum density) should   |             |
| Sulfate content - gravimetric (CTM 417 B Part 2)   | 75             | also be performed – not included in above price  |             |

# Exhibit 2 - Cost Proposal

# **CONSTRUCTION MATERIALS LABORATORY TESTING**

| METHOD  | \$/TEST   |
|---|-----------|
| Concrete Strength Characteristics   | 10        |
| Concrete cylinders compression (ASTM C39) (6" x 12" and 4" x 8")  | 40        |
| Compression, concrete or masonry cores (testing only) ≤6 inch (ASTM C42)  | 45        |
| Trimming concrete cores (per core)  | 25        |
| Flexural strength of concrete (simple beam-3rd pt. loading, ASTM C78/CTM 523)                                   | 90        |
| Flexural strength of concrete (simple beam- center pt. loading, ASTM C293/CTM 523)                              | 90        |
| Non shrink grout cubes (2 inch, ASTM C109/C1107)  | 30        |
| Drying shrinkage - four readings, up to 90 days, 3 bars (ASTM C157)   | 430       |
| Length of concrete cores (CTM 531)  | 45        |
| Hot Mix Asphalt (HMA) Resistance of compacted HMA to moisture-induced damage (AASHTO T283/CTM 371)              | 2,250     |
| Hamburg Wheel, 4 briquettes (modified) (AASHTO T324)  | 965       |
| Superpave gyratory compaction (AASHTO T312/ ASTM D6925)   | 375       |
| Extraction by ignition oven, percent asphalt (AASHTO T308/ASTM D6307/CTM 382)                                   | 160       |
| Ignition oven correction/correlation values (AASHTO T308/ASTM D6307/CTM 382)                                    | 1,445     |
| Extraction by centrifuge, percent asphalt (ASTM D2172)  | 160       |
| Gradation of extracted aggregate (AASHTO T30/ ASTM D5444/CTM 202)   | 145       |
| Stabilometer, S-Value (ASTM D1560/CTM 366)  | 285       |
| Bituminous mixture preparation (AASHTO R30/ CTM 304) Moisture content of HMA (AASHTO T329/ASTM D6037 /CTM 370)  | 85<br>65  |
| Bulk specific gravity of compacted HMA, molded specimen or cores, uncoated (AASHTO T166/ ASTM                   | 55        |
| D2726/CTM 308)  Bulk specific gravity of compacted HMA, molded specimen or cores, paraffin-coated (AASHTO T275/ | 60        |
| ASTM D1188/CTM 308) Maximum density - Hveem (CTM 308)   | 215       |
| Theoretical maximum density and specific gravity of HMA (AASHTO T209/ASTM D2041/CTM 309)                        | 140       |
| Thickness or height of compacted bituminous paving Mixture specimens (ASTM D3549)                               | 45        |
| Wet track abrasion of slurry seal (ASTM D3910)  | 160       |
| Rubberized asphalt (add to above rates)  Brick  | +25%      |
| Compression - cost for each, 5 required (ASTM C67)  | 55        |
| Absorption - cost for each, 5 required (ASTM C67)  Aggregate Properties   | 55        |
| Bulk density and voids in aggregates (AASHTO T19/<br>ASTM C29/ CTM 212)   | 55        |
| Organic impurities in fine aggregate sand (AASHTO T21/<br>ASTM C40/CTM 213)                                     | 65        |
| LA Rattler-smaller coarse aggregate <1.5" (AASHTO /ASTM C131/ CTM 211)  | 215       |
| LA Rattler-larger coarse aggregate 1-3" (AASHTO T96/<br>ASTM C535/CTM 211)                                      | 270       |
| Apparent specific gravity of fine aggregate (AASHTO T84/ASTM C128/CTM 208)                                      | 140       |
| Specific gravity and absorption of coarse aggregate (ASTM C127/CTM 206) >#4 retained                            | 110       |
| Clay lumps, friable particles (AASHTO T112/ASTM C142)   | 190       |
| Durability Index (AASHTO T210/ASTM D3744/ CTM 229)  | 215<br>45 |
| Moisture content of aggregates by oven drying (AASHTO T255/ASTM C566/CTM 226)                                   |           |
| Uncompacted void content of fine aggregate (AASHTO T304/ ASTM C1252/ CTM 234)                                   | 140       |
| Percent of crushed particles (AASHTO T335/ ASTM D5821/CTM 205)  | 145       |

| ### Agareate Properties cont'd Flat & elongated particles in coarse aggregate (ASTM DA'791/CTM 235) Cleanness value of coarse aggregate (CTM 227) Cleanness value of coarse aggregate (CTM 227) Soundness, magnesium (AASHTO T104/ASTM 240 CB8/CTM 214) Soundness, sodium (AASHTO T104/ASTM C88/ 695 CTM 214)  Soundness, sodium (AASHTO T104/ASTM C88/ 695 CTM 214) Masonry Mortar cylinders 2" x 4" (ASTM C780) 35 Grout prisms 3" x 6" (ASTM C1019), 35 Masonry cores compression, ≤6" diameter - testing only (ASTM C42) 85 Veneer bond strength, cost for each - 5 required 60 (ASTM C442) CMU compression to size 8" x 8" x 16" - 3 required 60 (ASTM C140) CMU mompression to size 8" x 8" x 16" - 3 required 60 (ASTM C140) CMU initiate drying shrinkage (ASTM C426) 190 CMU grouted prisms compression test ≤8" x 8" x 16" (215 (ASTM C1314) CMU grouted prisms compression test ≤8" x 8" x 16" (270 (ASTM C1314) FastenersBotts/Rods  F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, 110 plain (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1- 1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 plain (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 plain (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 plain (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 plain (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 plain (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 plain (ASTM A370) A503 Bolts, tensile test, ≤ up to No. 11 A503 CTM A776/A934)  CTM A776/A934) A704 Bolts tensile t |  |         |
|---|--|---------|
| Flat & elongated particles in coarse aggregate (ASTM D4791/CTM 235)   |  | \$/TEST |
| Cleanness value of coarse aggregate (CTM 227)   225   Soundness, magnesium (AASHTO T104/ASTM 240   240   CSB/CTM 214)   Soundness, sodium (AASHTO T104/ASTM CSB/CTM 214)   Masonry   Mortar cylinders 2" x 4" (ASTM C780)   35   Grout prisms 3" x 6" (ASTM C1019).   35   Masonry cores compression, ≤6" diameter - testing only (ASTM C42)   85   Veneer bond strength, cost for each - 5 required (ASTM C482)   CMU compression to size 8" x 8" x 16" - 3 required (ASTM C482)   CMU compression to size 8" x 8" x 16" - 3 required (ASTM C140)   CMU linear drying shrinkage (ASTM C426)   190   CMU moisture content, absorption & unit weight - 6   55   required (ASTM C140)   CMU linear drying shrinkage (ASTM C426)   190   CMU grouted prisms compression test ≤8" x 8" x 16" (ASTM C1314)   Fasteners/Bolts/Rods   190   CMSTM C1314)   Fasteners/Bolts/Rods   110   11/4" diameter, plain (ASTM A370)   1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370)   13125 GR A307, A325 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370)   14" diameter, plain (ASTM A370)   14" diameter, plain (ASTM A370)   14" diameter, plain (ASTM A370)   140     | Flat & elongated particles in coarse aggregate (ASTM             | 230     |
| Soundness, magnesium (AASHTO T104/ASTM C88/CTM 214)  Soundness, sodium (AASHTO T104/ASTM C88/ CTM 214)  Masonry  Mortar cylinders 2" x 4" (ASTM C780) 35 Grout prisms 3" x 6" (ASTM C1019) 35 Masonry cores compression, s6" diameter - testing only (ASTM C42) Masonry core shear testing (Title 24) 85 Veneer bond strength, cost for each - 5 required (ASTM C482)  (MASTM C482) 60 (MU moisture content, absorption & unit weight - 6 required (ASTM C140) 60 CMU moisture content, absorption & unit weight - 6 required (ASTM C140) 60 CMU grouted prisms compression test ≤8" x 8" x 16" 215 (ASTM C1314) 70 CMU grouted prisms compression test ≤8" x 8" x 16" 270 (ASTM C1314) 71 CMU grouted prisms compression test > 8" x 8" x 16" 270 (ASTM C1314) 71 Fasteners/Bolts/Rods F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, 110 plain (ASTM A370) 71 F1525 GR A307, A325 Bolts, tensile test, ≤ up to 1-1/4" diameter, 130 galvanized (ASTM A370) 71 F1525 GR A307, A325 Bolts, tensile test, ≤ up to 1-1/4" diameter, 14" diameter, 154 galvanized (ASTM A370) 71 A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 plain (ASTM A370) 71 A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 plain (ASTM A370) 71 A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 A594 Bolts, tensile test, ≤ up to 1-1/4" diameter, 101 A594 Bolts, tensile test, | Cleanness value of coarse aggregate (CTM 227)                    | 225     |
| CTM 214)           Masonry           Mortar cylinders 2" x 4" (ASTM C780)         35           Grout prisms 3" x 6" (ASTM C1019).         35           Masonry core scompression, ≤6" diameter - testing only (ASTM C42)         45           Masonry core shear testing (Title 24)         85           Veneer bond strength, cost for each - 5 required (ASTM C482)         60           CMU compression to size 8" x 8" x 16" - 3 required (ASTM C140)         60           CMU moisture content, absorption & unit weight - 6 required (ASTM C140)         190           CMU moisture content, absorption & unit weight - 6 required (ASTM C140)         190           CMU grouted prisms compression test ≤8" x 8" x 16" (215         215           (ASTM C1314)         270           CMJ grouted prisms compression test > 8" x 8" x 16" (270           (ASTM C1314)         270           Fasteners/Bolts/Rods         F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, 110           F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, 130         130           galvanized (ASTM A370)         17125 GR A307, A325 Bolts, tensile test, ≤ up to 1-1/4" diameter, 140         140           Haweter, pain (ASTM A370)         140         149           A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, 140         140           A14" diameter, 140         140 <t< td=""><td>Soundness, magnesium (AASHTO T104/ASTM</td><td>240</td></t<>  | Soundness, magnesium (AASHTO T104/ASTM                           | 240     |
| Mortar cylinders 2" x 4" (ASTM C780)   35   Grout prisms 3" x 6" (ASTM C1019).   35   Masonry core sompression, ≤6" diameter - testing only (ASTM C42)   Masonry core shear testing (Title 24)   85   Veneer bond strength, cost for each - 5 required   60   (ASTM C482)   (ASTM C482)   (ASTM C440)   (ASTM C140)   (CMU compression to size 8" x 8" x 16" - 3 required (ASTM C140)   (CMU moisture content, absorption & unit weight - 6   55   required (ASTM C140)   (ASTM C141)   (ASTM C141)   (ASTM C1314)   (ASTM C370)   (ASTM    |  | 695     |
| Grout prisms 3" x 6" (ASTM C1019).  Masonry cores compression, ≤6" diameter - testing only (ASTM C42)  Masonry core shear testing (Title 24)  Veneer bond strength, cost for each - 5 required (ASTM C482)  CMU compression to size 8" x 8" x 16" - 3 required (ASTM C140)  CMU moisture content, absorption & unit weight - 6  required (ASTM C140)  CMU linear drying shrinkage (ASTM C426)  CMU grouted prisms compression test ≤8" x 8" x 16"  (ASTM C1314)  CMU grouted prisms compression test > 8" x 8" x 16"  (ASTM C1314)  Fasteners/Bolts/Rods  F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370)  F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370)  F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370)  F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370)  A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370)  A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370)  A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile test, ≤ up to 1-1/4" diameter, along lots, tensile  |  |         |
| Masonry cores compression, ≤6" diameter - testing only (ASTM C42)         45           Masonry core shear testing (Title 24)         85           Veneer bond strength, cost for each - 5 required (ASTM C482)         60           CMU compression to size 8" x 8" x 16" - 3 required (ASTM C140)         60           CMU moisture content, absorption & unit weight - 6 required (ASTM C140)         190           CMU linear drying shrinkage (ASTM C426)         190           CMU grouted prisms compression test ≤8" x 8" x 16" (ASTM C1314)         215           CMSTM C1314)         CMU grouted prisms compression test > 8" x 8" x 16" (ASTM C1314)         270           CMSTM C1314)         CMU grouted prisms compression test > 8" x 8" x 16" (ASTM C1314)         270           CMSTM C1314)         CMU grouted prisms compression test > 8" x 8" x 16" (ASTM C43TM)         270           Fasteners/Bolts/Rods         F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370)         110           Fasteners/Bolts/Rods         F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370)         130           F1524 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370)         140         1-1/4" diameter, plain (ASTM A370)           F1525 GR A307, A325 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370)         80         80           F147 diameter, galvanized (ASTM A370)         A593 Bolts, tensile test, ≤ up to 1-1/4" di  |  |         |
| only (ASTM C42)  Masonry core shear testing (Title 24)  Veneer bond strength, cost for each - 5 required (ASTM C482)  CMU compression to size 8" x 8" x 16" - 3 required (ASTM C140)  CMU moisture content, absorption & unit weight - 6 required (ASTM C140)  CMU grouted prisms compression test ≤8" x 8" x 16"  (ASTM C1314)  CMU grouted prisms compression test ≤8" x 8" x 16" (ASTM C1314)  Fasteners/Bolts/Rods  F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370)  F1555 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370)  F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1- 1/4" diameter, plain (ASTM A370)  F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1- 1/4" diameter, galvanized (ASTM A370)  A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370)  A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370)  A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370)  A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, stainless steel (ASTM A370)  Reinforcing Steel and Prestressing Strands  Rebar bend test, up to No. 11 (ASTM A370)  Reinforcing Steel and Prestressing Strands  Rebar bend test, ≥ No. 14 & over (ASTM A370)  Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 11  CCTM 670)  Mechanical rebar splice, tensile test, ≤ up to No. 11  CCTM 670)  Mechanical rebar splice, tensile test, ≤ up to No. 11  CCTM 670)  Mechanical rebar splice, tensile test, ≤ up to No. 11  CCTM 670)  Headed rebar splice, tensile test, ≤ up to No. 11  CCTM 670)  Headed rebar splice, tensile test, ≤ up to No. 11  CCTM 670)  Epoxy coated rebar flexibility/bend test, up to No.  11 (ASTM A775/A934)  Prestressing wire, tension (ASTM A416)  Sapple or and test, coated rebar/dowel film thickness (coating)  50  Epoxy coated rebar flexibility/bend test, up to No.  190  Sample preparation (cutting)  Epoxy coated rebar flexibility/bend test, up to No.  190  Epoxy coated rebar flexibility/bend test, up to No.  190  Epoxy coated rebar/dowel film thickness (coating)                  |  |         |
| Veneer bond strength, cost for each - 5 required (ASTM C482) CMU compression to size 8" x 8" x 16" - 3 required (ASTM C140) CMU moisture content, absorption & unit weight - 6 required (ASTM C140) CMU linear drying shrinkage (ASTM C426) CMU grouted prisms compression test ≤8" x 8" x 16" (ASTM C1314) CMU grouted prisms compression test > 8" x 8" x 16" (ASTM C1314) Fasteners/Bolts/Rods F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1- 1/4" diameter, galvanized (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1- 1/4" diameter, galvanized (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) Reinforcing Steel and Prestressing Strands Rebar bend test, up to No. 11 (ASTM A370) Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 10 (CTM 670) Resistance butt-welded hoops/bars, tensile test, ≥ No. 18 ever (CTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Epoxy coated rebar flexibility/bend test, up to No. 11 (ASTM A775/A934) Prestressing wire, tension (ASTM A416) Sample preparation (cutting) 55 Epoxy coated rebar/dowel film thickness (coating) 50  | only (ASTM C42)  |         |
| (ASTM C482) CMU compression to size 8" x 8" x 16" - 3 required (ASTM C140)  CMU moisture content, absorption & unit weight - 6 required (ASTM C140)  CMU linear drying shrinkage (ASTM C426)  CMU grouted prisms compression test ≤8" x 8" x 16" (ASTM C1314)  CMU grouted prisms compression test >8" x 8" x 16" (ASTM C1314)  Fasteners/Bolts/Rods  F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, glavanized (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1- 1/4" diameter, plain (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1- 1/4" diameter, glavanized (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, glavanized (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, salvanized (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, stainless steel (ASTM A370) Reinforcing Steel and Prestressing Strands Rebar bend test, up to No. 11 (ASTM A370) Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 10 (CTM 670) Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (ASTM A775/A934) Prestressing wire, tensile test, ≥ up to No. 14 & over (CTM 670) Epoxy coated rebar/dowel continuity (Holiday) Foatperaration (cutting) Foatperaration (cutting) Foatperaration (cutting) Foatperaration (cutting) Foatperar |  |         |
| (ASTM C140) CMU moisture content, absorption & unit weight - 6 required (ASTM C140) CMU linear drying shrinkage (ASTM C426) CMU grouted prisms compression test ≤8" x 8" x 16" (ASTM C1314) CMU grouted prisms compression test > 8" x 8" x 16" (ASTM C1314) Fasteners/Bolts/Rods F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1- 1/4" diameter, plain (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1- 1/4" diameter, galvanized (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, stainless steel (ASTM A370) Reinforcing Steel and Prestressing Strands Rebar bend test, up to No. 11 (ASTM A370) Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 10 (CTM 670) Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 10 (CTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 CCTM 670) Mechanical rebar splice, slip test, ≤ up to No. 11 CCTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar s | (ASTM C482)  |         |
| required (ASTM C140) CMU linear drying shrinkage (ASTM C426) CMU grouted prisms compression test ≤8" x 8" x 16" (ASTM C1314) CMU grouted prisms compression test > 8" x 8" x 16" (ASTM C1314) Fasteners/Bolts/Rods F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, a0 galvanized (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, a0 galvanized (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, a0 galvanized (ASTM A370) Reinforcing Steel and Prestressing Strands Rebar bend test, up to No. 11 (ASTM A370) Rebar bend test, up to No. 11 (ASTM A370) Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 10 (CTM 670) Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 11 (ASTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 CCTM 670) Mechanical rebar splice, slip test, ≤ up to No. 11 CCTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 CCTM 670) Headed rebar splice, tensile test, ≤ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice,  | (ASTM C140)  |         |
| CMU grouted prisms compression test ≤8" x 8" x 16" (ASTM C1314)  CMU grouted prisms compression test > 8" x 8" x 16" (ASTM C1314)  Fasteners/Bolts/Rods F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1- 1/4" diameter, plain (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1- 1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, stainless steel (ASTM A370) Reinforcing Steel and Prestressing Strands Rebar bend test, up to No. 11 (ASTM A370) Resistance butt-welded hoops/bars, tensile test, ≤ up 70 to No. 10 (CTM 670) Resistance butt-welded hoops/bars, tensile test, ≥ No. 11 & over (CTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed reb |  | 55      |
| (ASTM C1314) CMU grouted prisms compression test > 8" x 8" x 16" (ASTM C1314) Fasteners/Bolts/Rods F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 70 stainless steel (ASTM A370) Reinforcing Steel and Prestressing Strands Rebar bend test, up to No. 11 (ASTM A370) Resistance butt-welded hoops/bars, tensile test, ≤ up 70 No. 10 (CTM 670) Resistance butt-welded hoops/bars, tensile test, ≤ up 70 No. 10 (CTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 CTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & |  |         |
| CMU grouted prisms compression test > 8" x 8" x 16"  (ASTM C1314)  Fasteners/Bolts/Rods  F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, 110 plain (ASTM A370)  F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, 130 galvanized (ASTM A370)  F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370)  F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370)  A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, 20 plain (ASTM A370)  A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, 80 galvanized (ASTM A370)  A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 70 stainless steel (ASTM A370)  Reinforcing Steel and Prestressing Strands  Rebar bend test, up to No. 11 (ASTM A370)  Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 10 (CTM 670)  Resistance butt-welded hoops/bars, tensile test, ≥ No. 90 11 & over (CTM 670)  Mechanical rebar splice, tensile test, ≤ up to No. 11 (CTM 670)  Mechanical rebar splice, tensile test, ≥ up to No. 11 (CTM 670)  Mechanical rebar splice, tensile test, ≥ No. 14 & over (215 (CTM 670)  Mechanical rebar splice, tensile test, ≤ up to No. 11 (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≤ up to  | • •  | 215     |
| F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1-70 1/4" diameter, plain (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1-80 1/4" diameter, galvanized (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, 70 stainless steel (ASTM A370) Reinforcing Steel and Prestressing Strands Rebar bend test, up to No. 11 (ASTM A370) Rebar bend test, ≥ No. 14 & over (ASTM A370) Resistance butt-welded hoops/bars, tensile test, ≤ up 70 to No. 10 (CTM 670) Resistance butt-welded hoops/bars, tensile test, ≥ No. 90 11 & over (CTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, slip test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 10 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 150 (ASTM A775/A934) Epoxy coated rebar/dowel foll mthickness (coating) Epoxy coated rebar/dowel film thickness (coating)   | CMU grouted prisms compression test > 8" x 8" x 16" (ASTM C1314) | 270     |
| plain (ASTM A370) F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1- 1/4" diameter, plain (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1- 1/4" diameter, galvanized (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, stainless steel (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, stainless steel (ASTM A370) Reinforcing Steel and Prestressing Strands Rebar bend test, up to No. 11 (ASTM A370) Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 10 (CTM 670) Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 10 (CTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, slip test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 150 Hordinary tension (ASTM A416) Hordinary tension (ASTM A416) Hordinary tension (ASTM A416) Hordinary tension (ASTM A416) Hordinary tension (ASTM |  | 440     |
| galvanized (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1- 1/4" diameter, plain (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1- 1/4" diameter, galvanized (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, stainless steel (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, stainless steel (ASTM A370) Reinforcing Steel and Prestressing Strands Rebar bend test, up to No. 11 (ASTM A370) Rebar bend test, up to No. 11 (ASTM A370) Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 10 (CTM 670) Resistance butt-welded hoops/bars, tensile test, ≥ No. 11 & over (CTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, slip test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Epoxy coated rebar/dowel continuity (Holiday) (ASTM A775/A934) Fpoxy coated rebar flexibility/bend test, up to No. 11 (ASTM A775/A934) Fpoxy coated rebar/dowel film thickness (coating) 50   |  | 110     |
| 1/4" diameter, plain (ASTM A370) F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1- 1/4" diameter, galvanized (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, stainless steel (ASTM A370) Reinforcing Steel and Prestressing Strands Rebar bend test, up to No. 11 (ASTM A370) Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 10 (CTM 670) Resistance butt-welded hoops/bars, tensile test, ≤ up 11 & over (CTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, slip test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, slip test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Fooyy coated rebar/dowel continuity (Holiday) (ASTM A775/A934) Frestressing wire, tension (ASTM A416) Sample preparation (cutting) Fooyy coated rebar/dowel film thickness (coating)  |  | 130     |
| F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1- 1/4" diameter, galvanized (ASTM A370)  A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370)  A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370)  A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, stainless steel (ASTM A370)  Reinforcing Steel and Prestressing Strands  Rebar bend test, up to No. 11 (ASTM A370)  Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 10 (CTM 670)  Resistance butt-welded hoops/bars, tensile test, ≥ No. 11 & over (CTM 670)  Mechanical rebar splice, tensile test, ≤ up to No. 11 (CTM 670)  Mechanical rebar splice, slip test, ≤ up to No. 11 (CTM 670)  Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670)  Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 11  (CTM 670)  Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670)  Epoxy coated rebar/dowel continuity (Holiday) (ASTM A775/A934)  Frestressing wire, tension (ASTM A416)  Sample preparation (cutting)  Epoxy coated rebar/dowel film thickness (coating)  |  | 70      |
| A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, plain (ASTM A370) A490 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370) A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, stainless steel (ASTM A370)  Reinforcing Steel and Prestressing Strands Rebar bend test, up to No. 11 (ASTM A370) Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 10 (CTM 670) Resistance butt-welded hoops/bars, tensile test, ≥ No. 10 (CTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, slip test, ≤ up to No. 11 (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670) Fpoxy coated rebar/dowel continuity (Holiday) (ASTM A775/A934) Prestressing wire, tension (ASTM A416) Sample preparation (cutting) Fpoxy coated rebar/dowel film thickness (coating)   | F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1-              | 80      |
| A490 Bolts, tensile test, $\leq$ up to 1-1/4" diameter, galvanized (ASTM A370) A593 Bolts, tensile test, $\leq$ up to 1-1/4" diameter, 70 stainless steel (ASTM A370)  Reinforcing Steel and Prestressing Strands Rebar bend test, up to No. 11 (ASTM A370) 70 Rebar bend test, $\geq$ No. 14 & over (ASTM A370) 215 Resistance butt-welded hoops/bars, tensile test, $\leq$ up to No. 10 (CTM 670) Resistance butt-welded hoops/bars, tensile test, $\geq$ No. 11 & over (CTM 670) Mechanical rebar splice, tensile test, $\leq$ up to No. 11 70 (CTM 670) Mechanical rebar splice, slip test, $\leq$ up to No. 11 45 (CTM 670) Mechanical rebar splice, tensile test, $\geq$ No. 14 & over (CTM 670) Mechanical rebar splice, tensile test, $\geq$ No. 14 & over (CTM 670) Headed rebar splice, slip test, $\geq$ No. 14 & over (CTM 670) Headed rebar splice, tensile test, $\geq$ up to No. 11 70 (CTM 670) Headed rebar splice, tensile test, $\geq$ No. 14 & over (CTM 670) Epoxy coated rebar/dowel continuity (Holiday) 70 (ASTM A775/A934) Epoxy coated rebar flexibility/bend test, up to No. 50 11 (ASTM A775/A934) Prestressing wire, tension (ASTM A416) 190 Sample preparation (cutting) 55 Epoxy coated rebar/dowel film thickness (coating) 50  | A490 Bolts, tensile test, ≤ up to 1-1/4" diameter,               | 70      |
| A593 Bolts, tensile test, ≤ up to 1-1/4" diameter, stainless steel (ASTM A370)  Reinforcing Steel and Prestressing Strands  Rebar bend test, up to No. 11 (ASTM A370) 70  Rebar bend test, ≥ No. 14 & over (ASTM A370) 215  Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 10 (CTM 670)  Resistance butt-welded hoops/bars, tensile test, ≥ No. 90  11 & over (CTM 670)  Mechanical rebar splice, tensile test, ≤ up to No. 11 70  (CTM 670)  Mechanical rebar splice, slip test, ≤ up to No. 11 45  (CTM 670)  Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670)  Mechanical rebar splice, slip test, ≥ No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 11 70  (CTM 670)  Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670)  Epoxy coated rebar/dowel continuity (Holiday) 70  (ASTM A775/A934)  Epoxy coated rebar flexibility/bend test, up to No. 50  11 (ASTM A775/A934)  Prestressing wire, tension (ASTM A416) 190  Sample preparation (cutting) 55  Epoxy coated rebar/dowel film thickness (coating) 50  | A490 Bolts, tensile test, ≤ up to 1-1/4" diameter,               | 80      |
| Reinforcing Steel and Prestressing StrandsRebar bend test, up to No. 11 (ASTM A370)70Rebar bend test, ≥ No. 14 & over (ASTM A370)215Resistance butt-welded hoops/bars, tensile test, ≤ up<br>to No. 10 (CTM 670)70Resistance butt-welded hoops/bars, tensile test, ≥ No.<br>11 & over (CTM 670)90Mechanical rebar splice, tensile test, ≤ up to No. 1170(CTM 670)45Mechanical rebar splice, slip test, ≤ up to No. 1145(CTM 670)45Mechanical rebar splice, tensile test, ≥ No. 14 & over<br>(CTM 670)215Mechanical rebar splice, slip test, ≥ No. 14 & over<br>(CTM 670)215Headed rebar splice, tensile test, ≥ No. 14 & over<br>(CTM 670)215Headed rebar splice, tensile test, ≥ No. 14 & over<br>(CTM 670)215Epoxy coated rebar/dowel continuity (Holiday)<br>(ASTM A775/A934)70Epoxy coated rebar flexibility/bend test, up to No.<br>11 (ASTM A775/A934)50Prestressing wire, tension (ASTM A416)<br>Sample preparation (cutting)<br>Epoxy coated rebar/dowel film thickness (coating)50   | A593 Bolts, tensile test, ≤ up to 1-1/4" diameter,               | 70      |
| Rebar bend test, ≥ No. 14 & over (ASTM A370)  Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 10 (CTM 670)  Resistance butt-welded hoops/bars, tensile test, ≥ No. 11 & over (CTM 670)  Mechanical rebar splice, tensile test, ≤ up to No. 11 (CTM 670)  Mechanical rebar splice, slip test, ≤ up to No. 11 (CTM 670)  Mechanical rebar splice, tensile test, ≥ No. 14 & over (CTM 670)  Mechanical rebar splice, slip test, ≥ No. 14 & over (CTM 670)  Mechanical rebar splice, slip test, ≥ No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670)  Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670)  Epoxy coated rebar/dowel continuity (Holiday) (ASTM A775/A934)  Epoxy coated rebar flexibility/bend test, up to No. 11 (ASTM A775/A934)  Prestressing wire, tension (ASTM A416)  Sample preparation (cutting)  Epoxy coated rebar/dowel film thickness (coating)   | Reinforcing Steel and Prestressing Strands                       |         |
| Resistance butt-welded hoops/bars, tensile test, ≤ up to No. 10 (CTM 670)  Resistance butt-welded hoops/bars, tensile test, ≥ No. 90  11 & over (CTM 670)  Mechanical rebar splice, tensile test, ≤ up to No. 11 70 (CTM 670)  Mechanical rebar splice, slip test, ≤ up to No. 11 45 (CTM 670)  Mechanical rebar splice, tensile test, ≥ No. 14 & 215 over (CTM 670)  Mechanical rebar splice, slip test, ≥ No. 14 & over (CTM 670)  Mechanical rebar splice, slip test, ≥ No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 11 70 (CTM 670)  Headed rebar splice, tensile test, ≥ No. 14 & over 215 (CTM 670)  Epoxy coated rebar/dowel continuity (Holiday) 70 (ASTM A775/A934)  Epoxy coated rebar flexibility/bend test, up to No. 50 11 (ASTM A775/A934)  Prestressing wire, tension (ASTM A416) 190 Sample preparation (cutting) 55 Epoxy coated rebar/dowel film thickness (coating) 50  |  |         |
| to No. 10 (CTM 670) Resistance butt-welded hoops/bars, tensile test, ≥ No. 90 11 & over (CTM 670) Mechanical rebar splice, tensile test, ≤ up to No. 11 70 (CTM 670) Mechanical rebar splice, slip test, ≤ up to No. 11 45 (CTM 670) Mechanical rebar splice, tensile test, ≥ No. 14 & 215 over (CTM 670) Mechanical rebar splice, slip test, ≥ No. 14 & over (CTM 670) Mechanical rebar splice, slip test, ≥ No. 14 & over (CTM 670) Headed rebar splice, tensile test, ≤ up to No. 11 70 (CTM 670) Headed rebar splice, tensile test, ≥ No. 14 & over 215 (CTM 670) Epoxy coated rebar/dowel continuity (Holiday) 70 (ASTM A775/A934) Epoxy coated rebar flexibility/bend test, up to No. 50 11 (ASTM A775/A934) Prestressing wire, tension (ASTM A416) 190 Sample preparation (cutting) 55 Epoxy coated rebar/dowel film thickness (coating) 50  |  |         |
| 11 & over (CTM 670)  Mechanical rebar splice, tensile test, ≤ up to No. 11  (CTM 670)  Mechanical rebar splice, slip test, ≤ up to No. 11  (CTM 670)  Mechanical rebar splice, tensile test, ≥ No. 14 & 215  over (CTM 670)  Mechanical rebar splice, slip test, ≥ No. 14 & over  (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 11  (CTM 670)  Headed rebar splice, tensile test, ≥ No. 14 & over  (CTM 670)  Headed rebar splice, tensile test, ≥ No. 14 & over  (CTM 670)  Epoxy coated rebar/dowel continuity (Holiday)  (ASTM A775/A934)  Epoxy coated rebar flexibility/bend test, up to No.  11 (ASTM A775/A934)  Prestressing wire, tension (ASTM A416)  Sample preparation (cutting)  Epoxy coated rebar/dowel film thickness (coating)   | to No. 10 (CTM 670)  |         |
| (CTM 670)  Mechanical rebar splice, slip test, ≤ up to No. 11  (CTM 670)  Mechanical rebar splice, tensile test, ≥ No. 14 & 215 over (CTM 670)  Mechanical rebar splice, slip test, ≥ No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 11  (CTM 670)  Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670)  Epoxy coated rebar/dowel continuity (Holiday)  (ASTM A775/A934)  Epoxy coated rebar flexibility/bend test, up to No. 11 (ASTM A775/A934)  Prestressing wire, tension (ASTM A416)  Sample preparation (cutting)  Epoxy coated rebar/dowel film thickness (coating)  | 11 & over (CTM 670)  |         |
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| over (CTM 670)  Mechanical rebar splice, slip test, ≥ No. 14 & over (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670)  Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670)  Epoxy coated rebar/dowel continuity (Holiday) (ASTM A775/A934)  Epoxy coated rebar flexibility/bend test, up to No.  11 (ASTM A775/A934)  Prestressing wire, tension (ASTM A416)  Sample preparation (cutting)  Epoxy coated rebar/dowel film thickness (coating)   |  | 45      |
| (CTM 670)  Headed rebar splice, tensile test, ≤ up to No. 11 (CTM 670)  Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670)  Epoxy coated rebar/dowel continuity (Holiday) (ASTM A775/A934)  Epoxy coated rebar flexibility/bend test, up to No. 11 (ASTM A775/A934)  Prestressing wire, tension (ASTM A416)  Sample preparation (cutting)  Epoxy coated rebar/dowel film thickness (coating)  50  |  | 215     |
| (CTM 670)  Headed rebar splice, tensile test, ≥ No. 14 & over (CTM 670)  Epoxy coated rebar/dowel continuity (Holiday) (ASTM A775/A934)  Epoxy coated rebar flexibility/bend test, up to No. 11 (ASTM A775/A934)  Prestressing wire, tension (ASTM A416)  Sample preparation (cutting)  Epoxy coated rebar/dowel film thickness (coating)  50   |  | 215     |
| (CTM 670)  Epoxy coated rebar/dowel continuity (Holiday) 70 (ASTM A775/A934)  Epoxy coated rebar flexibility/bend test, up to No. 50 11 (ASTM A775/A934)  Prestressing wire, tension (ASTM A416) 190 Sample preparation (cutting) 55 Epoxy coated rebar/dowel film thickness (coating) 50   |  | 70      |
| (ASTM A775/A934)  Epoxy coated rebar flexibility/bend test, up to No. 50 11 (ASTM A775/A934)  Prestressing wire, tension (ASTM A416) 190 Sample preparation (cutting) 55 Epoxy coated rebar/dowel film thickness (coating) 50   |  | 215     |
| Epoxy coated rebar flexibility/bend test, up to No. 50 11 (ASTM A775/A934) Prestressing wire, tension (ASTM A416) 190 Sample preparation (cutting) 55 Epoxy coated rebar/dowel film thickness (coating) 50  | Epoxy coated rebar/dowel continuity (Holiday)                    | 70      |
| Prestressing wire, tension (ASTM A416) 190 Sample preparation (cutting) 55 Epoxy coated rebar/dowel film thickness (coating) 50   | Epoxy coated rebar flexibility/bend test, up to No.              | 50      |
| Epoxy coated rebar/dowel film thickness (coating) 50  | Prestressing wire, tension (ASTM A416)                           |         |
|   | Epoxy coated rebar/dowel film thickness (coating)                |         |



#### CONSTRUCTION MATERIALS LABORATORY TESTING

| METHOD   | \$/TEST | <u>METHOD</u>                               | \$/TEST |
|--|---------|---|---------|
| Streetlights/Signals   |         | Bearing Pads/Plates and Joint Seal          |         |
| LED Luminaires / Signal Modules / Countdown                                | Ву      | Elastomeric bearing pads (Caltrans SS 51-3) | 1,060   |
| Pedestrian Signal Face Modules (Caltrans RSS 86)                           | Quote   | Elastomeric bearing pad with hardness and   | 1,315   |
| Spray Applied Fireproofing   |         | compression tests (Caltrans SS 51-3)        |         |
| Unit weight (density, ASTM E605)   | 65      | Type A Joint Seals (Caltrans SS 51-2)       | 1,735   |
| Sample Transport   |         | Type B Joint Seals (Caltrans SS 51-2)       | 1,640   |
| Pick-up and delivery (weekdays, per trip, <50 mile radius from our office) | 110     | Bearing plates (A536)                       | 770     |

#### **Notes**

- 1. **Earth Material Samples:** Quoted testing unit rates are for soil and/or rock (earth) samples free of hazardous materials. Additional costs will accrue beyond these standard testing unit rates for handling, testing and/or disposing of soil and/or rock containing hazardous materials. Hazardous materials will be returned to the site or the site owner's designated representative at additional cost not included in listed unit rates. Standard turn-around time for geotechnical-laboratory test results is 10 working days. Samples will be stored for 2 months following completion of assigned tests, after which they will be discarded. Prior documented notification is required if samples need to be stored for a longer time. A monthly storage fee of \$15 per bag and \$6 per sleeve or tube will be applied. Quoted unit rates are only for earth materials sampled in California. There may be additional cost for handling imported samples.
- 2. Construction Material Samples: After all designated breaks for a given sample set meet specified compressive at design age or other client-designated strength, all "hold" cylinders or specimens will be automatically disposed of, unless specified in writing prior to the 28-day break. Unless specifically requested otherwise, all other construction materials will be disposed of after completion of testing and reporting.

#### **EQUIPMENT LISTING**

| CLASSIFICATION                                   | \$/UNIT   | CLASSIFICATION   | \$/UNIT   |
|--|-----------|--|-----------|
| 1/4 inch Grab plates                             | 5/ each   | Global Positioning System/Laser Range Finder             | 80/day    |
| 1/4 inch Tubing (bonded)                         | 0.60/foot | Hand auger set   | 90/day    |
| 1/4 inch Tubing (single)                         | 0.40/foot | HDPE safety fence (≤100 feet)                            | 40/roll   |
| 3/8 inch Tubing, clear vinyl                     | 0.60/foot | Horiba U-51 water quality meter                          | 135/day   |
| 4-Gas meter (RKI Eagle or similar)/GEM 2000      | 140/day   | Light tower (towable vertical mast)                      | 150/day   |
| Air flow meter and purge pump (200 cc/min)       | 55/day    | Magnehelic gauge   | 15/day    |
| Box of 24 soil drive-sample rings                | 130/box   | Manometer  | 25/day    |
| Brass sample tubes                               | 11/each   | Mileage (will adjust with IRS published rate)            | 0.70/mile |
| Caution tape (1000-foot roll)                    | 22/each   | Moisture test kit (excludes labor to perform test, ASTM  | 65/test   |
| Combination lock or padlock                      | 15/each   | E1907)   |           |
| Compressed air tank and regulator                | 55/day    | Nuclear moisture and density gauge                       | 88/day    |
| Concrete coring machine (≤6-inch-dia)            | 160/day   | Electrical moisture and density gauge                    | 88/Day    |
| Consumables (gloves, rope, soap, tape, etc.)     | 40/day    | Pachometer   | 50/day    |
| Core sample boxes                                | 30/each   | Particulate Monitor                                      | 135/day   |
| Crack monitor Two-Dimensional                    | 30/each   | pH/Conductivity/Temperature meter                        | 60/day    |
| Crack monitor Thee-Dimensional                   | 40/each   | Photo-Ionization Detector (PID)                          | 150/day   |
| Cutoff saws, reciprocating, electric (Sawzall®)  | 80/day    | Pump, Typhoon 2 or 4 stage                               | 55/day    |
| D-Meter Walking Floor Profiler                   | 110/day   | QED bladder pump w/QED control box                       | 175/day   |
| Disposable bailers                               | 25/each   | Quire fee – Phase I only                                 | 250/each  |
| Disposable bladders                              | 20/each   | Resistivity field meter and pins                         | 200/day   |
| Dissolved oxygen meter                           | 75/day    | Slip / threaded cap, 2-inch or 4-inch diameter,          | 20/each   |
| DOT 55-gallon containment drum with lid          | 85/drum   | PVC Schedule 40  |           |
| Double-ring infiltrometer                        | 135/day   | Slope inclinometer                                       | 250/day   |
| Dual-stage interface probe                       | 85/day    | Soil sampling T-handle (Encore)                          | 10/day    |
| Dynamic Cone Penetrometer                        | 430/day   | Soil sampling tripod                                     | 40/day    |
| Generator, portable gasoline fueled, 3,500 watts | 90/day    | Speedy (R) moisture tester                               | 10/day    |
| Stainless steel bailer                           | 60/day    | Vapor sampling box                                       | 65/day    |
| Submersible pump with controller                 | 180/day   | Vehicle usage (carrying equipment)                       | 16/hour   |
| Submersible pump/transfer pump, 10-25 gpm        | 65/day    | VelociCalc   | 40/day    |
| Support service truck usage (well installation)  | 250/day   | Visqueen (20 x 100 feet)                                 | 130/roll  |
| Survey/fence stakes                              | 10/each   | Water level indicator (electronic well sounder)          | 100/day   |
| Tedlar® bags                                     | 25/each   | <300 feet deep well                                      | -         |
| Traffic cones (≤25)/barricades (single lane)     | 55/day    | ZIPLEVEL®.   | 40/day    |
| Turbidity meter                                  | 80/day    | Other specialized geotechnical and environmental testing | ng        |
| Tyvek® suit (each)                               | 25/each   | and monitoring equipment are available, and priced per   | site      |