

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Concrete pavements, sidewalks, walkways, roadways and mow strips.
 - 2. Concrete footings for site construction.
 - 3. Concrete planter curbs, pavement curbs and gutters.
 - 4. Concrete planter walls or landscape walls.
- B. Testing
 - 1. The University will select a qualified testing laboratory to take samples for testing during the course of the work as considered necessary. The University will pay for costs of such tests. Design/Builder shall cooperate in making tests and shall be responsible for notifying the designated laboratory in sufficient time to allow taking of sample at time of pour.
 - 2. Refer to Division 1 for specific requirements of testing.
 - 3. Should tests show that concrete is below specified strength; Design/Builder shall remove all such concrete as directed by the University. Full cost of removal of low-strength concrete, its replacement with concrete of proper specified strength, and testing shall be borne by Design/Builder.
 - 4. Schedule IOR inspection after forms are completed but prior to placing concrete. For stairs and steps, schedule an IOR compliance inspection after forms have been stripped.

1.2 QUALITY ASSURANCE

- A. Field-Constructed Mockup: Cast mockup of size required (but not less than 10 feet by 10 feet) to demonstrate typical joints, surface finishes, textures, color, and standard of workmanship for integral colored concrete pavement.
 - 1. Notify the University a minimum of 4 days in advance prior to applying sandblast finish to mock-up. Apply sandblast finish in the presence of the University and adjust finish as required by the University.
 - 2. When the University determines that mockup does not meet requirements, demolish and remove it from the site and cast another until the mockup is accepted.
 - 3. Keep accepted mockup undisturbed during construction as a standard for judging completed paving. Undamaged mockup may be incorporated into the Work.
 - 4. Demolish accepted mockup and remove from site when directed by the University.
 - 5. Use the following chart to comply with the CSU Access Compliance Standards in regards to Slope Limits.

PART 2 - PRODUCTS

2.1 REINFORCING

- A. Reinforcing bars shall conform to current requirements of ASTM Designation A615 deformed Grade 40 or Grade 60 billet-steel, clean and free from rust, scale, or coating that will reduce bonding.
 - 1. ASTM A 615, Grade 40 for #3 bars and Grade 60 for bars larger than #3, deformed.
- B. Welded wire fabric shall conform to current requirements of ASTM Designation A185. Tags designating wire size and spacing shall be left on each roll until ready to use. Lap 6" on all edges.

2.2 HERBICIDE TREATMENT

- A. Commercial chemical for weed control, registered by Environmental Protection Agency. Provide granular, liquid, or wet table powder form.

PART 3 - EXECUTION

3.1 BASE PREPARATION

- A. Conform to all recommendations as noted in the Geotechnical Consultant's report.

3.2 PLACING REINFORCEMENT

- A. Place all reinforcement as shown on Drawings. Accurately place and securely fasten and support reinforcement to prevent displacement before or during pouring. Hang footing bars from forms. Support wire mesh with suitable metal cradles.
- B. Unless stated elsewhere, provide a minimum of welded wire fabric at all slab on grade applications.

3.3 FINISHES

- A. Float Finish: Begin floating when bleeds water sheen has disappeared and the concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven floats or by hand-floating if area is small or inaccessible to power units. Finish surfaces to true planes within a tolerance of 1/4 inch in 10 feet as determined by a 10-foot-long straightedge placed anywhere on the surface in any direction. Cut down high spots and fill low spots. Re-float surface immediately to a uniform granular texture.
- B. Steel Trowel Finish: After surface water disappears and floated surface is sufficiently hardened, steel trowel and re-trowel to smooth surface. After concrete has set enough, re-trowel to a smooth uniform finish, free of trowel marks or other blemishes. Avoid burned areas produced by excessive toweling.
- C. Broom Finish: After surface water disappears and floated surface is sufficiently hardened, steel trowel and re-trowel to smooth surface. When ready, apply approved coarse texture finish by sliding a wire or stiff bristle broom in one direction along a straightedge guide set at right angles to the direction of traffic. On walkways, smooth finish 2" wide at edges, expansion joints, and score joints.
 - 1. Tests for coefficient of friction shall be either ASTM C-1028 (field test) or ASTM D-2047 (laboratory test).

END OF SECTION