

LEA PROGRAM – LAB ASSESSMENT REPORT

LEA # : _____ Laboratory Name: _____ Date: _____

Engineering Manager: _____

Geotechnical Engineer: _____ Other: _____

Laboratory Manager: _____ Other: _____

[Referenced Standards shown in brackets are ASTM unless otherwise noted]

1. SOILS AND AGGREGATE

Y N Evaluation Records [D3740]

- | | Y | N | | SOIL | AGG. | A/C | METALS | Corrective Action Required |
|----|--------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|----------------------------|
| 1. | <input type="checkbox"/> | <input type="checkbox"/> | AMRL Participation #: _____ | <input type="checkbox"/> |
| | | | Last assessment: ____ / ____ / ____ | | | | | |
| 2. | <input type="checkbox"/> | <input type="checkbox"/> | PSP Participation #: _____ | <input type="checkbox"/> |
| | | | Last sample report: ____ / ____ / ____ | | | | | |

Y N Equipment

3. Scales and balances _____ calib. by: _____
 Calibration / Verification Date: ____ / ____ / ____
4. Sample splitters coarse/fine [C702/12] _____
5. Mechanical shakers [C136/12] _____
6. Ovens [D1557/4] _____
7. Sieves _____ calib. by: _____
 Calibration / Verification Date: ____ / ____ / ____
8. Compaction Molds [D1557/12] _____
10. Sand equivalent apparatus [D2419/12] _____
11. Liquid limit Device [D4318/12] _____
12. Thermometers [E77/6] _____
13. Straight Edges [D1557/6] _____
14. Calipers [D3740/12] _____
15. Sand cone apparatus [D1556] _____
16. Sand [D1556/12] _____
17. Nuclear density gauges _____
18. Kneading compactor (R value) _____ calib. by: _____

2. REINFORCING STEEL

Y N Equipment [A370]

1. Grips and shims _____
2. Bend fixture and pins _____
3. Extensometer for cable testing _____
4. Grip apparatus for bolt testing _____
5. Bend test apparatus for weld coupons _____

LEA # _____ Date ____ / ____ / ____

6. Measuring tools for area and elongation _____

Universal Testing Machine [E4/12]

Y N Machine Information:

7. Maker: _____ Identification Number: _____ Capacity: _____ /K

Y N Calibration Information:

8. Calibration / Verification Date: ____ / ____ / ____ By: _____

3. CONCRETE

Y N Evaluation Records [C1077]

1. CCRL Participation #: _____ MASONRY AGG. CONCRETE REINFORCING

Last assessment: ____ / ____ / ____

2. PSP Participation #: _____ MASONRY AGG. CONCRETE REINFORCING

Last sample report: ____ / ____ / ____

Y N Procedures / Records

3. Specimen identification procedures _____

4. Specimen initial curing procedures _____

5. Transportation of specimens to laboratory _____

6. Cylindrical molds [C470/12] _____

Date: ____ / ____ / ____

Curing Facilities [C511]

Y N Moist Room:

7. Surfaces of all specimens moist _____

8. Spray not dripping directly on cylinders _____

9. Thermostatically controlled heating cooling _____

10. Recording thermometer check/review charts [C511/6] _____ calib. by: _____

Calibration / Verification Date: ____ / ____ / ____

11. Temperature @ 23.0 ± 2.0 °C _____

DSA _____ °F/C Ref. _____ °F/C Rec. _____ °F/C

12. Humidity not less than 95% _____

Y N Water Tanks:

13. Water saturated with high calcium hydrated lime _____

14. Thermostatically controlled heating cooling _____

15. Recording thermometer for each tank [C511/6] _____ calib. by: _____

Calibration / Verification Date: ____ / ____ / ____

16. Recording thermometer for tanks connected with water circulating _____

17. Temperature @ 23.0 ± 2.0 °C _____

DSA _____ °F/C Ref. _____ °F/C Rec. _____ °F/C

Capping Facilities [C617]

Y N Equipment:

18. Capping plate (steel machined) > ½" thick _____

19. Capping plate 1" greater than specimen _____

20. Working surface plainness < .002 in 6" _____

LEA # _____ Date ____ / ____ / ____

- 21. Free of gouges etc. > .010 deep or .05 surface area _____
- 22. Plate with recess requires 1/2" of plate below _____
- 23. Recess in plate 1/2" or less _____
- 24. Alignment device perpendicular within 1/8" – 12" _____
- 25. Melting pot for sulfur mortars _____
- 26. Exhaust hood _____
- 27. 2" cube mold with cover plate [C617/30] _____
- 28. Straight edge with feeler gage _____
- 29. All metal thermometer _____

Y N Records of Capping Material: [C617]

Trade name or composition _____

- 30. Records compressive strength _____
Calibration / Verification Date: ____ / ____ / ____ By: _____
- 31. Daily check of planeness of caps _____
- 32. Un-bonded pad usage records [C1231] _____
- 33. Technician certification _____
Name: _____

Compression Testing Machine

Y N Machine Information: [C39]

- 34. Maker: _____ Identification Number: _____ Capacity: _____ /K

Y N Calibration Information: [E4/12]

- 35. Calibration / Verification Date: ____ / ____ / ____ By: _____

Y N Apparatus:

- 36. Sufficient capacity and load rate _____
- 37. Lubricated spherical bearing block _____
- 38. Blocks plane to .001" in 6" _____
- 39. Bottom bearing block 1" thick, new .9 used _____
- 40. Unbonded caps [C1231] _____
- 41. Measuring tools _____

Y N Field Equipment

- 42. Slump cones [C143/12] _____ calib. by: _____
Calibration / Verification Date: ____ / ____ / ____
- 43. Air meter – volumetric [C173/12] _____ calib. by: _____
Calibration / Verification Date: ____ / ____ / ____
- 44. Air meter – pressure [C231/4] _____ calib. by: _____
Calibration / Verification Date: ____ / ____ / ____
- 45. Rebar locator (Pachometer/GPR) _____
- 46. Torque test equipment [E2428] _____ calib. by: _____
Calibration / Verification Date: ____ / ____ / ____
- 47. Proof load test equipment [E488/12] _____ calib. by: _____
Calibration / Verification Date: ____ / ____ / ____

LEA # _____ Date ____ / ____ / ____

4. MASONRY

Y N Basic Equipment:

1. Core shear test apparatus [CBC 2105A.4] _____
2. Wet saw _____
3. Length change apparatus [C426] _____
4. Cooling Chamber _____

Measurement

Y N Equipment: [C140]

5. Steel scale to 1/10" _____
6. Calipers _____
7. Cube molds and tampers [C109/30] _____

Oven:

8. Oven of sufficient size [C1093/4] _____
9. Ventilated oven controlled to 100° to 115°C? _____

Compression Testing Machine

Y N Machine Information: [C39]

10. Maker: _____ Identification Number: _____ Capacity: _____ /K

Y N Calibration Information: [E4/12]

11. Calibration / Verification Date: ____ / ____ / ____ By: _____

Y N Bearing Blocks:

12. Spherically seated block Upper: Lower:
13. Blocks plane to 0.001" in 6"? Upper: Lower:
14. Bearing face at least 6" in diameter? _____

Y N Bearing Plates: [C140]

15. Single thickness plate _____
16. Adequate thickness _____
17. ¼" greater than the specimen plate dimensions _____
18. Plane to 0.001" in 6" _____

Y N Capping Plates: [C1552]

19. Plate made of steel _____
20. Thickness not less than 1" _____
21. Capping surface level within 1/16"? _____
22. Plane to .003" in 16"? _____

Y N Casting Plates: [C1552]

23. Made of transparent glass _____
24. Thickness not less than ½" _____
25. Plane to .003" in 16" _____

5. STEEL / WELDING

Y N Field Equipment

1. Bolt tension calibrator _____ calib. by: _____
Calibration / Verification Date: ____ / ____ / ____
2. 200 to 600 ft. / lb. torque wrench [E2428/12] _____ calib. by: _____
Calibration / Verification Date: ____ / ____ / ____
3. 4 to 1 multiplier _____

LEA # _____ Date ____ / ____ / ____

- 4. Assortment of high impact sockets _____
- 5. Thickness gauges _____
- 6. Rockwell hardness [E18/12] _____ calib. by: _____
Calibration Date: ____ / ____ / ____
- 7. Brinell hardness [E10/12] _____ calib. by: _____
Calibration Date: ____ / ____ / ____
- 8. Fillet weld test gauge _____
- 9. Impact [E23/12] _____
- 10. Dye penetrant test equipment [E165] _____
- 11. Magnetic particle test equipment [E709/6] _____ calib. by: _____
Calibration / Verification Date: ____ / ____ / ____
- 12. Ultrasonic test equipment [E164] _____ calib. by: _____
Calibration / Verification Date: ____ / ____ / ____
- 13. Radiographic test equipment _____
- 14. DC volt / ammeters _____ calib. by: _____
Calibration / Verification Date: ____ / ____ / ____

6. REQUIRED REFERENCE MATERIAL

Y N Codes and Standards

- California Administrative Code (CAC); Title 24, Part 1
- 1. 2007 CAC _____
- 2010 CAC _____
- California Building Code (CBC); Title 24, Part 2 – Volumes 1 and 2
- 2. 2007 CBC _____
- 2010 CBC _____
- American Concrete Institute (ACI)
- 3. 318-08 _____
- 4. 530-08 _____
- American Institute of Steel Construction (AISC)
- 5. 341-05 _____
- 6. 360-05 _____
- American Welding Society (AWS)
- 7. Structural Welding Code –Steel D1.1-06 _____
- 8. Structural Welding Code –Sheet Steel D1.3 _____
- 9. Structural Welding Code –Reinforcing D1.4-05 _____
- American Society for Nondestructive Testing (ASNT)
- 10. CP-189-2001 _____
- 11. Written Practice for Nondestructive Testing _____
- Annual Book of ASTM Standards:
- 12. Volume 01.04 Steel; Structural and Reinforcing _____ year: _____
- 13. Volume 03.03 Nondestructive Testing _____ year: _____
- 14. Volume 04.01 Cement, Lime, and Gypsum _____ year: _____
- 15. Volume 04.02 Concrete and Aggregates _____ year: _____
- 16. Volume 04.03 Road and Paving Materials _____ year: _____
- 17. Volume 04.05 Mortars, Grouts, and Masonry _____ year: _____
- 18. Volume 04.08 Soil and Rock _____ year: _____

LEA # _____ Date ____ / ____ / ____

I, _____, acknowledge the deficiencies specified in this
PRINT NAME OF OFFICIAL
report and agree to send a written response and/or evidence of corrections (e.g. receipts,
photographs...) to the Division of the State Architect (DSA) headquarters office within
approximately 30 days.

Signature of Laboratory Official: _____

LEA Number: _____

DSA Representative: _____
