COUNTY OF SUTTER
PUBLIC WORKS DEPARTMENT

DATE: January 13, 2006

TO: HONORABLE BOARD OF SUPERVISORS

SUBJECT: ADOPTION OF UPDATED PUBLIC WORKS DESIGN STANDARDS

Background: The County of Sutter Design Standards was adopted by the Board of Supervisors in June 2002. Staff has updated these standards to conform to improved designs and building product/material improvements. Administrative errors and inconsistencies were also corrected. A summary of the more significant updates include:

1. Update bench mark requirements to NAVD 88.
2. Increase minimum thicknesses for roadway cross sections.
3. Add compliance language for National Pollution Discharge Elimination System.
4. Allow alternative water service pipe in accordance with latest Building Code.
5. Revise Standard Drawings as appropriate.

These County Design Standards are available on the County web site or can be purchased at the counter of the Public Works Department.

Additionally, the County routinely incorporates the current edition of the State of California Standard Specifications and Plans by reference into our County project plans and specifications. The current edition issued by Caltrans is July 2002.

The Public Works/Support Services Committee has reviewed this item and recommends approval.

Fiscal Impact: None. Hard copy standards are sold at cost.

Action Requested: The Board of Supervisors:

1. Adopt the updated Public Works Design Standards.

2. Authorize the Public Works Director to approve all County design standard drawings.

3. Adopt Caltrans current Standard Plans and Specifications.

Respectfully submitted,

GEORGE L. MUSALLAM
PUBLIC WORKS DIRECTOR

ALBERT L. SAWYER, P.E.
ASST. PUBLIC WORKS DIRECTOR

KX:jah
393:DESIGNSTD
Attach.

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SUTTER COUNTY STANDARD PLANS AND SPECIFICATIONS

COMMENTS

1. Section 3-1, Paper Details

   Change the first sentence of a paragraph of Section 3-1 to read "All improvement plans shall be prepared on plan and profile sheet 24"x 36" or special professional engineer's sheets may be accepted by the County."

2. Section 3-6 (G), Bench Marks

   Update the bench marks requirement to NAVD 88.

3. Section 4-2 (B), Class "C" street improvement zoning districts requirement.

   Update Class "C" street improvement zoning districts to zoning AG.

4. Section 4-3 (A), Table 4-1

   Update the Table 4-1, minimum structural section for Minor Residential Street 2" AC to 2 ½" AC and 6" AB to 8"AB, Standard Residential Street 3" AC to 3 ½" AC and 6" AB to 8" AB, Collector Street 3" AC to 3 ½" AC and 6" AB to 8" AB, Industrial/Commercial Street 3" AC to 3 ½" AC and 6" AB to 8" AB, Minor Arterial Street 4" AC to 5" AC and 6" AB to 8" AB, and Major Arterial Street 4" AC to 5" AC and 6" AB to 8"AB.

5. Section 4-3 (B), minimum allowable thickness of roadbed section

   Update the minimum thickness of roadbed section: 40 foot streets serving zones R-1 and R-2 roadbed section 2" AC and 6" AB to 2 ½" AC and 8" AB; 48 foot and 60 foot streets roadbed section 3" AC and 6" AB to 3 ½" AC and 8" AB; 86 foot and 110 foot streets roadbed section 4" AC and 6" AB to 5" AC and 8" AB; industrial and commercial streets roadbed section 3" AC and 6" AB to 3 ½" AC and 8" AB.

6. Section 4-16, Pavement Corner Radii

   Update the Class "C" street minimum radius to 25 feet.

7. Add Section 5-3, Compliance with National Pollution Discharge Elimination System (NPDES) to the County Design Standards.

8. Section 7-9, Flushing Branch Criteria

   Revise second sentence of the Section 7-9 to refer DWG No. S-1A.

9. Revise the Design Standard DWG No. D-1A "Chain Link Fence Detail Two".

10. Revise the Design Standard DWG No. D-4 "Field Drop Inlet".

11. Revise the Design Standard DWG No. D-5 "Catch Basin".

12. Revise the Design Standard DWG No. D-7 "Drainage Inlet".

13. Revise the Design Standard DWG No. D-10 "Standard Precast Storm Manhole".

14. Revise the Design Standard DWG No. D-14 "Grate Type Manhole Cover".

15. Revise the Design Standard DWG No. D-17 "Trash Rack (33" Pipe or Larger)".

16. Revise the Design Standard DWG No. D-18 "Pipe Outfall-Access Control Rack".

17. Revise the Design Standard DWG No. D-19 "Erosion Control Pipe Discharge".

18. Revise the note of DWG No. D-21 "Culvert OutFall" to refer to Sections 72 of the Caltrans Standard Specifications.

19. Revise the Design Standard DWG No. D-22 "Rock Lined Channel Section".

20. Revise the Design Standard DWG No. D-26 "NO DUMPING PUBLIC NOTICE DETAIL".

21. Add a Design Standard Drawing No. D-27 "Sand and Oil Trap Manhole with Flat Slab Top" to the County Design Standards.

22. Add a Design Standard Drawing No. D-28 "Headwall" to the County Design Standards.

23. Add a Design Standard Drawing No. D-29 "Sandbag" to the County Design Standards.

24. Revise the Design Standard DWG No. H-2 "Barrier Curb".

25. Revise the Design Standard DWG No. H-3 "Rural Road Sections"

26. Revise the Design Standard DWG No. H-4 "Typical Sections Urban Residential Streets".

27. Revise the Design Standard DWG No. H-5 "Typical Sections 60' Collector Street".

28. Revise the Design Standard DWG No. H-6 "Typical Sections 86' Minor Arterial"

29. Revise the Design Standard DWG No. H-7 "Typical Section 110' Major Arterial"

30. Revise the Design Standard DWG No. H-8 "Standard Cul De Sac"

31. Revise the Design Standard DWG No. H-9 "Hamerhead Cul De Sac"

32. Revise the Design Standard DWG No. H-10 "90° Intersection Elbow".

33. Revise the Design Standard DWG No. H-11 "Widening Details at Major Street Intersections".

34. Revise the Design Standard Drawing No. H-12 "Driveway Connection".

35. Revise the Design Standard Drawing No. H-14 "Visibility Requirements Residential Streets".

36. Revise the Design Standard Drawing No. H-16 "Standard Street Name Sign Type "A"".

37. Revise the Design Standard Drawing No. H-16A "Standard Street Name Sign Type "B"".

38. Revise the Design Standard Drawing No. H-18 "Residential Driveway".

39. Revise the Design Standard Drawing No. H-19 "Commercial Driveway".

40. Revise the Design Standard Drawing No. H-21 "Standard Timber Barricade".

41. Revise Design Standard Drawing No. H-25 "Object Marker" that refers to Caltrans STD Plan A73A (July 1992) to conform to the current Caltrans STD Plan A73A (July 2002).

42. Revise the Design Standard Drawing No. H-26 "Joint Utility Trench".

43. Revise the Design Standard Drawing No. H-27 "Standard Sidewalk".

44. Revise the Design Standard Drawing No. H-28 "Type I Trench Restoration".

45. Revise the Design Standard Drawing No. H-28A "Type II Trench Restoration".

46. This Design Standard Drawing No. H-29 needs the Director's approval signature. It was missing from the previous adopted Design Standards.

47. Revise the Design Standard Drawing No. H-30 "Monument Well".

48. Revise the Design Standard Drawing No. H-31 "Standard Stop Sign".

49. Add a Design Standard Drawing No. S-1A "Flushing Branch" to the County Design Standards.

50. Add a Design Standard Drawing No. S-1B "Flusher Branch Frame & Cover", to the County Design Standards.

51. Revise the Design Standard Drawing No. S-2 "Sewer Service".

52. Revise the Design Standard Drawing No. S-3 "Standard Sewer Manhole".

53. Revise the Design Standard Drawing No. S-4 "Special Sewer Manhole".

54. Revise the Design Standard Drawing No. S-5 "Sewer Access Control".

55. This Design Standard Drawing No. S-6 needs the Director's approval signature. It was missing from the previous adopted Design Standards.

56. This Design Standard Drawing No. S-6A needs the Director's approval signature. It was missing from the previous adopted Design Standards.

57. This Design Standard Drawing No. S-7 needs the Director's approval signature. It was missing from the previous adopted Design Standards.

58. Revise the Design Standard Drawing No. S-8 "Pipe Bedding & Initial Backfill".

59. Revise the Design Standard Drawing No. S-9 "Sewer Drop Connections".

60. Revise the Design Standard Drawing No. W-1 "Fire Hydrant".

61. Revise the Design Standard Drawing No. W-5 "Single Water Service" service pipe to HDPE service pipe and add the required of drain rock and trace wire to the note.