SITE IMPROVEMENTS LEGEND

Pavement Rehabilitation Details:
1. The pavement rehabilitation details are presented in the Kleinfelder pavement evaluation report for Library 21C dated August 10, 2016.
2. All pavement rehabilitation work must comply with fines.
3. Contractor shall submit mix design to the engineer for approval seven (7) days prior to the beginning of pavement operation. The mix design shall be developed using the "spot superpave mix design procedures per section 403.03 of the "standard specification for road and bridge construction".
4. Removal and replacement of aggregate base may be required to achieve proposed asphalt section thickness and maintain positive drainage from library.
5. Asphalt shall be placed in the direction of traffic. See sheet 8 for direction of traffic.
6. For pavement rehabilitation details see sheet 8 and 10.
7. Remove and replace concrete sidewalk ramp installed per details on sheet 7.
8. See sheet 9 for phasing plan.

Pavement Rehabilitation Notes:
1. The contractor assures responsibility that all elements are constructed in accordance with Federal ADA Standards (2010 ADA).
2. All accessible routes shall be constructed with a running slope not steeper than 1:12 and a cross slope not steeper than 1:48 (2010 ADA Section 403.3).
3. All changes in level on an accessible route greater than 1:4" or 1/2" shall be railed and shall comply with 2010 ADA Sections 403 or 406 (2010 ADA Sections 303.3, 303.4).
4. All ramps shall be constructed with a running slope not steeper than 1:12 and a cross slope not steeper than 1:48 (2010 ADA Sections 403.2, 405.3).
5. The pavement repair area was estimated based on digital level and/or laser level data. The contractor shall verify that the slopes as designed are constructed to be compliant with the 2010 ADA. Accordingly, the pavement repair area may need to be adjusted if different conditions are encountered during construction.
6. The following are standard design slopes that have been adopted to allow for variability in construction tolerances:

<table>
<thead>
<tr>
<th>Element</th>
<th>Accessible Route</th>
<th>Ramp Run</th>
<th>Ramp Rise</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:12</td>
<td>1:48</td>
<td>30 inches</td>
<td></td>
</tr>
</tbody>
</table>

Kleinfelder recommends the owner conduct a post-construction assessment of the ADA elements for compliance with the 2010 ADA.
NOTES:

All items that were originally painted, stenciled, or striped should be repainted, stenciled, or striped with the same color and dimensions per typical striping details 8 and 9 on Sheet 9.

Parking Stall Count

<table>
<thead>
<tr>
<th></th>
<th>Existing</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Van Accessible Stalls</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Total ADA Stalls</td>
<td>11</td>
<td>9</td>
</tr>
<tr>
<td>Total Stall Count</td>
<td>419</td>
<td>403</td>
</tr>
</tbody>
</table>
ADA CHECK PLAN

5

1801 California Street, Suite #1100
Denver, CO 80202
Phone: 303-237-6601
www.kleinfelder.com

CAD FILE:
W:\20164613 - Library 21c Pavement Repair Plan\2.0 Technical Information\2.8 Technical And CADD Figures\Library 21c_90% Plans.dwg

LAYOUT:
ADA Check Plan 1

NOTES:
1. CURB RAMPS WITH NON-COMPLIANT SLOPE SHALL BE REMOVED AND REPLACED ACCORDING TO CURB RAMP DETAIL 6 ON SHEET 6.
2. NON-COMPLIANT ADA PARKING STALLS AND ACCESS AISLES SHALL BE REGRADED TO MEET BUT NOT EXCEED THE FOLLOWING SLOPES:

<table>
<thead>
<tr>
<th>ELEMENT</th>
<th>CROSS SLOPE</th>
<th>RUNNING SLOPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCRETE ACCESSIBLE ROUTE</td>
<td>1.8%</td>
<td>4.8%</td>
</tr>
<tr>
<td>ASPHALT ACCESSIBLE ROUTE</td>
<td>1.5%</td>
<td>4.5%</td>
</tr>
<tr>
<td>CONCRETE ACCESSIBLE PARKING</td>
<td>1.8%</td>
<td>1.8%</td>
</tr>
<tr>
<td>ASPHALT ACCESSIBLE AREA</td>
<td>1.5%</td>
<td>1.5%</td>
</tr>
<tr>
<td>CONCRETE RAMPS</td>
<td>1.8%</td>
<td>7.8%</td>
</tr>
<tr>
<td>CONCRETE LANDINGS AND DOORWAYS</td>
<td>1.8%</td>
<td>1.8%</td>
</tr>
</tbody>
</table>

EXISTING LEGEND

EXISTING CONDITIONS
EXISTING NON-COMPLIANT SLOPE
EXISTING SLOPE
NOTES:

1. CURB RAMPS WITH NON-COMPLIANT SLOPE SHALL BE REMOVED AND
   REPLACED ACCORDING TO CURB RAMPS DETAIL ON SHEET 6.

2. NON-COMPLIANT ADA PARKING STALLS AND ACCESS AISLES SHALL BE
   REGRADED TO MEET ADA SPECIFICATIONS ON SHEET 2.

3. EXISTING ADA RAMPS IN AREA 2 TO BE REMOVED. SEE AREAS 1 AND 3
   FOR PROPOSED ADA AREAS.

4. NON-COMPLIANT ADA PARKING STALLS AND ACCESS AISLES SHALL BE
   REGRADED TO MEET BUT NOT EXCEED THE FOLLOWING SLOPES:

<table>
<thead>
<tr>
<th>ELEMENT</th>
<th>CROSS SLOPE</th>
<th>RUNNING SLOPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCRETE ACCESSIBLE ROUTES</td>
<td>1.8%</td>
<td>4.8%</td>
</tr>
<tr>
<td>ASPHALT ACCESSIBLE ROUTES</td>
<td>1.5%</td>
<td>4.5%</td>
</tr>
<tr>
<td>CONCRETE ACCESSIBLE PARKING</td>
<td>1.8%</td>
<td>1.8%</td>
</tr>
<tr>
<td>ASPHALT ACCESSIBLE PARKING</td>
<td>1.5%</td>
<td>1.5%</td>
</tr>
<tr>
<td>CONCRETE RAMPS</td>
<td>1.8%</td>
<td>7.8%</td>
</tr>
<tr>
<td>CONCRETE LANDINGS AND DOORWAYS</td>
<td>1.8%</td>
<td>1.8%</td>
</tr>
</tbody>
</table>

5. GRADING FOR ACCESSIBLE
   STALLS NOT REQUIRED IN
   AREA 2. SEE NOTE 3.

6. AREA 1

7. AREA 2

8. RAMP 4

9. RAMP 5

10. AREA 3

11. EXISTING CONDITION

12. NON-COMPLIANT SLOPE

13. EXISTING SLOPE

14. CURB RAMPS DETAIL ON SHEET 6

15. ADA PARKING STALLS AND ACCESS AISLES ON SHEET 2

16. ADA RAMPS IN AREA 2

17. PROPOSED ADA AREAS

18. NON-COMPLIANT ADA SLOPES AND ACCESS AISLES

19. MEET BUT NOT EXCEED SLOPES

20. CONCRETE ROUTES

21. ASPHALT ROUTES

22. CONCRETE PARKING

23. ASPHALT PARKING

24. CONCRETE RAMPS

25. CONCRETE LANDINGS AND DOORWAYS

26. GRADING FOR ACCESSIBLE

27. STALLS NOT REQUIRED IN

28. AREA 2

29. NOTE 3

30. 1.8%

31. 2.0%

32. 2.2%

33. 2.4%

34. 2.6%

35. 2.8%

36. 3.0%

37. 3.2%

38. 3.4%

39. 3.6%

40. 3.8%

41. 4.0%

42. 4.2%

43. 4.4%

44. 4.6%

45. 4.8%

46. 5.0%

47. 5.2%

48. 5.4%

49. 5.6%

50. 5.8%

51. 6.0%

52. 6.2%

53. 6.4%

54. 6.6%

55. 6.8%

56. 7.0%

57. 7.2%

58. 7.4%

59. 7.6%

60. 7.8%

61. 8.0%

62. 8.2%

63. 8.4%

64. 8.6%

65. 8.8%

66. 9.0%

67. 9.2%

68. 9.4%

69. 9.6%

70. 9.8%

71. 10.0%
NOTES:
1. SIDEWALK TO BE PCC APPROVED CITY MIX.
2. SEE DETAIL 3 SHEET 9 FOR SIDEWALK THICKNESS.
3. SIDEWALK JOINTS PER DETAILS ON SHEET 10.
4. EXISTING SIDEWALK TO BE SAWCUT AND JOINT PLACED AT TRANSITION TO NEW SIDEWALK PER DETAILS ON SHEET 10.
5. MATCH EXISTING GRADE AT LIMITS OF SIDEWALK. SEE ADA NOTES ON SHEET 2 FOR ADA COMPLIANCE CRITERIA.

PLAN VIEW (SCALE 1" = 10')

PROFILE VIEW A-A' (SCALE 1" = 5')

PROFILE VIEW B-B' (SCALE 1" = 5')

NOTES:
1. PAVING TO BE UNFRACTIONED ACCORDING TO ASTM C1613
2. SIDEWALK TO BE SAWCUT AND JOINT PLACED AT TRANSITION TO NEW SIDEWALK PER DETAILS ON SHEET 10.
3. HANDRAIL MANUFACTURER SHALL DESIGN HANDRAIL FOR THE FOLLOWING DESIGN LOADS:
   - 50 PLF OR 200 LBS IN ANY DIRECTION, WHICHEVER IS GREATER
   - SEE RAMP ELEVATION FOR LIMITS OF HANDRAIL
   - SEE DETAIL 3 FOR CONNECTION DETAIL

2" Ø GALV. STEEL PIPE (TYP.)

1'-0" MIN. 2" Ø GALV. HILTI KWIK BOLT 3 (TYP. OF 4)

5" MIN.

6" MIN.

SEE DETAIL 3 FOR CONNECTION DETAIL
1. ALL SUBGRADE AND PAVEMENT OPERATIONS AND MACHINERY THAT ARE NOT INCLUDED IN THE ABOVE SHOULD COMPLY WITH THE MINIMUM REQUIREMENTS COST STANDARDS AND SPECIFICATIONS MANUAL.

2. NOTES

1. SLOPE IN CURB PLANTER AREA SHALL BE AT MAXIMUM 5% LONGITUDINAL SLOPE TO DRAINAGE STRUCTURES. 2. COMPLETELY AVOID INSTALLATION OF CURB DIRECTLY TOUCHING UNDERGROUND UTILITIES. 3. CONTRACTOR MUST PROVIDE DETECTABLE WARNING RIBBONS AT A MINIMUM 1'-0" HORIZONTAL SPACING ALONG CURB AT 5'-0" INTERVALS. 4. CONTRACTOR MUST INSTALL A MINIMUM OF 1'-0" HORIZONTAL SPACING ALONG CURB AT 5'-0" INTERVALS. 5. ALL CURB MUST BE TUCK POINTED. 6. LIGHT BROOM FINISH ON ALL EXTERIOR CONCRETE.

3. SPEED BUMP DETAIL

1. Curb and gutter fulldepth/flush cut in concrete to match existing. 2. Cutout in curb shall be minimum 1'-0" wide by 12" deep. 3. Minimum leading blip in any direction is 2'-0" maximum leading blip. 4. Maintain bending radius of 3'-0" minimum. 5. Minimum leading blip (H') varies. 6. Maximum landing slope in any direction is 9.5% maximum. 7. Maximum landing dimensions 5'x5'. 8. Traverse direction to slope of ramp (if required). 9. Required if white or yellow contrast against blue background. 10. Required if required, shown adjacent to curb.

4. CONCRETE CURB RAMP

1. Height from pavement surface to bottom of 3'-0" landing (3'-0" in poor drainage). 2. Minimum landing blip (H') varies. 3. Maximum landing slope in any direction is 9.5% maximum. 4. Minimum leading blip (H') varies. 5. Required if white or yellow contrast against blue background. 6. Required if required shown adjacent to curb.

5. CONCRETE CURB AND GUTTER

1.下さい cheering CURB AND GUTTER TYPE N.T.S. 2. MATCH EXISTING THICKNESS IN CURB AND GUTTER FOR MAXIMUM ALLOWABLE ADA STALL SLOPES. 3. MATCH EXISTING THICKNESS IN CURB AND GUTTER FOR MAXIMUM ALLOWABLE ADA STALL SLOPES. 4. MATCH EXISTING THICKNESS IN CURB AND GUTTER FOR MAXIMUM ALLOWABLE ADA STALL SLOPES. 5. MATCH EXISTING THICKNESS IN CURB AND GUTTER FOR MAXIMUM ALLOWABLE ADA STALL SLOPES. 6. MATCH EXISTING THICKNESS IN CURB AND GUTTER FOR MAXIMUM ALLOWABLE ADA STALL SLOPES. 7. MATCH EXISTING THICKNESS IN CURB AND GUTTER FOR MAXIMUM ALLOWABLE ADA STALL SLOPES. 8. MATCH EXISTING THICKNESS IN CURB AND GUTTER FOR MAXIMUM ALLOWABLE ADA STALL SLOPES. 9. MATCH EXISTING THICKNESS IN CURB AND GUTTER FOR MAXIMUM ALLOWABLE ADA STALL SLOPES. 10. MATCH EXISTING THICKNESS IN CURB AND GUTTER FOR MAXIMUM ALLOWABLE ADA STALL SLOPES.