ADDENDUM NO. 1

TO THE CONTRACT DOCUMENTS

FOR

PACIFIC HIGH SCHOOL – MODERNIZATION

FOR THE
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT
777 North F Street
San Bernardino, CA 92410

DSA No. 04-118035    File No. 36-H7    RCA Job No. 1-78-21

NOTICE TO BIDDERS

This Addendum forms a part of the Contract and modifies the original documents DSA Approved on January 16, 2020. It is intended that all work affected by the following modifications shall conform with related provisions and general conditions of the contract of the original drawings and specifications. Modify the following items wherever appearing in any drawing or sections of the specifications. Acknowledge receipt of Addendum No. 1 in the space provided on the Bid Form. Failure to do so may subject bidder to disqualification.

GENERAL

Item No. 1.1    General Items:
   1.1.1    Reference Front End Bid Documents, campus as-built drawings are available upon request by contacting the District’s Plans and Records Department
   1.1.2    For bidder reference, the Project Estimate is $21.5 million.

CHANGES TO THE SPECIFICATIONS

Item No. 1.2    Reference Section 01 10 00 - Summary:
   1.2.1    Item 1.08.E.1&2, revise hours of Time Restrictions to read "hours of 7am – 8pm as indicated in City of San Bernardino Municipal Code 8.54.070"

Item No. 1.3    Reference Section 01 91 13 - General Commissioning Requirements:
   1.3.1    Paragraph 1.02.A, remove items 4.b as it does not apply to project

Item No. 1.4    Reference Section 01 31 14 – Facility Services Coordination
   1.4.1    Remove paragraph 1.03 in its entirety

Item No. 1.5    Reference Section 01 32 16 - Construction Progress Schedule:
   1.5.1    Item 1.05.A.3.a, revise to read "Knowledge of critical path method (CPM) scheduling utilizing MS Project or Primavera latest release software"
1.5.2 Remove Paragraph 3.05 in its entirety.

Item No. 1.6 Reference Section 01 60 00 - Product Requirements:
1.6.1 Remove Item 2.02.D.2.

Item No. 1.7 Reference Section 01 70 00 - Execution and Closeout Requirements:
1.7.1 Item 1.06.F.2, revise hours mentioned to read “hours of 7am – 8pm as indicated in City of San Bernardino Municipal Code 8.54.070”.

Item No. 1.8 Reference Section 01 71 23 – Field Engineering
1.8.1 Remove paragraph 3.06 in its entirety
1.8.2 Paragraph 3.07.A, revise to read as follows:
“Email copies of Contractor’s daily reports to Architect weekly after the day covered in the associated report. Daily report shall be signed by responsible member of Contractor’s staff, such as project manager or superintendent, or foreman designated by Contractor as having authority to sign daily reports.”

Item No. 1.9 Reference Section 01 78 00.01 - Warranty Form Letter:
1.9.1 For clarity, remove entire section since District will provide their own warranty form letter.

Item No. 1.10 Reference Section 02 41 00 - Demolition:
1.10.1 Remove Item 3.01.A, existing buildings G & H in way of new construction were demolished in previous phase.

Item No. 1.11 Reference Section 03 35 11 – Concrete Floor Finishes:
1.11.1 Replace section in its entirety per attached revised Section 03 35 11

Item No. 1.12 Reference Section 04 20 01 – Masonry Veneer:
1.12.1 Revise per attached revised section

Item No. 1.13 Reference Section 05 40 00 – Cold-Formed Metal Framing:
1.13.1 Item 2.02.B.2, Remove requirement in its entirety, does not apply to project

Item No. 1.14 Reference Section 05 51 33 – Metal Ladders:
1.14.1 Revise per attached revised Section 05 51 33

Item No. 1.15 Reference Section 06 41 00 - Architectural Wood Casework:
1.15.1 Revise per attached revised Section 06 41 00

Item No. 1.16 Reference Section 07 21 00 - Thermal Insulation:
1.16.1 Remove Paragraph 3.02, does not apply to project

Item No. 1.17 Reference Section 07 54 00 - Thermoplastic Membrane Roofing:
1.17.1 Paragraphs 2.03.A.1.c and 2.03.B.5, revise insulation thermal value to be R-38.

Item No. 1.18 Reference Section 08 06 71 – Door Hardware Schedule
1.18.1 Revise per attached revised Section 08 06 71

Item No. 1.19 Reference Section 08 31 00 - Access Doors and Panels:
1.19.1 Revise per attached revised Section 08 31 00

Item No. 1.20 Reference Section 09 21 16 - Gypsum Board Assemblies
1.20.1 Remove paragraph 2.03.E in its entirety

Item No. 1.21 Reference Section 09 51 00 – Suspended Acoustical Ceilings
1.21.1 Item 2.02.A.1.a, revise to read “Local contact: Kolby Johnson (949)344-8612”

Item No. 1.22 Reference Section 09 30 00 - Tiling:
1.22.1 Revise per attached revised Section 09 30 00
Item No. 1.23  Reference New Section 09 68 13 – Tile Carpeting:
   1.23.1 Add attached new Section 09 68 13 in its entirety

Item No. 1.24  Reference Section 09 91 13 - Exterior Painting:
   1.24.1 Item 2.01.B.1, revise paint manufacturer to PPG Industries in lieu of Behr.
   1.24.2 Remove Item 2.03.A.2.a.1, paint manufacturer not applicable to this project.
   1.24.3 Remove Item 2.03.A.2.b.2, paint manufacturer not applicable to this project.

Item No. 1.25  Reference Section 09 91 23 - Interior Painting:
   1.25.1 Item 2.01.B.1, revise paint manufacturer to PPG Industries in lieu of Behr.

Item No. 1.26  Reference Section 10 11 23.13 – Fixed Tackboards:
   1.26.1 Item 2.01.A.1, revise to read:
      “Fabric as scheduled. Refer to Architect’s Colors, Materials, & Finishes Legend on Sheet ID1.1”
   1.26.2 Item 2.02.A.5, revise to read:
      “Edge Molding: Provide hidden channel as indicated on Architect’s detail 28/AD7.1.”

Item No. 1.27  Reference Section 10 28 00 - Toilet Accessories:
   1.27.1 Remove Item 1.07 in its entirety, refer to approved Detail 23/AD1.2 for installation requirements.
   1.27.2 Remove Items 1.01.C & 2.08, Electric hand dryers no longer apply to project.
   1.27.3 Remove Item 2.03.B.2, does not apply to project
   1.27.4 Revise Item 2.03.D, to be multi-roll, surface mounted Bobrick B-2888
   1.27.5 Add Item 2.03.H.2, Recess mounted sanitary disposal in accessible compartment Bobrick B-353
   1.27.6 Remove Item 2.03.I, does not apply to project
   1.27.7 Remove Item 2.03.K, does not apply to project
   1.27.8 Remove Item 2.03.L, does not apply to project
   1.27.9 Revise Item 2.03.M, to include Semi-Recessed Bobrick B-3944, use at multi-occupant restrooms.
      Fully-Recessed Bobrick B-369 to be used at single-occupant restrooms.
   1.27.10 Revise Item 2.03.O, to be O.F.O.I.

Item No. 1.28  Reference Section 11 52 16 - Audio-Video Mounts:
   1.28.1 Remove Item 1.07 in its entirety, refer to approved Detail 23/AD1.2 for installation requirements.

Item No. 1.29  Reference Section 28 10 00 – Access Control:
   1.29.1 Remove section in its entirety, no longer applies to project

Item No. 1.30  Reference Section 28 13 16 – Access Control Equipment:
   1.30.1 Remove section in its entirety, no longer applies to project

Item No. 1.31  Reference Section 32 11 23 – Aggregate Base Courses:
   1.31.1 Item 3.03.D.1, revise to read “Compact to 95 percent at vehicular traffic areas and 90 percent at
      pedestrian traffic areas, unless noted otherwise in project specific geotechnical investigation
      report.”

Item No. 1.32  Reference Section 32 33 00 – Site Furnishings
   1.32.1 Revise per clouded areas of attached section 32 33 00

Item No. 1.33  Reference Section 32 93 00 – Plants
   1.33.1 Paragraph 1.08.A.1, revise to read “Maintenance Period: 180 days from date of Acceptance of
      Planting”

CHANGES TO THE DRAWINGS

Item No. 1.34  Reference Sheet T1:
   1.34.1 General Note 10, remove requirement for R.B.I.P. Does not apply to project.

Item No. 1.35  Reference Sheet C-1.1:
   1.35.1 Revised Grading Construction Notes, per clouded areas of attached revised sheet C-1.1
Item No. 1.36  Reference Sheet C-2.1:
    1.36.1 Removed C.I.P. seat walls & ramps, per clouded areas of attached revised sheet C-2.1

Item No. 1.37  Reference Sheet C-2.2:
    1.37.1 Removed C.I.P. seat walls & ramps, and sitework North of existing Buildings N, O, P, per clouded areas of attached revised sheet C-2.2

Item No. 1.38  Reference Sheet C-2.3:
    1.38.1 Removed C.I.P. seat walls, per clouded areas of attached revised sheet C-2.3

Item No. 1.39  Reference Sheet C-2.4:
    1.39.1 Removed C.I.P. seat walls & revised sitework South of existing Building P, per clouded areas of attached revised sheet C-2.4

Item No. 1.40  Reference Sheet C-2.5:
    1.40.1 Revise Grading Construction Notes, per clouded areas of attached revised sheet C-2.5

Item No. 1.41  Reference Sheet C-3.1:
    1.41.1 Revised linework of adjacent utilities from project A#04-117817 for reference. See clouded areas of attached revised sheet C-3.1

Item No. 1.42  Reference Sheet C-3.2:
    1.42.1 Revise per clouded areas of attached revised sheet C-3.2

Item No. 1.43  Reference Sheet C-3.5:
    1.43.1 Revise per clouded areas of attached revised sheet C-3.5

Item No. 1.44  Reference Sheet C-3.6:
    1.44.1 Revise per clouded areas of attached revised sheet C-3.6

Item No. 1.45  Reference Sheet C-3.7:
    1.45.1 Revise per clouded areas of attached revised sheet C-3.7

Item No. 1.46  Reference Sheet C-3.8:
    1.46.1 Revise per clouded areas of attached revised sheet C-3.8

Item No. 1.47  Reference Sheet C-3.9:
    1.47.1 Revise per clouded areas of attached revised sheet C-3.9

Item No. 1.48  Reference Sheet C-4.1:
    1.48.1 Revise per clouded areas of attached revised sheet C-4.1

Item No. 1.49  Reference Sheet C-4.2:
    1.49.1 Revise per clouded areas of attached revised sheet C-4.2

Item No. 1.50  Reference Sheet C-4.3:
    1.50.1 Revise per clouded areas of attached revised sheet C-4.3

Item No. 1.51  Reference Sheet C-4.4:
    1.51.1 Revise per clouded areas of attached revised sheet C-4.4

Item No. 1.52  Reference Sheet C-4.5:
    1.52.1 Revise per clouded areas of attached revised sheet C-4.5

Item No. 1.53  Reference Sheet C-5.1:
    1.53.1 Revise Grading Construction Notes, per clouded areas of attached revised sheet C-5.1

Item No. 1.54  Reference Sheet C-5.2:
    1.54.1 Revise Grading Construction Notes, per clouded areas of attached revised sheet C-5.2
1.54.2 Planter Area Drain Detail 84, remove detail in its entirety

Item No. 1.55 Reference Sheet L1.1A:
1.55.1 Revise site lighting locations, remove C.I.P. seat walls & ramps, and revise hardscape materials, per clouded areas of attached revised sheet L1.1A

Item No. 1.56 Reference Sheet L1.1B:
1.56.1 Revise per clouded areas of attached revised sheet L1.1A

Item No. 1.57 Reference Sheet L1.2A:
1.57.1 Removed C.I.P. seat walls & ramps, and sitework North of existing Buildings N, O, P, per clouded areas of attached revised sheet L1.2A

Item No. 1.58 Reference Sheet L1.2B:
1.58.1 Revise per clouded areas of attached revised sheet L1.2B

Item No. 1.59 Reference Sheet L1.3A:
1.59.1 Removed C.I.P. seat walls, per clouded areas of attached revised sheet L1.3A

Item No. 1.60 Reference Sheet L1.3B:
1.60.1 Revise per clouded areas of attached revised sheet L1.3B

Item No. 1.61 Reference Sheet L1.4A:
1.61.1 Removed C.I.P. seat walls & revised sitework South of existing Building P, per clouded areas of attached revised sheet L1.4A

Item No. 1.62 Reference Sheet L1.4B:
1.62.1 Revise per clouded areas of attached revised sheet L1.4B

Item No. 1.63 Reference Sheet L1.5A:
1.63.1 Revise legend per clouded areas of attached revised sheet L1.5A

Item No. 1.64 Reference Sheet L1.6:
1.64.1 Revise hardscape legend per clouded areas of attached revised sheet L1.6

Item No. 1.65 Reference Sheet L1.7:
1.65.1 Revise per clouded areas of attached revised sheet L1.7

Item No. 1.66 Reference Sheet L1.8:
1.66.1 Revise per clouded areas of attached revised sheet L1.8

Item No. 1.67 Reference Sheet L1.9:
1.67.1 Detail 9, remove detail in its entirety

Item No. 1.68 Reference Sheet L1.10:
1.68.1 Detail 2, remove detail in its entirety

Item No. 1.69 Reference Sheet L1.11:
1.69.1 Revise per clouded area of attached revised sheet L1.11

Item No. 1.70 Reference Sheet L2.1:
1.70.1 Revise irrigation per clouded areas of attached revised sheet L2.1

Item No. 1.71 Reference Sheet L2.2:
1.71.1 Revise irrigation per clouded areas of attached revised sheet L2.2

Item No. 1.72 Reference Sheet L2.3:
1.72.1 Revise irrigation per clouded areas of attached revised sheet L2.3
Item No. 1.73  Reference Sheet L2.4:
1.73.1  Revise irrigation per clouded areas of attached revised sheet L2.4

Item No. 1.74  Reference Sheet L2.6:
1.74.1  Revise per clouded areas of attached revised sheet L2.6

Item No. 1.75  Reference Sheet L3.1:
1.75.1  Revise planting per clouded areas of attached revised sheet L3.1

Item No. 1.76  Reference Sheet L3.2:
1.76.1  Revise planting per clouded areas of attached revised sheet L3.2

Item No. 1.77  Reference Sheet L3.3:
1.77.1  Revise planting per clouded areas of attached revised sheet L3.3

Item No. 1.78  Reference Sheet L3.4:
1.78.1  Revise planting per clouded areas of attached revised sheet L3.4

Item No. 1.79  Reference Sheet L3.6:
1.79.1  Revise planting legend per clouded areas of attached revised sheet L3.6

Item No. 1.80  Reference Sheet L3.7:
1.80.1  Detail 6, remove detail in its entirety

Item No. 1.81  Reference Sheet D-1.0:
1.81.1  Revise per clouded areas of attached revised Sheet D-1.0

Item No. 1.82  Reference Sheet D-1.2:
1.82.1  Revise per clouded areas of attached revised Sheet D-1.2

Item No. 1.83  Reference Sheet D-1.3:
1.83.1  Revise per clouded areas of attached revised Sheet D-1.3

Item No. 1.84  Reference Sheet D-1.4:
1.84.1  Revise per clouded areas of attached revised Sheet D-1.4

Item No. 1.85  Reference Sheet AS-1.0:
1.85.1  Removed C.I.P. seat walls & ramps, and sitework North of existing Buildings N, O, P, per clouded areas of attached revised sheet AS-1.0

Item No. 1.86  Reference Sheet AS-2.1:
1.86.1  Revise per clouded areas of attached revised sheet AS-2.1

Item No. 1.87  Reference Sheet AS-2.2:
1.87.1  Revise per clouded areas of attached revised sheet AS-2.2

Item No. 1.88  Reference Sheet AS-2.3:
1.88.1  Revise per clouded areas of attached revised sheet AS-2.3

Item No. 1.89  Reference Sheet AS-2.4:
1.89.1  Revise per clouded areas of attached revised sheet AS-2.4

Item No. 1.90  Reference Sheet ASD-1.0:
1.90.1  Detail 27, revise retaining wall dimensional note per attached sketch ASK-1.1
1.90.2  Detail 28, revise chainlink fence post notes per attached sketch ASK-1.2

Item No. 1.91  Reference Sheet A1-1.1:
1.91.1  Revise per clouded areas of attached revised sheet A1-1.1
Item No. 1.92  Reference Sheet A1-1.2:
    1.92.1 Revise per clouded areas of attached revised sheet A1-1.2

Item No. 1.93  Reference Sheet A1-2.1:
    1.93.1 Revise ceiling & lighting layout per clouded areas of attached revised sheet A1-2.1

Item No. 1.94  Reference Sheet A1-2.2:
    1.94.1 Revise ceiling & lighting layout per clouded areas of attached revised sheet A1-2.2

Item No. 1.95  Reference Sheet A1-3.1:
    1.95.1 Revise roofing materials per clouded areas of attached revised sheet A1-3.1

Item No. 1.96  Reference Sheet A1-3.2:
    1.96.1 Revise per clouded areas of attached revised sheet A1-3.2

Item No. 1.97  Reference Sheet A1-4.1:
    1.97.1 Revise exterior materials per clouded areas of attached revised sheet A1-4.1

Item No. 1.98  Reference Sheet A1-4.2:
    1.98.1 Revise per clouded areas of attached revised sheet A1-4.2

Item No. 1.99  Reference Sheet A1-5.1:
    1.99.1 Revise per clouded areas of attached revised sheet A1-5.1

Item No. 1.100 Reference Sheet A1-6.1:
    1.100.1 Revise per clouded areas of attached revised sheet A1-6.1

Item No. 1.101 Reference Sheet A1-7.1:
    1.101.1 Revise keynotes & wall tile patterns, per clouded areas of attached revised sheet A1-7.1

Item No. 1.102 Reference Sheet A1-7.2:
    1.102.1 Revise interior elevations per clouded areas of attached sketch ASK-1.3
    1.102.2 Keynote 10.115, revise to read:
        “WALL MOUNTED TELEVISION, O.F.C.I. SHALL HAVE 4” MAX. PROJECTION FROM F.O.F. WHEN
        MOUNTED ALONG PATH OF TRAVEL”

Item No. 1.103 Reference Sheet A1-7.3:
    1.103.1 Keynote 10.115, revise to read:
        “WALL MOUNTED TELEVISION, O.F.C.I. SHALL HAVE 4” MAX. PROJECTION FROM F.O.F. WHEN
        MOUNTED ALONG PATH OF TRAVEL”

Item No. 1.104 Reference Sheet A1-7.4:
    1.104.1 Revise per clouded areas of attached revised sheet A1-7.4

Item No. 1.105 Reference Sheet A1-7.5:
    1.105.1 Revise interior elevations per clouded areas of attached sketch ASK-1.4
    1.105.2 Keynote 10.115, revise to read:
        “WALL MOUNTED TELEVISION, O.F.C.I. SHALL HAVE 4” MAX. PROJECTION FROM F.O.F. WHEN
        MOUNTED ALONG PATH OF TRAVEL”

Item No. 1.106 Reference Sheet A1-9.1:
    1.106.1 Revise per clouded areas of attached revised sheet A1-9.1

Item No. 1.107 Reference Sheet A1-9.2:
    1.107.1 Revise per clouded areas of attached revised sheet A1-9.2

Item No. 1.108 Reference Sheet A2-1.1:
    1.108.1 Revise per clouded areas of attached revised sheet A2-1.1
Item No. 1.109 Reference Sheet A2-1.2:
  1.109.1 Revise per clouded areas of attached revised sheet A2-1.2

Item No. 1.110 Reference Sheet A2-2.1:
  1.110.1 Revise ceiling & lighting layout per clouded areas of attached revised sheet A2-2.1

Item No. 1.111 Reference Sheet A2-2.2:
  1.111.1 Revise ceiling & lighting layout per clouded areas of attached revised sheet A2-2.2

Item No. 1.112 Reference Sheet A2-3.1:
  1.112.1 Revise roofing materials per clouded areas of attached revised sheet A2-3.1

Item No. 1.113 Reference Sheet A2-3.2:
  1.113.1 Revise roofing materials per clouded areas of attached revised sheet A2-3.2

Item No. 1.114 Reference Sheet A2-4.1:
  1.114.1 Revise exterior materials per clouded areas of attached revised sheet A2-4.1

Item No. 1.115 Reference Sheet A2-4.2:
  1.115.1 Revise exterior materials per clouded areas of attached revised sheet A2-4.2

Item No. 1.116 Reference Sheet A2-5.1:
  1.116.1 Revise per clouded areas of attached revised sheet A2-5.1

Item No. 1.117 Reference Sheet A2-6.1:
  1.117.1 Revise per clouded areas of attached revised sheet A2-6.1

Item No. 1.118 Reference Sheet A2-7.1:
  1.118.1 Revise keynotes & wall tile patterns, per clouded areas of attached revised sheet A2-7.1

Item No. 1.119 Reference Sheet A2-7.2:
  1.119.1 Keynote 10.115, revise to read:
  "WALL MOUNTED TELEVISION, O.F.C.I. SHALL HAVE 4" MAX. PROJECTION FROM F.O.F. WHEN MOUNTED ALONG PATH OF TRAVEL"

Item No. 1.120 Reference Sheet A2-7.3:
  1.120.1 Keynote 10.115, revise to read:
  "WALL MOUNTED TELEVISION, O.F.C.I. SHALL HAVE 4" MAX. PROJECTION FROM F.O.F. WHEN MOUNTED ALONG PATH OF TRAVEL"

Item No. 1.121 Reference Sheet A2-7.4:
  1.121.1 Revise interior elevations per clouded areas of attached sketch ASK-1.5

Item No. 1.122 Reference Sheet A2-7.5:
  1.122.1 Revise per clouded areas of attached revised sheet A2-7.5

Item No. 1.123 Reference Sheet A2-8.1:
  1.123.1 Revise per clouded areas of attached revised sheet A2-8.1

Item No. 1.124 Reference Sheet A2-9.1:
  1.124.1 Revise per clouded areas of attached revised sheet A2-9.1

Item No. 1.125 Reference Sheet A3-1.1:
  1.125.1 Revise per clouded areas of attached revised sheet A3-1.1

Item No. 1.126 Reference Sheet A3-1.2:
  1.126.1 Revise per clouded areas of attached revised sheet A3-1.2

Item No. 1.127 Reference Sheet A3-2.1:
  1.127.1 Revise ceiling & lighting layout per clouded areas of attached revised sheet A3-2.1
Item No. 1.128 Reference Sheet A3-2.2:
  1.128.1 Revise ceiling & lighting layout per clouded areas of attached revised sheet A3-2.2

Item No. 1.129 Reference Sheet A3-3.1:
  1.129.1 Revise roofing materials per clouded areas of attached revised sheet A3-3.1

Item No. 1.130 Reference sheet A3-3.2:
  1.130.1 Revise roofing materials per clouded areas of attached revised sheet A3-3.2

Item No. 1.131 Reference Sheet A3-4.1:
  1.131.1 Revise exterior materials per clouded areas of attached revised sheet A3-4.1

Item No. 1.132 Reference Sheet A3-4.2:
  1.132.1 Revise exterior materials per clouded areas of attached revised sheet A3-4.2

Item No. 1.133 Reference Sheet A3-5.1:
  1.133.1 Revise per clouded areas of attached revised sheet A3-5.1

Item No. 1.134 Reference Sheet A3-6.1:
  1.134.1 Revise per clouded areas of attached revised sheet A3-6.1

Item No. 1.135 Reference Sheet A3-7.1:
  1.135.1 Revise keynotes & wall tile patterns, per clouded areas of attached revised sheet A3-7.1

Item No. 1.136 Reference Sheet A3-7.2:
  1.136.1 Revise per clouded areas of attached revised sheet A3-7.2

Item No. 1.137 Reference Sheet A3-7.3:
  1.137.1 Revise per clouded areas of attached revised sheet A3-7.3

Item No. 1.138 Reference Sheet A3-7.4:
  1.138.1 Revise per clouded areas of attached revised sheet A3-7.4

Item No. 1.139 Reference Sheet A3-7.5:
  1.139.1 Revise interior elevations per clouded areas of attached sketch ASK-1.6

Item No. 1.140 Reference Sheet A3-8.1:
  1.140.1 Revise per clouded areas of attached revised sheet A3-8.1

Item No. 1.141 Reference Sheet A3-9.1:
  1.141.1 Revise per clouded areas of attached revised sheet A3-9.1

Item No. 1.142 Reference Sheet A4-1.1:
  1.142.1 Revise per clouded areas of attached revised sheet A4-1.1

Item No. 1.143 Reference Sheet A4-2.1:
  1.143.1 Revise ceiling & lighting layout per clouded areas of attached revised sheet A4-2.1

Item No. 1.144 Reference Sheet A4-3.1:
  1.144.1 Revise roofing materials per clouded areas of attached revised sheet A4-3.1

Item No. 1.145 Reference Sheet A4-4.1:
  1.145.1 Revise exterior materials per clouded areas of attached revised sheet A4-4.1

Item No. 1.146 Reference Sheet A4-5.1:
  1.146.1 Building Section 4, revise per clouded areas of attached sketch ASK 1.7

Item No. 1.147 Reference Sheet A4-6.1:
  1.147.1 Revise per clouded areas of attached revised sheet A4-6.1
Item No. 1.148  Reference Sheet A4-7.1:
   1.148.1 Revise per clouded areas of attached revised sheet A4-7.1

Item No. 1.149  Reference Sheet A4-7.2:
   1.149.1 Revise interior elevations per clouded areas of attached sketch ASK-1.8

Item No. 1.150  Reference Sheet A4-9.1:
   1.150.1 Revise per clouded areas of attached revised sheet A4-9.1

Item No. 1.151  Reference Sheet A5-1.1:
   1.151.1 Revise per clouded areas of attached revised sheet A5-1.1

Item No. 1.152  Reference Sheet A5-2.1:
   1.152.1 Revise ceiling & lighting layout per clouded areas of attached revised sheet A5-2.1

Item No. 1.153  Reference Sheet A5-3.1:
   1.153.1 Revise roofing materials per clouded areas of attached revised sheet A5-3.1

Item No. 1.154  Reference Sheet A5-4.1:
   1.154.1 Revise exterior materials per clouded areas of attached revised sheet A5-4.1

Item No. 1.155  Reference Sheet A5-5.1:
   1.155.1 Building Section 4, revise per clouded areas of attached sketch ASK-1.12

Item No. 1.156  Reference Sheet A5-6.1:
   1.156.1 Wall Sections 4 & 7, revise per clouded areas of attached sketch ASK-1.9

Item No. 1.157  Reference Sheet A5-7.1:
   1.157.1 Revise per clouded areas of attached revised sheet A5-7.1

Item No. 1.158  Reference Sheet A5-7.2:
   1.158.1 Revise per clouded areas of attached revised sheet A5-7.2

Item No. 1.159  Reference Sheet A5-9.1:
   1.159.1 Revise per clouded areas of attached revised sheet A4-9.1

Item No. 1.160  Reference Sheet AD1.2:
   1.160.1 Detail 4, revise per clouded areas of attached ASK-1.10

Item No. 1.161  Reference New Sheet AD1.3:
   1.161.1 Add new sheet in its entirety per attached Sheet AD1.3

Item No. 1.162  Reference Sheet AD2.1:
   1.162.1 Add new detail 25, per attached ASK-1.11
   1.162.2 Details 9,17,22, & 27, remove details in their entirety

Item No. 1.163  Reference Sheet AD2.2:
   1.163.1 Detail 19, revise per clouded areas of attached ASK-1.13
   1.163.2 Detail 27, revise per clouded areas of attached ASK-1.14
   1.163.3 Details 20 & 30, remove details in their entirety

Item No. 1.164  Reference Sheet AD2.3:
   1.164.1 Detail 4, revise per clouded areas of attached ASK-1.15

Item No. 1.165  Reference Sheet AD3.1:
   1.165.1 Detail 1, revise per clouded areas of attached ASK-1.16
   1.165.2 Detail 14, remove detail in its entirety
   1.165.3 Detail 25, revise per clouded areas of attached ASK-1.17
Item No. 1.166 Reference Sheet AD3.2:
   1.166.1 Revise sheet per clouded areas of attached revised sheet AD3.2

Item No. 1.167 Reference Sheet AD3.3:
   1.167.1 Revise sheet per clouded areas of attached revised sheet AD3.3

Item No. 1.168 Reference Sheet AD4.2:
   1.168.1 Detail 21, remove detail in its entirety

Item No. 1.169 Reference Sheet AD4.3:
   1.169.1 Add new Details 15 & 26-30, per attached revised sheet AD4.3

Item No. 1.170 Reference Sheet AD5.1:
   1.170.1 Details 2,6,8, & 21, revise per clouded areas of attached revised sheet AD5.1

Item No. 1.171 Reference Sheet AD6.1:
   1.171.1 Revise per clouded areas of attached revised sheet AD6.1

Item No. 1.172 Reference Sheet AD7.1:
   1.172.1 Detail 1, revise per clouded area of attached ASK-1.19
   1.172.2 Detail 23, revise per clouded area of attached ASK-1.20

Item No. 1.173 Reference Sheet ID1.1:
   1.173.1 Revise sheet per clouded areas of attached revised sheet ID1.1

Item No. 1.174 Reference Sheet S1-1.1:
   1.174.1 Revise sheet per clouded areas of attached revised Sheet S1-1.1

Item No. 1.175 Reference Sheet S1-3.1:
   1.175.1 Revise sheet per clouded areas of attached revised Sheet S1-3.1

Item No. 1.176 Reference Sheet S1-4.1:
   1.176.1 Revise sheet per clouded areas of attached revised Sheet S1-4.1

Item No. 1.177 Reference Sheet S2-1.1:
   1.177.1 Revise sheet per clouded areas of attached revised Sheet S2-1.1

Item No. 1.178 Reference Sheet S2-3.1:
   1.178.1 Revise sheet per clouded areas of attached revised Sheet S2-3.1

Item No. 1.179 Reference Sheet S3-1.1:
   1.179.1 Revise sheet per clouded areas of attached revised Sheet S3-1.1

Item No. 1.180 Reference Sheet S3-3.1:
   1.180.1 Revise sheet per clouded areas of attached revised Sheet S3-3.1

Item No. 1.181 Reference Sheet S4-1.1:
   1.181.1 Revise sheet per clouded areas of attached revised Sheet S4-1.1

Item No. 1.182 Reference Sheet S4-3.1:
   1.182.1 Revise sheet per clouded areas of attached revised Sheet S4-3.1

Item No. 1.183 Reference Sheet S5-1.1:
   1.183.1 Revise sheet per clouded areas of attached revised Sheet S5-1.1

Item No. 1.184 Reference Sheet S5-3.1
   1.184.1 Revise sheet per clouded areas of attached revised Sheet S5-3.1

Item No. 1.185 Reference Sheet SD-1.1:
   1.185.1 Detail 19, revise per clouded areas of attached revised Sheet SD-1.1
Item No. 1.186  Reference Sheet SD-3.1:
  1.186.1  Detail 8, revise per clouded areas of attached revised Sheet SD-3.1

Item No. 1.187  Reference Sheet SD-3.3:
  1.187.1  Add new detail 15, per clouded areas of attached revised Sheet SD-3.3

Item No. 1.188  Reference Sheet SD-3.4:
  1.188.1  Add new Details 8 & 19, per clouded areas of attached revised Sheet SD-3.4
  1.188.2  Detail 17, revise per clouded areas of attached revised Sheet SD-3.4

Item No. 1.189  Reference Drawing M0.1 – Abbreviations & Symbols
  1.189.1  Coordination Note #1: Change “15000” to “Division 23.”

Item No. 1.190  Reference Drawing M0.3 – Details
  1.190.1  Detail 1: Add reference to details 2 & 3/AD3.1 for flashing.

Item No. 1.191  Reference Drawing M1-1.1 – HVAC Floor Plans
  1.191.1  Detail 2: Add flex duct through seismic separation at gridline “5” for 8x8 exhaust duct as indicated on MSK-01.03.

Item No. 1.192  Reference Drawing M1-1.2 – HVAC Floor Plans
  1.192.1  Detail 2: Change ducting and diffuser/grilles in Staff Workroom 119 as indicated on MSK-01.04.

Item No. 1.193  Reference Drawing M3-1.1 – HVAC Floor Plans
  1.193.1  Detail 2: Add Mechanical Room 318 with 1/2” door undercut and 10x10 air louver through to Elec/Data Room 316 as indicated on MSK-01.02.
  1.193.2  Detail 2: Revise diffuser/grille locations to accommodate revised ceiling grid and lighting in Science Classroom 301 as indicated on attached sketch MSK-01.05.
  1.193.3  Detail 2: Revise diffuser/grille locations to accommodate revised ceiling grid and lighting in Science Classroom 301 as indicated on attached sketch MSK-01.06.

Item No. 1.194  Reference Drawing M3-1.2 – HVAC Floor Plans
  1.194.1  Detail 2: Revise diffuser/grille locations to accommodate revised ceiling grid and lighting in Science Lab 314 as indicated on attached sketch MSK-01.07.

Item No. 1.195  Reference Drawing M4-1.1 – HVAC Floor Plans
  1.195.1  Detail 2: Revise diffuser/grille locations to accommodate revised ceiling grid and lighting in Classroom 401 as indicated on attached sketch MSK-01.08.

Item No. 1.196  Reference Drawing M5-1.1 – HVAC Floor Plans
  1.196.1  Detail 2: Revise diffuser/grille locations to accommodate revised ceiling grid and lighting in Science Classroom 504 as indicated on attached sketch MSK-01.09.

Item No. 1.197  Reference Drawing P0.1 – Abbreviations and Symbols:
  1.197.1  General Notes #22 – Pay attention to this note. Trap primers and associated prime line and access panels are to be installed per this note.

Item No. 1.198  Reference Drawing PS-2 – Plumbing Remodel Site Plan - Gas
  1.198.1  See revised PS-1 indicating:
           Revise MPG piping to Building E so that 3/4” MPG is delivered to Building E-West, not Building E-East.
           Revise MPG piping to entrance to Building F-East.
           Revise MPG piping to entrance to Building G.
           Add 2” waste and drywell to (3) site drinking fountains.
           Add 3/4” CW with shut off valve in yard box to (2) site drinking fountains.

Item No. 1.200  Reference Drawing P1-1.2 – Plumbing Floor Plans
  1.200.1  Detail 2: Revise CW piping service location to building as indicated on PSK-01.03.
Item No. 1.201 Reference Drawing P1-1.3 – Building D – Enlarged Plans and Schedules
  1.201.1 Detail 6: Revise CW piping location as indicated on PSK-01.04.
  1.201.2 Detail 8: Revise SD piping and relocate floor drain and associated piping as indicated on PSK-01.05.

Item No. 1.202 Reference Drawing P2-1.2 – Building E-East – Plumbing Floor Plans
  1.202.1 Detail 3: Remove unidentified pipe at gridlines 12/A.5 as indicated on PSK-01.08.
  1.202.2 Detail 2: Add 3/4" CW to serve site drinking fountain as indicated on PSK-01.07.

Item No. 1.203 Reference Drawing P2-1.3 – Building E – Enlarged Plans and Schedules
  1.203.1 Detail 1: Relocated floor drain and associated piping as indicated on PSK-01.06.

Item No. 1.204 Reference Drawing P3-1.1 – Building F-West – Plumbing Floor Plans
  1.204.1 See revised P3-1.1 indicating:
    Detail 2: Added HW piping.

Item No. 1.205 Reference Drawing P3-1.2 – Building F-East – Plumbing Floor Plans
  1.205.1 Detail 2: Revise MPG piping service location to building as indicated on PSK-01.01.

Item No. 1.206 Reference Drawing P3-1.3 – Building F – Enlarged Plans and Schedules
  1.206.1 Add Construction Notes as indicated on PSK-01.02.
  1.206.2 Detail 3: Revise MPG piping service location to building as indicated on PSK-01.02.
  1.206.3 Detail 7: Revise utility panel locations to accommodate revised ceiling grid and lighting in Science Lab 314 as indicated on attached sketch PSK-01.09.

Item No. 1.207 Reference Drawing P3-1.4 – Building F – Enlarged Plans
  1.207.1 See revised P3-1.4 indicating:
    Detail 2: Added HW piping.

Item No. 1.208 Reference Drawing P4-1.1 – Building G – Plumbing Floor Plans
  1.208.1 See revised P4-1.1 indicating:
    Detail 2: Revise MPG piping service location to building.
    Detail 2: Added HW Piping.

Item No. 1.209 Reference Drawing P4-1.2 – Building G – Enlarged Plans and Schedules
  1.209.1 See revised P4-1.2 indicating:
    Add Construction Notes.
    Detail 4: Revise MPG piping service location to building.
    Detail 4: Add HW piping.
    Detail 4: Add piping sizes and SOC/SOV callouts.
    Detail 7: Add HW piping and revise CW piping.

Item No. 1.210 Reference Drawing P5-1.1 – Building H – Plumbing Floor Plans
  1.210.1 See revised P5-1.1 indicating:
    Detail 2: Move recessed hose bibb RHB-1 in Science Classroom 504 to the left slightly so that it is out of the window and in the wall, (gridlines 6.5/A).
    Detail 2: Add Mech 507 room and associated waste and HW piping.
    Detail 2: Revise CW piping.
    Detail 3: Add 2” VTR.

Item No. 1.211 Reference Drawing P5-1.2 – Building H – Enlarged Plans and Schedules
  1.211.1 See revised P5-1.2 indicating:
    Added Recirculating Pump Schedule and Water Heater Schedule.
    Detail 8: Revised water pipe size to 1-1/4”.
    Added Details 9 & 10 for Mech 501 plumbing.
    Detail 7: Added 2” waste.
    Add Thermostatic Mixing Valve (TMV-1) and Water Heater Stand (WH-STAND) to Plumbing Fixture Schedule.
    Detail 6: Added water piping and TMV-1 for Emergency Shower Eye Wash.
Item No. 1.212  Reference Sheet E0.11:
  1.212.1 Revise circuiting on panel schedule, per clouded areas of attached revised Sheet E0.11

Item No. 1.213  Reference Sheet E0.12:
  1.213.1 Revise circuiting on panel schedule, per clouded areas of attached revised Sheet E0.12

Item No. 1.214  Reference Sheet E0.13:
  1.214.1 Revise circuiting on panel schedule, per clouded areas of attached revised Sheet E0.13

Item No. 1.215  Reference Sheet E0.14:
  1.215.1 Revise circuiting on panel schedule, per clouded areas of attached revised Sheet E0.14

Item No. 1.216  Reference Sheet E0.15:
  1.216.1 Revise circuiting on panel schedule, per clouded areas of attached revised Sheet E0.15

Item No. 1.217  Reference Sheet E0.20:
  1.217.1 Revise fixture schedule, per clouded areas of attached revised Sheet E0.20

Item No. 1.218  Reference Sheet E0.30A:
  1.218.1 Revise Title 24 based on revisions to lighting fixtures, per clouded areas of attached revised Sheet E0.30A

Item No. 1.219  Reference Sheet E0.30B:
  1.219.1 Revise Title 24 based on revisions to lighting fixtures, per clouded areas of attached revised Sheet E0.30B

Item No. 1.220  Reference Sheet E0.31A:
  1.220.1 Revise Title 24 based on revisions to lighting fixtures, per clouded areas of attached revised Sheet E0.31A

Item No. 1.221  Reference Sheet E0.31B:
  1.221.1 Revise Title 24 based on revisions to lighting fixtures, per clouded areas of attached revised Sheet E0.31B

Item No. 1.222  Reference Sheet E0.32A:
  1.222.1 Revise Title 24 based on revisions to lighting fixtures, per clouded areas of attached revised Sheet E0.32A

Item No. 1.223  Reference Sheet E0.32B:
  1.223.1 Revise Title 24 based on revisions to lighting fixtures, per clouded areas of attached revised Sheet E0.32B

Item No. 1.224  Reference Sheet E0.33A:
  1.224.1 Revise Title 24 based on revisions to lighting fixtures, per clouded areas of attached revised Sheet E0.33A

Item No. 1.225  Reference Sheet E0.33B:
  1.225.1 Revise Title 24 based on revisions to lighting fixtures, per clouded areas of attached revised Sheet E0.33B

Item No. 1.226  Reference Sheet E0.34A:
  1.226.1 Revise Title 24 based on revisions to lighting fixtures, per clouded areas of attached revised Sheet E0.34A

Item No. 1.227  Reference Sheet E0.34B:
  1.227.1 Revise Title 24 based on revisions to lighting fixtures, per clouded areas of attached revised Sheet E0.34B

Item No. 1.228  Reference Sheet E1.12:
1.228.1 Revise plan notes, panel locations, conduit connection points & other, per clouded areas of attached revised Sheet E1.12

Item No. 1.229 Reference Sheet E1.13:
1.229.1 Revise light fixture locations, per clouded areas of attached revised sheet E1.13

Item No. 1.230 Reference Sheet E1-1.1:
1.230.1 Revise per clouded areas of attached revised sheet E1-1.1

Item No. 1.231 Reference Sheet E1-1.2:
1.231.1 Revise lighting layout, per clouded areas of attached revised sheet E1-1.2

Item No. 1.232 Reference Sheet E2-1.1:
1.232.1 Revise sheet per clouded areas of attached revised sheet E2-1.1

Item No. 1.233 Reference Sheet E2-1.2:
1.233.1 Revise lighting layout, per clouded areas of attached revised sheet E2-1.2

Item No. 1.234 Reference Sheet E3-1.1:
1.234.1 Revise sheet per clouded areas of attached revised Sheet E3-1.1

Item No. 1.235 Reference Sheet E3-1.2:
1.235.1 Revise lighting layout, per clouded areas of attached revised sheet E3-1.2

Item No. 1.236 Reference Sheet E4-1.1:
1.236.1 Revise sheet per clouded areas of attached revised sheet E4-1.1

Item No. 1.237 Reference Sheet E4-1.2:
1.237.1 Revise lighting layout, per clouded areas of attached revised sheet E4-1.2

Item No. 1.238.1 Reference Sheet E5-1.1:
1.238.1 Revise sheet per clouded areas of attached revised sheet E5-1.1

Item No. 1.239 Reference Sheet E5-1.2:
1.239.1 Revise lighting layout, per clouded areas of attached revised sheet E5-1.2

Item No. 1.240 Reference Sheet EFA0.10:
1.240.1 Revise block diagram, per clouded areas of attached revised sheet EFA0.10

Item No. 1.241 Reference Sheet EFA0.11:
1.241.1 Revise block diagram, per clouded areas of attached revised sheet EFA0.11

Item No. 1.242 Reference Sheet EFA2-1.1:
1.242.1 Revise sheet per clouded areas of attached revised sheet EFA2-1.1

Item No. 1.243 Reference Sheet EFA3-1.1:
1.243.1 Revise sheet per clouded areas of attached revised sheet EFA3-1.1

Item No. 1.244 Reference Sheet EFA4-1.1:
1.244.1 Revise sheet per clouded areas of attached revised sheet EFA4-1.1

Item No. 1.245 Reference Sheet EFA5-1.1:
1.245.1 Revise sheet per clouded areas of attached revised sheet EFA5-1.1
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**END OF ADDENDUM NO. 1**

______________________________
Roger Clarke, Principal

#C-21340
SECTION 03 35 11
CONCRETE FLOOR FINISHES

PART 1 GENERAL

1.01 SECTION INCLUDES
A. Surface treatments for concrete floors and slabs.
B. Liquid densifiers and hardeners.
C. Concrete stains and dyes.
D. Clear penetrating sealers.

1.02 RELATED REQUIREMENTS
A. Section 03 30 00 - Cast-in-Place Concrete: Finishing of concrete surface to tolerance; floating, troweling, and similar operations; curing.
B. Section 09 65 66 - Resilient Athletic Flooring: Fluid-applied athletic flooring.
C. Section 09 67 00 - Fluid-Applied Flooring.

1.03 ADMINISTRATIVE REQUIREMENTS
A. Coordinate the work with concrete floor placement and concrete floor curing.
B. Pre-Concrete Placement Meeting:
   1. Prior to the start of concrete placement Contractor shall conduct a meeting to review the required methods and procedures to achieve the required finish. Contractor shall send a meeting agenda to all attendees 20 days prior to the scheduled date of the meeting.
   2. The Contractor shall require responsible representatives of every party concerned with the concreting work to attend the meeting, including but not limited to the following: Contractor’s superintendent, ready-mix company, testing lab, topping and coating applicator, and Construction Manager.

1.04 SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Product Data: Manufacturer's published data on each finishing product, including information on compatibility of different products and limitations.
C. Maintenance Data: Provide data on maintenance and renewal of applied finishes.
D. Certification: Submit manufacturer's certificate that all materials supplied conform to applicable Federal regulations and to applicable State and Local air pollution emission ordinances and regulations.

1.05 MOCK-UP
A. For coatings, construct mock-up area under conditions similar to those that will exist during application, with coatings applied.
B. Mock-Up Size: 6 feet square.
1. Demonstrate typical joints, surface finish, texture, color, and standard of workmanship.
   C. Locate where directed.
   D. Acceptable mock-up may remain as part of the work.

1.06 DELIVERY, STORAGE, AND HANDLING
   A. Deliver materials in manufacturer’s sealed packaging, including application instructions.

1.07 FIELD CONDITIONS
   A. Maintain light level equivalent to a minimum 200 W light source at 8 feet above the floor
      surface over each 20 foot square area of floor being finished.
   B. Do not finish floors until interior heating system is operational.
   C. Maintain ambient temperature of 50 degrees F minimum.

1.08 WARRANTY
   A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.
   B. Correct defective work within a two-year period commencing on the Date of Substantial
      Completion.
   C. Finish Warranty: Provide five-year manufacturer warranty against excessive degradation of
      finish. Include provision for replacement of units with excessive fading, chalking, or flaking.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS
   A. All products used shall meet VOC requirements listed in Section 01 61 16 - Volatile Organic
      Compound (VOC) Content Restrictions.
   B. Requirements for Physically Disabled: Provide flooring meeting slip-resistant requirements of
      California Code of Regulations (CCR), Title 24, Part 2, Chapter 11B and 2010 ADA Standards,
      latest amendment.
      1. Flooring demonstrating a coefficient of friction of at least wet SCOF 0.6 per ASTM C1028
         will be accepted as meeting the intent of slip resistance; CBC 11B-302 Floor or Ground
         Surfaces, 11B-403 Walking Surfaces, and ADA Standards.
         a. Also acceptable: A dynamic coefficient of friction of at least 0.42 per DCOF AcuTest
            ANSI A137.1 Section 9.6 or ASTM F609.
      2. Flooring surface shall be stable, firm, and slip resistant. CBC Section 11B-302.1 General.
      3. Flooring surface demonstrating a dynamic coefficient of friction of at least 0.42 wet per
         DCOF AcuTest ANSI A137.1 Section 9.6 and ANSI/NFSI B101.3 (using a BOT-3000 testing
         unit) will be accepted as meeting the intent of slip resistance; CBC 11B-302 Floor or
         Ground Surfaces and ADA Standards.
         a. Ramp surface: Provide DCOF value of 0.46 wet.

2.02 CONCRETE FLOOR FINISH APPLICATIONS
   A. Unless otherwise indicated, all concrete floors are to be finished using penetrating sealer.
   B. Liquid Densifier and Hardener:
1. Use at following locations: new concrete floors on grade.

C. Floor Finish Topping
1. Use at the following locations: CONC-4.

D. Concrete Stain:
1. Use at following locations: CONC-2, CONC-3, and CONC-5.

E. Penetrating Clear Sealer:
1. Use at following locations: All existing and new concrete floors on grade.

F. High Gloss Clear Sealer:
1. Use at following locations: All.

G. Slip Resistant Coating: Finely-ground aggregates added to coatings.
1. Use at following locations: Utility rooms and Bldg 8; Rooms 807, 806, 808, 810.

2.03 SURFACE TREATMENTS

A. Troweling Aid, Densifier and Curing Agent: Liquid reactive colloidal silica-based topical treatment, spray-applied to wet concrete and floated or troweled into the surface.

2.04 DENSIFIERS AND HARDENERS

A. Liquid Densifier and Hardener: Penetrating chemical compound that reacts with concrete, filling the pores and dustproofing; for application to concrete after set.
1. Coefficient of Friction: 0.86 dry, 0.69 wet when tested in accordance with ASTM C1028.
2. Products:
   d. Euclid Chemical Company; ULTRASIL LI+: www.euclidchemical.com/#sle.
   g. PROSOCO, Inc; Consolideck LS/CS: www.prosoco.com/consolideck/#sle.
   h. SpecChem, LLC; Cure Hard: www.specchemllc.com/#sle.
   m. Substitutions: See Section 01 60 00 - Product Requirements.

2.05 COATINGS

A. CONC-4 Self-drying, trowelable topping for fast-track finishing or resurfacing of interior concrete.
1. Product:
CONCRETE FLOOR FINISHES

a. Basis of Design Product: ARDEX SD-M™ Designer Floor Finish™ as manufactured by Ardex Americas, or approved equal.

2. Performance and Physical Properties: Meet or exceed the following values for material cured at 70°F +/-3°F (21°C +/-3°C) and 50% +/-5% relative humidity:
   b. Initial Set (ASTM C191): Approx. 45 minutes.
   c. Final Set (ASTM C191): Approx. 90 minutes.
   d. Compressive Strength (ASTM C109M): 5,000 psi (352 kg/sq.cm) at 28 days.
   e. Flexural Strength (ASTM C348): 1,200 psi (84 kg/sq.cm) at 28 days.
   f. Color: Gray.

3. Water shall be clean, potable, and sufficiently cool (not warmer than 70°F).


B. CONC-2/3/5 Concrete Stain or Dye: Translucent, penetrating compound for interior or exterior use; must be finished with a compatible topical sealer.

1. Composition: Solvent-based, non-reactive.

2. Number of Coats: Minimum of two.

3. VOC: 100 g/L or less.

4. Application: Graphic Pattern.
   a. Primary Color: Spray applied.

5. Basis of Design Product: Dye-N-Seal Pro as manufactured by Ameripolish, Inc, or approved equal.

6. Products:
   a. BRICKFORM; BRICKFORM ARTesian Stain: www.brickform.com/#sle.
   c. L.M. Scofield Company; LITHOCHROME Chemstain Classic Concrete Stain: www.scofield.com/#sle.
   e. Substitutions: See Section 01 60 00 - Product Requirements.


1. Products:
f. Substitutions: See Section 01 60 00 - Product Requirements.

D. CONC-1 Plastic Aggregate: Finely ground polymer for addition to coatings for slip resistance.
   1. Products:
      b. Euclid Chemical Company; EUCO GRIP: www.euclidchemical.com/#sle.
      e. Substitutions: See Section 01 60 00 - Product Requirements.

2.06 JOINT FILLER

A. Two component, semi-rigid, epoxy joint filler with minimum compressive strength at 72 hours of 3000 psi per ASTM D695, minimum elongation of 55% per ASTM D638, and minimum Shore A Hardness of 100 per ASTM D2240.

B. Color(s): As selected by Architect from manufacturer's standard range.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that floor surfaces are acceptable to receive the work of this section.
   1. Concrete substrate shall be structurally sound.

B. Concrete shall be minimum 28 days old.

C. Verify that flaws in concrete have been patched and joints filled with methods and materials suitable for further finishes.

3.02 PREPARATION

A. Blow clean using unoiled air or vacuum clean.

B. Surface profile shall be CSP 2-5 per ICRI 310.2R.

3.03 GENERAL

A. Apply materials in accordance with manufacturer's instructions.

3.04 JOINT FILLER APPLICATION

A. All joint facings shall possess an open surface texture. Run a saw blade or grinder down each side of the joint to expose fresh concrete.

B. Do not use backer rod, sand, or other fill material. Joint filler shall be full depth. A very thin sand layer is acceptable to help prevent the joint filler from flowing into the substrate.

C. Blow joints clean using un-oiled air.

D. Prepare joint filler per manufacturer’s recommendations.

E. Fill to 2/3 of the full depth of the joint.

F. Allow the joint filler to settle and then within 1 hour complete the filling and slightly overfill the joint.

G. Within 24 hours cut flush with a razor knife or grind flush.
3.05 TOPPING APPLICATION

A. Examine substrates and conditions under which materials will be installed. Do not proceed with installation until unsatisfactory conditions are corrected.

B. Coordinate installation with adjacent work to ensure proper sequence of construction. Protect adjacent areas from contact due to mixing and handling of materials.

C. Priming
   1. For standard absorbent concrete: No primer is required. Note: For highly porous or absorbent surfaces prime with ARDEX P 51™ Primer diluted with 3 parts water and apply evenly in accordance with the technical data sheet.

D. Mixing: Comply with manufacturer’s printed instructions and the following.
   1. Mix one 10 lb. (4.5 kg) bag of ARDEX SD-M, use 2 quarts (1.9 L) of water.
   2. For filling pop-outs and spalls up to 2” (5 cm) in diameter and 1/2” (12 mm) deep, use 3.5 parts by volume of powder to 1 part of water.

E. Application: Comply with manufacturer’s printed instructions and the following.
   1. Apply a scratch coat of the mix to the substrate with the flat side of a steel trowel to obtain a solid mechanical bond. Apply sufficient pressure to fill all defects and to feather the product into the subfloor surface. The scratch coat or base coat should be applied to pre-smooth and achieve a uniformly absorbent surface.
   2. It is necessary to have a minimum of two coats of ARDEX SD-M™ with the total finished thickness of 20 mils (500 microns, about the thickness of a standard business card). Use the least amount possible to attain the desired smoothness. The finish coat may be applied as soon as the trowel will not damage the base coat. A third application of ARDEX SD-M™ is optional depending on the desired finish and texture. This application is used primarily to achieve a very smooth troweled finish. Total thickness should not exceed 1/16” (1.5mm).

F. Sealing
   1. Dry time prior to burnish-polishing or sealer application varies by sealer type and thickness of application. Follow ARDEX recommendation for dry time prior to the installation of the sealer.

3.06 COATING APPLICATION

A. Verify that surface is free of previous coatings, sealers, curing compounds, water repellents, laitance, efflorescence, fats, oils, grease, wax, soluble salts, residues from cleaning agents, and other impediments to adhesion.

B. Verify that water vapor emission from concrete and relative humidity in concrete are within limits established by coating manufacturer.

C. Protect adjacent non-coated areas from drips, overflow, and overspray; immediately remove excess material.

D. Apply coatings in accordance with manufacturer’s instructions, matching approved mock-ups for color, special effects, sealing and workmanship.

E. Broadcast system:
   1. Apply first layer of coating with non-slip aggregate as recommended by manufacturer.
2. Apply topcoat as recommended by manufacturer.

3.07 SURFACE DENSIFIER/SEALER APPLICATION

A. New Concrete: Apply cure-seal-hardener to new concrete as soon as the concrete is firm enough to work on after troweling; with colored concrete, wait a minimum of 30 days before application.
   1. Spray on at rate of 200 sq.ft./gal.
   2. Keep surface wet with cure-seal-hardener for a minimum soak-in period of 30 minutes without allowing it to dry out or become slippery.
      a. In hot weather, slipperiness may appear before the 30 minute time period has elapsed.
      b. If that occurs, apply additional cure-seal-hardener as needed to keep the entire surface in a non-slippery state for the first 15 minutes.
      c. For the remaining 15 minutes, mist the surface as needed with water to keep the material in a non-slippery state.
      d. In hot weather conditions, follow manufacturer’s special application procedures.
   3. When the treated surface becomes slippery after this period, lightly mist with water until slipperiness disappears.
   4. Wait for surface to become slippery again, and then flush entire surface with water to remove all cure-seal-hardener residue.
   5. Squeegee surface completely dry, flushing any remaining slippery areas until no residue remains.
   6. Wet vacuum or scrubbing machines can be used in accordance with manufacturer’s instructions to remove residue.

B. Existing Concrete: Apply cure-seal-hardener only to clean bare concrete.
   1. Thoroughly remove previous treatments, laitance, oil and other contaminants.
   2. Saturate surface with cure-seal-hardener; re-spray or broom excess onto dry spots.
   3. Keep surface wet with cure-seal-hardener for a minimum soak-in period of 30 - 40 minutes.
   4. If most of the material has been absorbed after the 30 minute soak-in period, remove all excess material, especially from low spots, using broom or squeegee.
   5. If most of the material remains on the surface after the 30 minute soak-in period, wait until the surface becomes slippery and then flush with water, removing all cure-seal-hardener residue. Squeegee completely dry, flushing any remaining slippery areas until no residue remains.
   6. If water is not available, remove residue using squeegee.

3.08 CONCRETE POLISHING

A. Execute using materials, equipment, and procedures specified by manufacturer, using manufacturer approved installer.
1. Final Polished Sheen: Satin finish; other sheens are included as comparison to illustrate required sheen; final sheen is before addition of any sealer or coating, regardless of whether that is also specified or not.

2. Satin Finish: Reflecting images from side lighting.

B. Protect finished surface as required and as recommended by manufacturer of polishing system.

3.09 PROTECTION

A. Prevent trades from walking and driving through uncured Joint Filler.

END OF SECTION
SECTION 05 51 33
METAL LADDERS

PART 1 GENERAL

1.01 SECTION INCLUDES
A. Prefabricated ladders.

1.02 REFERENCE STANDARDS
D. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination; 2012.

1.03 SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Product Data: Provide manufacturer's data sheets on each ladder safety system product to be used, including installation instructions.
C. Shop Drawings:
   1. Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.
   2. Indicate welded connections using standard AWS A2.4 welding symbols. Indicate net weld lengths.
D. Certificate: Provide documentation that ladder safety system products of this section meet or exceed cited ANSI A14.3 requirements.
E. Welders' Certificates: Submit certification for welders employed on the project, verifying AWS qualification within the previous 12 months.
F. Fabricator's Qualification Statement: Provide documentation showing steel fabricator is accredited under IAS AC172.

1.04 QUALITY ASSURANCE
A. Fabricator Qualifications: A qualified steel fabricator that is accredited by IAS AC172.

PART 2 PRODUCTS

2.01 MATERIALS - STEEL
A. Mechanical Fasteners: Same material or compatible with materials being fastened; type consistent with design and specified quality level.
2.02 FABRICATION
A. Fit and shop assemble items in largest practical sections, for delivery to site.
B. Fabricate items with joints tightly fitted and secured.
C. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.
D. Exposed Mechanical Fastenings: Flush countersunk screws or bolts; unobtrusively located; consistent with design of component, except where specifically noted otherwise.
E. Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.

2.03 PREFABRICATED LADDERS
A. Provide roof access ladder and cage where required, as indicated on Drawings, fabricated of bar/rail sides and brackets, mounted to building wall, configured and dimensioned in conformance to OSHA Regulation 29 CFR 1910.27.
   1. Unless otherwise shown or required by governing authorities, fabricate ladder in accordance with NAAMM standards and recommended details.
B. Prefabricated Folding Ladder: Welded metal unit complying with ANSI A14.3; factory fabricated to greatest degree practical and in the largest components possible.
   1. Components: Manufacturer's standard rails, rungs, treads, handrails, returns, platforms, and safety devices complying with the requirements of the MATERIALS article of this section.
   4. Maximum Height: 120 inches
   7. Unit Weight: 88 lbs.
   9. Manufacturers:
      a. Precision Ladders, LLC; Super Simplex: www.precisionladders.com/#sle.
      b. Fixfast USA; RL62 Vista Commercial Fold Down Ladder www.fixfastusa.com

2.04 FABRICATION TOLERANCES
A. Squareness: 1/8 inch maximum difference in diagonal measurements.
B. Maximum Offset Between Faces: 1/16 inch.
C. Maximum Misalignment of Adjacent Members: 1/16 inch.
D. Maximum Bow: 1/8 inch in 48 inches.
E. Maximum Deviation From Plane: 1/16 inch in 48 inches.
PART 3 EXECUTION

3.01 EXAMINATION
   A. Verify that field conditions are acceptable and are ready to receive work.

3.02 INSTALLATION
   A. Install items plumb and level, accurately fitted, free from distortion or defects.
   B. Provide for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.
   C. Obtain approval prior to site cutting or making adjustments not scheduled.

3.03 TOLERANCES
   A. Maximum Variation From Plumb: 1/4 inch per story, non-cumulative.
   B. Maximum Offset From True Alignment: 1/4 inch.

END OF SECTION
PART 1 GENERAL

1.01 SECTION INCLUDES
   A. Specially fabricated cabinet units.
   B. Countertops.
   C. Hardware.
   D. Factory finishing.
   E. Preparation for installing utilities.

1.02 RELATED REQUIREMENTS
   A. Section 01 61 16 - Volatile Organic Compound (VOC) Content Restrictions.
   B. Section 06 10 00 - Rough Carpentry: Support framing, grounds, and concealed blocking.
   C. Section 06 20 00 - Finish Carpentry: Wood trim unrelated to casework.
   D. Section 09 21 16 - Gypsum Board Assemblies: Support framing, grounds, and concealed blocking.
   E. Section 10 11 00 - Visual Display Boards: Sliding markerboards integrated with casework.

1.03 REFERENCE STANDARDS
   B. BHMA A156.9 - American National Standard for Cabinet Hardware; 2015.
   C. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.
   D. UL (DIR) - Online Certifications Directory; current listings at database.ul.com.
   E. WI (MCP) - Monitored Compliance Program (MCP); current edition at www.woodworkinstitute.com.

1.04 ADMINISTRATIVE REQUIREMENTS
   A. Preinstallation Meeting: Convene a preinstallation meeting not less than one week before starting work of this section; require attendance by all affected installers.

1.05 SUBMITTALS
   A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
   B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
      1. Scale of Drawings: 1-1/2 inch to 1 foot, minimum.
      2. Provide the information required by AWMAC/WI (NAAWS).
      3. Include certification program label.
a. Affix a Woodwork Institute Certified Compliance Label WI (CCP) on the first page of the shop drawings.

C. Product Data: Provide data for hardware accessories.

D. Samples: Submit actual samples of architectural cabinet construction, minimum 12 inches square, illustrating proposed cabinet, countertop, and shelf unit substrate and finish.

E. Samples: Submit actual sample items of proposed pulls, hinges, shelf standards, and locksets, demonstrating hardware design, quality, and finish.

F. Certificate: Submit labels and certificates required by quality assurance and quality control programs.

G. Maintenance Materials: Furnish the following for District's use in maintenance of project:
   1. See Section 01 60 00 - Product Requirements, for additional provisions.
   2. Spare Parts: One of each kind of lock.
   3. Extra Stock Materials: six keys of each kind of lock.

1.06 QUALITY ASSURANCE

A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
   1. Company with at least one project in the past 5 years with value of woodwork within 20 percent of cost of woodwork for this Project.
   2. Accredited participant in the specified certification program prior to the commencement of fabrication and throughout the duration of the project.
   3. A Licensee of the Woodwork Institute’s Certified Compliance Program.

B. Quality Certification:
   1. Comply with WI (MCP) woodwork association quality certification service/program in accordance with requirements for work specified in this section: https://woodworkinstitute.com/#sle.
   2. Provide labels or certificates indicating that the installed work complies with AWMAC/WI (NAAWS) requirements for grade or grades specified.
   3. Certified Seismic Casework Installation:
      a. All wood or metal frame wall construction shall be constructed with continuous in wall blocking of either 3x6 flat Douglas Fir, 16 ga. x 6 inch wide, or as indicated on the AHJ approved structural drawings, 50 KSI sheet metal provided in accordance with the location requirements included on the cabinet fabricator/installer’s shop drawings. Responsibility for blocking installation shall be that of the wall fabricator.
      b. All casework installation shall be certified by the Woodwork Institute in accordance with their Certified Seismic Installation Program (CSIP) and their DSA Pre-approvals, including:
         1) A CSIP Certificate indicating that all of the casework installation fully meets the requirements of the AWS, CSIP and WI’s OSHPD Pre-approvals.
      c. It is the responsibility of the installer to include within their bid, any and all costs for WI’s CSIP certification. Certification is a prerequisite for final acceptance. For further information, please visit www.woodworkinstitute.com
4. Provide designated labels on shop drawings as required by certification program.

5. Provide designated labels on installed products as required by certification program.
   a. Before delivery to the job site the woodwork supplier shall provide a Woodwork Institute Certified Compliance Certificate indicating the millwork products being supplied and Certifying that these products fully meet the requirements of the Grade or Grades specified.
   b. Each elevation of casework, each laminated plastic top, and each solid surface top shall bear a Woodwork Institute Certified Compliance Label.

6. Submit certifications upon completion of installation that verifies this work is in compliance with specified requirements.
   a. At completion of installation the woodwork installer shall provide a Woodwork Institute Certified Compliance Certificate indicating the products installed, and Certifying that the installation of these products fully meets the requirements of the Grade or Grades specified.

7. All fees charged by the Woodwork Institute for their Certified Compliance program are the responsibility of the millwork manufacturer and/or installer and shall be included in the bid.

8. Replace, repair, or rework all work for which certification is refused.

1.07 MOCK-UP
   A. Provide mock-up of typical base cabinet, wall cabinet, and countertop, including hardware, finishes, and plumbing accessories.
   B. See Section 01 40 00 - Quality Requirements for additional requirements.
   C. Locate where directed.
   D. Mock-up may remain as part of the Work, if approved.

1.08 DELIVERY, STORAGE, AND HANDLING
   A. Protect units from moisture damage.

1.09 FIELD CONDITIONS
   A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS:
   A. Wall hung cabinets and floor supported cabinets over 5 feet high shall be braced and anchored in accordance with the California Building Code (CBC) Title 24 Part 2, Table 1607A.1.
   B. Requirements for Physically Disabled: Provide products meeting requirements of California Code of Regulations (CCR), Title 24, Part 2, Chapter 11B and ADA Accessibility Guidelines for Buildings and Facilities, latest amendment.
1. Operable parts for all accessible casework shall comply with CBC Section 11B-309 Operable Parts.

2. Pull hardware shall be U-shaped wire pulls or equally accessible at all accessible casework; CBC 11B-811.4 Operable Parts.

2.02 CABINETS

A. Quality Standard: Custom Grade, in accordance with AWMAC/WI (NAAWS), unless noted otherwise.
   1. Storage, Janitor Closet, and/or Utility Room cabinets shall be built in conformance to Custom Grade.

B. Plastic Laminate Faced Cabinets: Custom grade.

C. Cabinets:
   2. Finish - Exposed Interior Surfaces: Decorative laminate.
   3. Finish - Semi-Exposed Surfaces: Solid phenolic
   4. Finish - Concealed Surfaces: Manufacturer's option. All surfaces to be sealed against checking.
   5. Finish - Semi-Exposed Surfaces: Cabinet interiors (other than exposed interior surfaces of open or glass front cabinets) including faces of shelving therein, and interior door faces: Finish with cabinet liner as specified herein, color as selected by the Architect.
   6. Shelf, Door, Drawer Front and False Front Edge Profiles: Square edge with thick applied band.
      a. Provide with subfronts and applied finish fronts securely fastened, with square corners, edges finished with 3 mm purified PVC.
      b. Doors, Drawer Fronts, and False Fronts: 3mm purified PVC edge band, color and pattern to match exposed laminate, hot-melt applied.
      c. All other exposed and semi exposed edges: 1mm PVC edge band, color and pattern to match exposed laminate.
   7. Door and Drawer Front Retention Profiles: Fixed panel.
   8. Casework Construction Type: Type A - Frameless.
   9. Interface Style for Cabinet and Door: Style 1 - Overlay; flush overlay.
      a. Hinged to swing flat against the face of adjoining cabinet or the side of cabinet
      b. Do not notch door or cabinet ends, or divisions to receive hinge.
   10. Layout for Cabinet and Door Fronts: Flush panel.
      a. Custom Grade: Doors, drawer fronts and false fronts wood grain to run and match vertically within each cabinet unit.
   11. Cabinet Design Series: As indicated on drawings.
      a. Base Cabinets without drawers: 100 series.
      b. Base Cabinets with drawers: 200 series.
      c. Wall hung Cabinets: 300 series.
      d. Tall Storage Cabinets: 400 series.
e. Wardrobe Cabinets: 500 series.
f. Library Cabinets: 600 series.

12. Adjustable Shelf Loading: 50 lbs. per sq. ft.
   a. Deflection: L/144.
   b. In-line bored holes with locking adjustable shelf clips.


15. Drawer Side Construction: Multiple-dovetailed.

16. Drawer Construction Technique: As recommended by fabricator.

17. Toe Kick Base: Resilient base at toe kick provided under Section 09 65 00 - Resilient Flooring.

2.03 WOOD-BASED COMPONENTS

A. Lumber shall be sound, kiln dried softwood and/or hardwood meeting the requirements of the AWS/NAAWS Grade specified for its intended purpose.

B. Panels shall contain no added urea-formaldehyde resins and shall be in accordance with the AWS/NAAWS requirements for the grade specified.

   1. Veneer: HPVA grade to meet the AWS/NAAWS requirements for type of surface and grade.

   2. Core: Comply with AWS/NAAWS.


2.04 LAMINATE MATERIALS

A. Manufacturers:

   1. Abet - Laminati: www.abetlaminati.com
   6. Substitutions: See Section 01 60 00 - Product Requirements.

B. Thermally Fused Laminate (TFL): Melamine resin, NEMA LD 3, Type VGL laminate panels.

   1. Manufacturers:


   b. Substitutions: See Section 01 60 00 - Product Requirements.

C. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.

D. Provide specific types as indicated.

   1. Horizontal Surfaces: HGS, 0.048 inch nominal thickness, color as selected, finish as scheduled.
2. Vertical Surfaces: VGS, 0.028 inch nominal thickness, color as selected, finish as scheduled.

3. Post-Formed Horizontal Surfaces: HGP, 0.039 inch nominal thickness, color as selected, finish as indicated.

4. Post-Formed Vertical Surfaces: VGP, 0.028 inch nominal thickness, color as selected, finish as indicated.

5. Cabinet Liner: CLS, 0.020 inch nominal thickness, color as selected, finish as scheduled.
   a. Low Pressure Decorative Laminate: color as selected by Architect from the manufacturer's full range, melamine surfacing.

6. Laminate Backer: BKL, 0.020 inch nominal thickness, undecorated; for application to concealed backside of panels faced with high pressure decorative laminate.

E. For more information on laminate materials, see Architect's Colors, Materials, & Finishes legend on sheet ID1.1.

2.05 COUNTERTOPS

A. Plastic Laminate Countertops: Medium density fiberboard substrate covered with HPDL, post-formed, with bullnose edge, as indicated on Drawings.
   1. Exposed Edge Treatment: Molded PVC edge with T-spline, sized to completely cover edge of panel.
      a. Color: As selected by Architect from the manufacturer's full line.
   2. Exposed Edge Treatment: Walnut nosing as indicated on drawings, natural spar varnish finish; back and end splashes with square top covered with matching laminate.

2.06 ACCESSORIES

A. Adhesive: Type recommended by fabricator to suit application.
   1. Urea Formaldehyde adhesives shall not be used.
   2. Contact cement shall have a VOC content of less than 80 g/l.
   3. Construction adhesive shall have a VOC content compliant with Section 01 61 16.

B. Fasteners: Size and type to suit application.

C. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations.

D. Concealed Joint Fasteners: Threaded steel.

E. Grommets: Standard plastic, painted metal, or stainless steel / chrome plated grommets for cut-outs, in color to match adjacent surface.
      a. Application: desk, countertop, or worksurface grommets.
      b. Hole Diameter: 3 inches.
      c. Type: Flip Top.
      d. Color as selected by Architect.
      e. Location as directed by Architect or District. Final location and color to be indicated on shop drawing submittal. Allow for minimum of one and maximum of three per workstation.
2.07 HARDWARE

A. Hardware: BHMA A156.9, types as recommended by fabricator for quality grade specified.

B. Adjustable Shelf Supports: Standard side-mounted system using multiple holes for pin supports and coordinated self rests, satin chrome or nickel finish, for nominal 1 inch spacing adjustments.
   2. Substitutions: See Section 01 60 00 - Product Requirements.

C. Fixed Specialty Shelf Supports:
   1. Material: Steel.
   2. Manufacturer's standard, factory-applied, textured powder coat.

D. Fixed Specialty Workstation and Countertop Brackets:
   1. Material: Steel.
   2. Finish: Manufacturer’s standard, factory-applied powder coat.
   3. Color: Selected by Architect from manufacturer’s standard range.

E. Fixed Americans with Disabilities Act (ADA)-Compliant Vanity and Countertop Brackets:
   1. Material: Steel.
   2. Finish: Manufacturer’s standard, factory-applied powder coat.
   3. Color: Selected by Architect from manufacturer’s standard range.

F. Drawer and Door Pulls: "U" shaped wire pull, steel with satin finish, 4 inch centers.
   1. Comply with CBC 11B-811.4.
   2. Amerock: BP76312-G10, 4 inch Pull, Allison Value Hardware
   4. Top Knob: M338 - Wire Pull 4 inch - Brushed Satin Nickel - Somerset Collection
   5. Substitutions: See Section 01 60 00 - Product Requirements.

G. Sliding Markerboard: See Section 10 11 01 - Visual Display Boards.

H. Sliding Markerboard Pulls: Elongated shape for recessed installation, aluminum with satin finish.
   1. Comply with CBC 11B-811.4.
   3. Substitutions: See Section 01 60 00 - Product Requirements.

I. Cabinet Locks: Keyed cylinder, two keys per lock, master keyed, steel with chrome finish.
   1. Provide locks on all cabinet doors and drawers in classrooms, except accessible sink bases, and as follows:
      a. A.V. Cabinets.
      b. Tall Storage Cabinets.
      c. Display Cabinets.
d. Teacher’s Wardrobe.
e. Teacher’s Work Area.
f. Teacher’s ’Personal’ Drawers.
g. Filing Cabinets.
h. Workrooms to have locks on all doors and drawers.
i. Nurse’s office to have locks on all doors and drawers.

2. Locks for doors and drawers shall be keyed alike for each room and masterkeyed.

3. Metal Strike Plates: Provide cabinet door and drawer locks with metal strike plates to protect against particle board rip out.

4. Door and drawer locks shall be of pin tumbler design and include working cylinder slides and forwardly removable cylinder to re-key without totally disassembling lock body and passed by ANSI Grade 1 testing.

5. Locks shall be easily rekeyable pin tumbler with working top slide and retainer staple.

6. Cabinet Locks:
   c. Substitutions: See Section 01 60 00 - Product Requirements.

7. Drawer Locks:
   c. Substitutions: See Section 01 60 00 - Product Requirements.

J. Catches: Magnetic.

   c. Stanley Architectural Hardware; Product CD46.
   d. Substitutions: See Section 01 60 00 - Product Requirements.

   d. Substitutions: See Section 01 60 00 - Product Requirements.

K. Drawer Slides:

1. Type: Full extension with no deflection.

2. Static Load Capacity: As required by drawer size.
   a. For drawers up to 18 inches wide and less than 4 inches in depth, provide slides with 100 pound capacity.
   b. For drawers over 18 inches in width and over 4 inches in depth, provide slides with 150 pound capacity.
      1) Drawer slide capacity with paper storage: 200 pounds.

   a. Provide mechanical stops designed to prevent accidental removal of the drawer.

5. Features: Provide self closing/stay closed type with rolling balls, steel rollers and self-lubricating bearings.

6. Manufacturers:
   e. Substitutions: See Section 01 60 00 - Product Requirements.

L. File Drawer Slides and accessories:
   1. Type: Full extension.
   2. Static Load Capacity: Extra Heavy Duty grade.
      a. Provide 150 pound capacity.
      b. Lateral file drawers more than 24 inches wide: 200 pound capacity
   4. Stops: Positive type. 3-section slide, 1/2 inch slide space.
   5. File Drawer Track and Follower: K&V 476T ZC and K&V 476F ZC or equal.
   7. Manufacturers:
      e. Substitutions: See Section 01 60 00 - Product Requirements.

M. Hinges: Semiconcealed type, BHMA No. B01521-3, steel with satin finish.
   1. Provide two hinges for doors up to 48 inches in height. Provide minimum three hinges for doors over 48 inches in height. Comply with WI certification requirements.
   2. Wrap around style offset for overlay doors with non-removable pin.
   3. Five-knuckle hinge.
   4. ANSI/BHMA A156.9 level: Grade 1.
   5. Manufacturers:
      d. Hettich America, LP: www.hettich.com/#sle.
g. Substitutions: See Section 01 60 00 - Product Requirements.

N. Soft Close Adapter: Concealed, frame-mounted, screw-adjustable damper; steel with polished finish.

O. Sliding Door Track Assemblies: Upper and lower track of satin anodized aluminum, with matching shoe equipped with nylon rollers.
   2. Manufacturers:
      a. Substitutions: See Section 01 60 00 - Product Requirements.

P. Dual Sliding Door/Markerboard Track and Carriers for Solid Doors: Overhead type for 3/4-inch thick doors.
   1. Grant Hardware Company, Division of Hettich International; Product No. 6065 Option I, with No. 6005 fascia: www.hettichamerica.com.
   3. Substitutions: See Section 01 60 00 - Product Requirements.

Q. Closet Utility Hook: 5-1/2 inch long steel with Anachrome finish for mounting on back side of wardrobe door cabinets.
   2. Substitutions: See Section 01 60 00 - Product Requirements.

R. Label Holder: Anochrome finish.
   3. Substitutions: See Section 01 60 00 - Product Requirements.

2.08 SHOP TREATMENT OF WOOD MATERIALS
   A. Provide UL (DIR) listed and approved identification on fire retardant treated material.
   B. Deliver fire retardant treated materials cut to required sizes. Minimize field cutting.

2.09 FABRICATION
   A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
   B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.

D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs.
   1. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.
   2. Cap exposed plastic laminate finish edges with material of same finish and pattern.

E. Provide cutouts for plumbing fixtures. Verify locations of cutouts from on-site dimensions. Seal cut edges.

2.10 SHOP FINISHING

A. Sand work smooth and set exposed nails and screws.

B. For opaque finishes, apply wood filler in exposed nail and screw indentations and sand smooth.

C. On items to receive transparent finishes, use wood filler matching or blending with surrounding surfaces and of types recommended for applied finishes.

D. Finish work in accordance with AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows:
   1. Transparent:
      a. System - 12, Polyurethane, Water-based.
      b. Stain: As selected by Architect.
      c. Sheen: Satin.
   2. Opaque:
      b. Color: As selected by Architect.
      c. Sheen: Semigloss.

E. Site applied stains and finishes shall comply with the requirements of Section 01 61 16
   1. All such products shall meet the VOC content requirements in the applicable category of South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings (current version).

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify adequacy of backing and support framing.

B. Verify location and sizes of utility rough-in associated with work of this section.

3.02 INSTALLATION

A. Install work in accordance with AWMAC/WI (NAAWS) requirements for grade indicated.
   1. Provide a WI Certified Compliance Certificate for installation as specified herein.
2. Install in accordance and comply with WI Certified Seismic Installation Program (CSIP).

B. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
   1. Install plumb, level, true and straight with no distortions. Shim as required using concealed shims. Scribe and cut for accurate fit.
   2. Base Cabinets: Set cabinets straight, plumb, and level. Adjust sub-tops within 1/16 inch of a single plane. Fasten each individual cabinet to floor at toe space, with fasteners spaced 12 inches on center. Bolt continuous cabinets together. Secure individual cabinets with not less than 2 fasteners into floor, where they do not adjoin other cabinets.
      a. Where required, assemble units into one integral unit with joints flush, tight, and uniform. Align similar adjoining doors and drawers to a tolerance of 1/16 inch.
   3. Wall Cabinets: Securely fasten woodwork per Division of the State Architect Standards (as adopted by WI) to solid supporting wall framing material, not plaster, lath, or gypsum board. Anchor, adjust, and align wall cabinets as specified for base cabinets.
      a. Reinforcement of stud walls to support wall-mounted cabinets specified in appropriate section, but responsibility for accurate location and sizing of reinforcement shall be coordinated with applicable trade.

C. Use fixture attachments in concealed locations for wall mounted components.
   1. Secure to ground, stripping, blocking with countersunk, concealed fasteners.

D. Use concealed joint fasteners to align and secure adjoining cabinet units.
   1. Install without distortion so that doors and drawers fit openings and are accurately aligned.

E. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.

F. Secure cabinets to floor using appropriate angles and anchorages.

G. Countersink anchorage devices at exposed locations. Conceal with solid wood plugs of species to match surrounding wood; finish flush with surrounding surfaces.

H. Install finish hardware after all finish work has been completed. Inspect drilling operations for surface splinters or delaminations. Pieces bearing such imperfections will be rejected.

3.03 ADJUSTING

A. Test installed work for rigidity and ability to support loads.

B. Adjust moving or operating parts to function smoothly and correctly.
   1. Adjust casework and hardware so that doors and drawers operate smoothly without warp or bind. Lubricate operating hardware as recommended by manufacturer.

3.04 CLEANING

A. Take necessary action to keep this work clean and free of dirt, trash, obstruction and equipment, except that necessary for the proper completion of this work. Remove materials not used.

B. Clean casework, counters, shelves, hardware, fittings, and fixtures.

END OF SECTION
SECTION 08 06 71
DOOR HARDWARE SCHEDULE

PART 1 GENERAL

1.01 SECTION INCLUDES
   A. Preliminary schedule of door hardware sets for swinging, sliding, and other door types as indicated on drawings.

1.02 RELATED REQUIREMENTS
   A. Section 08 71 00 - Door Hardware: Requirements to comply with in coordination with this section.

1.03 REFERENCE STANDARDS
   A. BHMA (CPD) - Certified Products Directory; 2016.
   B. BHMA A156.3 - American National Standard for Exit Devices; 2014.
   C. BHMA A156.5 - American National Standard for Cylinders and Input Devices for Locks; 2014.
   E. BHMA A156.18 - American National Standard for Materials and Finishes; 2012.
   F. DHI (H&S) - Sequence and Format for the Hardware Schedule; 1996.

1.04 SUBMITTALS
   A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
   B. Comply with submittal requirements as indicated in Section 08 71 00.

PART 2 PRODUCTS

2.01 MANUFACTURERS
   A. Only manufacturers listed in Door Hardware Schedule or Section 08 71 00 are considered acceptable, unless noted otherwise.
   B. Obtain each type of door hardware as indicated from a single manufacturer and single supplier.
   C. Products are listed and certified compliant with specified standards by BHMA (CPD).
   D. Manufacturer's Abbreviations: Coordinate with manufacturers listed in Section 08 71 00.
      1. GLY - Glyn Johnson, Allegion, PLC.
      2. IVE - Ives, Allegion, PLC.
      3. LCN - LCN Commercial Division, Allegion, PLC.
      4. SCE - Schlage Electronic Security, Allegion, PLC
      5. SCH/SC - Schlage Lock Company, Allegion, PLC.
      6. VON - Von Duprin, Allegion, PLC.
      7. ZER - Zero Industries, Inc., Allegion, PLC.
8. TBD - To be determined.
9. BYO/OT - By Others.

2.02 DESCRIPTION
A. Door hardware sets provided represent the design intent, they are only a guideline and should not be considered a detailed or complete hardware schedule.
1. Provide door hardware item(s) as required for similar purposes, even when item is not listed for a door in Door Hardware Schedule.
2. Necessary items that are not included in a Hardware Set should be added and have the appropriate additional hardware as required for proper application and functionality.
3. Door hardware supplier is responsible for providing proper size and hand of door for products required in accordance with Door Hardware Schedule and as indicated on drawings.
4. Quantities listed are for each Pair (PR) of doors, or for each Single (SGL) door, as indicated in hardware sets.

2.03 LOCK FUNCTION CODES
A. Function Codes for Cylindrical Locks: Complying with BHMA A156.5.
B. Function Codes for Mortise Locks: Complying with BHMA A156.13.
C. Function Codes for Exit Devices: Complying with BHMA A156.3.

2.04 FINISHES
A. Finishes: Complying with BHMA A156.18.

PART 3 EXECUTION
3.01 DOOR HARDWARE SCHEDULE
A. Organize listing of door hardware components within each hardware set in compliance with 10-Part scheduling sequence indicated in DHI (H&S), unless otherwise indicated.
B. See door schedule in drawings for hardware set assignments.
C. No hardware shall be ordered until Finished Hardware has been reviewed and approved by Architect’s hardware consultant.
D. Provide Factory order numbers for all products supplied on this project as part of close out documents for District’s warranty records.
E. Any door count quantity shown in the HW set listings is for reference only. Contractor shall verify all door quantities with the Architectural Drawings.
F. See door schedule in drawings for hardware set assignments.
G. Hardware Sets: See next page.

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San Bernardino City Unified School District
Pacific HS Modernization
RCA Project No. 1-78-21
Addendum 1
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### DOOR HARDWARE SCHEDULE

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WALL MOUNTED CARD READER & WIRING BY DIVISION 28.
ACTUATOR TO BE LOCATED AT OUTSIDE OF ROOM (RAMP).
PRESSENTING CREDENTIAL AT WALL-MOUNTED CARD READER WILL OPEN ELECTRIC STRIKE FOR
MANUAL ENTRY AND WILL ACTIVATE ACTUATOR FOR SEVERAL SECONDS. PRESSING ACTUATOR WILL
AUTOMATICALLY OPEN THE DOOR.

**POWER FAILURE OPERATION:**
AUTO-OPERATOR, ELECTRIC STRIKE & ACCESS CONTROL DEVICE TO BE CONNECTED TO A POWER
SUPPLY WITH BATTERY BACKUP. DURING POWER OUTAGE, DOOR TO AUTOMATICALLY OPEN AND
REMAIN OPEN VIA MAGNETIC HOLD-OPEN. CONNECT MAGNETIC HOLD-OPEN TO FIRE ALARM
SYSTEM.
FREE EGRESS AT ALL TIMES.

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### DOOR HARDWARE SCHEDULE

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San Bernardino City Unified School District
Pacific HS Modernization
RCA Project No. 1-78-21
Addendum 1
### Door Hardware Schedule

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## Door Hardware Schedule

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ACTUATOR TO BE LOCATED AT INSIDE OF ROOM.
POWER PART OF DIVISION 28.
### Door Hardware Schedule

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San Bernardino City Unified School District  
Pacific HS Modernization  
RCA Project No. 1-78-21  
Addendum 1
## DOOR HARDWARE SCHEDULE

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*LOCK SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN SECTION 28*

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## Door Hardware Schedule

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EXIT DEVICE TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN SECTION 28
### DOOR HARDWARE SCHEDULE

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SEALS AND SWEEPS BY DOOR MANUFACTURER
DOORS MUST BE WIDE STILE TO MOUNT PANIC DEVICE
EXIT DEVICE TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN SECTION 28

**END OF SECTION**
SECTION 08 31 00
ACCESS DOORS AND PANELS

PART 1  GENERAL

1.01  SECTION INCLUDES
   A. Wall and ceiling access door and frame units.

1.02  RELATED REQUIREMENTS
   A. Section 09 21 16 - Gypsum Board Assemblies: Openings in partitions.
   B. Section 09 21 16 - Gypsum Board Assemblies and 10 00 060 - 10 00 060: Openings in ceilings.
   C. Section 09 30 00 - Tiling: Tile finishes on and around openings.
   D. Section 09 91 13 - Exterior Painting: Field paint finish.
   E. Section 09 91 23 - Interior Painting: Field paint finish.
   F. Divisions 11, 12, 13, and 14: Miscellaneous components requiring access.
   G. Divisions 21, 22, 23, 26, 27, and 28: Mechanical and Electrical components requiring access.
      1. Access doors in ductwork.

1.03  REFERENCE STANDARDS
   A. ITS (DIR) - Directory of Listed Products; current edition.

1.04  SUBMITTALS
   A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
   B. Product Data: Provide sizes, types, finishes, hardware, scheduled locations, and details of adjoining work.
      1. If other than specified products by specified manufacturer, submit product data for each type of access door to be used. Include schedule of access door types, sizes and locations.
   C. Shop Drawings: Indicate exact position of each access door and/or panel unit.
      1. For access doors other than shown on Drawings, submit marked floor plan giving locations of all access doors. Submit shop drawing for Architect's review before laying out utility services which require access doors.
   D. Manufacturer's Installation Instructions: Indicate installation requirements.
   E. Project Record Documents: Record actual locations of each access unit.

1.05  QUALITY ASSURANCE
   A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
   B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years documented experience.
1.06 QUALITY ASSURANCE

A. Single Source Responsibility: Obtain access doors for entire project from one source from a single manufacturer.

B. Regulation Requirements: Fire rated access doors shall conform to California Building Code (CBC) Title 24, Part 2, Chapter 7. Panels shall bear the label of Underwriters Laboratories or other testing agency acceptable to the State Fire Marshal.

C. Fire-Resistance Ratings: Wherever a fire-resistance classification is indicated, provide access door assembly for rating shown, with flush door, frame, hinge, and latch from manufacturer listed in UL - Building Materials Directory. Provide UL label on each fire-rated access door.

D. Size Variations: Obtain Architect's acceptance of manufacturer's standard size units, which may vary slightly from sizes indicated.

E. Coordination: Furnish inserts and anchoring devices for building into adjoining Work for installation of access doors.

1.07 PROJECT CONDITIONS

A. Verification: Obtain specific locations and sizes for required access doors for Work specified in Plumbing, Mechanical, Electrical or other Sections, for access to concealed equipment, and indicate on submitted schedule.

B. Special-Size Access Doors: Sizes up to 20-inches by 30-inches used where necessary or as indicated. Indicate special size access doors on submitted schedule.

PART 2 PRODUCTS

2.01 ACCESS DOORS AND PANELS

A. Access Door Materials and Fabrication, General: Provide each access door assembly manufactured as an integral unit, complete with all parts, and ready for installation.

1. If size is not indicated, provide size as directed to adequately access concealed operable mechanisms.

B. Units in Fire Rated Assemblies: Fire rating equivalent to the fire rated assembly in which they are to be installed.

1. Provide products listed and labeled by UL or ITS (Warnock Hersey) as suitable for the purpose specified and indicated.

2.02 ACCESS DOORS AND PANELS ASSEMBLIES

A. Wall-Mounted Units:

1. Location: As indicated on drawings.


4. Door/Panel: Hinged, standard duty, with tool-operated spring or cam lock and no handle.

5. Wall Mounting Criteria: Provide surface-mounted face frame and door surface flush with frame surface.

B. Wall-Mounted Units in Wet Areas:
1. Material: Steel, hot-dipped zinc, or zinc-aluminum-alloy coated.
2. Size: 12 inch by 12 inch.
3. Door/Panel: Hinged, standard duty, with tool-operated spring or cam lock and no handle.
5. Gypsum Board Mounting Criteria: Provide drywall bead frame with door surface flush with wall surface.

C. Fire-Rated Wall-Mounted Units:
1. Wall Fire-Rating: As indicated on drawings.
4. Door/Panel: Insulated double-surface panel, with tool-operated spring or cam lock and no handle.

D. Ceiling-Mounted Units:
1. Material: Steel.
2. Size - Other Ceilings: 12 inch by 12 inch.
3. Door/Panel: Hinged, standard duty, with tool-operated spring or cam lock and no handle.

E. Parapet Wall-Mounted Units in Wet Areas:
2. Location: Inside the roof parapet for sprinkler access.
3. Material: 16 ga. Galvanized Steel Frame and 2 inch thick insulated 0.040 aluminum door.
4. Handle: Locking, zinc die cast with chrome plating.
5. Gasketing: EPDM Foam Rubber Bulb Seal.
7. Door/Panel: Hinged, stainless steel.
2.03 WALL AND CEILING MOUNTED UNITS

A. Manufacturers:
   2. ACUDOR Products Inc: www.acudor.com/#sle.
   10. Substitutions: See Section 01 60 00 - Product Requirements.

B. Wall and Ceiling Mounted Units: Factory fabricated door and frame, fully assembled units with corner joints welded, filled and ground flush; square and without rack or warp; coordinate requirements with type of installation assembly being used for each unit.
   1. Style: As indicated on drawings.
   2. Door Style: Single thickness with rolled or turned in edges.
   3. Frames: 16 gage, 0.0598 inch, minimum thickness.
      a. Exposed flange: Nominal 1-inch wide around perimeter of frame. Provide flange at flush-mounted (surface) access doors.
      b. For installation at gypsum drywall or gypsum veneer plaster finishes: Provide perforated frames with drywall bead.
      c. For installation in concrete or masonry construction: Provide frames with adjustable metal masonry anchors.
      d. For installation at full-bed plaster finishes: Provide frames with galvanized expanded metal lath and exposed casing bead, welded to perimeter of frame.
   4. Heavy Duty Frames: 14 gage, 0.0747 inch, minimum thickness.
   5. Heavy Duty Single Steel Sheet Door Panels: 14 gage, 0.0747 inch, minimum thickness.
   6. Insulation: Non-combustible mineral wool or glass fiber.

C. Units in Fire-Rated Assemblies: Fire rating as required by applicable code for fire-rated assembly that access doors are being installed.
   1. Provide products listed by ITS (DIR) or UL (FRD) as suitable for purpose indicated.
   2. Provide certificate of compliance from authorities having jurisdiction indicating approval of fire rated doors.
   4. Primed and Factory Finish: Polyester powder coat; color as selected by Architect from manufacturer’s standard colors.
   5. Door/Panel Size: As indicated on the drawings.
   6. Hardware:
a. Hardware for Fire-Rated Units: As required for listing.
b. Hinges for Non-Fire-Rated Units: Concealed, constant force closure spring type.
c. Latch/Lock: Screw driver slot for quarter turn cam latch.
d. Gasketing: Extruded neoprene, around perimeter of door panel.

D. Provide recess-mounted doors for concealed installation in:
   1. Acoustic tile ceiling systems, where indicated.
   2. Acoustical tile-finished gypsum board ceilings, where indicated.
   3. Gypsum board walls, where indicated.
   4. Ceramic tile walls, where indicated.

E. Provide recess-mounted doors and frames with expanded metal lath for concealed installation in plaster.

2.04 ACCESSORIES
A. Furnish attachment devices and fasteners of type required to secure access doors to types of support shown.
B. Locks:
   1. Non-Rated Access Doors: By Manufacturer, type where indicated
      a. Cam-action latch with special square-shanked key.
   2. Fire-Rated Access Doors: By Manufacturer, type where indicated.
      a. Flush key device for self-latching bolt-type latch.
   3. Key all locks alike, unless otherwise scheduled.
   4. Where shown or scheduled, provide one cylinder lock per access door.
   5. For recess-mounted access doors, provide access sleeves for each locking device.
   6. Provide plastic grommets for installation in holes cut through finish.

PART 3 EXECUTION

3.01 EXAMINATION
A. Verify that rough openings are correctly sized and located.
B. Begin installation only after substrates have been properly prepared, and if the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION
A. Clean surfaces thoroughly prior to proceeding with this work.
B. Prepare surfaces using methods recommended by manufacturer for applicable substrates in accordance with project conditions.

3.03 INSTALLATION
A. Install units in accordance with manufacturer's instructions, in compliance with requirements of listing authority..
B. Install frames plumb and level in openings, and secure units rigidly in place.
C. Provide for correct termination of adjoining finish materials.
D. Position units to provide convenient access to concealed equipment when necessary.

3.04 ADJUST AND CLEAN
A. Adjust access doors and hardware after installation for proper and smooth operation.
B. Remove and replace panels or frames that are warped, bowed, or otherwise damaged.
C. Remove protective coverings and clean stainless steel access doors during cleaning for Substantial Completion Review.

3.05 SCHEDULES
A. Access Door Locations:
   1. Provide access doors where indicated on Architectural, Mechanical, Plumbing and Electrical Drawings.
   2. Access doors indicated and required for Mechanical, Plumbing and Electrical Work shall be of a type matching those specified in this Section.
   3. Provide access doors as required to service building systems and as required by governing authorities, although not shown on Drawings.
      a. Provide at smoke or fire detector in attic spaces. Size to allow for access and testing.
   4. Locate access doors, where practical, in building service areas and not in public or guest view.
   5. Submit proposed locations for access doors, not indicated on Drawings, to Architect for review prior to rough-in.
B. Non-Fire Rated Door and Frame Units in Walls:
   1. In Gypsum Board on Studs:
      a. For service and utility locations, primer paint finish, Model DSC-214M manufactured by Karp.
      b. For food service, toilet and damp locations, stainless steel, Model DSC-214M manufactured by Karp.
      c. For Administration, Multi-Purpose and similar areas accessible by general public, recessed face for field-applied and finished plaster on door face, Model RDW manufactured by Karp.
      d. For toilets and locations accessible by general public with ceramic tile wall finish, flush-mounted with face of tile, stainless steel, Model DSB-214M manufactured by Karp.
C. Non-Fire Rated Door and Frame Units in Ceilings:
   1. In Gypsum Board on Metal Furring:
      a. For service and utility locations, primer paint finish, Model DSC-214M manufactured by Karp.
      b. For food service, toilet and damp locations, stainless steel, Model DSC-214M manufactured by Karp.
c. For Administration, Multi-Purpose and similar areas accessible by general public, recessed face for field-applied and finished plaster on door face, Model RDW manufactured by Karp.

D. Fire-Rated Access Doors: Access doors in time-rated fire-resistive walls, partitions and ceilings shall carry same rating as the wall, partition or ceiling.

E. Fire Rated Door and Frame Units in Walls:
   1. In Gypsum Board on Studs:
      a. 1-1/2 hour B label fire rating.
      b. For public areas, service and utility locations, primer paint finish, surface mounted, filled with 2-inch thick fire-rated insulation, with automatic closer, self-latching bolt-type latch, Model KPR-150FR manufactured by Karp.
      c. For Food Service, Toilet and other damp locations with ceramic tile finish, stainless steel finish, surface mounted, filled with 2-inch thick fire-rated insulation, with automatic closer, self-latching bolt-type latch, Model KPR-150FR manufactured by Karp.

F. Fire Rated Door and Frame Units in Ceilings:
   1. In Gypsum Board on Metal Furring:
      a. For typical dry locations, surface mounted, primer paint finish, filled with 2-inch thick fire-rated insulation, with automatic closer, self-latching bolt-type latch, Model KRP-150FR manufactured by Karp.
      b. For Food Service, Toilet and other damp locations, stainless steel finish, surface mounted, filled with 2-inch thick fire-rated insulation, with automatic closer, self-latching bolt-type latch, Model KPR-150FR manufactured by Karp.

END OF SECTION
SECTION 09 30 00
TILING

PART 1 GENERAL

1.01 SECTION INCLUDES
A. Tile for floor applications.
B. Tile for wall applications.
C. Cementitious backer board as tile substrate.
D. Stone thresholds.
E. Ceramic trim.
F. Non-ceramic trim.

1.02 RELATED REQUIREMENTS
A. Section 07 92 00 - Joint Sealants: Sealing joints between tile work and adjacent construction and fixtures.
B. Section 08 31 00 - Access Doors and Panels: Access panels set in tile surface.
C. Section 09 21 16 - Gypsum Board Assemblies: Tile backer board.
D. Section 09 24 00 - Cement Plastering: Lath and Portland cement scratch coat, where required by the TCNA (HB) Method specified.
E. Division 22 - Plumbing: Plumbing Fixtures, Floor drains and miscellaneous devices.

1.03 REFERENCE STANDARDS
   1. Use 1999 (Reapproved 2002) as indicated in CBC 2016 Referenced Standards.
F. ANSI A108.4 - American National Standard Specifications for Installation of Ceramic Tile with Organic Adhesives or Water Cleanable Tile-Setting Epoxy Adhesive; 2009 (Revised).


P. ANSI A118.1 - American National Standard Specifications for Dry-Set Cement Mortar; 2012 (Revised).


R. ANSI A118.4 - American National Standard Specifications for Modified Dry-Set Cement Mortar; 2012 (Revised).


   1. Use 2012 as indicated in CBC 2016 Referenced Standards.


1.04 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by all affected installers.

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Product Data: Provide manufacturers’ data sheets on tile, mortar, grout, and accessories. Include instructions for using grouts and adhesives.
C. Shop Drawings: Indicate tile layout, patterns, color arrangement, perimeter conditions, junctions with dissimilar materials, control and expansion joints, thresholds, and setting details.
D. Samples: Mount tile and apply grout on two plywood panels, minimum 18 by 18 inches in size illustrating pattern, color variations, and grout joint size variations.
E. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
   1. Submit manufacturer's certification that grout materials being provided are suitable for intended use, meet or exceed referenced ANSI standards, and are listed on Ceramic Tile Institute "Tested Materials" list.
   2. Prior to shipment of tile to jobsite, deliver Master Grade Certificates to Architect, complying with TCNA/ANSI A137.1.
F. Maintenance Data: Include recommended cleaning methods, cleaning materials, and stain removal methods.
G. Maintenance Materials: Furnish the following for District's use in maintenance of project.
   1. See Section 01 60 00 - Product Requirements, for additional provisions.
   2. Extra Tile: One box, minimum of 24 pieces of each size, color, and surface finish combination.

1.06 QUALITY ASSURANCE

A. Maintain one copy of and ANSI A108/A118/A136 and TCNA (HB) on site.
B. Requirements for Physically Disabled: Provide ceramic tile flooring meeting slip-resistant requirements of California Code of Regulations (CCR), Title 24, Part 2, Chapter 11B and ADA Standards, latest amendment.
1. Tile flooring surface shall be stable, firm, and slip resistant. CBC Section 11B-302.1 General.
2. Tile flooring Surface shall demonstrate a dynamic coefficient of friction of at least 0.42 wet per DCOF AcuTest ANSI A137.1 Section 9.6 and ANSI/NFSI B101.3 (using a BOT-3000 testing unit) will be accepted as meeting the intent of slip resistance; CBC 11B-302 Floor or Ground Surfaces and ADA Standards.
   a. Ramp surface: Provide wet DCOF value of 0.46.

C. Regulatory Requirements:
   1. California Plumbing Code:
      a. Floor Drains:
         1) Inspection of Work - All surfaces prepared by others shall be inspected by the tile installer before starting tile work and all unsatisfactory conditions reported to the Administrative Authority. Starting tile work by the tile installer shall be considered as acceptance of surfaces prepared by others.
         2) Surfaces - All surfaces to receive tile work shall be clean, structurally sound, and slopes shall conform to CBC.
            Note: No tile work shall proceed until the pan and drain construction has been inspected and approved by the Administrative Authority, where required.
      b. Definition:
         1) Receptor: An approved plumbing fixture or device of such material, shape, and capacity as to adequately receive the discharge from indirect waste pipes, so constructed and located as to be readily cleaned. CPC 220.0

D. Manufacturer Qualifications: Company specializing in manufacturing the types of products specified in this section, with minimum five years of documented experience.

E. Installer Qualifications:
   1. Company specializing in performing tile installation, with minimum of five years of documented experience.

1.07 MOCK-UP
   A. See Section 01 40 00 - Quality Requirements, for general requirements for mock-up.
   B. Construct tile mock-up where indicated on drawings, incorporating all components specified for the location.
      1. Minimum size of mock-up is indicated on drawings.
      2. Approved mock-up may remain as part of the Work.

1.08 DELIVERY, STORAGE, AND HANDLING
   A. Delivery:
      1. Deliver tile, cement, lime, mortar and grout to the project site in unopened containers, labeled with the manufacturer's name and brand designation.
      2. Grade seal tile cartons by the manufacturer in accordance with ANSI A137.1.
      3. Include hallmarks on labels for dry set and latex mortars certifying compliance with ANSI A118.1 and ANSI A118.4 respectively.
B. Storage: Store tile and cementitious materials in dry, weather tight enclosures. Store stand in a well drained area on a solid surface to prevent mixing with foreign matter.
C. Protect adhesives from freezing or overheating in accordance with manufacturer’s instructions.

1.09 FIELD CONDITIONS
A. Do not install solvent-based products in an unventilated environment.
B. Maintain ambient and substrate temperature of 50 degrees F and rising during installation of mortar and grout materials. Temperature of the substrate shall not exceed 100 degrees F.
C. Shade work from direct sunlight during tile installation as needed to prevent rapid evaporation caused by excessive heat.

1.10 WARRANTY
A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
B. Correct defective Work within a one year period after Date of Substantial Completion.
C. Provide ten year manufacturer warranty for waterproofing liners.

PART 2 PRODUCTS

2.01 TILE
A. Acceptable Manufacturers: All products by the same manufacturer.
   3. Substitutions: See Section 01 60 00 - Product Requirements.
B. Ceramic Mosaic Tile: ANSI A137.1, standard grade.
   1. Moisture Absorption: 0 to 0.5 percent as tested in accordance with ASTM C373.
   2. Size: As indicated on Drawings, nominal.
   3. Shape: Square.
   4. Edges: Cushioned.
      a. Dynamic Wet Slip Resistance DCOF AcuTest: 0.42
   6. Color(s): To be selected by Architect from manufacturer's standard range.
C. Glazed Wall Tile: ANSI A137.1, standard grade.
   1. Moisture Absorption: 7.0 to 20.0 percent as tested in accordance with ASTM C373.
   2. Size: As indicated on Drawings, nominal.
   3. Edges: Cushioned.
   5. Color(s): To be selected by Architect from manufacturer's standard range.
D. Porcelain Tile: ANSI A137.1, standard grade.
   1. Moisture Absorption: 0 to 0.5 percent as tested in accordance with ASTM C373.
2. Size: As indicated on Drawings, nominal.
3. Thickness: 3/8 inch.
4. Edges: Cushioned.
6. Color(s): As indicated in Architect's Colors, Materials, & Finishes Legend on Sheet ID1.1
7. Trim Units: Matching bullnose, double bullnose, cove base, and cove shapes in sizes coordinated with field tile.

2.02 TRIM AND ACCESSORIES

A. Ceramic Trim: Matching bullnose, surface bullnose, double bullnose, cove base, and cove ceramic shapes in sizes coordinated with field tile.
   1. Applications:
      a. Open Edges: Bullnose.
      b. Inside Corners: Jointed.
      c. Floor to Wall Joints: Cove base.
   2. Manufacturers: Same as for tile.

B. Non-Ceramic Trim: Brushed stainless steel, style and dimensions to suit application, for setting using tile mortar or adhesive.
   1. Material and Finish: E - Stainless Steel Type 304 = V2A.
   2. Applications:
      a. Open edges of wall tile.
      b. Open edges of floor tile.
         1) Trim tile to carpet.
      c. Wall corners, outside and inside.
         1) Description: Profile with square visible surface, integrated trapezoid-perforated anchoring leg, and integrated grout joint spacer.
         2) Product; Quadec as manufactured by Schluter; www.schluter.com.
      d. Transition between floor finishes of different heights.
      e. Expansion and control joints, floor and wall.
      f. Floor to wall joints (Cove Base).
         1) Description: Profile with integrated trapezoid-perforated anchoring legs, connected at a 90 degree angle by a cove-shaped section with 3/8 inch radius that forms the visible surface.
         2) Borders and other trim as indicated on drawings.
   3. Manufacturers:
      e. Substitutions: See Section 01 60 00 - Product Requirements.
C. Thresholds: Type and color as indicated on Drawings or as selected by Architect, honed finish; 2 inches wide by full width of wall or frame opening; 1/2 inch thick; beveled one long edge with radiused corners on top side; without holes, cracks, or open seams.

1. Applications:
   a. At doorways where tile terminates.


   a. Color and Pattern: As indicated on drawings.
   b. Manufacturers:
      6) Substitutions: See Section 01 60 00 - Product Requirements.

2.03 SETTING MATERIALS

A. Manufacturers:
   7. Substitutions: See Section 01 60 00 - Product Requirements.

B. Interior adhesives, sealants, primers and sealants used as filler must meet the requirements of low emitting materials. Conform to SCAQMD 1168 and BAAQMD 8-51.

C. Epoxy Adhesive and Mortar Bond Coat: ANSI A118.3 and TCNA (HB).
   1. Applications: Where indicated on drawings.
   2. Products:
      b. LATICRETE International, Inc; LATICRETE LATAPOXY 300 Adhesive: www.laticrete.com/#sle.
      d. Merkrete, by Parex USA, Inc; Merkrete Pro Epoxy: www.merkrete.com/#sle.
      e. Substitutions: See Section 01 60 00 - Product Requirements.

   1. Products:


c. Substitutions: See Section 01 60 00 - Product Requirements.

E. Mortar Bed Materials: Pre-packaged mix of Portland cement, sand, latex additive, and water.

1. Products:


d. Merkrete, by Parex USA, Inc; Merkrete Underlay C: www.merkrete.com/#sle.


ef. Substitutions: See Section 01 60 00 - Product Requirements.

2.04 GROUTS

A. Manufacturers:
   7. Substitutions: See Section 01 60 00 - Product Requirements.

B. High Performance Polymer Modified Grout: ANSI A118.7 polymer modified cement grout.
   1. Applications: Use this type of grout where indicated on exterior over plaster.
   2. Use sanded grout for joints 1/8 inch wide and larger; use unsanded grout for joints less than 1/8 inch wide.
   3. Color(s): As selected by Architect from manufacturer's full line.
   4. Products:
      d. Mapei, Inc.; Keracolor S Grout unsanded: www.mapei.com
      e. Merkrete, by Parex USA, Inc; Merkrete Pro Grout: www.merkrete.com/#sle.
      g. TEC Specialty Construction Brands; Accucolor® Premium Sanded Grout: www.tecspecialty.com.
      h. Substitutions: See Section 01 60 00 - Product Requirements.
C. Epoxy Grout: ANSI A118.3 chemical resistant and water-cleanable epoxy grout.
   1. Applications: Toilet Room Floors.
   2. Color(s): As indicated on drawings.
   3. Products:
      d. Merkrete, by Parex USA, Inc; Merkrete Pro Epoxy: www.merkrete.com/#sle.
      e. TEC, an H.B. Fuller Construction Products Brand; TEC AccuColor EFX Epoxy Special Effects Grout: www.tecspecialty.com/#sle.
      f. Substitutions: See Section 01 60 00 - Product Requirements.

D. Stain Resistant Grout Additive: Liquid admixture for sanded and unsanded cement-based grouts; mix with dry grout material in place of water.
   1. Applications: Toilet Rooms.

2.05 MAINTENANCE MATERIALS
A. Tile Sealant: Gunnable, silicone, siliconized acrylic, or urethane sealant; moisture and mildew resistant type.
   1. Applications: Between tile and plumbing fixtures.
   2. Color(s): As selected by Architect from manufacturer's full line.
   3. Products:
      a. ARDEX Engineered Cements; ARDEX SX: www.ardexamericas.com/#sle.
      b. Custom Building Products; Commercial 100% Silicone Caulk: www.custombuildingproducts.com/#sle.
      d. MAPEI Corporation; Mapesil Silicone Sealant: www.mapei.com.
      e. Merkrete, by Parex USA, Inc; Merkrete Colored Caulking: www.merkrete.com/#sle.
      f. Substitutions: See Section 01 60 00 - Product Requirements.

B. Grout Sealer: Liquid-applied, moisture and stain protection for existing or new Portland cement grout.
   1. Composition: Water-based colorless silicone.
      a. Wall Grout Sealer: Silicone sealer, clear penetrating.
      b. Floor Grout and Tile Sealer: Acrylic emulsion, 18 percent solids, clear, non-yellowing, slip resistant.
   2. Products:
      b. Merkrete, by Parex USA, Inc; Merkrete Grout Sealer: www.merkrete.com/#sle.
      c. Substitutions: See Section 01 60 00 - Product Requirements.
2.06 ACCESSORY MATERIALS

A. Concrete Floor Slab Crack Isolation Membrane: Material complying with ANSI A118.12; not intended as waterproofing.
   1. Type: Fluid-applied.
   2. Thickness: 20 mils, maximum.
   3. Crack Resistance: No failure at 1/16 inch gap, minimum.
   4. Products:
      b. LATICRETE International, Inc; LATICRETE Blue 92 Anti-Fracture Membrane: www.laticrete.com/#sle.
      c. MAPEI Corporation; Mapelastic HPG w/Fiberglass Mesh: www.mapei.com.
      d. Merkrete, by Parex USA, Inc; Merkrete Fracture Guard: www.merkrete.com/#sle.
      e. Substitutions: See Section 01 60 00 - Product Requirements.

B. Waterproofing Membrane at Floors: Specifically designed for bonding to cementitious substrate under thick mortar bed or thin-set tile; complying with ANSI A118.10.
   1. Fluid or Trowel Applied Type:
      a. Thickness: 25 mils, minimum, dry film thickness.
      b. Products:
         2) LATICRETE International, Inc; LATICRETE HYDRO BAN: www.laticrete.com/#sle.
         4) Merkrete, by Parex USA, Inc; Merkrete Hydro Guard 2000: www.merkrete.com/#sle.
         45) Substitutions: See Section 01 60 00 - Product Requirements.

C. Cleavage Membrane Under Thick Mortar Bed:
   1. Material: No. 15 asphalt saturated felt.

D. Reinforcing Mesh: 2 by 2 inch size weave of 16/16 wire size; welded fabric, galvanized.

E. Membrane at Walls:
   1. Material: No. 15 asphalt saturated felt.

F. Metal Lath: ASTM C847, Flat diamond mesh, of weight to suit application, galvanized finish.

G. Backer Board: Cementitious type complying with ANSI A118.9; high density, glass fiber reinforced, 1/2 inch thick; 2 inch wide coated glass fiber tape for joints and corners.
   1. Products:
      a. Custom Building Products; WonderBoard Lite Backerboard: www.custombuildingproducts.com/#sle.
      b. Substitutions: See Section 01 60 00 - Product Requirements.

H. Mesh Tape: 2 inch wide self-adhesive fiberglass mesh tape.
PART 3  EXECUTION

3.01  REGULATORY REQUIREMENTS FOR INSTALLATION

   A. California Plumbing Code:
      1. Floor Drains:
         a. Floors shall be sloped maximum 2% to drains. CPC 411.4.

3.02  EXAMINATION

   A. Verify that sub-floor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive tile.
      1. Walls and floors to be level, plumb and true to within the listed for each applicable TCNA (HB) assembly method used.
   B. Confirm that rough-ins for plumbing, mechanical and electrical work behind tile have been installed and tested.
   C. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive tile.
   D. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of setting materials to sub-floor surfaces.
   E. Verify that concrete sub-floor surfaces are ready for tile installation by testing for moisture emission rate and alkalinity; obtain instructions if test results are not within the following limits:
      1. Moisture Emission Rate: Not greater than 3 lb per 1000 sq ft per 24 hours, test in accordance with ASTM F1869.
      2. Alkalinity (pH): Verify pH range of 5 to 9, test in accordance with ASTM F710.
   F. Verify that required floor-mounted utilities are in correct location.

3.03  PREPARATION

   A. Protect surrounding work from damage.
   B. Vacuum clean surfaces and damp clean.
   C. Seal substrate surface cracks with filler.  Level existing substrate surfaces to acceptable flatness tolerances.
   D. Install backer board in accordance with ANSI A108.11 and board manufacturer's instructions.  Tape joints and corners, cover with skim coat of setting material to a feather edge.
   E. Prepare substrate surfaces for adhesive installation in accordance with adhesive manufacturer's instructions.

3.04  INSTALLATION - GENERAL

   A. Waterproof/Anti-Fracture Membrane Application: Comply with manufacturer's written instructions and recommendations for substrate, tile setting method and Project conditions.
   B. Install tile and thresholds and grout in accordance with applicable requirements of ANSI A108.1a through ANSI A108.13, manufacturer's instructions, and TCNA (HB) recommendations.
C. Expansion Joints: Provide expansion joints at locations and spacings as recommended by TCNA (HB) Detail EJ171 and as indicated on Drawings. Keep joints free of setting bed mix and grout.

D. Lay tile to pattern indicated. Do not interrupt tile pattern through openings.
   1. Joint Pattern: Lay tile in grid pattern unless otherwise indicated on Drawings or directed by Architect. Lay out tile pattern and center tile fields both directions in each space or on each wall area. Provide uniform joint widths.
   2. Coordinate with work of Division 22 - Plumbing for access door locations to coincide (at least 2 sides) with tile joints.

E. Set tile firmly on new; setting bed or backerboard surfaces with a minimum of 100 percent coverage at floors.
   1. Back-butter ribbed tiles and other tiles in accordance with TCNA/ANSI A108.5.
   2. Spacers on tile determine joint width between tiles.
   3. Strings or pegs may be used to space tile that have no spacers.
   4. Bring all surfaces to a true plane at proper position or elevation.
   5. Thoroughly beat-in all tile with a beating block while mortar coat is still plastic.
   6. Beating shall fill minimum of 95 percent of entire space between units and setting bed.
   7. Eighty percent coverage of individual tiles is permitted for walls in non-wet areas.

F. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor joints.
   1. Prepare surfaces, cut, fit and set tile. Extend tile into recesses and under equipment and fixtures to form a complete covering without interruptions. Terminate tile neatly at obstructions, edges, and corners, without disruption of pattern or joint alignment.

G. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, excess mortar, or excess grout. All inside corners shall be coved. No butted 90 degree intersections permitted. All outside corners shall be bull nosed.

H. Form internal angles square and external angles bullnosed.

I. Install non-ceramic trim in accordance with manufacturer's instructions.

J. Install thresholds where indicated.

K. Sound tile after setting. Replace hollow sounding units.

L. Keep control and expansion joints free of mortar, grout, and adhesive.

M. Prior to grouting, allow installation to completely cure; minimum of 48 hours.

N. Grout tile joints unless otherwise indicated. Use standard grout unless otherwise indicated.

O. At changes in plane and tile-to-tile control joints, use tile sealant instead of grout, with either bond breaker tape or backer rod as appropriate to prevent three-sided bonding.

3.05 INSTALLATION - FLOORS - MORTAR BED METHODS

A. Over interior concrete substrates, install in accordance with TCNA (HB) Method with waterproof membrane, unless otherwise indicated.
1. Where waterproofing membrane is indicated, with standard grout or no mention of grout type, install in accordance with TCNA (HB) Method F121.

B. Cleavage Membrane: Lap edges and ends.
C. Waterproofing Membrane: Install as recommended by manufacturer.
D. Mortar Bed Thickness: 1-1/4 inch, unless otherwise indicated.

3.06 INSTALLATION - WALL TILE
A. Over cementitious backer units on studs, install in accordance with TCNA (HB) Method W244C, using membrane at toilet rooms.

3.07 GROUTING
A. Joint Width: As follows unless indicated otherwise on Drawings.
   1. Glazed Wall Tile, Unmounted: As determined by spacing lugs.
   2. Glazed Floor Tile, Unmounted: 1/8 inch.
   5. Trim and Accessories: Match adjoining tile units.
D. Do not begin grouting tiles until they are firmly set and a minimum of 48 hours of curing has occurred.
E. Remove spacers, ropes, glue, and similar foreign matter prior to grouting.
F. When using proprietary grout, comply with manufacturer's instructions and recommendations unless otherwise more stringent requirements are specified.
G. Force maximum amount of approved grout into joints in accordance with pertinent recommendations contained in TCNA/ANSI A108.10.
H. Fill joints of cushion-edge tile to depth of cushion; fill joints of square-edge tile flush with tile surface.
I. Fill all gaps and skips.
J. Do not permit mortar or mounting mesh to show through grouted joints.
K. Provide hard finished grout which is uniform in color, smooth, and without voids, pin holes, or low spots.
L. Leave tile clean.

3.08 TOLERANCES
A. Subsurface Guidelines: Refer to TCNA (HB) for a complete guidelines.

<table>
<thead>
<tr>
<th>Mortar Bed</th>
<th>1/4 inch: 10 feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thin Bed w/ cementitious bonding material w/ Tiles &lt;15&quot;</td>
<td>1/4 inch: 10 feet from plane Maximum 1/16 inch variation in 12 inches from high points.</td>
</tr>
</tbody>
</table>
### 3.09 GROUT SEALER

A. Clean grout and apply sealer in accordance with manufacturer's instructions and recommendations.

### 3.10 JOINT SEALANT

A. Apply sealant after tile is grouted, grout is cured and tile field is thoroughly clean and dry.

B. Seal between tile and all penetrating elements.

C. Seal perimeter of tile field where tile base is not provided.

D. Sealant Locations shall include:
   1. Around plumbing penetrations.
   2. Around door frames and other items set in wall.

E. Refer to Section 07 92 00 - Joint Sealants for additional requirements.

### 3.11 FIELD QUALITY CONTROL

A. See Section 01 40 00 - Quality Requirements, for additional requirements.

B. Provide manufacturer's field representative to inspect waterproofing.

C. Test shower linings with standing water to the top of the rough threshold for a period of minimum 24 hours. CPC 418.1.
   1. A test plug shall be so placed that both the upper and under sides of the lining shall be subjected to test at its point of contact with the sub-drain.
      a. When the test plug is removed, all of the test water shall drain out by gravity through the weep holes.
      b. A ring of non-absorbent material must be placed around the weep holes to keep them open when the finish materials are installed.
   2. Verify water level has not changed beyond normal evaporation.
   3. Inspect floor below and adjacent surfaces for leaks.

D. Repair or remove and reinstall as required.

E. Repeat until a satisfactory result is achieved.

### 3.12 CLEANING

A. Clean tile and grout surfaces.
   1. After completion of setting and grouting, thoroughly clean and polish tile.
   2. Do not use acid or acid cleaners to clean tile.
   3. When tile is thoroughly clean and dry, polish glazed tile with clean dry cloths.
3.13 PROTECTION

A. Do not permit traffic over finished floor surface for 4 days after installation.
B. Cover floors with kraft paper and protect from dirt and residue from other trades.
C. Where floor is to be exposed for prolonged periods cover with plywood or other similar type walkways

END OF SECTION
SECTION 09 68 13
TILE CARPETING

PART 1 GENERAL

1.01 SECTION INCLUDES
A. Carpet tile, fully adhered. CPT-1, CPT-2

1.02 RELATED REQUIREMENTS
A. Section 01 61 16 - Volatile Organic Compound (VOC) Content Restrictions.
B. Section 01 74 19 - Construction Waste Management and Disposal: Reclamation/Recycling of new carpet tile scrap and removed carpet tile.
C. Section 09 05 61 - Common Work Results for Flooring Preparation: Removal of existing floor coverings, cleaning, and preparation.

1.03 REFERENCE STANDARDS

1.04 SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns, colors available, and method of installation.
C. Shop Drawings: Indicate layout of joints.
D. Samples: Submit two carpet tiles illustrating color and pattern design for each carpet color selected.
E. Submit two, 6 inch long samples of edge strip and base cap.
F. Manufacturer's Installation Instructions: Indicate special procedures.
G. Installer's Qualification Statement.
H. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.
I. Maintenance Materials: Furnish the following for District's use in maintenance of project.
1. See Section 01 60 00 - Product Requirements, for additional provisions.
2. Extra Carpet Tiles: Quantity equal to 5 percent of total installed of each color and pattern installed.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing specified carpet tile with minimum three years documented experience.
B. Installer Qualifications: Company specializing in installing carpet tile with minimum three years documented experience and approved by carpet tile manufacturer.

1.06 FIELD CONDITIONS

A. Store materials in area of installation for minimum period of 24 hours prior to installation.
   1. Store inside, in well ventilated area, protected from weather, moisture and soiling. Store rolls flat, not standing on end.
B. Maintain minimum 70 degrees F ambient temperature 24 hours prior to, during and 24 hours after installation.
C. Deliver carpet materials in original mill protective wrapping with mill register numbers and tags attached.
D. Ventilate installation area during installation and for 72 hours after installation.

1.07 WARRANTY

B. Extended Warranty: Provide extended warranty covering edge raveling, delamination and wear exceeding 10 percent of face yarn weight for a period of 15 years after “Notice of Completion”.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

A. All products used for flooring installation shall comply with flammability and smoke classifications for various locations of installation. Comply with applicable requirements of California Building Code (CBC) Chapter 8.
B. Provide glue-down installation conforming to CBC Section 11B-302.2.
   1. Carpet shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad.
      a. Carpet shall have level loop, textured loop, level cut or level cut/uncut pile texture.
      b. Pile height shall be 1/2 inch maximum.
   2. Exposed edges shall be fastened to floor surfaces and shall have trim on the entire length.
      a. Carpet edges shall comply with CBC Section 11B-303.
C. Comply with CalGreen Building Standards: All installed carpeting shall be low VOC emissions listed. Certified as Low Emission by one of the following:
   1. Carpet and Rug Institute’s Green Label Plus Program. CalGreen 5.504.4.4.1

3. NSF/ANSI 140 at Gold level or higher. CalGreen 5.504.4.3


2.02 MATERIALS

A. Tile Carpeting: Tufted, Textured Loop, manufactured in one color dye lot.
   2. Tile Size: 9 by 36 inch, nominal.
   3. Thickness: 0.265 inch.
   4. Color: As indicated on Drawings.
   5. Pattern: Linear.
   6. Critical Radiant Flux: Minimum of 0.45 watts/sq cm, when tested in accordance with ASTM E648 or NFPA 253.
   7. Surface Flammability Ignition: Pass ASTM D2859 (the "pill test").
   8. VOC Content: Comply with Section 01 61 16.
   9. VOC Content: Provide CRI (GLP) certified product.
   10. Maximum Electrostatic Charge: 3.5 Kv. at 20 percent relative humidity, AATCC Test Method 134.
   12. Stitches: 10 per inch.
   13. Light Fastness: >= 4.0 at 80 Hours, AATCC Test Method 16.

2.03 ACCESSORIES

A. Subfloor Filler: White premix latex; type recommended by flooring material manufacturer.
B. Edge Strips: Rubber, color as selected by Architect.
C. Adhesives:
   1. Compatible with materials being adhered; maximum VOC content as specified in Section 01 61 16.
D. Carpet Tile Adhesive: Recommended by carpet tile manufacturer; releasable type.
   1. Water-resistant, non-staining and nonflammable type as recommended by carpet manufacturer to be compatible with backing materials.
PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that subfloor surfaces are smooth and flat within tolerances specified for that type of work and are ready to receive carpet tile.
   1. Maximum variation of 1/8-inch in 10 ft

B. Verify that subfloor surfaces are dust-free and free of substances that could impair bonding of adhesive materials to subfloor surfaces.

C. Cementitious Subfloor Surfaces: Verify that substrates are ready for flooring installation by testing for moisture and alkalinity (pH).
   1. Test in accordance with Section 09 05 61.
   2. Obtain instructions if test results are not within limits recommended by flooring material manufacturer and adhesive materials manufacturer.
   3. Follow moisture and alkalinity remediation procedures in Section 09 05 61.

D. Carpet Verification: Verify carpet match before cutting or placement to ensure minimal variation between dye lots.

E. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

A. Prepare floor substrates for installation of flooring in accordance with Section 09 05 61.

3.03 INSTALLATION

A. Starting installation constitutes acceptance of subfloor conditions.

B. Install carpet tile in accordance with manufacturer's instructions and CRI 104 (Commercial).

C. Blend carpet from different cartons to ensure minimal variation in color match.

D. Cut carpet tile clean. Fit carpet tight to intersection with vertical surfaces without gaps.

E. Lay carpet tile in square pattern, with pile direction parallel to next unit, set parallel to building lines.
   1. Locate change of color or pattern between rooms under door centerline.

F. Locate change of color or pattern between rooms under door centerline.

G. Fully adhere carpet tile to substrate.

H. Trim carpet tile neatly at walls and around interruptions.
   1. Edges: Run carpet under open bottom items and all cabinets and install tight to walls. Neatly trim and secure edge of carpet adjacent to door jambs where no base occurs.

I. Complete installation of edge strips, concealing exposed edges.

J. Carpet Finishing: Brush all seams and trim protruding pile tufts level. Remove excess adhesive on the carpet surface and thoroughly vacuum entire area. Leave room clean and ready for use.
3.04 PROTECTION
   A. Cover carpet during construction period with reinforced kraft paper when construction traffic is required to cross carpeted areas.
   B. Remove and replace damaged or improperly installed carpet.

3.05 CLEANING
   A. Remove excess adhesive without damage, from floor, base, and wall surfaces.
   B. Clean and vacuum carpet surfaces.
      1. Vacuum and remove all stains from carpet to satisfaction of District and in accordance with cleaning specified in Section 01 70 00 - Execution and Closeout Requirements.

END OF SECTION
PART 1  GENERAL

1.01  SUMMARY

A. This Section includes the following:
   1. Composite Wood Seat Top in CIP Concrete Seat Wall
   2. Bicycle racks.
   3. Trash and Recycling receptacles.
   4. Bollards
   5. Skateboard Deterrents
   6. Drinking Fountains
   7. Tables and Chairs
   8. Tree Grates

B. Related Sections include the following:
   1. Division 03 Section "Landscape Architectural Concrete" for CIP concrete seat walls, installation of pipe sleeves, anchor bolts, formed voids in concrete footings.
   2. Division 31 Section "Earth Moving" for excavation for installation of concrete footings.

1.02  SUBMITTALS

A. Product Data: For each type of product indicated.
B. Samples for Initial Selection: For units with factory-applied color finishes.
C. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below.
   1. Size: Not less than 6-inch- (152-mm-) long linear components and 4-inch- (102-mm-) square sheet components.
D. Product Schedule: For site furnishings. Use same designations indicated on Drawings.
E. Material Certificates: For site furnishings, signed by manufacturers.
   1. Composite Wood/ Recycled plastic lumber
F. Maintenance Data: For site furnishings to include in maintenance manuals.

1.03  QUALITY ASSURANCE

A. Source Limitations: Obtain each type of site furnishing(s) through one source from a single manufacturer.

1.04  EXTRA MATERIALS

A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Bench Replacement Slats: No fewer than [two] full-size units for each size indicated.
3. Anchors: For each product specified.

PART 2 PRODUCTS

2.01 MATERIALS

A. Aluminum: Alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated; free of surface blemishes and complying with the following:
   1. Rolled or Cold-Finished Bars, Rods, and Wire: ASTM B 211 (ASTM B 211M).
   5. Castings: ASTM B 26/B 26M.

B. Steel and Iron: Free of surface blemishes and complying with the following:
   1. Plates, Shapes, and Bars: ASTM A 36/A 36M.
   3. Tubing: Cold-formed steel tubing complying with ASTM A 500.
   4. Mechanical Tubing: Cold-rolled, electric-resistance-welded carbon or alloy steel tubing complying with ASTM A 513, or steel tubing fabricated from steel complying with ASTM A 1011/A 1011M and complying with dimensional tolerances in ASTM A 500; zinc coated internally and externally.
   5. Sheet: Commercial steel sheet complying with ASTM A 1011/A 1011M.

C. Stainless Steel: Free of surface blemishes and complying with the following:
   1. Sheet, Strip, Plate, and Flat Bars: ASTM A 666.
   2. Pipe: Schedule 40 steel pipe complying with ASTM A 312/A 312M.
   3. Tubing: ASTM A 554.

D. Fiberglass: Multiple laminations of glass-fiber-reinforced polyester resin with UV-light stable, colorfast, nonfading, weather- and stain-resistant, colored polyester gel coat, and manufacturer's standard finish.

E. Plastic: Color impregnated, color and UV-light stabilized, and mold resistant.
   1. Polyethylene: Fabricated from virgin plastic HDPE resin.
2. Recycled Polyethylene: Fabricated from not less than [96 percent recycled, purified, fractional-melt plastic resin] with not less than [90 percent recycled postconsumer waste by weight] HDPE.

F. Anchors, Fasteners, Fittings, and Hardware: [Stainless steel] [Manufacturer's standard, corrosion-resistant-coated or non-corrodible materials]; commercial quality [, tamperproof, vandal and theft resistant][, concealed, recessed, and capped or plugged].
   1. Antitheft Hold-Down brackets: For securing site furnishings to substrate; as indicated on the Drawings.

G. Non-shrink, Nonmetallic Grout: Premixed, factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107; recommended in writing by manufacturer, for exterior applications.

H. Erosion-Resistant Anchoring Cement: Factory-packaged, non-shrink, non-staining, hydraulic-controlled expansion cement formulation for mixing with potable water at Project site to create pourable anchoring, patching, and grouting compound; resistant to erosion from water exposure without needing protection by a sealer or waterproof coating; recommended in writing by manufacturer, for exterior applications.

I. Galvanizing: Where indicated for steel and iron components, provide the following protective zinc coating applied to components after fabrication:
   1. Zinc-Coated Tubing: External, zinc with organic overcoat, consisting of a minimum of 0.9 oz./sq. ft. (0.27 kg/sq. m) of zinc after welding, a chromate conversion coating, and a clear, polymer film. Internal, same as external or consisting of 81 percent zinc pigmented coating, not less than 0.3 mil (0.0076 mm) thick.
   2. Hot-Dip Galvanizing: According to ASTM A 123/A 123M, ASTM A 153/A 153M, or ASTM A 924/A 924M.

2.02 COMPOSITE WOOD SEAT TOP

A. See plans for model number, finish and quantity (no known equal).
B. Basis-of-Design Product: Subject to compliance with requirements, provide the product indicated on Drawings by the following manufacturer:
   1. Columbia Cascade Company/ Timberform, 1-800/547-1940

2.03 TRASH AND RECYCLING RECEPTACLES

A. See plans for model number, finish, lid options, coatings and quantity (no known equal).
B. Basis-of-Design Product: Subject to compliance with requirements, provide the product indicated on Drawings by the following manufacturer:
   1. Forms and Surfaces, 1-800-451-0410
C. Owner Furnished, Owner Installed

2.04 BICYCLE RACK

A. Per Drawings

2.05 SKATEBOARD DETERRENTS

A. See plans for model number, finish, lid options, coatings and quantity (no known equal).
2.06 DRINKING FOUNTAIN AND BOTTLE FILLER

A. See plans for model number, finish and quantity (no known equal).

B. Basis-of-Design Product: Subject to compliance with requirements, provide the product indicated on Drawings by the following manufacturer:
   1. Most Dependable Fountains, (901) 867-0039

2.07 BASKETBALL HOOP SYSTEM

A. See plans for model number, finish and quantity (no known equal).

B. Basis-of-Design Product: Subject to compliance with requirements, provide the product indicated on Drawings by the following manufacturer:
   1. Steelcraft, (800) 371-4766

2.08 TABLES AND CHAIRS

A. Owner Furnished, Owner Installed

2.09 FABRICATION

A. Metal Components: Form to required shapes and sizes with true, consistent curves, lines, and angles. Separate metals from dissimilar materials to prevent electrolytic action.

B. Welded Connections: Weld connections continuously. Weld solid members with full-length, full-penetration welds and hollow members with full-circumference welds. At exposed connections, finish surfaces smooth and blended so no roughness or unevenness shows after finishing and welded surface matches contours of adjoining surfaces.

C. Pipes and Tubes: Form simple and compound curves by bending members in jigs to produce uniform curvature for each repetitive configuration required; maintain cylindrical cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of handrail and railing components.

D. Exposed Surfaces: Polished, sanded, or otherwise finished; all surfaces smooth, free of burrs, barbs, splinters, and sharpness; all edges and ends rolled, rounded, or capped.

E. Factory Assembly: Assemble components in the factory to greatest extent possible to minimize field assembly. Clearly mark units for assembly in the field.

2.10 ANTI GRAFFITI COATING

A. Unless otherwise specified in the drawings or indicated by the landscape architect, all site furnishings shall receive Anti-Graffiti Coating, either manufacturer applied or contractor applied per the manufacturer’s instructions and requirements.

B. Basis-of-Design Product: Subject to compliance with requirements, provide the product by the following manufacturer:
   1. Graffiti Solutions System by GSS Coatings, LLC, GSSCC-100 Clear Flat, or GSSCC-200 Pigmented Flat installed by a certified applicator, or approved equal. Refer to manufacturer’s recommendations for undercoat requirements based on material being
coated. GSS Base coatings GSS-500 Aqualock Water Repellent and GSS-307 Base Coat as determined by Architect and GSS Coatings recommendations.

a. GSS Coatings LLC, 702-860-3455, contact Mike Macris
b. If proposed equal is not pre-approved thirty (30) days prior to bid, then it will not be considered or accepted under any circumstances.

C. System Performance: Provide anti-graffiti coating system complying with the following:
   1. Permanent coating system. Coatings shall not require reapplication regardless of number of graffiti taggings during the life of the 10 year performance warranty period.
   2. Show no signs of deterioration or change of appearance after graffiti removal during the warranty period. No ghosting staining or shadowing.
   3. Capability of removing 100% of all types of paint and graffiti materials from treated surfaces without damaging the coating or the substrate.
   4. Upon graffiti removal, no evidence of graffiti shall remain.
   5. Capable of withstanding a minimum of 120 cleaning cycles over the same area without measurable coating deterioration.
   6. Shall not increase dirt pick-up of substrate.
   7. Meet the following test results for the following chemicals:
      a. MEK No effect after 5 days
      b. Carboxylic Acid No effect after 5 days
      c. 75% Phosphoric Acid No effect after 5 days
      d. 37% HCL 3 hours blister
      e. 50% Sulfuric Acid No effect after 5 days
      f. 20% NIT 68 hours blister
      g. Finish Sheen <5° on Gardner Gloss Meter
      h. ASTM B 117 and ASTM D 714 (salt spray minimum acceptable of 8000 hours.
      i. ASTM D 530 (hardness)
      j. ASTM D 412 (tensile strength and elongation)
      k. ASTM D 522 (pass 3/8 inch mandral)
      l. ASTM 968 (abrasion test)
      m. ASTM E 96 (vapor transmission)
      n. Water clear, non-yellowing, free of waxes and urethanes.
      o. Shall allow moisture vapor transmission

D. Application: Per manufacture recommendations.

E. Mock-up area to be completed and approved prior to application to remaining substrate.

F. VOC Classification: Provide materials that comply with the South Coast Air Quality Management District's VOC classification.

G. Graffiti Remover: GSS-400 Erasol®; Non-flammable, biodegradable, with a pH 7 - 8.5 and recyclable, allowing graffiti removal without the use of blasting equipment, hot water, or high pressure wash equipment. Furnish GSS-400 Erasol® graffiti removal materials in quantities described below.
   1. Quantity: One full case (12, 16 ounce bottles).
H. Warranty: 10 Year System Performance Warranty: Provide written warranty signed by manufacturer that exhibits defects in materials or workmanship. Defects are defined to include failure to withstand complete graffiti removal, ghosting, shadowing, chemical staining, yellowing, and normal environmental effects. Refer to GSS Coatings, LLC 10 Year Warranty. To obtain warranty service the purchaser must contact GSS Coatings, LLC in writing.

1. Warranty process to per GSS Coatings Warranty Procedures to include testing of treated substrates via Skype or FACETIME with GSS Coatings, LLC
2. Warranty period: 10 years from date of completion.

2.11 FINISHES, GENERAL
A. Comply with NAAMM's "Metal Finishes Manual for Landscape Architectural and Metal Products" for recommendations for applying and designating finishes.
B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.12 ALUMINUM FINISHES
A. Baked-Enamel, Powder-Coat Finish: Manufacturer's standard, baked, polyester, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.

2.13 STEEL AND GALVANIZED STEEL FINISHES
A. Baked-Enamel, Powder-Coat Finish: Manufacturer's standard, baked, polyester, powder-coat finish complying with finish manufacturer’s written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.
B. PVC Finish: Manufacturer's standard, UV-light stabilized, mold-resistant, slip-resistant, matte-textured, dipped or sprayed-on, PVC-plastisol finish, with flame retardant added; complying with coating manufacturer's written instructions for pretreatment, application, and minimum dry film thickness.

2.14 IRON FINISHES
A. Baked-Enamel, Powder-Coat Finish: Manufacturer's standard, baked, polyester, powder-coat finish complying with finish manufacturer’s written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.

2.15 STAINLESS-STEEL FINISHES
A. Remove tool and die marks and stretch lines or blend into finish.
B. Grind and polish surfaces to produce uniform, directionally textured, polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.
PART 3 EXECUTION

3.01 EXAMINATION
A. Examine areas and conditions, with Installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance.
   1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION, GENERAL
A. Comply with manufacturer’s written installation instructions unless more stringent requirements are indicated. Complete field assembly of site furnishings where required.
B. Unless otherwise indicated, install site furnishings after landscaping and paving have been completed.
C. Install site furnishings level, plumb, true, and [securely anchored] [positioned] at locations indicated on Drawings.
D. Post Setting: Set cast-in support posts in concrete footing with smooth top, shaped to shed water. Protect portion of posts above footing from concrete splatter. Verify that posts are set plumb or at correct angle and are aligned and at correct height and spacing. Hold posts in position during placement and finishing operations until concrete is sufficiently cured.
E. Posts Set into Voids in Concrete: Form or core-drill holes for installing posts in concrete to depth recommended in writing by manufacturer of site furnishings and 3/4 inch (19 mm) larger than OD of post. Clean holes of loose material, insert posts, and fill annular space between post and concrete with [non-shrink, nonmetallic grout] [or] [anchoring cement], mixed and placed to comply with anchoring material manufacturer’s written instructions, with top smoothed and shaped to shed water.
F. Pipe Sleeves: Use steel pipe sleeves preset and anchored into concrete for installing posts. After posts have been inserted into sleeves, fill annular space between post and sleeve with [non-shrink, nonmetallic grout] [or] [anchoring cement], mixed and placed to comply with anchoring material manufacturer’s written instructions, with top smoothed and shaped to shed water.

3.03 ANTI GRAFFITI COATING
A. Apply the water repellant and anti-graffiti undercoating(s) and finish coating(s) per the manufacturer’s written instructions. An airless sprayer shall be used for all surfaces and applications, unless otherwise recommended by the manufacturer. Test a small area before applying to the entire surface.

3.04 CLEANING
A. After completing site furnishing installation, inspect components. Remove spots, dirt, and debris. Repair damaged finishes to match original finish or replace component.

END OF SECTION
EXISTING/DEMO.

- REMOVE (E) CHAINLINK FENCE POST, 2 1/2" O.D. (V.I.F.)
- CUT (E) C.L. FENCE POST (E) GROUT TO REMAIN
- FINISH GRADE
- (E) CONC. WALL
- 8" V.I.F.

NEW

- NEW POST, PER ELEV., TO FIT WITHIN (E) POST SLEEVE. 2" GALV. SCHED. 40 SIZE TO BE VERIFIED IN FIELD IN ORDER TO FIT INSIDE (E) SLEEVE.
- NEW BOTTOM RAIL, PER ELEV.
- FINISH GRADE
- (E) FENCE POST SLEEVE
- (E) CONC. WALL
- 8" V.I.F.

CHAINLINK FENCE - POST AT (E) WALL 3/4"=1'-0" 28

REFERENCE ASD-1.0

PACIFIC HIGH SCHOOL
MODERNIZATION
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

RUHNAU CLARKE
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664
5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

04-118035
03-19
12-01-2020
1-78-21

LICENCED ARCHITECT
STATE OF CALIFORNIA
No. C-21340
Exp. 10-31-21

ASK-1.2
CLASSROOM #101 - INTERIOR ELEV.  

CLASSROOM #102 - INTERIOR ELEV

REFERENCE A1-7.2

PACIFIC HIGH SCHOOL

PACIFIC HIGH SCHOOL MODERNIZATION
SAN BERNARDINO CITY UNIFIED SCHOOL

04-118035

36-H7

1-78-21

ASK-1.3
REFERENCE SHEET A1-7.5

PACIFIC HIGH SCHOOL
PACIFIC HIGH SCHOOL MODERNIZATION
SAN BERNARDINO CITY UNIFIED SCHOOL

SCALE: 1/4" = 1'-0"

1/4" = 1'-0"

NUTRITION #116 - INTERIOR ELEVATIONS

SCALE: 1/4" = 1'-0"

REFERENCE SHEET A1-7.5

PACIFIC HIGH SCHOOL
PACIFIC HIGH SCHOOL MODERNIZATION
SAN BERNARDINO CITY UNIFIED SCHOOL

SCALE: 1/4" = 1'-0"

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NUTRITION #116 - INTERIOR ELEVATIONS

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REFERENCE SHEET A1-7.5

PACIFIC HIGH SCHOOL
PACIFIC HIGH SCHOOL MODERNIZATION
SAN BERNARDINO CITY UNIFIED SCHOOL

SCALE: 1/4" = 1'-0"

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NUTRITION #116 - INTERIOR ELEVATIONS

SCALE: 1/4" = 1'-0"

REFERENCE SHEET A1-7.5

PACIFIC HIGH SCHOOL
PACIFIC HIGH SCHOOL MODERNIZATION
SAN BERNARDINO CITY UNIFIED SCHOOL

SCALE: 1/4" = 1'-0"

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SCALE: 1/4" = 1'-0"

REFERENCE SHEET A1-7.5

PACIFIC HIGH SCHOOL
PACIFIC HIGH SCHOOL MODERNIZATION
SAN BERNARDINO CITY UNIFIED SCHOOL

SCALE: 1/4" = 1'-0"

1/4" = 1'-0"

NUTRITION #116 - INTERIOR ELEVATIONS

SCALE: 1/4" = 1'-0"

REFERENCE SHEET A1-7.5

PACIFIC HIGH SCHOOL
PACIFIC HIGH SCHOOL MODERNIZATION
SAN BERNARDINO CITY UNIFIED SCHOOL

SCALE: 1/4" = 1'-0"

1/4" = 1'-0"
KEYNOTES

09.651 RESILIENT BASE
10.112 MARKERBOARD
10.114 TACKABLE WALL PANEL SYSTEM
10.115 WALL MOUNTED TELEVISION, O.F.C.I. SHALL HAVE 4" MAX. PROJECTION FROM F.O.F. WHEN MOUNTED ALONG PATH OF TRAVEL
10.441 FIRE EXTINGUISHER CABINET
11.522 WALL MOUNTED SHORT-THROW PROJECTOR, O.F.C.I.

REFERENCE 2/A2-7.4
PACIFIC HIGH SCHOOL MODERNIZATION
SAN BERNARDINO CITY UNIFIED SCHOOL

PACIFIC HIGH SCHOOL

CLASSROOM #211 - INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"
CLASSROOM #404 - INTERIOR ELEVATIONS

SCIENCE LAB #405 - INTERIOR ELEVATIONS

KEYNOTES

08.511 WINDOW SYSTEM, PER SCHED.
09.651 RESILIENT BASE
10.112 MARKERBOARD
10.114 TACKABLE WALL PANEL SYSTEM
10.115 WALL MOUNTED TELEVISION, O.F.O.I. SHALL HAVE 4" MAX. PROJECTION FROM F.O.F. WHEN MOUNTED ALONG PATH OF TRAVEL  1/1
10.441 FIRE EXTINGUISHER CABINET
11.522 WALL MOUNTED SHORT-THROW PROJECTOR, O.F.O.I.
11.531 LABORATORY FUME HOOD
11.535 SAFETY GOGGLE STORAGE/SANITIZER CABINET
11.829 FLAMMABLE STORAGE CABINET, SELF-CLOSING, O.F.O.I. SEE SPEC SECTION 11 53 00
22.153 GAS CONTROL PANEL PER PLUMBING DWGS. 48" MAX. A.F.F. TO OPERABLE PARTS
22.154 EMERGENCY GAS SHUT-OFF PER PLUMBING DWGS. 48" MAX. A.F.F. TO OPERABLE PARTS
22.155 UTILITY ACCESS PANEL W/ SHUT-OFF PER PLUMBING DWGS. 48" MAX. A.F.F. TO OPERABLE PARTS, PAINT PANEL TO MATCH ADJACENT WALL FINISH.
22.452 COMBINATION EMERGENCY SHOWER & EYE WASH STATION PER PLUMBING DWGS.
CUSTODIAN ROOM

FRONT ELEVATION

FRP

4' - 0"

RESERVED AREA FOR PLUMB./MECH. EQUIP.

RESERVED BLANK WALL SPACE ABOVE MOP SINK FOR CLEANING SUPPLIES PROPORTIONER SYSTEM, O.F.O.I.

5/8" THK. WATER-RESISTANT GWB, TYP.

RESERVED AREA FOR SUPPLY RACK, O.F.O.I.

FIBERGLASS REINFORCED PANEL (FRP-1) AT BACK & SIDE OF SINK

MOP SINK, PER PLUMBING DRAWINGS

FLOOR PER FINISH SCHEDULE

SIDE ELEVATION

WIDTH PER PLAN

FRP

4' - 0"

7' - 0"

4' - 0"

3' - 0"

5/8" THK. WATER-RESISTANT GWB, TYP.

RESERVED AREA FOR SUPPLY RACK, O.F.O.I.

REFERENCE 4/AD1.2

PACIFIC HIGH SCHOOL

PACIFIC HIGH SCHOOL MODERNIZATION
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

Ruhna Clarke Architects

3775 Tenth Street, Riverside California 92501 (951) 684 4664
5751 Palmer Way, Suite C, Carlsbad California 92010 (760) 438 5899

Licensed Architect

RUHNA CLARKE

315 H7

1-78-21

ASK-1.10

SCALE: 1/4" = 1'-0"

Sheet # 4

Project # 04-118035

San Bernadino City Unified School District

Date: 1-78-21

Exp. 10-31-21

DESCRIPTION:

1/4" = 1'-0"

PACIFIC HIGH SCHOOL
EXTERIOR

PLYWOOD SHEATHING

WOOD STUD FRAMING,
VERIFY WITH PLANS IF
NEW OR EXISTING

THERMAL BATT INSULATION
IN STUD CAVITY

WALL TYPE "D8"  
SCALE: 3" = 1'-0"  
25
CONC. PAVING OR MOW STRIP, 2% MAX SLOPE AWAY FROM BLDG.  

2" 1/2" MTL. WEEP SCREED, PAINT TO MATCH PLASTER EXTERIOR CEMENT PLASTER SYSTEM OVER MTL. LATH OVER WEATHER BARRIER PLYWD. SHEATHING, COORD. W/ STRUCT. DWGS.  

3/8" CONT. SEALANT AND BACKER ROD PERIMETER SCALE: 1-1/12"=1'-0"  

GALV. PIPE, EASE ALL EDGES, PANIT ALL EXPOSED PORTIONS TO MATCH PLASTER COLOR  

6" 6"  

DOWNSPOUT NOZZLE, B.O.D. ZURN Z199 3/8" CONT. SEALANT AND BACKER ROD PERIMETER PLYWD. SHEATHING, COORD. W/ STRUCT. DWGS.  

EXTERIOR CEMENT PLASTER SYSTEM OVER MTL. LATH OVER WEATHER BARRIER MTL. WEEP SCREED, PAINT TO MATCH PLASTER  

CONC. PAVING OR MOW STRIP, 2% MAX SLOPE AWAY FROM BLDG.  

SCALE: 3" = 1'-0"
CL
THERMAL BATT INSUL. IN STUD CAVITY
STUD BACKING, PER STRUCT'L DET.
CONTROL JOINT SCREED AS MFR'D BY KEENE X1 15-3 OR APPROVED EQUIVALENT
JOINT HEIGHT PER EXT. ELEVATIONS
EXTERIOR CEMENT PLASTER SYSTEM O/ MTL. LATH O/ UNDERLAYMENT
EXTERIOR CEMENT PLASTER SYSTEM O/ MTL. LATH & UNDERLAYMENT
THERMAL BATT INSUL. IN STUDY CAVITY
EXTERIOR GYPSUM SHEATHING (OR PLYWOOD WHERE REQ'D BY STRUCT. DWGS.)
WALL DETAIL

PLAN VIEW

NOTE:
FOR MORE INFO.,
SEE STRUCT. DET.

SCALE:
1 1/2" = 1'-0"

FIBER CEMENT WALL PANEL (FCP-1)
WOOD STUD FRAMING,
PER STRUCT. DWGS.
EXT. PLYWD. SHEATING,
PER STRUCT. DWGS. TYP.
CONT. WEATHER BARRIER

5/8" TYPE "X" GYP. BD.
WOOD STUD FRAMING,
VERIFY WITH PLANS IF NEW OR EXISTING

CONT. METAL CORNER MOLDING,
TYP.

EXT. CEMENT PLASTER SYSTEM O/ METAL LATH

REFERENCES 4/AD2.3
PACIFIC HIGH SCHOOL MODERNIZATION
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

ASK-1.15
NOTE:
ALL ROOF CRICKETS SHALL BE SHAPED WITH TAPERED BOARD INSULATION,
REFER TO SPEC SECTION 07 54 00.
FINISH FLOOR

LONGITUDINAL SECTION

CROSS SECTION

BUILT-UP ROOFING SYSTEM OVER PLYWD SHEATHING, PLYWD SHEATHING PER STRUCT. DWGS.

ADJACENT SUSPENDED CEILING TILE SYSTEM, WHERE OCCURS CEILING ACCESS PANEL COVER (IN OPEN POSITION)

FOLDABLE PORTION OF ACCESS LADDER (IN OPEN POSITION)

MIN. 30" CLR. FOR CEILING ACCESS DOOR IN FOLDED POSITION

ALLOW 70" CLR. FOR CEILING ACCESS DOOR TO SWING OPEN

MIN. CLR. FOR CEILING ACCESS DOOR IN FOLDED POSITION

MIN. CLR. OPENING

MIN. 16" CLR.

MIN. 4'-0" CLR.

MIN. 30" CLR.

MIN. CLAR. FOR CEILING ACCESS DOOR IN FOLDED POSITION

28 AD3.1

WEB STIFFENERS, WHERE OCCURS

WOOD FRAMING PER STRUCT. DWGS.

MIN. 4'-0"x2'-6" ROOF HATCH

RETRACTABLE SAFETY POST 42" EXTENSION FROM ROOF HATCH

WOOD FRAMING PER STRUCT. DWGS.

SHEET METAL COUNTER FLASHING

BUILT-UP ROOFING SYSTEM OVER PLYWD SHEATHING, PLYWD SHEATHING PER STRUCT. DWGS.

4"x2"x1/2" THK. ALUM. ANGLE. FOR ATTACHMENT TO ROOF FRAMING SEE STRUCT. DETAIL

ACCESS LADDER SUSPENSION SYSTEM KIT. FOR CONNECTION DETAILS, SEE DETAIL

DIAGONAL BRACE BEYOND: 2"x2"x1/2" THK. ALUM. ANGLE

FIXED ACCESS LADDER PART OF SUSPENSION SYSTEM

VERTICAL MEMBER: 2"x2"x1/2" THK. ALUM. ANGLE

ADJACENT SUSPENDED CEILING TILE SYSTEM, WHERE OCCURS

DROPPED SOFFIT, 2X6 @ 16" O.C. PER RCP PLANS

CEILING ACCESS PANEL COVER (IN OPEN POSITION)

FOLDABLE PORTION OF ACCESS LADDER (IN OPEN POSITION)

ADJUSTABLE FEET

FINISH FLOOR

LONGITUDINAL SECTION

CROSS SECTION

ROOF ACCESS LADDER-CLASSROOM

SCALE: 1/2" = 1'-0"

REFERENCE 25/AD3.1

PACIFIC HIGH SCHOOL

PACIFIC HIGH SCHOOL MODERNIZATION
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

1/2" = 1'-0"

ROOF ACCESS LADDER-CLASSROOM
P-LAM. COUNTERTOP
P-LAM. BASE CABINET
DOOR OR DRAWER
WHERE OCCURS
3/4" THK. PLYWD. SUB-Top
OR BUILT-UP EDGE,
WHERE OCCURS
3/4" THK. HARDWOOD EDGE (WALNUT) W/ CLEAR SEALER
P-LAM. COUNTERTOP
3/4" THK. PLYWD. SUB-Top
OR BUILT-UP EDGE,
WHERE OCCURS
3MM T-MOLDING EDGE, COLOR TO MATCH ADJACENT COUNTERTOP P-LAM
P-LAM. COUNTERTOP
P-LAM. BASE CABINET
DOOR OR DRAWER
WHERE OCCURS
3" = 1'-0"

REFERENCE 1/AD7.1
PACIFIC HIGH SCHOOL
PACIFIC HIGH SCHOOL MODERNIZATION
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664
5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

ASK-1.19
MULTI-LAYER, PAINTED, EXTERIOR BUILDING SIGNAGE

FONT: LATO

WALL TYPE PER PLAN

SUBSTRATE PER WALL TYPE

MULTI-LAYER, PAINTED, EXTERIOR BUILDING SIGNAGE

SECTION A

PLASTER PANEL

METAL PANEL

SCALE: 1 1/2" = 1'-0"

BUILDING SIGNAGE
MECHANICAL ROOM 318 HVAC (REFERENCE 2/M3-1.1)

MODERNIZATION PACIFIC HIGH SCHOOL
1020 PACIFIC ST SAN BERNARDINO, CA 92404
SAN BERNARDINO CITY UNIFIED

1/8" = 1'-0"

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3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664
5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899
STAFF WORKROOM 119 HVAC (REFERENCE 2/M1-1.2)  
1/8" = 1'-0"
CLASSROOM 304 DIFFUSER/GRILLES (REFERENCE 2/M3-1.1)

MODERNIZATION PACIFIC HIGH SCHOOL
1020 PACIFIC ST SAN BERNARDINO, CA 92404
SAN BERNARDINO CITY UNIFIED

1/8" = 1'-0"

12-2-2020

MSK-01.06
CLASSROOM 401 DIFFUSER/GRILLES (REFERENCE 2/M4-1.1)

PACIFIC HIGH SCHOOL MODERNIZATION
1020 PACIFIC ST SAN BERNARDINO, CA 92404
SAN BERNARDINO CITY UNIFIED

1/8" = 1'-0"

04-118035
36-H7
12-2-2020
1-78-21

MSK-01.08
SCIENCE CLASSROOM 504 DIFFUSER/GRILLES (REFERENCE 2/M5-1.1)

PACIFIC HIGH SCHOOL MODERNIZATION

1020 PACIFIC ST SAN BERNARDINO, CA 92404
SAN BERNARDINO CITY UNIFIED

04-118035
36-H7
12-3-2020
1-78-21

MSK-01.09

1/8" = 1'-0"
20. MPG UP FROM BELOW GRADE WITH SOC.
21. MPG UP IN WALL TO ABOVE CEILING.
9. CW UP IN WALL TO ABOVE CEILING.
BOY'S 114 CW PIPE REVISION (REFERENCE 6/P1-1.3)  

1/4" = 1'-0"

PACIFIC HIGH SCHOOL MODERNIZATION

1020 PACIFIC ST SAN BERNARDINO, CA 92404
SAN BERNARDINO CITY UNIFIED SCHOOL
GIRLS 105 SD AND FLOOR DRAIN REVISION (REFERENCE 8/P1-1.3)  
1/4" = 1'-0"  

PACIFIC HIGH SCHOOL MODERNIZATION  
1020 PACIFIC ST SAN BERNARDINO, CA 92404  
SAN BERNARDINO CITY UNIFIED SCHOOL  

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5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899  

PSK-01.05
SITE DRINKING FOUNTAIN WATER (REFERENCE 2/P2-1.2)

1/4" = 1'-0"

PACIFIC HIGH SCHOOL MODERNIZATION

1020 PACIFIC ST SAN BERNARDINO, CA 92404
SAN BERNARDINO CITY UNIFIED SCHOOL

04-118035
36-H7
11-25-2020
17-8-21
PSK-01.07
UNIDENTIFIED PIPE ON ROOF (REFERENCE 3/P2-1.2)

1/8" = 1'-0"

PACIFIC HIGH SCHOOL MODERNIZATION

1020 PACIFIC ST SAN BERNARDINO, CA 92404
SAN BERNARDINO CITY UNIFIED SCHOOL

04-118035
36-H7
11-25-2020
17-8-21

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5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

PSK-01.08
SEE SHEET C-3.9 FOR STORM DRAIN LINE DATA TABLES
SEE SHEET C-3.7 FOR WATER LINE DATA TABLES
SEE SHEET C-3.6 FOR FIRE LINE DATA TABLES

FIRE DEPARTMENT CONNECTION
POST INDICATOR VALVE
DRAIN BOX

POWER POLE
CHANGE IN AC/PCC THICKNESS
WATER
TOP OF GRATE
EDGE OF PAVEMENT

REMOVE EXISTING SPECIFIED ITEM

CONSTRUCT RETAINING WALL SUBDRAIN PER DETAIL "G" ON SHEET C-5.1
CUT AND CAP EXISTING STORM DRAIN LINE

CONSTRUCT PVC SEWER/STORM DRAIN CLEANOUT PER DETAIL "I" ON SHEET C-5.1

ON SHEET C-5.1

FURNISH & INSTALL 6" SDR 35 PVC STORM DRAIN PIPE
FURNISH & INSTALL 4" SDR 35 PVC STORM DRAIN PIPE
FURNISH & INSTALL 4" SDR 35 PVC SEWER LINE
EQUAL) ON SHEET C-5.2

APPROVED EQUAL) & FURNISH & INSTALL SILENT WAFER CHECK VALVE (CLA-VAL SERIES 580 OR APPROVED

FURNISH AND INSTALL FIRE DEPARTMENT CONNECTION (CROKER 6510 OR CIVIL ENGINEER

FURNISH & INSTALL STANDPIPE OUTLET PER DETAIL "L" ON SHEET C-5.1

CONNECT TO EXISTING WATER LINE
CONNECT TO EXISTING WATER LINE
CONNECT TO EXISTING WATER LINE

FURNISH & INSTALL 6" CLASS 235 DR-18 C900 PVC WATER LINE
FURNISH & INSTALL 4" CLASS 235 DR-18 C900 WATER LINE
FURNISH & INSTALL 3" SCHEDULE 80 WATER LINE
FURNISH & INSTALL 2-1/2" SCHEDULE 80 WATER LINE

EQUAL) ON SHEET C-5.2

EQUAL) ON SHEET C-5.2

FURNISH AND INSTALL 6" REDUCED PRESSURE BACKFLOW DEVICE (FEBCO LF866 OR APPROVED EQUAL) ON

DOMESTIC WATER
CLASSROOMS

CLASSROOMS

KITCHEN

NOTE NOT USED

STAMPS

AGENCY APPROVAL

(FF=28.32±)