Central New Mexico Community College

Purchasing Department  
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(505) 224-4546

Addendum No. 7

DATE: November 12, 2008
TO: All Bidders of Record
FROM: David Martinez, Senior Buyer
SUBJECT: Addendum No. 7 to T-2739 Student Resource Center

This amendment becomes part of the Contract Documents and modifies the original bidding documents as noted below:

1. Can you clarify the intent of the fire alarm drawings?
   A. The fire alarm system is intended to be design-build. It should be bid to meet code compliance.

2. D4/A00-09 shows what looks to be benches and tables in dashed lines, are these to be included in the bid?
   A. These are to show intent. The allowance section has been revised to add a $25,000 allowance for exterior furnishings. (See attached.)

3. Can we get clarification on the extent of the tile in 101 lobby, display check out?
   A. Refer to the 10 series plan sheets to see the extent of the porcelain tile in the library, A10-11.

4. Need to clarify the floor layout for 119, 120 staff copy area and break room finish schedule says VST, PT for that room?
   A. All break rooms are RSF; Marmoleum. Refer to revised specification section 09 05 00 and revised finish schedule (attached).

5. On page FS-03 the cyber café elevations the countertops say CT-1. Ct-2 Ct-3 do the tops get tile?
   A. No, as noted on finish schedule on sheet FS3.0: CT-1 is solid surface (SS1), CT-2 is 16 ga. Stainless steel, CT-3 is plastic laminate.
6. Specification 101400 Signage calls out for Plaques, Dimensional characters, and panel signs. Are all this items including in the Signage Allowance of $150,000. or are these items in addition to?  
A. Code required signage is in addition to the signage allowance.

7. Reference the Room Finish Schedule (spec 09 05 000A) For the Floor Materials there is a designation of VCT in some areas (190 through 195 as examples), and RF (Rooms 196 and 197 as examples). There are other rooms with these designation also. These indications (VCT and RF) are not defined as to what they are, either in the color schedules or the flooring specifications, so what does VCT and RF stand for?  
A. Refer to revised specification section 09 05 00 and revised finish schedule (attached).

8. On D5/A05-01 elevation note the horizontal lines at the ribbon window sills and heads. What do these lines represent? Please clarify?  
A. This represents an offset in the wall surface.

9. On C01-01-There is a new 12" storm drain pipe to an existing inlet to the North of the construction site. Question-How do you want us to approach the installation of pipe at the existing wall that is to remain?  
A. Installation of new storm drain pipe to existing inlet includes breaking into existing wall and finishing with non-shrink grout around the new installation.

10. On C01-01-It appears that there may be insufficient water flow on the East side of the new building and may cause ponding at the new asphalt road and brick area. It shows less than 1% grade at this area. In additional Asphalt suppliers will not warranty their product if there is less than 1% slope. Please clarify?  
A. The 8-foot asphalt path should be built with a 1% slope toward the drainage flow on the west side of the path.

11. What is the paving section for the new road on the east side of the building? What is the asphalt patch section required at the existing parking lots?  
A. There is not a new road, there is a asphalt walkway (see previous questions). Asphalt patch work section includes 3" minimum asphalt section.

12. Keyed note 3 on A00-07 indicates that the grass at the drainage area is to remain. How is this possible when we have to drop the grade in that area for future water collection?  
A. Keynote deleted, refer to sheet A00-07 attached.

13. C01-02-Fire Line tie-in COA work order for Buena Vista Road-who pays for the cost of the work order? Has it already been submitted to the city?  
A. The work order will be paid for by CNM. It has been submitted and is in process, CNM will have to submit additional information to the City of Albuquerque after a successful contractor has been selected and contract awarded.

14. Please provide your current point worksheet for the Silver LEED Rating?  
A. Worksheet not available at this time. However, the tally out of 69 total points is 30: yes; 16: maybe; 23: no. The chosen contractor is expected to contribute to all possible points as described at the pre-bid meeting.

15. Have all of the materials that are specified for this project meet requirements to achieve the MR Credits?  
A. Materials have been chosen for the project bearing in mind the various LEED points to which they may contribute in an attempt to achieve a rating of LEED Silver.

16. Please provide a caisson specification?  
A. Answered in Addendum no. 3, Item 20. Concrete strength is specified in the section 03300 of the specifications. Caisson specifications per the Geotechnical Engineers report dated January 22, 2008.

17. E/ L08-02-Please indicate locations where this detail exists?  
A. Refer to landscape sheets L02-01, L02-02 and L08-02 attached.
18. Please include keyed note 6 on L02-01-on the utility plan?
   A. Refer to revised civil sheets CUSK-001, C01-02 attached.

19. Need detail 51 on the structural details at CMU screen wall @ NW corner of the building?
   A. Detail 51 is correctly cut on plan and applies for North-South and East-West
definitions at the courtyard screen wall.

20. Are hand rails required at handicap ramp on NW corner of the Building?
   A. Refer to landscape sheets L02-01, L02-02 and L08-02 attached.

21. Please indicate where the Synlawn is located per detail B/L08-02?
   A. Refer to landscape sheets L02-01, L02-02 and L08-02 attached.

22. Please clarify the products shown in specification section 075400, items 2.6 and 2.7?
   A. Roof pavers as listed in 2.6 A are not in the project. However, a pedestal system
   paver is specified in section 09 05 00. Provide this roof paver with pedestal system
   in the bid for Exterior Terraces 274 and 282. Item 2.7 is in the drawings as shown on
   roof plans.

23. Specifications 090500A Room Finish Schedule, Some rooms call for floor to be PT1, what is
    PT1? There are other rooms flooring called for PT. What is the difference between these
    abbreviations?
    A. PT is the abbreviation for Porcelain Tile.

24. Specification 090500-9 calls out for PR1 plaster this was not found at any locations in the Room
    Finish Schedule?
    A. At vestibule 140 and 240. All 4 sides of the “box” of stair #3 are to be polished
    plaster. It does not go into the hallway to the west.

25. Specification 122113 Horizontal Louver Blinds, do these go at all ribbon windows? Not identified
    on plans for locations. Please clarify?
    A. Spec section 12 21 13 has been revised to show locations of blinds.

26. Specifications 090500A Room Finish Schedule calls out under abbreviations for WC: Wall
    covering, none found. Is there any wall covering in this project?
    A. Answer.

27. Sheet A10-21 Level 2 Furnishing Plan which is for NIC part of FF&E shows in Open Staff area
    229 lockers. This is not shown on sheet A02-21 Level 2 Floor Plan but there is a specification
    105113 Metal Lockers. Are the lockers for this project part of the FF&E NIC?
    A. Lockers are in the base bid.

28. Clarification from Addendum #1 specification Trash & Recycle Receptacles, we are to provide 20
    each for the project?
    A. 20 total.

29. How many bike racks are required for this project?
    A. 12.

30. In the plans there are three water heater details calling for a mixing valve but I do not know what
    capacity mixing valve is required. Do you have this information? If not can you guide me in the
    proper direction?
    A. The mixing valve sizes are identified on the plans. For example: dwg P02-11, keynote 5.
31. I am looking through the specifications for the type of Wood Door Laminate Material spec'ed for the project. The closest information I found was Red Oak Plain Sliced, no mention of matching. Could you please help in verifying the material, Skin Grade, Cut, and Match?
   A. Bamboo, Caramel, Narrow Cane; www.formwood.com, found in spec section 090500 for all doors throughout.
   B. Tree Frog Veneer by Chemetal, Zebra Wood Straight Grain, #60904. Part of Add Alternate no. 1, to be used for the west wall of rm. 280.

32. Massey-Johnson Associates request substitution request for fixtures.
   A. The listed manufacturers are acceptable subject to owner approval with the exception of the faucet, which is not accepted.

33. Section 2.3 of the access floor specifications (09 69 00) calls out for both "Perforated Airflow Panels" as well as "GrateAire Panels", but the project drawings don't seem to provide the required quantity for each. All that is detailed on drawing E04-02 is that a total of 104 of the access floor panels will be used for air supply. Of these 104 panels, please indicate the total number of Perforated Panels as well as GrateAire Panels that are required?
   A. For clarification, the correct quantity and panel type should be the following: Total area in Data Center needs 798 access floor panels (104 GrateAire Panels + 694 CCN1250 Solid Access Panels). There are (8) pieces of equipments in the Data Center that punch through the access floor. Panel needs to be cut and infill accordingly around the equipment, field verification may be needed to have the final count for the Solid Access Panels. Refer to sheet M00-03 Grilles / Registers / Diffusers Schedule, look for FG-2 and see sheet M02-12 at Data Center; it states FG-2 (typ. 104). The project will not use PERF 1000 Panel.

34. As referenced above, the 20 foot opening appears to be detailed two different ways, architecturally as a masonry lintel, and structurally as a steel lintel. We assume the structural detail will be the preferred way to span this opening. However, if a masonry lintel, then please provide designated ML number. Please clarify.
   A. Follow the structural detail.

35. The landscaping plan indicates that there maybe colored concrete at the sidewalk but none is shown. Please clarify.
   A. There is no colored concrete.

36. Keynote #5/A00.08 shows benches in various places. What are these constructed of?
   A. The landscape benches in the library courtyard will be reclaimed wood from the trees that are to be removed.

37. Tables are shown at a patio area—are these by owner?
   A. Refer to the exterior furnishings allowance.

38. Section 233133-Metal Ducts Reference Page 4 Part 2.03 Sheet Metal Materials Section C Note Number 5 Reads: Antimicrobial coating on sheet metal is not required for duct containing liner treated with antimicrobial coating. Question: Does this Statement Apply to the Underground Ductwork Noted Only or does statement apply to All Ductwork?
   A. Agion ductwork is only required on AGION ductwork.

39. I can not find anywhere in the spec's that calls out Ductwork to be either Tack Welded & Sealed or Fully Wire Welded. Question: Which type is needed for Low and Medium Pressure Ductwork?
   A. Refer to SMACNA guidelines for minimum duct construction standards. Verify that the specifications do not require anything beyond SMACNA guidelines.

40. Please refer to sheet E13-01 single line diagram center of the page—NEW MAINTENANCE BYPASS MBP SECTION AND NEW UPS-1. Can you tell me what room or where these items are located?
   A. See drawing E04-01 detail 4 for location of MBP and UPS.
41. It appears the room finish schedule specifies "CMU" for many of the walls within the project. However, we cannot find a key which indicates what type CMU is to be used. We cannot imagine the Owner wishes to see exposed standard grey block in Public Areas, Conference and Meeting Rooms, Corridors and Stainwells. On the other hand, there are numerous utilitarian areas within which plain grey block may be appropriate, such as the Warehouse, Electrical Yard, Chiller and Boiler Rooms. Further, it appears there is a section 099600 HIGH-PERFORMANCE COATINGS which addresses interior substrates, one of which is Concrete Masonry Units. Perhaps the intent is as simple as painting all the interior exposed CMU?
   A. All library exposed CMU is honed: CMU1
   B. All ACE + ITS exposed CMU is textured: CMU2
   C. All back of house mechanical, electrical spaces not furred out shall be painted CMU.

42. What are these items that are highlighted in red? (Men's Restroom, Women's Restroom 141/241, 142/242)
   A. The highlighted items in red are 1'-0" deep countertops.

43. Is Tubelite acceptable to be used on this project, since it was originally in the specification?
   A. Tubelite is acceptable and will be replaced as an acceptable manufacturer.

44. There is no specification for the installation of duct insulation. Please provide duct insulation system description and required thickness.
   A. The information for the acoustical liner is in spec section 23 31 13. Information for the insulation on low pressure runouts to diffusers has been previously answered.

45. Please provide a clarification on where accent paint colors and accent ceramic tile is located.
   A. Paint accent wall colors will account for 25% of all walls on the project. Base color is white. Color walls to be selected by architect during CA. Colored ceramic accent tiles will be associated with individual toilet rooms to be selected by architect during CA.
SECTION 096513 - RESILIENT BASE AND ACCESSORIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
   1. Resilient base.
   2. Resilient stair accessories.

B. Related Sections:
   1. Division 01 Section "Alternates" for Add Alternate 1.
   2. Division 09 Section "Resilient Tile Flooring" for resilient floor tile.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated.

B. LEED Submittal:
   1. Product Data for Credit EQ 4.1: For adhesives, including printed statement of VOC content.

C. Samples for Verification: For each type of product indicated, in manufacturer's standard-size Samples but not less than 12 inches long, of each resilient product color, texture, and pattern required.

D. Product Schedule: For resilient products. Use same designations indicated on Drawings.

1.4 QUALITY ASSURANCE

A. Fire-Test-Response Characteristics: As determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.
   1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

B. Mockups: Provide resilient products with mockups specified in other Sections.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F or more than 90 deg F.

1.6 PROJECT CONDITIONS

A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F or more than 95 deg F, in spaces to receive resilient products during the following time periods:

1. 48 hours before installation.
2. During installation.
3. 48 hours after installation.

B. Until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F or more than 95 deg F.

C. Install resilient products after other finishing operations, including painting, have been completed.

1.7 EXTRA MATERIALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Furnish not less than 10 linear feet for every 500 linear feet or fraction thereof, of each type, color, pattern, and size of resilient product installed.

PART 2 - PRODUCTS

2.1 RESILIENT BASE

A. Resilient Base:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. Allstate Rubber Corp.; Stoler Industries.
b. Armstrong World Industries, Inc.
c. Burke Mercer Flooring Products; Division of Burke Industries, Inc.
d. Endura Rubber Flooring; Division of Burke Industries, Inc.
e. Estrie Products International; American Bitrile (Canada) Ltd.
f. Flexco, Inc.
g. Johnsonite.
h. Mondo Rubber International, Inc.
i. Musson, R. C. Rubber Co.
j. Nora Rubber Flooring; Freudenberg Building Systems, Inc.
k. PRF USA, Inc.
l. Roppe Corporation, USA.
m. VPI, LLC; Floor Products Division.


1. Material Requirement: Type TS (rubber, vulcanized thermoset) or Type TP (rubber, thermoplastic).

C. Minimum Thickness: 0.125 inch.

D. Height: 6 inches.

E. Lengths: Cut lengths 48 inches long or coils in manufacturer's standard length.

F. Outside Corners: Job formed or preformed.

G. Inside Corners: Job formed or preformed.

H. Colors, Patterns, and Finish: Refer to Division 09 Section "Colors and Materials."

2.2 RESILIENT STAIR ACCESSORIES

A. Resilient Stair-Treads:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
   a. Burke-Mercer Flooring Products; Division of Burke Industries, Inc.
   b. Endura Rubber Flooring; Division of Burke Industries, Inc.
   c. Estria Products International; American Biltrite (Canada) Ltd.
   d. Flexco, Inc.
   e. Johnsonite.
   f. Mondo Rubber International, Inc.
   g. Musson, R. C. Rubber Co.
   h. Nora Rubber Flooring; Freudenberg Building Systems, Inc.
   i. PFR-USA, Inc.
   j. R.C.A. Rubber Company (The).
   k. Reppe Corporation, USA.
   l. VPI, LLC; Floor Products Division.


1. Material Requirement: Type TS (rubber, vulcanized thermoset) or Type TP (rubber, thermoplastic).
2. Surface Design:
   a. Class 1, Smooth (flat).

3. Manufacturing Method: Group 1, tread with embedded abrasive strips.

C. Nosing Style: Square, adjustable to cover angles between 60 and 90 degrees.
D. Nosing Height: 1–1/2 inches.

E. Thickness: 4/4 inch and tapered to back edge.

F. Size: Lengths and depths to fit each stair tread in one piece.

G. Stringers: Of same thickness as risers, height and length after cutting to fit risers and treads and to cover stair stringers; produced by same manufacturer as treads and recommended by manufacturer for installation with treads.

H. Colors and Patterns: Refer to Division 09 Section “Colors and Materials.”

2.32.2 INSTALLATION MATERIALS

A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by manufacturer for applications indicated.

B. Adhesives: Water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated.

1. Use adhesives that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):

   a. Cove Base Adhesives: Not more than 50 g/L

   b. Rubber Floor Adhesives: Not more than 60 g/L

C. Stair-Tread-Nose Filler: Two-part epoxy compound recommended by resilient tread manufacturer to fill nosing substrates that do not conform to tread contours.

D. Metal Edge Strips: Extruded aluminum with mill finish of width shown, of height required to protect exposed edges of tiles, and in maximum available lengths to minimize running joints.

E. Floor Polish: Provide protective liquid floor polish products as recommended by resilient stair tread manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

B. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION
A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.

B. Concrete Substrates for Resilient Stair Treads and Accessories: Prepare according to ASTM F 710.
   1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
   2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
   3. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer.

C. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound and remove bumps and ridges to produce a uniform and smooth substrate.

D. Do not install resilient products until they are same temperature as the space where they are to be installed.
   1. Move resilient products and installation materials into spaces where they will be installed at least 48 hours in advance of installation.

E. Sweep and vacuum clean substrates to be covered by resilient products immediately before installation.

3.3 RESILIENT BASE INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient base.

B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.

C. Install resilient base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.

D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.

E. Do not stretch resilient base during installation.

F. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient base with manufacturer's recommended adhesive filler material.

G. Preformed Corners: Install preformed corners before installing straight pieces.

H. Job-Formed Corners:
   1. Outside Corners: Use straight pieces of maximum lengths possible. Form without producing discoloration (whitening) at bends.
   2. Inside Corners: Use straight pieces of maximum lengths possible.

3.4 RESILIENT ACCESSORY INSTALLATION
A. Comply with manufacturer’s written instructions for installing resilient accessories.

B. Resilient Stair Accessories:
   1. Use stair-tread-nose filler to fill nosing substrates that do not conform to tread contours.
   2. Tightly adhere to substrates throughout length of each piece.
   3. For treads installed as separate, equal-length units, install to produce a flush joint between units.

3.5 CLEANING AND PROTECTION

A. Comply with manufacturer’s written instructions for cleaning and protection of resilient products.

B. Perform the following operations immediately after completing resilient product installation:
   1. Remove adhesive and other blemishes from exposed surfaces.
   2. Sweep and vacuum surfaces thoroughly.
   3. Damp-mop surfaces to remove marks and soil.

C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

D. Floor Polish: Remove soil, visible adhesive, and surface blemishes from resilient stair treads before applying liquid floor polish.
   1. Apply two coat(s).

E. Cover resilient products until Substantial Completion.

END OF SECTION 096513
SECTION 09 05 00 – COLORS AND MATERIALS

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. This Section designates selection of materials, color and finish of exposed surfaces for work indicated.

1.2 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.3 RELATED SECTIONS

A. Division 01 Specification Sections including, but not limited to, following:

1. Section 01 33 00 Submittal Procedures.

B. Coordinate Work of this Section with Work of other Sections as required to properly execute Work and as necessary to maintain satisfactory progress of Work of other Sections.

1.4 QUALITY ASSURANCE

A. Installed Work shall match submitted control samples. Prior to submittal, verify that adequate matching material exists to complete job.

B. Material such as fabrics and carpets shall be produced from a single dye lot.

1.5 REFERENCES

A. Refer to individual Sections for specific references.

1.6 SUBMITTALS

A. General: Comply with requirements of Section 013300.

B. Color selections are subject to revision by Architect upon review of actual samples prepared by supplier showing color and finish.

C. Samples of materials supplied as yard goods shall be submitted as not less than 12 inch square memo sample, but in no case less than one full repeat of pattern. For fabrics, mark top and face of samples.

D. Paint colors are to match those shown in this schedule and are to be submitted on 12 by 12 inch panels of same material used in project for preliminary review by Architect. Submit 3 display panels of each color, finish and type shown in schedule. For paint colors designated for drywall application, submit on 1/4 inch thick drywall with taped edges. Final submittal of drywall paint colors shall be as field sample after approval of display panels. Field samples shall be in location as designated on Drawings or at direction of Architect. Field samples shall be minimum of 3'-0" wide by full height and shall be in area with final project light fixtures in place and...
functioning. Do not proceed with related Work until approval of field samples.

E. Submit sealants and grout samples to Architect for color review installed between actual paving, wall, or glazing material to be used.

F. Submit actual samples of devices such as light switches, sprinkler heads, ionization detectors, fire alarm pulls and similar devices complete with appropriate escutcheons or cover plates and anchors for Architect’s approval of color and finish.

G. Control samples are available for review at Architect’s office and Contractor shall be responsible to ensure that samples submitted and actual product installed conform with control samples for color, appearance, gloss, sheen and finish.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Delivery of Materials: Deliver materials (except bulk materials) in manufacturer’s unopened containers fully identified with manufacturer’s name, trade name, type, class, grade, size and color.

B. Storage of Materials: Store materials in unopened containers. Store off ground and under cover, protected from damage. Do not store rolled goods in upright position.

PART 2 - PRODUCTS

2.1 GENERAL NOTES

A. Miscellaneous painted items not otherwise shown in Contract Documents or schedules below are to be painted to match adjacent surface.

B. Sealants and grout are, in general, to match finished surfaces between which they are exposed to view. Where finish materials change color, sealants and grout color transition shall be as directed by Architect.

C. Doors as indicated to receive paint shall be semi-gloss, ‘C’ finish unless otherwise noted. Frames as indicated in architect’s door schedule to receive paint shall be semi-gloss, ‘C’ finish unless otherwise noted in this schedule. Where rooms change color door transition color shall occur as directed by Architect.

D. Unless noted otherwise, reveals, including head, base, and intermediate reveals, shall be painted to match adjacent surfaces.

E. Gypsum board and ceramic tile walls exposed to wet locations and plumbing walls shall be water resistant gypsum board or cement backer board as noted on partition types.

F. Metal stair surfaces exposed to view are to be painted semi-gloss, ‘C’ finish. Shop- or field-paint as necessary for smooth uniform finish.

G. Refer to specifications and drawings for hardware and security device finishes.

H. Paint access covers to match adjacent surfaces unless noted otherwise.

I. Flush mounted sprinkler plate covers are to be manufacturer’s standard in color to match the surface in which they occur. Sprinkler heads at typical areas to be semi-recessed white
centered two ways. Sprinkler heads at painted drywall ceilings or exterior soffits or canopies to be flush mounted concealed type.

J. Provide white electrical devices and face plates, ionization detectors, strobes, life safety and paging speakers, and metal ceiling trim to be match ceiling color when exposed to view unless noted otherwise.

K. Exposed mechanical louvers, grilles, thermostat covers, etc., are to be painted to match adjacent surfaces unless noted otherwise.

L. Resilient base to be 6 inches straight base at carpet areas, 6 inches cove base at hard surface materials such as VCT unless noted otherwise.

M. Finish of interior cabinetry to be cabinet grade melamine in manufacturer’s standard color as selected by Architect. Pulls, where indicated, style as selected by architect, Stainless Steel No. 4 finish unless noted otherwise.

N. Adjustable shelving and miscellaneous painted millwork color to match wall surface in which it occurs unless noted otherwise.

O. Paint elevator doors and frames semi-gloss, ‘C’ finish throughout unless noted otherwise.

P. Floor closer plates are to be mounted below floor finish materials, provide extended spindles and terrazzo pans as required. Flooring shall have appropriate holes for access to adjustment screws per manufacturer’s template.

Q. Exit signs to be edge lit, clear acrylic with lettering color as selected by architect.

R. Paint diffusers to match adjacent surfaces, unless noted otherwise. Paint blackout panels at non-active lengths of slot diffusers and sight baffles at returns matte black.

S. Paint exposed core doors and frames to match wall in which they occur unless noted otherwise.

T. Provide reducer strips in manufacturer’s standard colors to match adjacent flooring material.

U. Provide clear sealant at all interior glass butt joints.

V. All strobe and strobe/speaker combinations to have white cover plates.

W. Provide white switch plate covers, cover plates for other miscellaneous devices, and control devices throughout unless noted otherwise. Provide rocker style switches and control devices throughout unless noted otherwise. Provide ganged cover plates where several devices are located together, provide custom plate openings where required.

X. Floor closer plates are to be mounted below floor finish materials, provide extended spindles required. Flooring shall have appropriate holes for access to adjustment screws per manufacturer’s template.

Y. Paint surface mounted closer covers to match door.

Z. Paint exposed base building core doors and frames to match wall in which they occur.

AA. Paint flush metal or wood base to match adjacent wall in color and sheen unless noted otherwise.
BB. Finish of veneered cabinetry to be as selected by architect.

CC. Pulls, where indicated, are to be tab-style pull, Stainless Steel #4 finish unless noted otherwise.

DD. Adjustable shelving and miscellaneous painted millwork color to match wall surface in which it occurs unless noted otherwise.

EE. Plastic Laminates:
   1. Where non-solid core plastic laminates are specified, exposed edges are to be faced in PVC edging .018" thick as manufactured by Woodtape Canada in color to match face laminate.
   2. Where gloss finish plastic laminates are specified, exposed edges are to be painted in color to match face laminate.
   3. Finish of interior of plastic laminate cabinetry to be cabinet grade melamine in manufacturer's standard color as selected by Architect.

2.2 MATERIALS AND FINISHES SELECTION:

A. Color/Paint Selection Key:

<table>
<thead>
<tr>
<th>Key</th>
<th>Color to Match</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>Field Paint Color: PPG 551 Shooting Star. Library, ITS Dept.; at all walls and ceilings requiring paint UNO. Green Seal Approved Low VOC paint for all sheens.</td>
</tr>
<tr>
<td>P2</td>
<td>Field Paint Color: PPG 518-1 Delicate White ACE Dept. classrooms and multi-purpose room; at all walls and ceilings requiring paint UNO. Green Seal Approved Low VOC paint for all sheens.</td>
</tr>
<tr>
<td>P3</td>
<td>Accent Paint Color: PPG 355-5 Aqua Bay. Green Seal Approved Low VOC paint for all sheens.</td>
</tr>
<tr>
<td>P5</td>
<td>Accent Paint Color: Sherwin Williams SW6402 Antiquity. Green Seal Approved Low VOC paint for all sheens.</td>
</tr>
<tr>
<td>P6</td>
<td>Accent Paint Color: PPG 156-4 Seascape Green. Green Seal Approved Low VOC paint for all sheens.</td>
</tr>
<tr>
<td>P7</td>
<td>Accent Paint Color: PPG 318-6 Caramel Kiss. Green Seal Approved Low VOC paint for all sheens.</td>
</tr>
<tr>
<td>P8</td>
<td>Accent Paint Color: PPG 418-6 Pecan. Green Seal Approved Low VOC paint for all sheens.</td>
</tr>
<tr>
<td>P9</td>
<td>Accent Paint Color: PPG 213-3 Commeal. Green Seal Approved Low VOC paint for all sheens.</td>
</tr>
<tr>
<td>P10</td>
<td>Accent Paint Color: PPG 328-7 Ancient Copper. Green Seal Approved Low VOC paint for all sheens.</td>
</tr>
</tbody>
</table>
2.3 MATERIALS SELECTION KEY

A. Where locations are noted, they are given for clarity only, refer to Drawings and Specifications for required locations.

B. Materials and Finishes Selection Key:

**Acoustical Ceiling System**

**ACT1**  USG Ceilings; Millenia ClimaPlus Illusion Two, 24" x 48" x ¾" angled tegular edge, face cut for 2' x 2' appearance, color: white.

**ACT2**  Armstrong; Fine Fissured Second Look III, scoring creates nom. 6" plank (scored medium texture), 24"x 48" x ¾" angled tegular edge, color: white.

**ACT3**  Armstrong Optima Plank (fine texture), 24" x 96" x 1" square tegular edge, NRC: 95, color: white.

**ACT4**  Fabric System; Newmat, concealed railing system, opaque fabric, color: Matte M15 Blanc for light reflectance.

**Aluminum**

**AL1**  All aluminum to be clear anodized.

**Architectural Panel**

**AP1**  Prefinished aluminum composite panel for fascia/soffit, manufactured by Alucobond, Series A, 4' x 16' panels, 5' x 16' panels, color Bone White 4-30-D.

**AP2**  Prefinished aluminum composite panel for soffit, manufactured by Alucobond, Series A, 4' x 16' panels, color Arabian Blue C2002-D.
Carpet

CPT1  Carpet tile 2’x2’; Shaw Tile, Modular Carpets by Shaw; Fragments Collection pattern loop, style - Slice EW24, #59372, color – Sleek Taupe; field.

CPT2  Carpet tile 2’x2’; Shaw Tile, Modular Carpets by Shaw; Fragments Collection pattern loop, style - Shatter EW24, #59376, color – Sleek Taupe; accent.

CPT3  Carpet tile 2’x2’; Shaw Tile, Modular Carpets by Shaw; Fragments Collection pattern loop, style - Slice EW24, #59372, color – Polished Cocoa; field multi-purpose room. Part of Add Alternate 1.

Ceramic Tile

CT1  Manufacturer: Mosa Tile, Global collection
Type: 6” x 6” 65% wall field color; toilet rm
Number: #25240 (Mocha - Matte Finish)
Grout: Mapei Gray #9

CT2  Manufacturer: Mosa Tile, Global collection
Type: 6” x 6” 15% wall field color; toilet rm
Number: #26240 (Mocha - Gloss Finish)
Grout: Mapei Gray #9

CT3  Manufacturer: Mosa Tile, Colors collection
Type: 6” x 6” 20% wall accent color; toilet rm
Number: #19950 (Ochre - Gloss Finish)
Grout: Mapei Gray #9

CT4  Manufacturer: Mosa Tile, Colors collection
Type: 6” x 6” 20% wall accent color; toilet rm
Number: #1995020920 (Medium Violet – Gloss Finish)
Grout: Mapei Gray #9

CT5  Manufacturer: Mosa Tile, Colors collection
Type: 6” x 6” 20% wall accent color; toilet rm
Number: #1995016690 (White – Gloss Finish)
Grout: Mapei Gray #9

CT6  Manufacturer: Mosa Tile, Colors collection
Type: 6” x 6” 20% wall accent color; toilet rm
Number: #1992018920 (Cobalt Blue – Gloss Finish)
Grout: Mapei Gray #9

CT7  Manufacturer: Mosa Tile, Colors collection
Type: 6” x 6” 20% wall accent color; toilet rm
Number: #19960 (Light Olive – Gloss Finish)
Grout: Mapei Gray #9

CT8  Manufacturer: Mosa Tile, Colors collection
Type: 6” x 6” 20% wall accent color; toilet rm
Number: #17990 (Aqua – Gloss Finish)
Grout: Mapei Gray #9
CT9  Manufacturer: Mosa Tile, Colors collection  
Type: 6" x 6" 20% wall accent color; toilet rm  
Number: #17980 (Red Orange – Gloss Finish)  
Grout: Mapei Gray #9

CT10  Manufacturer: Mosa Tile, Colors collection  
Type: 6" x 6" 20% wall accent color; toilet rm  
Number: #17950(Yellow – Gloss Finish)  
Grout: Mapei Gray #9

CT11  Manufacturer: Mosa Tile, Colors collection  
Type: 6" x 6" 20% wall accent color; toilet rm  
Number: #1789017940 (Burnt Orange)  
Grout: Mapei Gray #9

Concrete Stain

CS1  Water based concrete stain, Low VOC, Scofield Systems,  
Lithochrome Tintura Stain, color as selected by architect from  
manufacturer's custom matched color line.

Fabric Wrapped Panels

FP1  Knoll Textiles, style Mantilla, #WC1143/10, color Woad.  
FP2  Knoll Textiles, style Mantilla, #WC1143/8, color Cochineal.

Glass

GL1  IG Vision panel unit; 1-inch insulating glass, ¼" clear / ¼" clear  
with PPG Solarban 60 low-e coating on surface side 2.

GL2  IG Decorative panel unit; 1-inch insulating glass, ¼" clear glass /  
¼" laminated glass as manufactured by 3Form ¼" gauge with  
Linea Ivory embedded in laminated glass and PPG Solarban 60  
low-e coating on surface side 2.

GL3  Monolithic glass PPG Clear ¼" glass

GL4  IG skylight unit; 1-inch insulating glass, ¼" clear glass with PPG  
Solarban 60 low-e coating on surface side 2 / 1/8"-1/8" laminate  
glass.

Glass Tile

GT1  Crossville Glass Blox Neutral Solids, color Moon Beam G047,  
2'x4' mounted 12"x12" sheets.

Insulation
INS1 Batt Insulation
Fiberglass batt per Section 072100

Marker Board

MB1 Porcelain Enamel Markerboards: Balanced, high-pressure-laminated, porcelain enamel chalkboards of 3-ply construction consisting of face sheet, gloss surface, core material, and backing; provide with aluminum chalk rail and standard aluminum finish trim.

MB2 MDC Wallcoverings, "MemErase", dry erasable wallcovering, "white wall", #ME-62-01, color: "White", width: 62"; Installed on MDF (formaldehyde and urea free); provide with chalk rail and standard aluminum finish trim.

Masonry

CMU1 Trendstone Plus; filled and polished ground face masonry units, color Mission White with white grout, sizes 8"h x 8"w x 16"l, 8"h x 12"w x 16"l as indicated on drawings.

CMU2 Mesa Stone; textured masonry units, pre-finished architectural concrete blocks manufactured with colored aggregates and pigment uniformly finished, color Mission White, sizes 8"h x 8"w x 16"l, 8"h x 12"w x 16"l as indicated on drawings.

BK1 Interstate Brick; oversize clay brick, manufactured in Denver (within 500 miles), color Moroccan Brown with P598 Dark Coal grout. Normal weight smooth masonry, emperor size 2-1/4"h x 3-9/16"w x 16"l.

Metal, Painted

MP Refer to Color and Finish Selection Keys.

Paver, Specialty


Plaster

PR1 Polished Plaster: Armourcoat USA Inc, Spatulata finish with Armoursil Impregnator, Aquawax and Whitewax, model #P80 AUSA-2833 (custom sample ID No 2006.705 to match Dunn Edwards paint color DE5341 Tuscan Sun).
Plastic Laminate

PL1 Formica; Rattan Cane 3699-11-38, corrugated finish.
PL2 Formica; Natural Cane 6930-NT.
PL3 Nevamar; Jute textured S 2086T.

Porcelain Tile

PT1 Ceramic Tiles of Italy porcelain tile, style More, color Tridium, size 12" x 24". Base to match 6" minimum where required. Grout: Mapei Charcoal #47.
PT2 Mosa Tile, Global collection 6" x 6" color #76940 toilet room floor. Grout: Mapei Gray #9
PT3 Mosa Tile, Global collection 6" x 6" color #76240 toilet room base. Grout: Mapei Gray #9
PT4 Lea Ceramiche Progetto L14 porcelain tile, Mood 14 style, metric 10 x 40 size, color Gesso, walls. Grout: Mapei color as selected by architect.

Raised Access Floor

RAF1 Tate Access Floor; Concore 1250 with 4/46" high pressure laminate-RBT1 over a 4' bolted stringer system. Mechanically fastened supports. Approximately 600700 standard panels, 120 Perforated 4000 panels (plus or minus 15%) and 30 110 Grate Air panels (plus or minus 5%). 36" FFH (Finished Floor Height).

Rubber Tile

RBT1 Johnsonite Roundel Solid Color Rubber Tile; surface texture: Cubis (CRT), 3/4" Inertia, interlocking tile size 24" x24", color #29 Moon Rock for use with Raised Access Floor only. Provide 6" Johnsonite Tightlock wall base as part of system in color #29 Moon Rock.

Resilient Base

RB1 At carpet; Burke Mercer BurkeBase Type TS wall base, heavy gauge SBR rubber, color Mocha, size 6".
RB2 At stained concrete; Burke Mercer BurkeBase Type TS wall base, heavy gauge SBR rubber, color as selected by Architect, size 6".

Roof Paver

RP1 Exterior pedestal paver; manufacturer: Immix Inc. composite cementitious recycled product from the Stapleton Airport waste stream, 20" x 20", color: Gray.
Resilient Sheet Flooring
RSF1 FORBO Marmoleum, Mineral Series, color 5709 Crystal.
RSF2 FORBO Marmoleum, Mineral Series, color 5713 Tiger Eye.
RSF3 FORBO Marmoleum, Mineral Series, color 5715 Obsidian.

Resin Panels
RP1 Polyester blended resin panel; mfg. Veritas, texture: satin, interlayer: none, color: Mist, back finish: satin, gauge: varies 1/8" to ½", size 4' x 10'.
RP2 Polyester blended resin panel; mfg. Veritas, texture: satin, interlayer: none, color: Squash, back finish: satin, gauge: varies 1/8" to ½", size 4' x 10'.
RP3 ½" acrylic panel for use in the Eluma Aluminum frame LED panel backsplash, manufacturer's standard with scratch resistant coating both sides as manufactured by Element Designs. Clear acrylic when not powered, frosted when illuminated.

Resinous Flooring
RF1 Stonhard; general service high performance 2 part polymer epoxy flooring system, color: Beechwood, low VOC.

Sealants
Low VOC; color and type to be selected

Site Fencing & Railing
SR1 N/A

Site Furnishings
SF1 N/A

Site Pavement
SP1 N/A

Solid Surface Material
SS1 DuPont Zodiaq quartz composite polymer solid surface in Storm Gray, 20mm thick, edge profile: ¼" top and bottom round-over.
SS2  Wilsonart; Aspen Melange 9072-MLT, Gibraltar ½" acrylic solid surface with Greenguard Certification, edge profile: ¼" top and bottom round-over.

SS3  Vetrazzo Paladian Gray; recycled glass solid surface made from 85% recycled glass in a binder of cement, additives and pigments.

SS4  Vetrazzo Cubist Clear; recycled glass solid surface made from 85% recycled glass in a binder of cement, additives and pigments.

**Stainless Steel**

| SSU1  | Type 304, common grade; 2B - cold rolled, heat treated, pickled, skin passed plus a final light rolling using highly polished rolls for a smooth, reflective, grey sheen surface; polished. |

**Static Dissipative Tile**

| SDT1  | Armstrong Static-Dissipative tile; protection is provided by a 4-part system; special adhesive, copper grounding strips, SDT tile and SDT polish, color, marble Beige #61950. |

**Transition Strip**

| TS1   | Pre molded rubber; accessories by Burke Mercer to match BurkeBase product, heavy gauge SBR rubber, color Mocha. |
| TS2   | Brushed Stainless Steel |
| TS3   | Marble |

**Window Covering**

| WC1   | Horizontal Miniblinds; color to be selected by architect for exterior windows. |

**Wood Flooring**

| WF1   | N/A |

**Wood, Natural**

| WN1   | Formwood Narrow Cane Bamboo with Carmel stain, (Forest Stewardship Council certified.) |
| WN2   | Tree Frog Veneer by Chemetal, Zebra Wood Straight Grain, #60904. Part of Add Alternate no. 1, to be used for the west wall of rm. 280. |
PART 3 - EXECUTION
Not Used

END OF SECTION 090500
SECTION 085113 - ALUMINUM WINDOWS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes operable aluminum-framed pass-through windows for exterior locations.

B. Performance grade number according to AAMA/WDMA 101/I.S.2/NAFS:
   1. Design pressure number in pounds force per square foot used to determine the structural test pressure and water test pressure.

C. Structural Test Pressure: For uniform load structural test, is equivalent to 150 percent of the design pressure.

D. Minimum Test Size: Smallest size permitted for performance class (gateway test size). Products must be tested at minimum test size or at a size larger than minimum test size to comply with requirements for performance class.

1.3 PERFORMANCE REQUIREMENTS

A. General: Provide aluminum windows capable of complying with performance requirements indicated, based on testing manufacturer's windows that are representative of those specified, and that are of minimum test size indicated below:
   1. Size indicated on Drawings.

1.4 SUBMITTALS

A. Product Data: Include construction details, material descriptions, fabrication methods, dimensions of individual components and profiles, hardware, finishes, and operating instructions for each type of aluminum window indicated.

B. Shop Drawings: Include plans, elevations, sections, details, hardware, attachments to other work, operational clearances, installation details, and the following:
   1. Joinery details.
   2. Expansion provisions.
C. Samples for Verification: For aluminum windows and components required, prepared on Samples of size indicated below.

1. Main Framing Member: 12-inch long, full-size sections of extrusions with factory-applied color finish.
2. Window Corner Fabrication: 12-by-12-inch long, full-size window corner including full-size sections of extrusions with factory-applied color finish, weather stripping, and glazing.
3. Operable Window: Full-size unit with factory-applied finish.
5. Weather Stripping: 12-inch long sections.

D. Product Schedule: For aluminum windows. Use same designations indicated on Drawings.

E. Qualification Data: For Installer and manufacturer.

F. Field quality-control test reports.

G. Product Test Reports: Based on evaluation of comprehensive tests performed within the last four years by a qualified testing agency for each type, class, grade, and size of aluminum window. Test results based on use of downsized test units will not be accepted.

H. Maintenance Data: For operable window sash operating hardware weather stripping and finishes to include in maintenance manuals.

I. Warranty: Special warranty specified in this Section.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An installer acceptable to aluminum window manufacturer for installation of units required for this Project.

B. Manufacturer Qualifications: A manufacturer capable of fabricating aluminum windows that meet or exceed performance requirements indicated and of documenting this performance by inclusion in lists and by labels, test reports, and calculations.

C. Source Limitations: Obtain aluminum windows through one source from a single manufacturer.

D. Product Options: Information on Drawings and in Specifications establishes requirements for aluminum windows' aesthetic effects and performance characteristics. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction. Performance characteristics are indicated by criteria subject to verification by one or more methods including preconstruction testing, field testing, and in-service performance.

E. Product Options: Drawings indicate size, profiles, and dimensional requirements of aluminum windows and are based on the specific system indicated. Refer to Division 01 Section "Product Requirements." Do not modify size and dimensional requirements.

1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.
1.6 PROJECT CONDITIONS

A. Field Measurements: Verify aluminum window openings by field measurements before fabrication and indicate measurements on Shop Drawings.

1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish opening dimensions and proceed with fabricating aluminum windows without field measurements. Coordinate wall construction to ensure that actual opening dimensions correspond to established dimensions.

1.7 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace aluminum windows that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Failure to meet performance requirements.
b. Structural failures including excessive deflection, water leakage, air infiltration, or condensation.
c. Faulty operation of movable sash and hardware.
d. Deterioration of metals, other materials, and metal finishes beyond normal weathering.
e. Failure of insulating glass.

2. Warranty Period:

a. Window: Three years from date of Substantial Completion.
b. Glazing: Five years from date of Substantial Completion.
c. Metal Finish: 15 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS
A. Basis-of-Design Product: Subject to compliance with requirements, provide Easi-Serv Products, Inc.; Mini Line Custom Windows, Custom Vertical Lift Window SUI 200 or a comparable product by one of the following:

1. All Seasons Windows & Doors; All Seasons Commercial Division, Inc.
2. Boyd Aluminum Manufacturing.
3. Custom Window Company.
4. DeSCo Windows.

2.2 WINDOW

A. Window Type: Vertically pivoted.

1. Performance Class and Grade: As indicated.

B. Service Opening: 24 inches wide x 48 inches high.

2. Window Type: Vertical lift, one moving panel.
5. Hardware:
   b. Security Lock: Spring loaded plunger lock.
   c. Fasteners: Robertson Head zinc plated self-tapping machine screws and stainless steel rivets.
   d. Handle: 3 inch formed aluminum handle.

8. Weatherproofing:
   a. Mohair seals on all edges of moving panels.
   b. Glazing Sealant: Face Vinyl - Extruded Polymers for Glazing, Inc. FC-120.
   c. Silicon Glazing Sealant: CR Laurence Category 33S.

2.3 FABRICATION

A. Fabricate aluminum windows in sizes indicated. Include a complete system for assembling components and anchoring windows.

B. Fabricate aluminum windows that are reglazable without dismantling sash or ventilator framing.

C. Thermally Improved Construction: Fabricate aluminum windows with an integral, concealed, low-conductance thermal barrier; located between exterior materials and window members exposed on interior side; in a manner that eliminates direct metal-to-metal contact.

D. Provide water-shed members above side-hinged ventilators and similar lines of natural water penetration.
2.4 FINISHES, GENERAL

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. 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.

2.5 ALUMINUM FINISHES

A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.

B. Class II, Clear Anodic Finish: AA-M12C22A31 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.010 mm or thicker) complying with AAMA 611.

C. Class II, Color Anodic Finish: AA-M12C22A32/A34 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, integrally colored or electrolytically deposited color coating 0.010 mm or thicker) complying with AAMA 611.


PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of sill plate, and operational clearances. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure a coordinated, weathertight window installation.

1. Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris.

2. Wood Frame Walls: Dry, clean, sound, well nailed, free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches of opening.
3. Metal Surfaces: Dry; clean; free of grease, oil, dirt, rust, corrosion, and welding slag; without sharp edges or offsets at joints.
4. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing windows, hardware, accessories, and other components.
B. Install windows level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.
C. Set sill members in bed of sealant or with gaskets, as indicated, for weathertight construction.
D. Install windows and components to drain condensation, water penetrating joints, and moisture migrating within windows to the exterior.
E. Separate aluminum and other corrodeable surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

3.3 ADJUSTING, CLEANING, AND PROTECTION

A. Clean aluminum surfaces immediately after installing windows. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.
B. Clean factory-glazed glass immediately after installing windows. Comply with manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels, and clean surfaces.
C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.
D. Protect window surfaces from contact with contaminating substances resulting from construction operations. In addition, monitor window surfaces adjacent to and below exterior concrete and masonry surfaces during construction for presence of dirt, scum, alkaline deposits, stains, or other contaminants. If contaminating substances do contact window surfaces, remove contaminants immediately according to manufacturer's written recommendations.

END OF SECTION 085113
D. Allowance No. 4: Lump-Sum Allowance: Include the sum of $200,000 for high density file storage systems located in rooms 127 and 150.

1. This allowance includes material cost, receiving, handling, and installation and Contractor overhead and profit.

E. Allowance No. 5: Lump-Sum Allowance: Include the sum of $25,000 exterior furnishings.

1. This allowance includes material cost, receiving, handling, and installation and Contractor overhead and profit.

END OF SECTION 012100
SECTION 321600 – CURBS, GUTTERS, SIDEWALKS AND DRIVEWAYS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Concrete curbs, gutters, sidewalks and driveways as shown on the Drawings.

1.2 QUALITY ASSURANCE

A. Regulatory Requirements: Comply with applicable Federal, State and local ordinances, including the City of Albuquerque Standard Specifications for Public Works Construction, 1986 Edition, as updated through Update No. 7. Where geotechnical report, General Structural Notes, or notes on Drawings state more restrictive requirements, the requirements of the geotechnical report, General Structural Notes, or notes on Drawings shall govern.

B. Submittals needed to show compliance with mix design.

PART 2 - PRODUCTS

2.1 MATERIALS


PART 3 - EXECUTION

3.1 PREPARATION

A. Cut existing pavements and concrete joined by new construction by sawcut.

B. Construct subgrade and compacted true to grades and lines shown on Drawings and as specified in Section 301 of the City of Albuquerque Standard Specifications for Public Works Construction, 1986 Edition, as updated through Update No. 7.

C. Do not disturb previously prepared subgrades and subbase course. Where loose soils are encountered beneath pavements, scarify, moisture condition and properly recompact soils in compliance with Section 310000.
D. Material displaced during construction shall not be placed on base or surfacing material already in place on roadway. Do not place excavated material in manner as to interfere with access to property or traffic flow in street.

E. Remove concrete sidewalks and driveways which are necessarily disturbed by construction to a distance required to maintain a slope as indicated by Standard Details or not to exceed 1-inch per foot where sidewalks are concerned.

3.2 CONCRETE CONSTRUCTION

A. Construct concrete curbs, gutters and sidewalks by conventional use of forms, or by means of a curb and gutter machine when approved by ENGINEER.

1. If machines designed specifically for such work and approved by the ENGINEER are used, results must be equal to or better than that produced by use of forms.
2. If the results are not satisfactory to ENGINEER, discontinue use.
3. Requirements applicable to use of forms shall apply to use of machines.

B. Extruded Concrete Curbs Without Gutter: Provide extruded concrete formed-in-place curbs to cross section and locations as shown on Drawings and as specified.

C. Concrete for Curbs, Gutters and Sidewalks: 40% stone by weight and extruded in a zero slump condition.

D. Jointing: Install cold joints every 20 linear feet and at each end of radius corners. Install 2-inch diameter weep holes every 5 feet, unless shown otherwise on Drawings.

E. Bonding

1. Bond extruded concrete curbing to asphalt surfacing by use asphalt tack coat.
2. Apply tack coat in a manner approved by ENGINEER to provide a uniform continuous coating 1/8- to 3/16-inch in thickness and a width 1 - inch less than the base width of curbing.
3. Take care to prevent spills or running of tack coat over surface of finished asphalt pavement.
4. Bond extruded concrete curbing to concrete surfaces by use of an epoxy resin.

F. Forms

1. Carefully set forms to line and grade, securely staked in position and conforming to dimensions of curbs, gutters, sidewalks, driveways and alley intersections.
2. Moisten forms and subgrade immediately in advance of placing concrete.
3. Clean forms thoroughly each time they are used, and coated with a light oil, or other releasing agent of a type which will not discolor concrete.
4. Thoroughly spade concrete away from forms so that there will be no rock pockets next to forms.
5. Concrete may be compacted by mechanical vibrators approved by ENGINEER.
6. Continue tamping or vibrating until mortar flushes to surface, and coarse aggregate is below concrete surface.

G. Expansion Joints

1. Constructed vertical, and at right angles to centerline of drive and match joints in adjacent pavement or sidewalks.
2. Concrete drives: Maximum 15 feet o.c.
3. Construct joints at radius points, driveways, alley entrances and at adjoining structures.

H. Construct contraction joints as detailed.

I. Shape edges with tool formed to round edges to radius indicated on standard details.

J. Form Removal
   1. Do not remove front face form before concrete has taken initial set and has sufficient strength to carry its own weight.
   2. Do not remove gutter forms and rear forms until concrete has hardened sufficiently to prevent damage to the edges.
   3. Take special care to prevent damage.
   4. Repair any portion of concrete damaged while stripping forms. If damage is severe, replace at no additional cost to OWNER.

K. Finishing and Curing
   1. Spray extruded curbs with curing agent sealer immediately after placing to achieve a surface comparable to a medium-to-fine uniform broom finish. Take care in extruding radiuses and corners to prevent cracking and breaking of concrete curbing.
   2. Thoroughly fill, bond, and finish breaks or cracks to match remaining installation in manner approved by ENGINEER.
   3. Curbing found unacceptable by ENGINEER to be replaced at CONTRACTOR's expense.

L. Float Finish
   1. General: Do not add water to concrete surfaces during finishing operations.
   2. Float Finish: Begin the second floating operation when bleed-water sheen has disappeared and concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven floats or by hand floating if area is small or inaccessible to power units. Finish surfaces to true planes. Cut down high spots and fill low spots. Refloat surface immediately to uniform granular texture
      a. Provide trowel finish were indicated on the site plan.
      b. Provide ground concrete finish were indicated on the site plan.
      c. Medium-to-Fine-Textured Broom Finish: Draw a soft-bristle broom across float-finished concrete surface perpendicular to line of traffic to provide a uniform, fine-line texture unless otherwise noted.

M. Ground Concrete Finish
   1. Rough grind cured concrete, minimum 28-days, with 26-grit diamond plugs to remove surface fines and expose aggregate.
   2. Wash concrete with clean water and rinse.
   3. Seal concrete surface with one coat of an approved solvent based acrylic penetrating sealer

NL. Backfilling: Backfill behind curbs or sidewalk with native soil to lines and grades shown on Drawings. See Section 310000 from material specifications.
3.3 FIELD QUALITY CONTROL

A. Testing:

1. Test face, top, back and flow line of curb and gutter with a 10 foot straightedge or curved template, longitudinally along surface.
2. Correct deviations in excess of 1/4-inch.
3. Test surface of concrete sidewalks with a 5 foot straight edge. Correct deviations in excess of 1/8-inch.
4. Gutters:
   a. When required by ENGINEER, water test gutters having a slope of 0.3 foot per 100 feet or less, and where unusual or special conditions indicate gutter may not drain satisfactorily.
   b. Water testing consists of establishing flow in length of gutter to be tested by supplying water from a hydrant, tank truck or other source.
   c. One hour after supply of water is shut off, inspect gutter for evidence of ponding or improper shape.
   d. In the event water is found ponded in gutter to a depth greater than 1/2-inch, or on the adjacent pavement, correct defect or defects in a manner acceptable to ENGINEER.
5. Remove and replace sections of work deficient in depth or not conforming to Drawings or Specifications.

END OF SECTION – 321600
SECTION 271543 – FACEPLATES AND CONNECTORS

PART 1 - GENERAL

1.1 SCOPE OF WORK

A. Work covered by this Section shall consist of furnishing labor, equipment, supplies, materials, and testing unless otherwise specified, and in performing the following operations recognized as necessary for the installation, termination, and labeling of faceplates and connectors as described on the Drawings and/or required by these specifications.

1.2 RELATED SECTIONS

A. Division 27, Section 270528 Pathways for Communication Systems.
B. Division 27, Section 270553 Identification for Communication Systems.
C. Division 27, Section 271119 Communications Termination Blocks and Patch Panels.
D. Division 27, Section 271313 Communications Copper Backbone Cabling.
E. Division 27, Section 271323 Communications Optical Fiber Backbone Cabling.
F. Division 27, Section 271513 Communications Copper Horizontal Cabling.

1.3 MANUFACTURERS

A. Approved Manufacturers:
   1. Leviton
   2. Commscope Hubbell
   3. General
   4. Other approved equal submitted in advance as required in SOW

PART 2 - PRODUCTS

2.1 CONDUIT AND OUTLET BOXES

A. See Section 270528 – Pathways for Communication Systems

2.2 TELECOMMUNICATIONS INSTALLATION

A. General: The materials and products specified herein reflect the minimum acceptable standards of fabrication and manufacture. All materials and products supplied by the Contractor and specified herein are to be new, unused, of first quality and in original packaging or shipping containers or as shown on drawings and described in Item 3.1.

B. New buildings and major renovations will be treated differently than existing buildings. Existing buildings will utilize Category 6 cabling and termination hardware for voice and data. New building construction and CNM ITS approved large-scale renovations will utilize Category 6 cabling and termination hardware for all new cabling and termination hardware for data. Contact CNM ITS for approval of cabling systems before installation.

C. Standard TO Outlet Configuration (New Construction or Renovation):
   1. Each installed TO shall consist of (3) Blue, Category 6, T568B wiring standard, 8 conductor jacks.
2. Cover plate for the bottom or right outlet location shall be (1) Ivory, 2-gang, double opening wall plate with (4) blank modules in the openings.

3. Cover plate for the top or left outlet location shall be (1) Ivory, 2-gang, double opening wall plate with (2) Flat, Ivory snap-in modules located in the top of the openings, (1) Flat, Ivory snap-in modules located in the bottom left of the openings and (1) blank modules in the bottom of the openings.

D. Wall Phone Outlet Device:
1. Telephone device shall consist of (1) Stainless Steel wall plate, Category 6, T568B wiring standard, 8 conductor jack. Two cables will be run to this location but only one will be terminated in the box.
2. Wall phone outlets shall utilize an Allen-Tel #AT630B-8, stainless steel phone plate.

E. Data Only Outlet Device:
1. Data device shall consist of:
   a. (2) Category 6, T568B wiring standard, 8 conductor jacks, where Category 6 is required.
   b. Cover plate shall be (1) Ivory, single gang, single opening wall plate with (2) Blue snap-in modules in top opening, and (1) Ivory, blank fittings in bottom opening. See 2.2 Attachment #2 for jack configuration.
   c. When installing the faceplate horizontally, install the modules and jack as if it were mounted vertically.

F. Fiber Only Outlet Device:
1. Multimode fiber device shall consist of (1) Ivory, LC multimode fiber optic adapter module.
2. Single-mode fiber device shall consist of (1) Ivory, LC single-mode fiber optic adapter module.
3. Cover plate shall be (1) Ivory, single gang, single opening wall plate with (1) Ivory, sloped snap-in module in bottom opening, and (1) Ivory, blank fittings in top opening.

G. Fiber Terminations
1. Each multimode fiber shall be terminated with LC fiber optic connector.
2. Each single-mode fiber shall be terminated with LC fiber optic connector.

H. Existing Outlet Locations:
1. Where new jacks are being installed in existing outlet locations, utilize Blue keystone jacks for voice and Category 6 data installations.
2. Large renovations where Category 6 data is installed shall utilize new faceplates with new jacks.

I. Outlet Locations in Divided Raceways
1. Where jacks are being installed in a divided 4000 Wiremold raceway for telecommunications and power, utilize Wiremold #V4007C-1 one-gang device plates for the mounting of the Ivory, single gang, single opening wall plate. Electrical devices shall utilize a separate Wiremold #V4043B duplex receptacle device.

J. CATV Terminations
1. Type 6 (RG-6) Cable Installations
   a. Terminate all RG-6 cable with LRC Part # F56-CHL.
   b. Crimp connector using only .324 HEX type crimp tool.

2. Type 11 (RG-11) Cable Installations
   a. Terminate all RG-11 non-plenum cable with LRC Part # F11-QS.
   b. Terminate all RG-11 plenum cable with LRC Part # PL11QS.

3. CATV outlet within a Outlet shall utilize (1) F-type module.
PART 3 - EXECUTION TELECOMMUNICATIONS INSTALLATION

3.1 General:

A. This Section describes the installation locations for the products and materials, as well as methods and Owner's Standards associated with the Telecommunications Installation portions of the Project. These Specifications, along with the drawings and other Owner supplied specifications shall be followed during the course of the installation.

B. The Contractor is instructed to coordinate his efforts with the other tradesmen who may be working within the same vicinity to avoid conflict and lost time.

C. The Contractor is required to supply all necessary tools, equipment, accessories, safety equipment, protective clothing, etc., as customary for the craft and necessary for the installation.

D. The Contractor shall verify space requirements and locations with CNM ITS before starting cable installations and terminations.

3.2 FACEPLATE INSTALLATION

1. The faceplate housing the UTP connector modules shall provide a symmetrically centered appearance for the modules.

2. The faceplate housing the UTP connector modules shall have no visible mounting screws.

3. It shall be possible to inspect and/or re-terminate the UTP cable at the outlet through front access at the faceplate.

4. The faceplate housing the UTP connector modules shall have aperture plugs to cover any unused openings in the faceplate.

5. The faceplate housing the UTP connector modules shall have an angle entry plate with recessed inserts for maximum protection of outgoing modular cords.

6. It shall be possible to install the UTP connector modules in wall-mounted single- and dual-gang electrical boxes, utility poles and modular furniture (cubicle) access points using manufacturer-supplied faceplates and/or adapters.

7. The faceplate housing the UTP connector modules shall be available in the following finishes or colors: stainless steel, gray, almond, white, and black.

8. The faceplate housing the UTP connector modules shall have the option of being mounted on adapter boxes for surface mount installation.

9. The faceplate housing the UTP connector modules shall have a labeling capability using built-in labeling windows, to facilitate outlet identification and ease network management.

10. The faceplate housing the UTP connector modules shall accommodate up to a maximum of six modules in a single-gang form and up to a maximum of twelve modules in a dual-gang form.

11. The faceplate housing the UTP connector modules shall provide flexibility in configuring multimedia workstation outlets that respond to present of future network needs such as audio, video, coaxial and optical fiber applications.

A. Approved Manufacturers:
3.3 EQUIPMENT INSTALLATION AND CABLE TERMINATIONS

A. All equipment shall be installed in a neat and workmanlike manner, arranged for convenient operation, testing and future maintenance.
B. All telecommunications cables, faceplates, and connectors shall be installed and terminated by technicians experienced in the installation and termination of telecommunications items listed herein.
C. The Contractor shall employ certified system installation technicians and have at least 5 years experience in the installation of similar and equivalent systems.
D. The Contractor shall supply verification of experience, for this type of work, to the Architect for approval before performing any work.

3.4 AS-BUILT INFORMATION

A. Contractor shall provide as-built information to Owner to accompany all test result information.
B. As-built information shall be in electronic format in AutoCAD version 2000. Indicate location of all Outlets, station and riser conduit routes, distribution cable trays, junction boxes, and all additions and deletions pertaining to telecommunications. Include correct Outlet labeling next to all telecom symbols.
C. If construction drawings are not utilized, Contractor shall provide all telecommunications location information on an accurate scaled floor plan.

3.5 SYSTEM WARRANTY REQUIREMENTS

A. Contractor shall perform all labeling requirements and provide testing documentation for verification as described herein.
B. Contractor shall submit cable records to reflect all moves, adds, and changes.
C. Manufacturer shall provide a system performance warranty for the installed system.

END OF SECTION 271543
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**Addendum 7**

**Project:**
- CNM Student Resource Center
- Albuquerque, NM

**Scale:** N.T.S.

**Design Firm:**
- DMJM Design
- AECOM

**Contact:**
- 2777 East Camelback Road, Suite 200
- Phoenix, Arizona 85016
- T: 602-337-2700  F: 602-337-2820
- www.dmjmhnc.aecom.com

**Project No:** 60017462.0020

**By:** MT

**Date:** 11/12/08

**Sheet Ref:** C01-03

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| ROOM FINISH SCHEDULE |

- **Addendum No. 7**
- **November 12, 2008**

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Student Resource Center
Central New Mexico Community College
Project Number 60017462

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**Remarks:**
- **EXPOSED**
- **ACT1**
- **ACT2**
- **ACT4**
- **GWB**
- **CMU**

**Addendum No. 7**
November 12, 2008

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**Student Resource Center**
Central New Mexico Community College
Project Number 50017462

09 05 00A - 3

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**ABBREVIATIONS:**
- ACT: ACOUSTICAL CEILING SYSTEM
- AL: ALUMINUM
- AP: ARCHITECTURAL PANEL
- B: BASE
- CPT: CARPET
- CT: CERAMIC TILE
- CS: CONCRETE STAIN
- FP: FABRIC WRAPPED PANEL
- GL: GLASS
- GT: GLASS TILE
- GWB: GYPSUM WALLBOARD
- NIC: NOT IN CONTRACT
- OTS: OPEN TO STRUCTURE
- P: PAINT
- PR: POLISHED PLASTER
- PT: PORCELAIN TILE
- RAF: RAISED ACCESS FLOOR
- RB: RESILIENT BASE
- RBT: RUBBER TILE
- RF: RESINOUS FLOORING
- RP: ROOF PAVER
- RSP: RESILIENT SHEET FLOORING
- SC: SEALED CONCRETE

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**FLOORING LEGEND:**
- CPT#: 09 05 00 CARPET
- CT#: 09 05 00 CERAMIC TILE
- CS#: 09 05 00 CONCRETE STAIN
- PT#: 09 30 00 PORCELAIN TILE
- SC: 09881 SEALED CONCRETE

Student Resource Center
Central New Mexico Community College
Project Number 60017462

09 05 00A - 5

ROOM FINISH SCHEDULE
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