ADDENDUM #3 – March 3, 2015
WEST VIRGINIA PARKWAYS AUTHORITY
PLANS, SPECIFICATIONS, AND CONTRACT DOCUMENTS
FOR

CONTRACT NO: SP-1-15
BECKLEY MAINTENANCE AND STATE POLICE OFFICE

See attached clarifications, responses to questions, and revisions to plans and specifications as provided by ZMM Architects and Engineers.

WEST VIRGINIA PARKWAYS AUTHORITY

[Signature]
Gregory C. Barr
General Manager
# ROOM FINISH LEGEND

<table>
<thead>
<tr>
<th>CODE</th>
<th>TYPE</th>
<th>BASES OF DESIGN MANUFACTURER / STYLE</th>
<th>STYLE NUMBER / COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT-1</td>
<td>ACOUSTICAL CEILING TILE (CLASSROOMS) CEILING GRID</td>
<td>ARMSTRONG - OPTIMA (NRC 0.9)</td>
<td>2x2' LAY-IN, WHITE WHITE</td>
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<td>LVP-1</td>
<td>LUXURY VINYL PLANK</td>
<td>LINKWERS/RAPID LOC</td>
<td>LWC-4811</td>
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<td>CT-1</td>
<td>CERAMIC TILE</td>
<td>AMERICAN CLEAN/AVANTE</td>
<td>3X13/CEMENT AVANT</td>
</tr>
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<td>AMERICAN CLEAN/AVANTE</td>
<td>254/CEMENT AVANT</td>
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<tr>
<td>CT-3</td>
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<td>AMERICAN CLEAN/AVANTE</td>
<td>3X13/CEMENT AVANT</td>
</tr>
<tr>
<td>P-1</td>
<td>FIELD</td>
<td>SHERWIN WILLIAMS/PRO MAR 200 LATEX ENAMEL</td>
<td>G292050 1 COLONIAL WHITE</td>
</tr>
<tr>
<td>P-2</td>
<td>DOOR AND WINDOW TRIM</td>
<td>SHERWIN WILLIAMS/SEMI GLOSS</td>
<td>SW 7514 FOOTBALLS</td>
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<tr>
<td>RB-1</td>
<td>4&quot; RUBBER WALL BASE</td>
<td>JOHNSONITE/TRADITIONAL WALL BASE</td>
<td>293 TOAST WG</td>
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<td>PC-1</td>
<td>POLISHED CONCRETE</td>
<td>TO BE SELECTED BY ARCHITECT</td>
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<td>SC-1</td>
<td>TILED CONCRETE</td>
<td>N/A</td>
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<td>PLASTIC LAMINATE</td>
<td>FORMICA</td>
<td>6751-55/NAVY</td>
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<tr>
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<td>PLASTIC LAMINATE</td>
<td>FORMICA</td>
<td>3464-55/BELMONT GRANITE</td>
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<td>MP-1</td>
<td>MULTI-PURPOSE FLOORING</td>
<td>JOHNSONITE/MULTI-PURPOSE FLOORING/PENTA</td>
<td>743 MUDDY WATERS</td>
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<tr>
<td>RSN-1</td>
<td>RUBBER STAR NOISING RISERS, AND LANDINGS</td>
<td>JOHNSONITE/ROUGHED</td>
<td>20 CHARCOAL</td>
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**NOTE:** POLISHED CONCRETE LANDINGS ON FIRST FLOOR OF STAIRS ONLY

## ROOM FINISH SCHEDULE

### ROOM NUMBER | ROOM NAME | FLOOR | BASE | WALLS
--- | --- | --- | --- | ---
101 | LOBBY | CT-1 | RB-1 | P-1
102 | SECRETARY | LVP-1 | RB-1 | P-1
103 | TOILET | CT-2 | CT-3 | P-1
104 | TOILET | CT-2 | CT-3 | P-1
105 | SIT. OFFICE | LVP-1 | RB-1 | P-1
106 | OFFICE | LVP-1 | RB-1 | P-1
107 | SECURE CORRIDOR | CT-1 | RB-1 | P-1
108 | PROCESSING | LVP-1 | RB-1 | P-1
109 | INTERVIEW | LVP-1 | RB-1 | P-1
110 | TOILET | CT-2 | CT-3 | P-1
111 | CAMERA RECORDING | LVP-1 | RB-1 | P-1
112 | KITCHEN/BREAK ROOM | LVP-1 | RB-1 | P-1
113 | STAIR | PC-1, RSN-1 | RB-1 | P-1
114 | STORAGE | LVP-1 | RB-1 | P-1
115 | EVIDENCE | LVP-1 | RB-1 | P-1
116 | ELEVATOR EQUIPMENT | LVP-1 | RB-1 | P-1
117 | ELEVATOR | LVP-1 | RB-1 | P-1
118 | CORRIDOR | PC-1 | RB-1 | P-1
119 | STAIRS | PC-1, RSN-1 | RB-1 | P-1
120 | TOILET | CT-2 | CT-3 | P-1
121 | TOILET | CT-2 | CT-3 | P-1
122 | TRANSCODE | PC-1 | RB-1 | P-1
123 | KITCHEN/BREAK ROOM | PC-1 | RB-1 | P-1
124 | ELECTRICAL | SC-1 | RB-1 | P-1
125 | MECHANICAL | SC-1 | RB-1 | P-1
126 | CORRIDOR | PC-1 | RB-1 | P-1
127 | SPRINKLER | SC-1 | RB-1 | P-1
128 | MECHANICAL | SC-1 | RB-1 | P-1
129 | HOSE ROOM | PC-1 | RB-1 | P-1
130 | COMPRESSOR | PC-1 | RB-1 | P-1
131 | PART/IRE ROOM | PC-1 | RB-1 | P-1
132 | MECHANICS BAY | SC-1 | RB-1 | P-1

### ROOM FINISH SCHEDULE

| ROOM NUMBER | ROOM NAME | FLOOR | BASE | WALLS
--- | --- | --- | --- | ---
201 | LOBBY | CT-1 | RB-1 | P-1
202 | DAY ROOM | LVP-1 | RB-1 | P-1
203 | TOILET | CT-2 | CT-3 | P-1
204 | WORKOUT ROOM | MP-1 | CT-3 | P-1
205 | CONFERENCE ROOM | LVP-1 | RB-1 | P-1
206 | OFFICE | LVP-1 | RB-1 | P-1
207 | EQUIPMENT | LVP-1 | RB-1 | P-1
208 | SUPPLY | LVP-1 | RB-1 | P-1
209 | OFFICE | LVP-1 | RB-1 | P-1
210 | OFFICE | LVP-1 | CT-3 | P-1
211 | OFFICE | LVP-1 | RB-1 | P-1
212 | STAIR | RSN-1 | RB-1 | P-1
213 | TOILET | CT-2 | CT-3 | P-1
214 | TOILET | CT-2 | CT-3 | P-1
215 | ELEVATOR | LVP-1 | RB-1 | P-1
216 | STAIRS | RSN-1 | RB-1 | P-1
217 | TOILET | CT-2 | CT-3 | P-1
218 | KITCHEN | CT-1 | RB-1 | P-1
219 | TOILET | CT-2 | CT-3 | P-1
220 | CORRIDOR | CT-1 | RB-1 | P-1
221 | SAFETY OFFICE | CT-1 | RB-1 | P-1
222 | SUPPLY/ELECTRIC | CT-1 | RB-1 | P-1
223 | SAFETY / SUPPLY | CT-1 | RB-1 | P-1
224 | SAFETY OFFICE | CT-1 | RB-1 | P-1
225 | TRAINING ROOM | CT-1 | RB-1 | P-1
226 | WEIGHT ROOM | MP-1 | RB-1 | P-1
227 | CASHIER LEADER OFFICE | CT-1 | RB-1 | P-1
228 | STORAGE | SC-1 | RB-1 | P-1
229 | CLOSET | CT-1 | RB-1 | P-1
230 | PURCHASING OFFICE | CT-1 | RB-1 | P-1
231 | CREW ROOM | CT-1 | RB-1 | P-1
232 | MECHANICAL ROOM | SC-1 | RB-1 | P-1

**ATTACHMENT TO:**
- ADDENDUM NO. __3__
- CHANGE ORD. NO. ____
- C.O.D. NO. ____

**BY:** JDS

**COMM. NO:** 1475

**THE NEW BECKLEY MAINTENANCE BUILDING**

Beckley, WV

**DWG. NO.** A210-R1

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**S U P P L E M E N T A L D R A W I N G**

- [ ] NEW DRAWING or DETAIL ______ on sheet________
- [x] REVISION OF DRAWING or DETAIL ______ on sheet A210
- [ ] CLARIFICATION OF DRAWING or DETAIL ______ on sheet________

**BY:** JDS

**DWG. NO.** A210-R1
1. Question: Please provide model number for the kitchen exhaust hood/vent?

REVISED ANSWER: Kitchen Hood/vent furnished and installed by contractor. Change color from white Baked Enamel to Stainless Steel, see specification 113100.2.2.5 Kitchen Exhaust hood.

19. Question: Drawing S130 you show a step in the footer from 2'-8” down to 4’0” then back up to 2’8” in a distance of 7’ on column line A4. What is that step for?

Answer: The step is for utilities to pass above the footing.

20. Question a): Drawing A133 shows steps to the attic. Structural drawing S151 does not show an opening for stairs to the attic. Please clarify.

Answer: The last run of the stairs to the attic Mechanical Room will go in between the roof trusses.

Question b): In the pre-bid, it was mentioned that no rock excavation was anticipated. However, after reviewing the plans, it looks as if rock excavation will be required; mainly in the administration area. Also, various utilities will also have to be excavated into rock. Do you concur?

Answer: The depth of rock is not known throughout the site. However, given the shallow bedrock elevations provided in the geotechnical report, it likely that the contractor with encounter rock excavation either in foundation excavation an or in excavation of utility trenches.

21. Question a): On the bid spec it calls for rigid conduit in all exposed areas and mechanical rooms this is going to be very expensive if the whole shop area has to be in rigid conduit.

Answer: We will allow EMT (electrical metallic tubing) exposed in indoor areas & mechanical rooms

Question b): Also can the fire alarm be run exposed above the drop ceilings?

Answer: We will also allow fire alarm wiring to be exposed above dropped ceilings.
22. **Question:** On column line A Horizontally and Column Line 5 Vertically the column footing is tagged A. Should this column footing be tagged C.?

**Answer:** The concrete spread footing at grid lines A-5 should be labeled as “C” instead OF “A”.

23 **Question:** On sheet S130 the pier schedule shows P2. I only see one location where P2 is tagged. Is P2 typical for the interior footings tagged A?

**Answer:** P2 only occurs at grid B-3.

24 **Question:** Can you clarify the brick types. One place calls for Type 1 and type 2 and another calls for type A and type B. Are there 2 sizes of brick used? Or 2 colors?

**Answer:** There are two colors of utility size brick, Type A = Type1 and Type B = Type 2.

25 **Questions:** On drawing sheet number A132 in rooms 205 Conference Room & 225 training room. There is an audio/visual screen identified. There are no specifications for this item. Who is to provide the audio/visual screen?

**Answer:** The owner will provide the Audiovisual screens.

**Question:** What is the radio table constructed of in Crew Room 231 and who is to provide?

**Answer:** The owner will provide the Radio Table.

26 **Questions a):** According to the Division 11 - Equipment; Section 113100 Specifications the contractors is to provide a kitchen exhaust ventilation system. Will the Owner be providing the ice machine in corridor 126, fridge and oven in kitchens 112, 123, 218 along with the dish washer?

**Answer:** Owner will provide the referenced kitchen equipment, except the exhaust hood/vent. The contractor will provide and install the hood exhaust duct to the exterior wall.

**Question b):** There are two more audio/visual screens identified in room 231 Crew Room. This statement relates to previous question, who provides the audio/visual screens, if Contractor is to provide, please provide specifications.

**Answer:** Owner will provide and install Audio Visual Screens.

27 **Question:** Division 10 Specialties Section 104416 Fire Extinguishers, Cabinets and Accessories. There is a spec for this item, but I cannot locate them on the floor plan. Could locations be provided on the first floor, second floor and attic for fire extinguishers in order to calculate the right amount and in order to size them in the correct wall legend?
Answer: Locations of cabinets provided in Addendum No. 3.

28 Question: There appear to be three restroom partition drawn as per sheet A411 Toilet Enlarged Plans. Rooms 120, 214 & 219. Are there any specifications for the restroom partitions?

Answer: Partition specifications are provided in Addendum No. 2

29 Question a): Sheet # A131 Note 7 is pointing at what appears to be pipe bollards if you refer to sheet # A310. There does not appear to be any details on the pipe bollards. Are we to assume 6" pipe bollards four feet in the ground and four feet exposed, painted safety yellow?

Answer: Bollard detail is provided in Addendum No. 2.

Question b): It appears that there are a total of 16 pipe bollards at the garage door location. I have not seen any indications of any other pipe bollards on the Civil Drawings. Should there be a pipe bollard on each corner on the north elevation to protect the building corner and should there be pipe bollards behind the proposed building protecting the mechanical equipment?

Answer: In addition to the 16 bollards at the doors please provide two additional pipe bollards at the two north (right) elevation corners.

30 Question: Detail 2/A410 Kitchen Elevation on sheet A410 does seem to reference any area within the floor plans. (Please clarify)

Answer: Elevation 2/A410 of casework is located in Conference Room 205, and is noted in enlarged plan 5/A410.

31 Question: There appears to be two different specifications for the same items (cabinetry) within the floor plans. Division 6 - Woods, Plastics, and Composites; Section: 064116 Plastic -Laminate-Faced Architectural Cabinets & Division 12 - Furnishings; Section 123216 Manufactured Plastic-Laminate-Faced Casework. Which specification are we to follow when bidding the kitchens and conference room cabinetry? (Please advise)

Answer: There is clarification in Addendum No. 3.

32 Question a): On sheet A133 there is a general note in the center of the page that states: Limit open attic area to 3000 SF or less.

Answer: The WV State Fire codes require that the attic be divided into areas less than 3000 SF by a gyp. bd. partition separation.

Question b) What are the limits of the elevated concrete slab in the attic space? Please provide dimensions from column line to column line.
**Answer:** Mechanical Room 301 and top landing of the steps are the limits of the floor slab. Dimensions are shown on the floor plan A133.

**33 Question:** Room 301 Mechanical Room 301 is not on the finish schedule. Will this room be finish painted (P-1) or just fire tapped? Room 301 is not on the finish schedule. Will this room require floor finish (PC-1) and rubber base (RB-1)? Room 301 There does not seem to be a reflected ceiling plan for the loft (3rd floor). Will the loft ceilings be required to be covered with gypsum board and since the rooms is considered a mechanical rooms, will it have to have a 2 hour fire rating on the ceiling?

**Answer:** Mechanical Room 301 to have fire taped gyp. bd. walls, sealed to metal roof deck. No other finishes are required. Ceiling does not require fire rating. Please note that adjacent Stair 212 will have painted gyp. board walls and ceiling and rubber base.

**34 Question:** Emergency generator - Riser states 120/208 three phase and spec’s 277/480 three phase which is correct? Enclosure listed is specification is Aluminum is that correct?

**Answer:** The Riser Diagram is correct, 208Y/120V not 480Y/277V. Yes, we definitely want an aluminum enclosure.

**35 Question:** In the metal building specs it calls for UL90 wind uplift and FM Class 1A-90, it has to be one or the other. Please clarify.

**Answer:** UL90 wind uplift shall be used.
March 3, 2015

ADDENDUM NO. 3

RE: Beckley Maintenance Building For West Virginia Parkway Authority
Beckley, West Virginia
Architect’s Project No. 1475

TO: Prospective Bidders

FROM: ZMM, Inc. Architects and Engineers

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents.

ATTACH THIS ADDENDUM TO THE FRONT COVER OF THE PROJECT MANUAL AND ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE BID FORM.

PART 1 - CLARIFICATIONS

A. Refer to the following documents as attached to this Addendum:
   1. Questions and Answers dated 02/19/15
   2. Requests For Information and Responses dated 02/23/15.
      a. Answers and Responses represent clarifications and modifications to the Bidding Documents and bear the same significance as any other part of this Addendum.

PART 2 - CHANGES TO SPECIFICATIONS

A. Section 061600 “Sheathing” - REVISE Article 2.2 to read as follows:

COMPOSITE NAIL BASE INSULATED ROOF SHEATHING

Fire-retardant-Treated Plywood-Surfaced, Polyisocyanurate-Foam Sheathing: ASTM C 1289, Type V with DOC PS 2, Exposure 1 plywood on one face.

   1. Basis of Design Product: ‘H-Shield NB’ as manufactured by Hunter Panels;
      http://www.hpanels.com/ or comparable products of the following manufacturers:
      a. Atlas Roofing Corporation
      b. ACH Foam Technologies

   2. Polyisocyanurate-or extruded polystyrene foam Insulation: Minimum R-20.
   3. Plywood Nominal Thickness: 5/8 inch (15.9 mm).
B. DELETE Section 064116 “Plastic Laminated Faced Architectural Cabinets”. Reference Section 123216 for all casework.

C. Section 074213.23 “Metal Composite Material Wall Panels” - REVISE Line 2.1.D.2 to read: “Color to be selected by Architect from manufacturer’s standard color range.”

D. Section 076200 “Sheet Metal Flashing and Trim” - ADD to Paragraph 2.B the following: “Flashing materials are to match that of standing seam metal roof panels specified in Section 074113.16 if recommended by roof panel manufacturer to be other than aluminum”.

E. REPLACE Section 096513 “Resilient Base and Accessories” dated 01/26/15 with replacement Section 096513 dated 03/03/15 as attached to this Addendum.

PART 3 - CHANGES TO DRAWINGS

A. Drawing No. A131 ADD General Note to read as follows:

Provide fire extinguishers (F.E.) and cabinets in the following areas;

Provide F.E. cabinets adjacent to the door to Kitchen Break Room 112.
Provide F.E. cabinets adjacent to the door to Kitchen Break Room 123.
Provide F.E. cabinets adjacent to the door to Parts/Tires Room 131.
Provide F.E. cabinets adjacent to the doors 136 and 141 to Mechanical Bays 132.

B. Drawing No. A132 ADD General Note to read as follows:

Provide fire extinguishers (F.E.) and cabinets in the following areas;

Provide F.E. cabinets adjacent to the door to Office 211.
Provide F.E. cabinets adjacent to the opening to Kitchen 219.

C. Drawing No. A133 ADD General Note to read as follows:

Provide fire extinguishers (F.E.) and cabinets in the following areas;

Provide F.E. cabinets adjacent to the door to Mechanical Room 301.

D. Refer to Supplemental Drawing No. A210-R1 as attached to this Addendum.

END OF ADDENDUM

Attachments:  Questions and Answers dated 02/19/15 ...................................................... 4 pages
Requests For Information and Responses dated 02/23/15 ................................. 5 pages
Section 096513 ................................................................. 6 pages
Supplemental Drawing No. A210-R1 .............................................. 8 ½” x 11”
REQUESTS FOR INFORMATION AND RESPONSES  
BECKLEY MAINTENANCE BLDG.  2/23/15

2nd REQUESTS FOR INFORMATION AND RESPONSES

RFI 5

Question. Can you please specify exactly what documents are needed in the bid envelope and what is needed to be listed on the envelopes?

Response: A contractor’s bid shall include all elements of the Contractor’s Proposal package up to and including sheet 14 (the second sheet of the Proposal Guarantee Bond.) The Contract, Contract Bond, Release of Liability, and the Special Provisions are not required to be submitted as part of the bid package.

RFI 6

Question. Can you please confirm that this is the prevailing wage? If so where in the specifications is it listed and where are the rates?

Response: As provided in the Meeting Minutes from the Pre-Bid Meeting, Prevailing wage rates and the WV Jobs are applicable to this project. Wage determination is outlined in section 110 of the WVDOH Standard Specifications Roads and Bridges.

RFI 12 and RFI 13

Question. There are no truss framing detail between column line details GE and GA / A and D. Please clarify.

Question. Sheet A310 show dormers at rear and front elevations but there are no framing details on how to construct ridge beam, valleys or rafters. Please clarify.

Response to RFI 12 & 13

The metal building roof purlins will cantilever over the last frame at line G5. Adjust purlin spacing and increase member cross section as required to achieve cantilever.

The cold formed members will cantilever over the wall at line 1 and should be tied back through the main roof trusses as required. Adjust cantilever member spacing and build up member cross section as required by cold formed manufacturer design.

The roof dormer areas shall be stick built using cold formed metal framing. Cold formed cantilever members will cantilever over the stick built portion and tie back into the main roof structure as required by cold formed manufacturer design.
RFI 14

Question.

1) 2.3 Exterior non-load bearing wall framing calls out (D). Single deflection track and (E) Double deflection track. The drawings do not specify what areas they apply to. Please clarify.

2) 2.4 non-load bearing wall framing / 2.5 framing accessories specify (D) slotted deflection tracks and (E) single deflection tracks. Are these tracks in designated wall locations or would the single deflection track be used for all top tracks. Please clarify.

Response to 1 & 2: Single deflection tracks may be used for all top tracks unless otherwise required by cold formed framing design engineer.

RFI 15

Question: Will colored / pigmented mortar be required for this project?

Response: Pigmented mortar is specified, color to be selected by architect.

Question: Will quality control testing be provided by the owner or is this the responsibility of the contractor? Some specification sections call for retesting to be the responsibility of the contractor which indicates that the testing would be by the owner.

Response: Responsibility for testing is described in the various specification divisions.

RFI 16

Question: The top course of brick seems to be drawn as a rowlock but is not called out. Please clarify.

Response: The top courses of the brick at the gable ends are to be rowlock as shown.

RFI 17

Question: Drawings A251 and A252 show an interior wall mounted sign schedule but not all rooms are listed on the schedule. Are we to bid only the signs listed on the schedule?

Response: Bid only the signs that are shown on the schedule.

RFI 18
Question: Can White Carrara Marble be used as an alternate to Polished Georgia Grey Marble listed in specification section 097523?

Response: We cannot approve an alternate color/type without a sample.

RFI 20
Question: Room 132, Mechanics bay, not in finish schedule to indicate ceiling, wall or floor finishes. Please advise.

Response: See revised finish schedule in Addendum No. 3.

RFI AA
Question a) What is the actual size of the trench drains? Architectural prints show 12”x6” and S511 scales to a different size.
Response: The trench Drain is 12” wide and 6” deep.

Question b) Is there a clear profile and/or specs of the embed angle and grate for the trench drains?
Response: Garage embed angle shall be heavy duty.

Question c) Clarification is needed for the sill at the garage whether we are to use light duty of heavy duty as shown on S511.
Response: Heavy duty application

Question d) Clarification is needed on the elevator pit slab. Has this been coordinated with any of the elevator manufacturers? Some require a 5’ pit depth which would change depths of pit walls, piers heights, excavation, etc. Response: ?
Response: Elevator design has been reviewed with 4’ pit depth by elevator manufacturer.

Question e) Upon review of the elevator pit, the TOF shows -2’-8” as opposed to -4’-0” as shown for the B3 column.
Response: Top of footing B4 should match the top of elevator pit.

Question f) On foundation plan S130, foundation for pier on column line A5 lists that it is a type A but scales for a type C. Please clarify.
Response: Clarified in Addendum No. 2

Question g) On S130, the foundation lists D type to be 12’x12’ but scales 10’x10’. Please clarify.
Response: Foundation “D” is correct. Size should be 12’X12’.

Question h) Please give amount and locations of fire extinguishers.
Response: Amount and location of fire extinguishers cabinets to be included in Addendum No. 3.
Question i) Signage plan A252 does not show a sign for stair #216. Please clarify.
Response: Provide stair signs on both interior door to Stair #212 and Stair #216.

Question j) Is ice machine shown on A131 in contract?
Response: Ice machine is provided by owner.

Question k) Are the audio/visual screens on A132 in contract? If so, please provide specs.
Response: Audiovisual screens are provided by owner.

Question l) On page A132, it shows a radio table in Room 231. Is this table in the contract? If so, please provide details.
Response: Radio Table is provided by owner.

Question m) It appears to be a table or top in Room 225, North side of locker wall. If so, please clarify.
Response: Table top is provided by owner.

Question n) On A411, plans do not show any urinal screens. Please advise.
Response: Provide urinal screens in between urinals in Room 120 and Room 219.

Question o) In Room 222, plans show mop sink but no mop and broom holder. Please clarify.
Response: Provide Mop and Broom Holder in Room 222.

Question p) In Room 213 and 217, plans show no soap dispensers. Please clarify.
Response: Provide Soap Dispenser in Room 213 and Room 217.

Question q) In Room 214, plans show no mirror. Please clarify.
Response: Provide Mirror in Room 214.

Question r) Foundation schedule tag K (garage slab) shows #4 rebar and on S510, detail 4, shows rebar to be #5. Please clarify.
Response: Clarified in Addendum No. 2

Question s) Are the footer dowels #5?
Response: Footer dowels shall match masonry wall vertical bar reinforcing size and spacing.

Question t) Are the dowels placed at 48” OC the same as the verticals?
Response: Slab reinforcement dowels to match wall reinforcement size and spacing.

Question u) What are the spacing of the slab reinforcement dowels on S510, detail 8?
Response: Slab reinforcement dowels to match wall reinforcement size and spacing.
Question v) Will there be a need for hairpins?
Response: Hairpins not required.

Question w) Are the intentions to polish the concrete slabs at the floor level entries in the stair areas and place rubber stair treads and rubber flooring on the treads and landings?
Response: Yes, see revised Finish Schedule in Addendum No. 3

Question x) Upon review of the finish schedule and the areas shown to receive polished concrete, it seems unfeasible to have this product, which is a high dollar product, in areas such as an elevator equipment room, electrical room, mechanical room, sprinkler, hose room, compressor, part/tire room, etc. Are those areas intended to have sealed concrete instead?
Response: See revised Finish Schedule Addendum No. 3

Question y) Upon review of various cut sections and review with metal building supplier, metal truss suppliers, etc. we believe there may be a structural issue on supporting the highlighted areas on the following attachment. Please clarify how these areas might be supported.
Response: The metal building roof purlins will cantilever over the last frame at line G5. Adjust purlin spacing and increase member cross section as required to achieve cantilever.
The cold formed members will cantilever over the wall at line 1 and should be tied back through the main roof trusses as required. Adjust cantilever member spacing and build up member cross section as required by cold formed manufacturer design.
The roof dormer areas shall be stick built using cold formed metal framing. Cold formed cantilever members will cantilever over the stick built portion and tie back into the main roof structure as required by cold formed manufacturer design.

Question z) How are the roof overhangs on the metal building section of the building supported? How is the sub-fascia supported?
Response: Roof overhangs are to be supported with steel girt lockouts and continuous eave struts.

Question aa) The building is shown to have two different roofing types, metal building roof and standard seam roof. There could be potential issues if a continuous roofing system like on Wall Section 3, A331 isn’t used. Please clarify.
Response: The specified metal roof is for the entire building with different attachment systems for each frame type. An expansion joint will occur between the systems

Question bb) What is to soffit material? Response: ?
Response: Soffit material is fiber cement soffit specified in section 074646.
Question cc)  Just to confirm, this composite metal wall panel system is a sealed, weather-tight system. Correct?
Response:  Yes

Question dd)  Are we to provide and install the roof top radio antenna’s?
Response:  The antenna supports are to be furnished and installed by contractor. The antennas are furnished and installed by owner.
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.
   3. Resilient molding accessories.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: For each exposed product and for each color and texture specified, not less than 12 inches (300 mm) long.

C. Samples for Verification: For each type of product indicated and for each color, texture, and pattern required in manufacturer's standard-size Samples, but not less than 12 inches (300 mm) long.

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

1.4 MAINTENANCE MATERIAL SUBMITTALS

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 (3 linear m) for every 500 linear feet (150 linear m) or fraction thereof, of each type, color, pattern, and size of resilient product installed.

1.5 QUALITY ASSURANCE

A. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

   1. Coordinate mockups in this Section with mockups specified in other Sections.
1.6 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 (10 deg C) or more than 90 deg F (32 deg C).

1.7 FIELD CONDITIONS

A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F (21 deg C) or more than 95 deg F (35 deg C), 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. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F (13 deg C) or more than 95 deg F (35 deg C).

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

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. FloorScore Compliance: Resilient base and stair accessories shall comply with requirements of FloorScore certification.

B. Low-Emitting Materials: Flooring system shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

2.2 THERMOSET-PLASTIC BASE

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Johnsonite; A Tarkett Company – Basis Of Design.
2. Armstrong World Industries, Inc.
3. Flexco.
4. Mondo America Inc.
5. Roppe Corporation, USA.

B. Product Standard: ASTM F 1861, Type TP (thermoplastic rubber), Group I (solid, homogeneous).
1. Style and Location:
   a. Style A, Straight: Provide in areas with carpet.
   b. Style B, Cove: Provide in areas with resilient flooring.

C. Thickness: 0.125 inch (3.2 mm).

D. Height: 4 inches (102 mm).

E. Lengths: Coils in manufacturer's standard length.

F. Outside Corners: Preformed.

G. Inside Corners: Preformed.

H. Colors: As selected by Architect.

2.3 RUBBER STAIR ACCESSORIES

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. Manufacturers: Subject to compliance with requirements, provide Johnsonite ‘Roundel’ color #20 Charcoal or comparable products by one of the following:

   1. Armstrong World Industries, Inc.
   2. Mondo America Inc.
   3. Musson Rubber Co.
   4. Roppe Corporation, USA.

C. Stair Treads: ASTM F 2169.

   1. Type: TS (rubber, vulcanized thermoset).
   2. Class: 2 (pattern; embossed, grooved, or ribbed).
   4. Nosing Style: Square, adjustable to cover angles between 60 and 90 degrees.
   5. Nosing Height: 1-1/2 inches (38 mm).
   6. Thickness: 1/4 inch (6 mm) and tapered to back edge.
   7. Size: Lengths and depths to fit each stair tread in one piece.
   8. Integral Risers: Smooth, flat; in height that fully covers substrate.

2.4 RUBBER MOLDING ACCESSORY

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

   1. Roppe Corporation, USA.
   2. VPI Corporation.
B. Description: Rubber cap for cove carpet edge for glue-down applications, and transition strips.

C. Colors and Patterns: As selected by Architect from full range of industry colors.

2.5 EDGE-PROTECTION AND TRANSITION PROFILES FOR FLOORS

A. Schluter®-SCHIENE
   1. Description: L-shaped profile with 1/8 inch (3.2 mm) wide visible surface integrated trapezoid-perforated anchoring leg, and integrated grout joint spacer.
   2. Material and Finish: Stainless Steel Type 304 V2A
   3. Height: as required.

2.6 INSTALLATION MATERIALS

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

B. Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.
   1. Adhesives shall have a VOC content of 50 g/L or less except that adhesive for rubber stair treads shall have a VOC content of 60 g/L or less.
   2. Adhesives shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

C. Stair-Tread Nose Filler: Two-part epoxy compound recommended by resilient stair-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 flooring, and in maximum available lengths to minimize running joints.

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.
   1. 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.

B. Proceed with installation only after unsatisfactory conditions have been corrected.
   1. Installation of resilient products indicates acceptance of surfaces and conditions.
3.2 PREPARATION

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

B. Concrete Substrates for Resilient Stair Accessories: Prepare horizontal surfaces 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. Proceed with installation only after substrate alkalinity falls within range on pH scale recommended by manufacturer in writing, but not less than 5 or more than 9 pH.
   4. Moisture Testing: Proceed with installation only after substrates pass testing according to manufacturer's written recommendations, but not less stringent than the following:
      a. Perform anhydrous calcium chloride test according to ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours.

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

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

E. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient products.

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 practical 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.

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.

C. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of floor covering that would otherwise be exposed.

3.5 CLEANING AND PROTECTION

A. Comply with manufacturer's written instructions for cleaning and protecting 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 horizontal surfaces thoroughly.
   3. Damp-mop horizontal 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 subject to wear and foot traffic until Substantial Completion.

END OF SECTION