Purchasing Office

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ADDENDUM

July 29, 2019

ADDENDUM #4

Bid 19C14, Rock Creek School Replacement Project <u>REVISED DUE DATE & TIME:</u> FCPS Main Lobby, Wednesday, August 7, 2019, prior to and time stamped no later than 2:00 P.M.

This addendum is being issued to provide additions, corrections, clarifications and answers to certain questions raised referencing the original bid packages and any resultant contracts for the above bid.

- 1. Question: In Addendum #1 under Preparation of Bid, C. it states bidder must submit one original proposal, then on Page 2 of the Pre-Bid Meeting Notes, it states to make sure your bid submission includes "one (1) original and one (1) copy of Bid Form of Proposals". Will you please clarify how many copies of the proposal must be submitted please? Answer: Only one original proposal is required to be submitted.
- 2. This Addendum includes the following attachment(s):
 - a. Dustin Construction, Inc. Addendum #4 (354 pages)

Thank you for your interest in bidding with Frederick County Public Schools and we apologize for any inconvenience this may have caused.

Sincerely,

Kim Miskell

Kim Miskell, CSBO, Assistant Purchasing Manager

km/ab

pc: Brian Staiger, Senior Project Manager, Construction Management John Pickett, Dustin Construction Kori Purdum, Proffitt & Associates

Rock Creek School Replacement Frederick County Public Schools FCPS Bid #19C14



To: All Plan Holders

Project: Rock Creek School Replacement

Walkersville, Maryland

Re: Addendum #4

Ladies and Gentleman:

Enclosed herein, please find Addendum #4, dated 7/25/19.

To the Contract Drawings and Specifications for the referenced project as stated below, as prepared by Proffitt & Associates Architects, PC in conjunction with Dustin Construction Inc., this addendum includes changes and clarifications to the Contract Documents as follows:

Item:		Pages
1.	Proffitt & Associates Addendum #4	43
2.	Pre-Bid RFI Log	12
3.	Pre-Bid RFI Responses	240
4.	Revised General Scope R2	16
5.	Revised 02A Specific Scope R2	14
6.	Revised 03A Specific Scope R1	6
7.	Revised 04A Specific Scope R1	5
8.	Revised 05A Specific Scope R1	4
9.	Revised 06A Specific Scope R2	12
10.	Revised Detail Scope Assignment Pg.3 R1	1

Including this cover, Addendum #4 consists of three hundred fifty-four (354) pages. Advise this office at once if any attachments are missing.

Enclosures:

Addendum #4

cc. Brian Staiger – Frederick County Public Schools
Kim Miskell – Frederick County Public Schools
Donna Rosano – Proffitt & Associates
Kori Matheis – Proffitt & Associates
Matt Evans – Dustin
John Pickett – Dustin
Lloyd Hill – Dustin
File



ADDENDUM NO. 4

To Drawings and Specifications for

Rock Creek School

Replacement Project

Frederick County Public Schools

Bid #19C14

25 July 2019

INTRODUCTION:

This Addendum is issued for the purposes of amending the requirements of the drawings and specifications dated July 1, 2019, and is made a part of the Bidding Documents to the same extent as though it was included therein.

PREVIOUS ADDENDA:

Addendum #01, dated July 9, 2019 Addendum #02, dated July 15, 2019 Addendum #03, dated July 22, 2019

INDEX:

- A. SPECIFICATIONS
- **B. CIVIL DRAWINGS**
- C. STRUCTURAL DRAWINGS
- D. MECHANICAL DRAWINGS
- E. ELECTRICAL DRAWINGS

ATTACHMENTS:

- New specification section 05 21 00 STRUCTURAL STEEL FRAMING
- Revised Drawing, S101D FOUNDATION AND FIRST FLOOR PLAN AREA D, dated July 25, 2019
- Revised Drawing, S102D ROOF FRAMING PLAN AREA D, dated July 25, 2019
- Revised Drawing, S104 PARK AND REC ALTERNATE PLAN (ALTERNATE #1), dated July 25, 2019
- Revised Drawing, M201B FIRST FLOOR PLAN AREA B, dated July 25, 2019
- Revised Drawing, M201D FIRST FLOOR PLAN AREA D, dated July 25, 2019
- Revised Drawing, E501 SCHEMATIC POWER RISER DIAGRAM, dated July 25, 2019
- Revised Drawing, E704 PANELBOARD SCHEDULES, dated July 25, 2019
- Revised Drawing, E705 PANELBOARD SCHEDULES, dated July 25, 2019

Project No: 17-22

- Revised Drawing, C-3B SITE PLAN, dated July 25, 2019
- Revised Drawing, C-3C SITE PLAN, dated July 25, 2019
- Revised Drawing, C-3D SITE PLAN, dated July 25, 2019
- Revised Drawing, C-3E SITE PLAN, dated July 25, 2019
- Revised Drawing, C-3F ALTERNATE PLAN, dated July 25, 2019
- Revised Drawing, C-3G SITE DETAILS, dated July 25, 2019
- Revised Drawing, C-3J SITE DETAILS, dated July 25, 2019
- Revised Drawing, C-3Q SEWER PROFILES, dated July 25, 2019
- Revised Drawing, C-3S WATERLINE PROFILES, dated July 25, 2019
- Revised Drawing, C-3T WATERLINE PROFILES, dated July 25, 2019
- Revised Drawing, C-3U WALL PROFILES, dated July 25, 2019
- Revised Drawing, C-4B GRADING AND STORMWATER MANAGEMENT PLAN, dated July 25, 2019
- Revised Drawing, C-4C GRADING AND STORMWATER MANAGEMENT PLAN, dated July 25, 2019
- Revised Drawing, C-4D GRADING AND STORMWATER MANAGEMENT PLAN, dated July 25, 2019
- Revised Drawing, C-4E GRADING AND STORMWATER MANAGEMENT PLAN, dated July 25, 2019
- Revised Drawing, C-4F STORM DRAIN PROFILES, dated July 25, 2019
- Revised Drawing, C-4G STORM DRAIN PROFILES, dated July 25, 2019
- Revised Drawing, C-4K STORM DRAIN PROFILES, dated July 25, 2019
- Revised Drawing, C-4Y STORM DRAIN PROFILES, dated July 25, 2019

A. SPECIFICATIONS

1. SECTION 11 73 00 - PATIENT CARE EQUIPMENT

REVISE – REVISE paragraph 2.2.B.2 – Aquatics 400 (3 separate lift systems) – Model 2805 should now read **Model 2800**

REVISE – REVISE paragraph 2.2.C.1 – All individual Classroom Toilet Rooms **in the base bid –** Model 2800

ADD – ADD paragraph 2.2.C.2 – All individual Classroom Toilet Rooms in Alternate #4 – Model 2800

DELETE – DELETE paragraph 2.2.F.4 – **SUREHANDS Slings**

ADD - ADD paragraph 2.2.H.13 - Quantity - base bid = 16 units, alternates = 3 units.

2. SECTION 05 21 00 - STRUCTURAL STEEL FRAMING

ADD – ADD complete specification 05 21 00 – Structural Steel Framing.

3. SECTION 33 41 00 - STORM DRAINAGE

ADD – ADD paragraph 2.1.G – HP Storm: ADS HP Storm (Polypropylene Pipe)

Pipe Joints: All joints must meet ASTM 3212 and meet ASTM F1417 as field-tested.

ADD – ADD paragraph 3.3.G-HP Storm: Install in accordance with manufacturer's recommendations.

B. CIVIL DRAWINGS

1. C-3B - SITE PLAN

REVISE – entire sheet in response to RFI's

Project No: 17-22

2. C-3C - SITE PLAN

REVISE – entire sheet in response to RFI's

3. C-3D - SITE PLAN

REVISE – entire sheet in response to RFI's

4. C-3E - SITE PLAN

REVISE – entire sheet in response to RFI's

5. C-3F - ALTERNATE PLAN

REVISE – entire sheet in response to RFI's

6. C-3G - SITE DETAILS

REVISE – Mulched Play Are Underdrain detail

7. C-3J - SITE DETAILS

REVISE – entire sheet in response to RFI's

8. C-3Q - SEWER PROFILES

REVISE – entire sheet in response to RFI's

9. C-3S - WATERLINE PROFILES

REVISE – matchline to C-3T

10. C-3T - WATERLINE PROFILES

REVISE – matchline to C-3S

11. C-3U - WALL PROFILES

REVISE – entire sheet in response to RFI's

12. C-4B - GRADING AND STORMWATER MANAGEMENT PLAN

REVISE – entire sheet in response to RFI's

13. C-4C - GRADING AND STORMWATER MANAGEMENT PLAN

REVISE – entire sheet in response to RFI's

14. C-4D - GRADING AND STORMWATER MANAGEMENT PLAN

REVISE – entire sheet in response to RFI's

15. C-4E - GRADING AND STORMWATER MANAGEMENT PLAN

REVISE – entire sheet in response to RFI's

16. C-4F - STORM DRAIN PROFILES

REVISE – profile

17. C-4G - STORM DRAIN PROFILES

REVISE – profile

18. C-4K - STORM DRAIN PROFILES

REVISE – SWM profile Courtyard to SWM-6

19. C-4Y - STORM DRAIN PROFILES

REVISE – SWM profile SWM-20 to I-17

C. STRUCTURAL DRAWINGS

1. S101D - FOUNDATION AND FIRST FLOOR PLAN - AREA D

CLARIFY – Lintel locations at Gymnasium

2. S102D - ROOF FRAMING PLAN - AREA D

CLARIFY – Lintel locations at Gymnasium

3. S104 - PARK AND REC ALTERNATE PLAN (ALTERNATE #1)

CLARIFY – Lintel locations at Gymnasium

D. MECHANICAL DRAWINGS

1. M201B - FIRST FLOOR PLAN - AREA B

ADD – ADD Smoke damper to 10" round and 18"x10" supply duct serving corridor 012 from FCU.2.13

2. M201D - FIRST FLOOR PLAN - AREA D

ADD – ADD Drawing note 32: 14"x14" OED W/1/2" MESH BIRDSCREEN.

E. ELECTRICAL DRAWINGS

1. E501 - SCHEMATIC POWER RISER DIAGRAM

REVISE - Circuit breakers associated with generator to inside of unit.

ADD - Separate C/T, meter, and fire pump disconnect as shown on E501.

2. E704 - PANELBOARD SCHEDULES

ADD – Circuit LD-38; "SPD" (4) #10 + #10GW – $\frac{3}{4}$ "C.

3. E705 - PANELBOARD SCHEDULES

ADD – Panelboard MD in its entirety.

- END OF ADDENDUM #4 -

SECTION 05 12 00 STRUCTURAL STEEL FRAMING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections apply to this section.

1.2 SECTION INCLUDES

A. Structural Metals.

1.3 RELATED WORK

- A. Remaining metal work covered by Division 5.
- B. Concrete construction for the project is included in other subcontracts. Coordinate all details of structural metal fabrication and erection with the work of other Contractors.

1.4 QUALITY ASSURANCE

- A. Fabricator/Erector's Qualifications: Must have facilities and personnel sufficient to fabricate and erect structural metal framing as indicated on drawings; must be AISC certified contractor, must have minimum of 5 years' experience only and be able, upon request, to show framing of similar size materials and scope of work of this contract; must be approved by the Structural Engineer.
- B. Material: Provide only structural steel certified as conforming with specified requirements and fabricated especially to the requirements of this contract.
- C. Tolerances: Unless otherwise noted on drawings or specified, provide structural steel work in accordance with the following minimum tolerances:
 - 1. Fabrication Tolerances: In accordance with requirements of AISC Specifications.
 - 2. Erection Tolerances: Maximum deviation from plumb level and alignment shall not exceed AISC Specifications.
- D. Inspection: All tests and inspections required for shop and field quality control shall be performed by an inspection agency.
- E. Welders: Certified and qualified in accordance with requirements of the American Welding Society, for the particular materials and methods being used. The welder's certification papers shall be available on the first trip by the inspector.
- F. Welding Materials and Methods: For fabrication and erection shall be in accordance with the requirements of the American Welding Society.
- G. Codes and Standards: Comply with provisions of following, except as otherwise indicated:
 - 1. AISC "Code of Standard Practice for Steel Buildings and Bridges".

- 2. AISC "Specifications for the Design, Fabrications, and Erection of Structural Steel for Buildings" includes "Commentary" and Supplements thereto as issued.
- 3. AISC "Specifications for Architecturally Exposed Structural Steel.
- 4. AISC "Specifications for Structural Joints using ASTM A-325 or A-490 Bolts" approved by the Research Council on Riveted and Bolted Structural Joints of the Engineering Foundation.
- 5. American Welding Society (AWS) D1.1 "Structural Welding Code Steel".
- 6. ASTM A-6 "General Requirements for Delivery of Rolled Steel Plates, Shapes, Sheet Piling and Bars for Structural Use".

1.5 REFERENCES

- A. American Society for Testing and Materials (ASTM).
- B. American Institute of Steel Construction (AISC): "Manual of Steel Construction" 14th Edition.
- C. Steel Structures Paint Council (SSPC): "Steel Structures Paint Manual, Volume 1 and Volume 2, Systems and Specifications, by Steel Structures Painting Council.

1.6 SUBMITTALS

- A. Shop Drawings: Submit prior to commencing any fabrication of structural metal; show dimensions, connections with adjoining materials and construction, finishes, welds, bolts, and fasteners, anchoring all fabrication or erection accessories required; show field welds, cuts, holes and fasteners; verify all dimensions and correlate with adjoining construction and materials; indicate size, type and grade of all members.
 - Prior to the commencement of steel erection, the erector shall carefully inspect all anchor bolts and leveling plates installed under other subcontracts and shall notify the general contractor of defects. If the anchor bolt, leveling plate and base plate placement are acceptable to him he shall notify the general contractor of the same and proceed with erection of the structural steel.
 - 2. The approval of the shop drawings is limited to design intent only. No responsibility for a detailed check of member length, size, spacing, or similar detail information is assumed by the Structural Engineer by virtue of such approval.
- B. Shop drawings shall not be a reproduction of the contract drawings. Corrections or revisions to the shop drawings required to coordinate them with the contract documents and other shop drawings shall be made at no additional cost. Please note that the Contract Documents in CADD format will not be made available to the contractor for their use in the preparation of the shop drawings, unless a release is signed.
- C. All steel connection design shall be completed by a design professional hired by the construction manager, and satisfy the load requirements specified in the contract documents. Prior to submission of steel shop drawings, the steel fabricator shall submit sample calculations (prepared by a registered structural engineer in the state of Maryland) for all typical beam to beam and beam to column connections, which are proposed to be used on this project. After these typical calculations and connections are accepted, the fabricator shall prepare and submit the shop drawings for this project. Only these typical sample calculations are required to be sealed by a registered structural engineer. The material necessary for the fabrication of all connections shall be the responsibility of the contractor.
- D. Submit for review, before installation, information on the studs (shear connectors) and

equipment as follows:

- 1. The name of the manufacturer.
- 2. A detailed description of the stud, or shield and welding equipment.
- 3. A certification from the manufacturer that the stud is qualified as specified in AWS D1.1.
- 4. A copy of the qualification test report as certified by his testing agency.
- E. Mill test reports see paragraph 3.4.A.
- F. LEED Submittals: Comply with Section 018113
 - 1. MR Credit: BPDO Environmental Product Declarations
 - a. For steel: Industry-wide or product-specific EPD.
 - 2. MR Credit: BPDO Sourcing of Raw Materials
 - a. For recycled content steel: Documentation indicating percentages by weight of preconsumer and post-consumer recycled content. Include material cost value.
 - b. For regionally sourced steel: Documentation indicating location of extraction, manufacture, purchase of primary raw materials. Include material cost value.

1.7 PRODUCT HANDLING AND STORAGE

- A. Deliver to the project site materials to be installed by other construction managers in time to be installed before the start of work by trade affected. Specifically, anchor bolts and other anchorage devices, which are embedded in cast-in-place concrete or masonry construction. Provide setting drawings, templates, and directions for the installation of the anchor bolts and other devices.
- B. Store all steel in such manner as to prevent distortion to the members and injury to the paint, and supported free from the ground and kept clean. Where shop coat becomes damaged during handling, touch up paint. In the event that the shop coat of paint is damaged or rusted due to storage, repaint steel prior to erection with same paint used as shop coat.

PART 2 - PRODUCTS

2.0 LEED REQUIREMENTS

- A. Recycled Content: Provide W-shape, channel and angle shapes steel with minimum 90 percent total recycled content including at least 60 percent post-consumer recycled content, except as follows:
 - 1. Plate and Bar: Minimum 30 percent total recycled content.
 - 2. Cold-Formed Hollow Structural Sections: Minimum 30 percent total recycled content.
 - 3. Steel Pipe: Minimum 30 percent total recycled content.
 - 4. All other Steel Materials: Minimum 30 percent total recycled content.
- B. Regional Materials: Provide minimum 25 percent of steel manufactured and of primary raw materials extracted or recovered within 100 mile radius of Project Site.

2.1 MATERIALS

A. All structural steel including wide flange shapes, tubes, pipes, angles, bars, plates, channels, bolts, studs, etc shall be from stock of domestic origin, and shall meet all of the requirements of the "Maryland Buy American Steel Act".

- B. Plates, Angles, Channels, Bars, and rolled S, M, and HP shapes: ASTM A-36.
- C. Rolled Wide Flange Shapes: ASTM A-992, Grade 50.
- D. Cold-Formed Steel Tubing: ASTM A-500, Grade B.
- E. Hot-Formed Steel Tubing: ASTM A-50l.
- F. Steel Pipe: ASTM A-53, Type E or S, Grade B.
- G. Anchor Bolts:
 - ASTM F-1554 (hooked, headed, and threaded & nutted anchor rods including weldability supplement S1 conforming to grades 36 and 105). See Contract Drawings for requirements.
- H. Bolts & Nuts:
 - 1. High-Strength Bolts, Nuts, and Washers: ASTM A-325 bolts, with ASTM A-563 nuts and ASTM F-436 washers.
 - 2. Tension Control Fastening System (conforming to ASTM F 1852) utilizing ASTM A-325 tension control bolts, nuts, and washers as manufactured by Unytite or approved equal.
- J. Electrodes for Welding: Comply with AWS Code.
 - Covered mild steel electrodes complying with AWS Code and ASTM A-233, Series E70.
 Use E70 Series, Grade SAW-1 for welding ASTM A-36 steel. Use E70 Low Hydrogen
 Series, Grade SAW-2 for welding ASTM A-992, Grade 50 steel.
 - 2. All electrodes having low hydrogen type coverings shall be dried for at least 2 hours between 450 degrees F. and 500 degrees F. before they are used. Electrodes may be stored immediately after drying in storage ovens held at a temperature of at least 250 degrees F. Electrodes that are not used within 4 hours after removal from a drying or storage oven shall be redried before use. Electrodes which have been wet shall not be used.
- L. Structural Steel Primer Paint: Use one of the following:
 - 1. Steel Located Interior of Exterior Building Walls not receiving fireproofing:
 - a. Description
 - 1) Short oil alkyd or modified alkyd
 - 2) Surface Preparation: SSPC SP-3 or SSPC SP-2.
 - b. Acceptable Manufacturers and Products:
 - 1) Carboline Company, St. Louis, MO: Carbocoat 115, at 1.5 to 2.0 mils dry film thickness.
 - 2) InsulX, Montvale, NJ: Corotech V130 Series Quick Dry Alkyd Metal Primer, at 1.9 to 2.1 mils dry film thickness.
 - 3) International Protective Coatings, Houston, TX: Interprime 140, at 1.4 to 1.8 mils dry film thickness.
 - 4) PPG Paints, Pittsburgh, PA: MetalCase 85 7-852 Series Alkyd Rust Inhibitive Metal Primer, at 2.1 to 2.5 mils dry film thickness.
 - 5) Tnemec Company, North Kansas City, MO: Series 88HS Azeron HS Primer, at

2.0 to 3.5 mils dry film thickness.

- 2. Steel Located within Exterior Building Walls or in Exterior Enclosures Outside of Exterior Walls not receiving fireproofing.
 - a. Description:
 - 1) Polyamide epoxy, cycloaliphatic amine epoxy, or aromatic polyurethane mio-zinc filled.
 - 2) Surface Preparation: SSPC SP-3 or SSPC SP-2.
 - b. Acceptable Manufacturers and Products:
 - 1) Carboline Company, St. Louis, MO: Carboguard 890, at 6 to 8 mils dry film thickness.
 - 2) E.I. DuPont deNemours and Company, Wilmington, DE: Corlar® 2.1 PR-P™ Productive Epoxy Primer, at 3 to 5 mils dry film thichness.
 - 3) InsulIX, Montvale, NJ: Corotech V160 Series Epoxy Mastic Coating, at 4.6 to 7.2 mils dry film thickness.
 - 4) International Protective Coatings, Houston, TX: Inerplus 880, at 3 to 5 mils dry film thickness.
 - 5) PPG Paints, Pittsburgh, PA: Pitt-Guard 97-145 Series Polyamide Epoxy Mastic Coating, at 4 to 7 mils dry film thickness.
 - 6) Tnemec Company, North Kansas City, MO: Series 394 PerimePrime, at 2.5 to 3.5 mils dry film thickness.
- K. Structural Steel Protective Coating: All structural steel exposed to the weather or embedded in exterior masonry walls shall be hot-dip galvanized in accordance with ASTM A123-84.
- L. Non-Shrink Grout: CRD C-588, factory pre-mixed grout. Products are subject to compliance with requirements, provide one of the following Type D, Non-metallic grouts:
 - 1. "Masterflow 713"; Master Builders
 - 2. "Sonogrout"; Sonneborn Contect.
 - 3. "Euco-NS"; Euclid Chemical Company.
 - 4. "Five Star Grout"; U.S. Grout Company
 - 5. "Duragrout"; L & M Construction Chemical Company
- M. Diamond Steel Plate by Lucas or approved equal.

2.2 FABRICATION

- A. General: Fabricate items of structural steel in accordance with AISC Specifications and as indicated on the final shop drawings. Properly mark and matchmark all materials for field assembly. Fabricate for delivery sequence which will expedite erection and minimize field handling. Provide camber in structural members where indicated.
- B. Temporary Field Connections: Temporary erection connections shall consist of at least one clip angle and two 3/4" diameter bolts, remote from or compatible with the field welded connections. The Contractor shall be responsible for the design, function and use of all temporary erection connections. Remove temporary connections if they interfere with architectural finishes.
- C. Permanent Field Connections: High-strength bolts, for use in permanent slip-critical or bearing type connections with threads in shear planes, shall conform to ASTM A-325.

- Shear web connections: "Double angle connections" as described in Table 10-1, 10-2, & 10-3 of AISC Steel Construction Manual, 14th Edition, with shop welds and permanent field high strength bolts. However, in no case shall the shear web connections be designed for less than the beam reactions shown in paragraphs 2.2.C.5 below, or as shown on the contract documents.
- 2. Single angle connections may be used in the webs of beams, provided that the connection is designed for the eccentric load, except as otherwise noted on the drawings.
- 3. Connections: Made with at least 3/4" diameter high strength bolts in slip-critical, pretension, or snug-tightened connections with threads in shear planes. All high-strength bolts shall be installed in accordance with Section 8.1 for snug-tightened connections, and section 8.2 for pre-tensioned and slip-critical connections of the AISC Specifications for Structural Joints Using ASTM A-325 or A-490 bolts, as approved by the Research Council on Structural Connections dated 06/30/2004. At all slip-critical connections, faying surfaces shall meet the requirements of section 3.2.2. All pre-tensioned bolts shall be twist-off type tension control bolt assemblies.
- 4. Unless otherwise specified in the contract documents, all beam, joist, joist girder and column connections shall be as follows:
 - a. Beam to Beam Connections: Snug-tightened joints.
 - b. Beam to Column Connections: Snug-tightened joints.
 - c. Joist and Joist Girder to Column Connections: Snug-tightened joints.
 - d. Connections Subjected to Stress Reversal Conditions (Braced Frames, Moment Frames, etc.):
 - 1) Bolts In Standard Holes: Pre-tensioned joints.
 - 2) Bolts In Oversized or Slotted Holes: Slip-critical joints.
- 5. All shear connections shall develop the end reaction (Ultimate LRFD Load) ØbWc/2L, where "ØbWc" is the uniform load constant in kip-foot, and where "L" is the span in feet, as shown in the tables "Uniform Load Constants for Beams" (laterally supported) for given shape and steel specified, AISC Manual of Steel Construction 14th Edition, unless otherwise specified.
- 6. All seated beam connections shall be designed so that the stiffener is clear of the finished ceiling and column encasement. The width of the stiffened seat shall not exceed 9". Beam web stiffeners shall be added as necessary to satisfy web yielding and web crippling code requirements.
- D. Holes for Other Work: Provide holes required for securing other work to structural steel framing and for the passage of other work through steel framing members as indicated. Provide threaded nuts welded to framing, and other specialty items as shown to receive other work.
 - 1. Cut, drill or punch holes perpendicular to metal surfaces. Do not flame cut holes or enlarge holes by burning. Drill holes in bearing plates.

2.3 SHOP PAINTING

- A. General: Shop paint all structural steel work, except members or portions of members to be embedded in concrete, mortar, or sprayed on fireproofing. Paint embedded steel on exposed portions and initial 2" of embedded areas only.
 - 1. Do not paint contact surfaces which are to be welded or high strength bolted.
 - 2. Apply a minimum of 2 coats of paint to surfaces, which are inaccessible after assembly or erection. Change color of second coat to distinguish it from first.

- B. Surface Preparation: After inspection and before shipping, clean steel work to be painted. Remove loose rust, loose mill scale and spatter, slag or flux deposits. Comply with Steel Structures Painting Council (SSPC) as follows:
 - 1. SP-1 "Solvent Cleaning" for removing oil, grease and similar contaminates.
 - 2. SP-2 "Hand Tool Cleaning" for general cleaning.
 - 3. SP-3 "Power Tool Cleaning" for general cleaning.

C. Application:

- Immediately after surface preparation, apply structural steel primer paint in accordance with manufacturer's instructions and at the previously specified rate. Use painting methods which will result in full coverage of joints, corners, edges, and all exposed surfaces
- 2. Provide a one-coat shop applied paint system complying with Steel Structures Painting Council (SSPC)-Paint System Guide No. 7.00.
- 3. Immediately after surface preparation, apply the hot-dip galvanizing in accordance with ASTM A123-84 at the coating weight required by Table 1 to provide a uniform mil dry film thickness of 3.4 mils. Use galvanized methods which will result in full coverage of joints, corners, edges and all exposed surfaces.

PART 3 - EXECUTION

3.1 INSPECTION

A. Erector must examine the areas and conditions under which structural steel work is to be installed including all anchor bolts and leveling plates installed under other contracts, and notify the Owner in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Erector.

3.2 ERECTION

- A. General: Comply with the AISC Specifications and Code of Standard Practice, and as herein specified. Maintain work in a safe and stable condition during erection.
 - 1. Structural steel with finished topcoat paint and galvanized steel shall be handled using nylon slings and wood dunnage to minimize damage.
- B. Anchor Bolts: Furnish anchor bolts and other connectors required for securing structural steel to foundations and other in-place work.
- C. Furnish templates and other devices as necessary for presetting bolts and other anchors to accurate locations.
 - 1. Refer to Division 3 sections for anchor bolts installation in concrete.
- D. Setting Leveling Plates:
 - 1. Clean concrete bearing surfaces and roughen to improve bond. Clean the bottom surface of leveling plates.
 - 2. Set loose leveling plates for structural members on wedges, or other adjusting devices.
 - 3. Tighten anchor bolts after the plates have been positioned and leveled to proper

- elevation. Do not remove wedges or shims, but if protruding, cut off flush with the edge of the base plate prior to packing with grout.
- 4. Pack grout solidly between bearing surfaces and bases or plates to ensure that no voids remain. Finish exposed surfaces, protect installed materials, and allow to cure.
- E. Temporary Shoring and Bracing: Provide, as required, with connections of sufficient strength to bear imposed loads. Remove temporary members and connections when permanent members are in place and final connections are made. Provide temporary guy lines to achieve proper alignment of the structures as erections proceeds.
 - 1. Provide temporary planking and working platforms as necessary to effectively complete the work.
- F. Field Assembly: Set structural members to the lines and elevations indicated. Align and adjust the various members forming a part of a complete frame or structure before permanently fastening. Clean bearing surfaces and other surfaces which will be in permanent contact before assembly. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
 - 1. Splice members only where indicated.
 - 2. Do not enlarge unfair holes in members by burning or by the use of drift pins, except in secondary bracing members. Ream holes that must be enlarged to admit bolts.
 - 3. Do not use gas cutting torches in the field for correcting fabrication errors in the structural framing. Cutting will be permitted only on secondary members which are not under stress as acceptable to the Structural Engineer. Finish gas-cut sections equal to a sheared appearance when permitted.
- G. Contractor shall be responsible for the preparation of the surfaces to which studs are to be attached. Field weld studs (shear connectors) through thickness of galvanized steel floor deck. The stud manufacturer shall have a representative present at the start of work to ensure the proper use of studs and welding equipment. Remove arc shield after stud welding is complete.

H. Touch-Up Painting:

- Immediately after erection, clean field welds, bolted connections, and abraded areas of the shop paint, and paint all exposed areas with the same material as used for shop painting. Apply by brush or spray to provide the minimum dry film thickness as previously specified.
- 2. Steel which is abraded and rusty shall have primer and topcoat reapplied. Steel which is only abraded shall have topcoat reapplied.
- 3. Immediately after erection, clean field welds, bolted connections, and abraded areas of the hot-dip galvanized coating, and coat all exposed areas per ASTM A780-80. Apply coating to provide a minimum dry film thickness of 3.4 mils as previously specified.
- I. Building Plumbness: The Contractor shall hire a registered surveyor to verify that the exterior perimeter structural steel columns have been installed within the tolerances specified by the AISC Commentary to the Code of Standard Practice for Buildings and Bridges Section 7.13.1.1. A report shall be submitted to the architect for approval prior to final acceptance of the work.

3.3 SHOP AND FIELD WELDING

A. Welding: Where structural joints are made by welding, the details of all joints, the technique of welding employed, the appearance and quality of welds made and the methods used in correcting defective work shall conform to requirements of the AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings and the Structural Welding Code D1.1 of the American Welding Society. In addition welds shall be made only by operators who have been previously qualified by tests as prescribed in the Standard Qualification Procedure of the American Welding Society, to perform the type of work required. The Contractor shall pay all costs for the qualification of welders. All welding equipment shall be direct current reverse polarity type.

3.4 INSPECTION AND TESTING

- A. Mill Inspection: The Contractor shall furnish Morabito Consultants, Inc. and the inspection agency a copy of the certified mill test reports of the chemical analysis and physical tests for each member and each beam number.
- B. Shop Inspection: The Owner shall employ an inspection agency approved by the Structural Engineer to inspect the steel in the shop. This inspection shall include the joining of parts, punching, bolting, welding painting, etc. The inspection agency shall submit to the Structural Engineer, prior to the delivery of the steel to the job site, certified reports showing the results of these inspections. The shop inspection shall include the type and manufacturer of the paint used.
- C. Field Inspection: The Owner shall employ an inspection agency approved by the Structural Engineer to inspect the erected steel in the field. This inspection shall include alignment, position of member, bolting, welding, painting, etc. The inspection agency shall also submit to the Structural Engineer, prior to the Contractor's request for payment for the erected steel, certified reports showing results of these inspections.
- D. Costs: The cost of all the tests and inspections are to be borne by the Owner.
- E. Shop Inspection shall include, but is not limited to:
 - 1. Examination of mill certificates in reference to material being fabricated.
 - 2. All welding procedures including certification of welders and electrode identification.
 - 3. All shop connections.
 - 4. Shop preparation for butt welds.
 - 5. Location of all clips, seats, holes and other accessories.
 - 6. Type and quality of shop paint and painting.
- F. Field Inspection shall include, but is not to be limited to:
 - 1. See that all steel is properly stored and protected.
 - 2. Vertical and horizontal alignment of all beams and columns before and after welding.
 - 3. Temporary guying of building.
 - 4. All joints, prior to welding, for required clearances and preparation.
 - 5. Type of material and equipment used to make connections.
 - 6. Preheat requirements due to type of steel and weather conditions.
 - 7. All welded and bolted field connections.
 - 8. Check field touch-up painting prior to covering by architectural materials.
 - 9. Inspection shall mark all connections when they are finally approved.
 - 10. Welding of steel floor deck.
 - 11. Welding of shear connectors (studs).

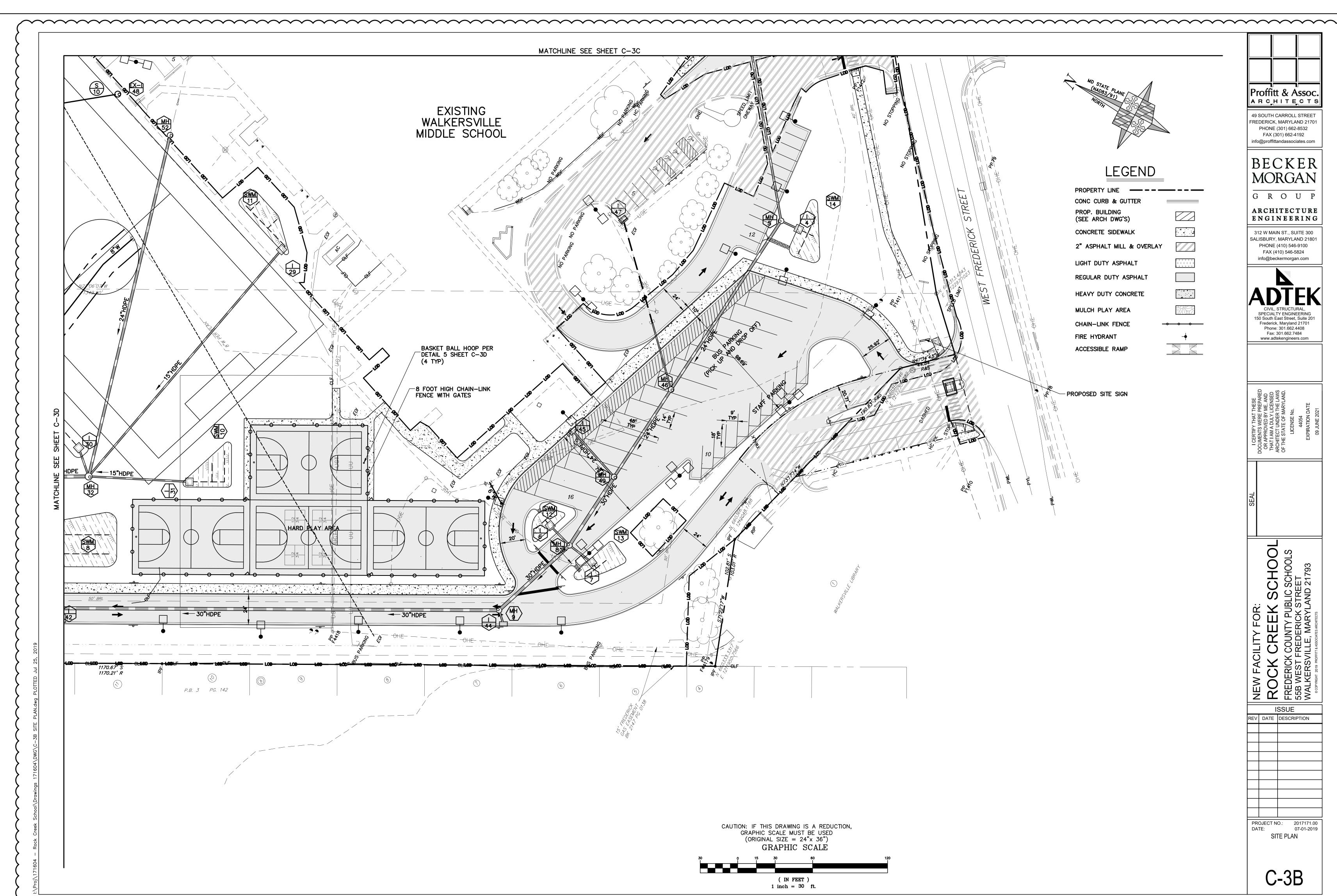
- 12. Welding and/or screwing of steel roof deck.
- 13. Perform visual inspection of all welds.
- 14. Perform tests of welds as follows:
 - Magnetic Particle Inspection: ASTM E-709 and E-45; performed on root pass and on finished weld. Cracks or zones if incomplete fusion or penetration not acceptable.
 - Locations: Partial penetration welds
 - b) Ultrasonic Inspection: ASTM E-164.
 - Locations: Full penetration welds
 - c) Liquid Penetrant Inspection: ASTM E-165 and E-433
 - Locations: Partial penetration welds
 - d) Radiographic Testing: ASTM E-142, E-94, and E-592; minimum quality level "2-2T"
 - Locations: Full penetration welds
- G. Non-Destructive Testing: In addition to the visual inspection as indicated above, ultrasonic testing of all groove welds which are in tension and 25% of all groove welds which are in compression shall be required. The testing shall be done using "Branson" ultrasonic testing equipment, or other approved non-destructive testing systems. If faulty welds are discovered by this testing, costs of any additional tests shall be borne by the Contractor.
- H. Reports: Mill certificates shall be reviewed and approved by the Inspection Agency and Structural Engineer prior to fabrication.
 - 1. Certified shop inspection reports indicating that the steel as fabricated meets all the requirements of the Contract Documents shall be submitted to the Structural Engineer prior to shipment.
 - 2. Certified field reports, indicated that the steel as erected meets all of the requirements of the Contract Documents, shall be submitted to the Structural Engineer prior to starting of other work preventing access for any possible repairs.
- I. Notification: It shall be the responsibility of the Contractor to see that the inspection agency is supplied with a complete set of Contract Drawings and Specifications and approved shop drawings before the work is started. It shall be the Contractor's responsibility to notify the inspection agency before the start of fabrication and before the start of erection of steel, a sufficient time before such work is started in order that the inspector may properly schedule the required inspections. If material is shipped prior to shop inspection, any additional costs of inspection and repair shall be borne by Contractor.

3.5 CONTRACTOR'S RESPONSIBILITY

- A. Acceptance of the shop and field inspection done by the testing agency pertaining to the structural steel does not relieve the Contractor of his responsibility to ensure that the project has the proper sizes, strength, fabrication and erection procedures and any other requirements of the Contract Documents.
- B. If the installed structural steel is not erected in accordance with the contract documents and approved shop drawings, the contractor shall hire a professional engineer registered in the state of the project to prepare corrective calculations and details which shall be submitted to the engineer for approval prior to completing any corrections in the field. All costs incurred by the contractor to complete this corrective design and field repairs shall be paid by the contractor.

- C. Submit copies of all reports indicating conformance and exceptions to contract documents in a timely fashion to Construction Manager for distribution to design consultants, owner, subcontractors and other interested parties.
- D. Final Report: The Inspection Agency shall prepare a written report that summarizes the work inspected during the course of the project, and certifies that the work meets the requirements of the contract documents, specifications, and all governing agencies.

 END OF SECTION 05 12 00



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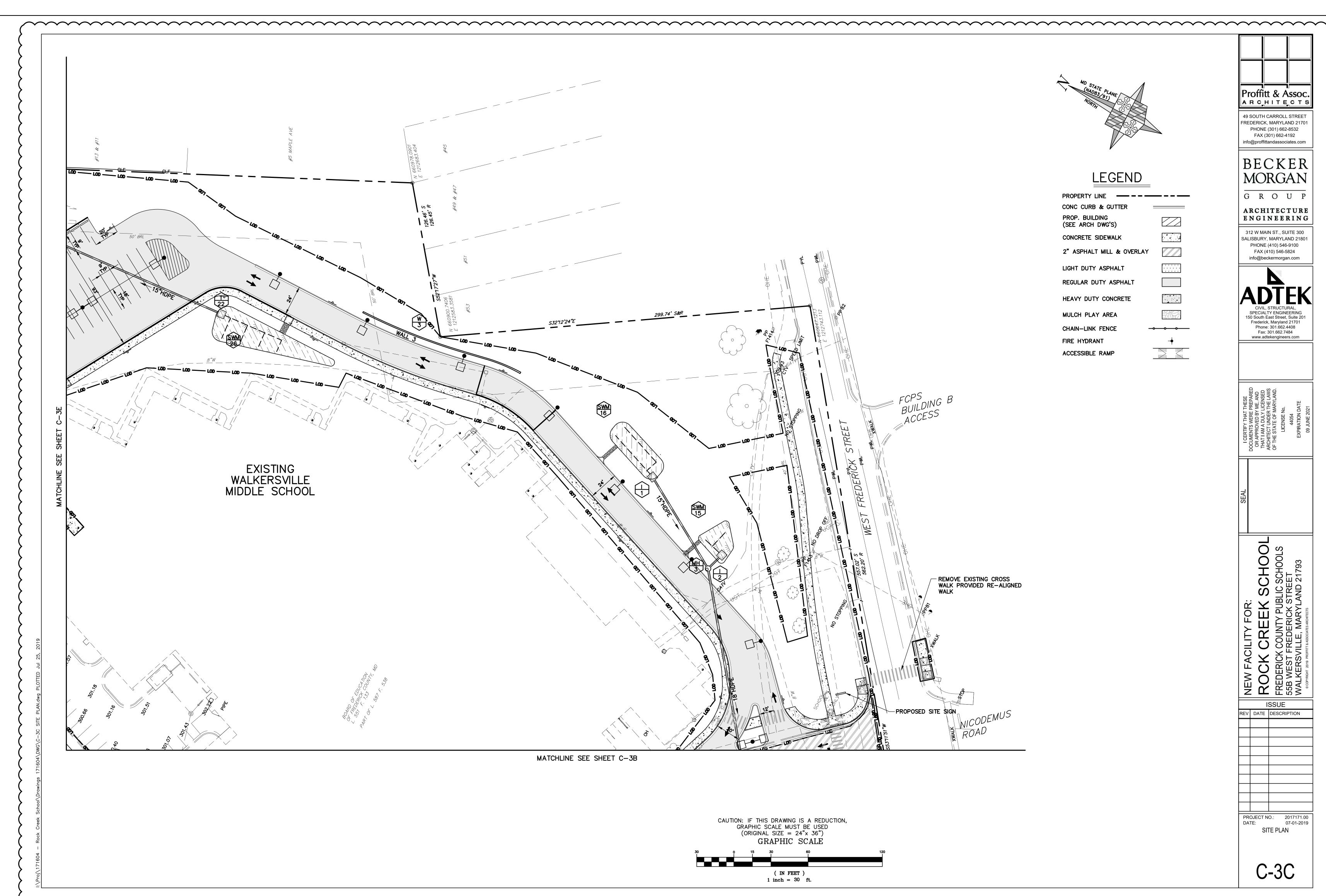
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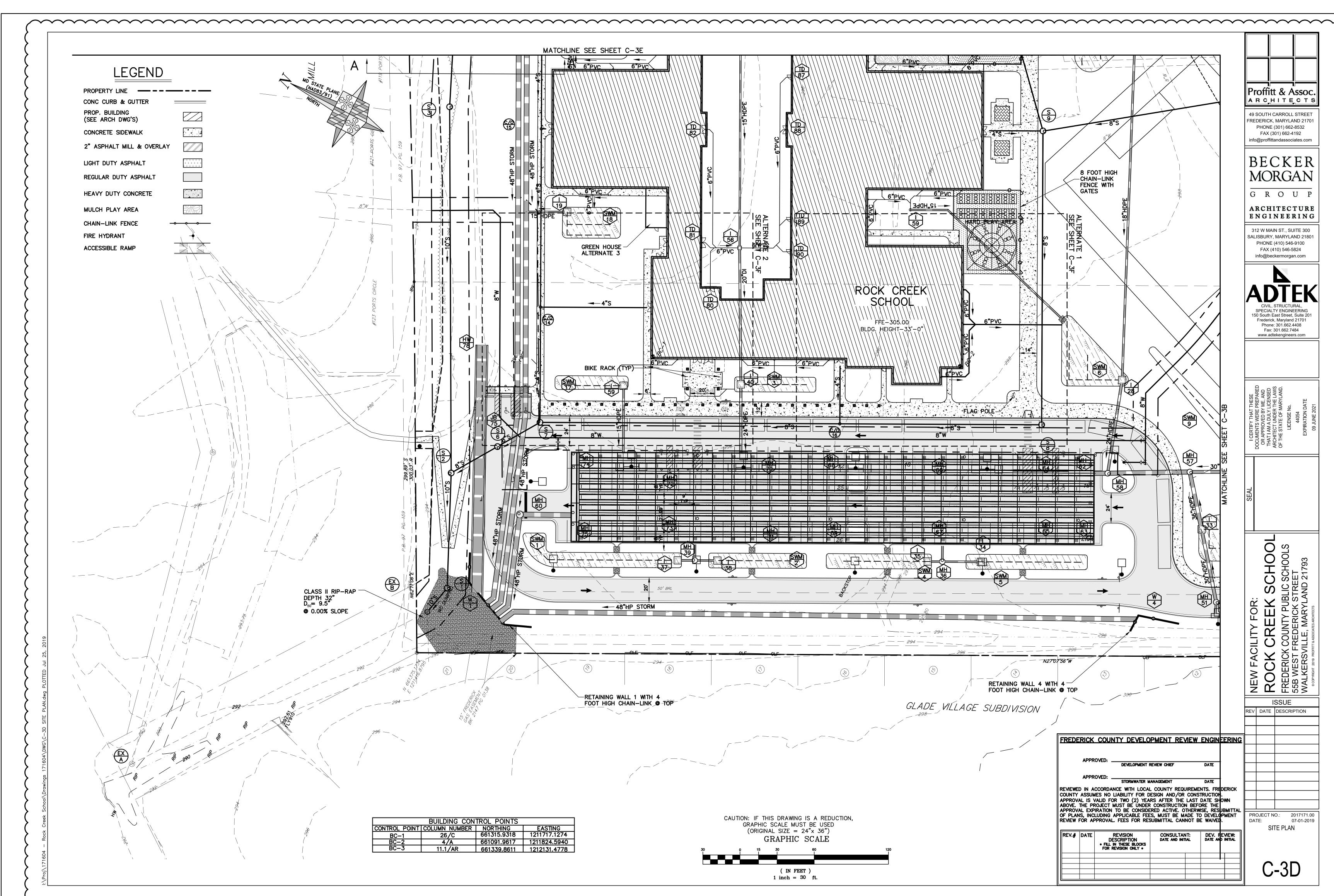
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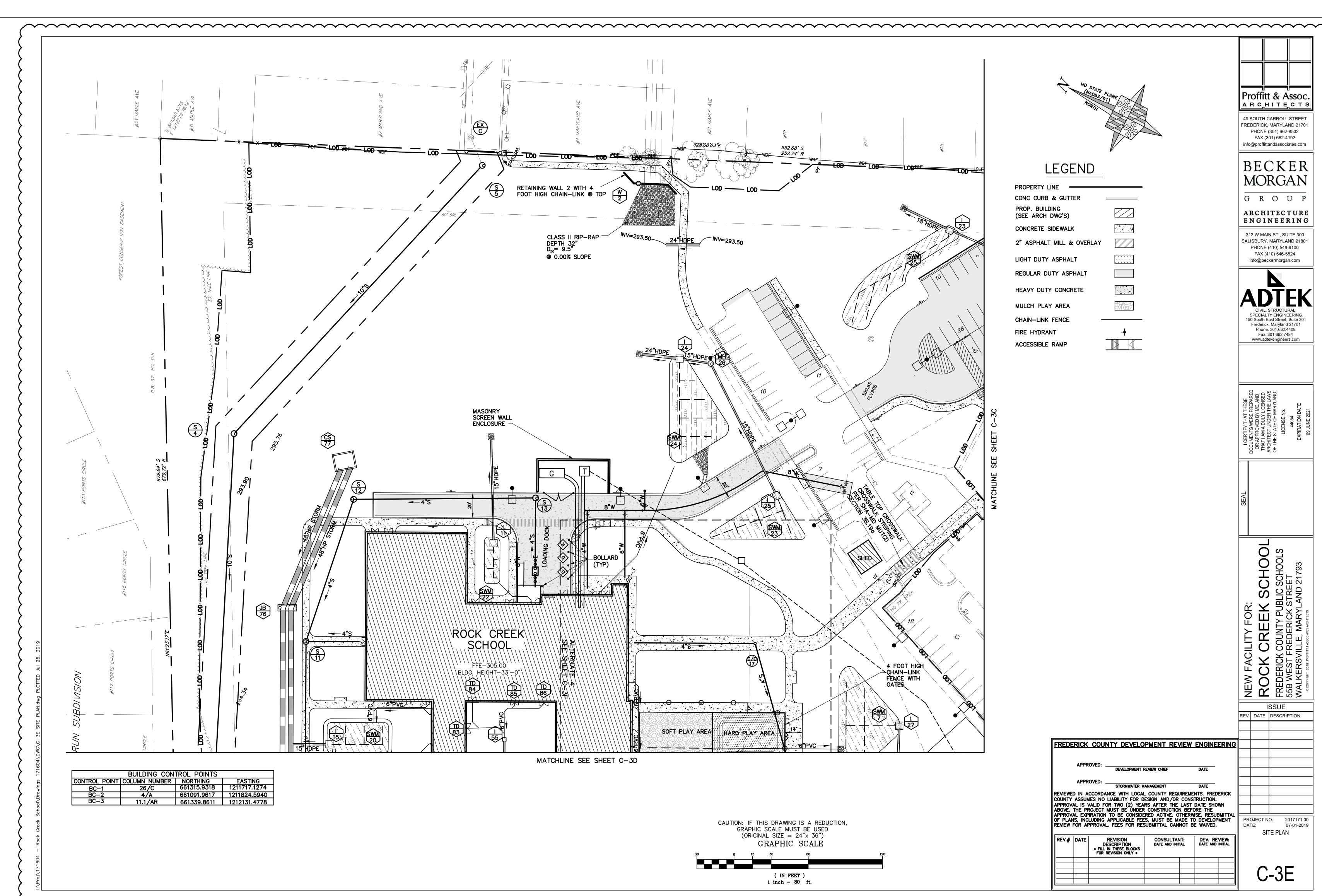
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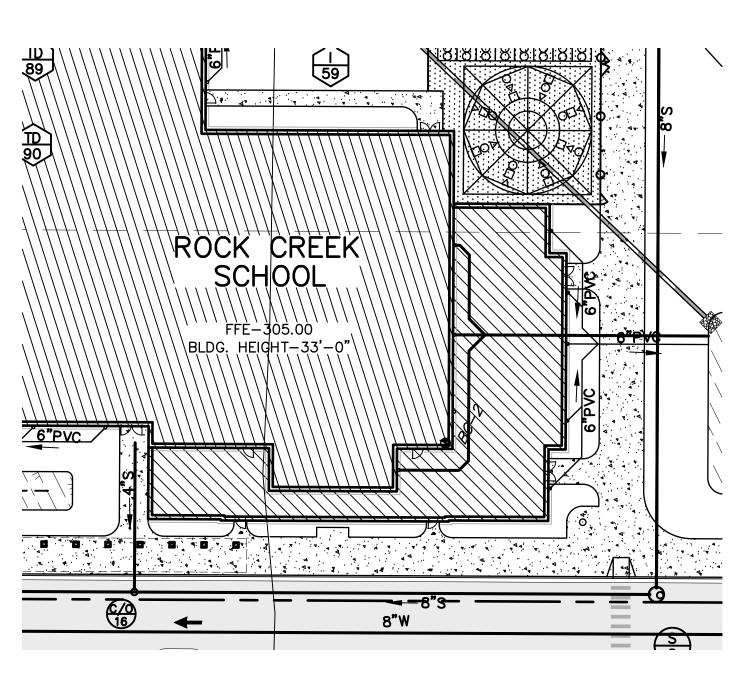
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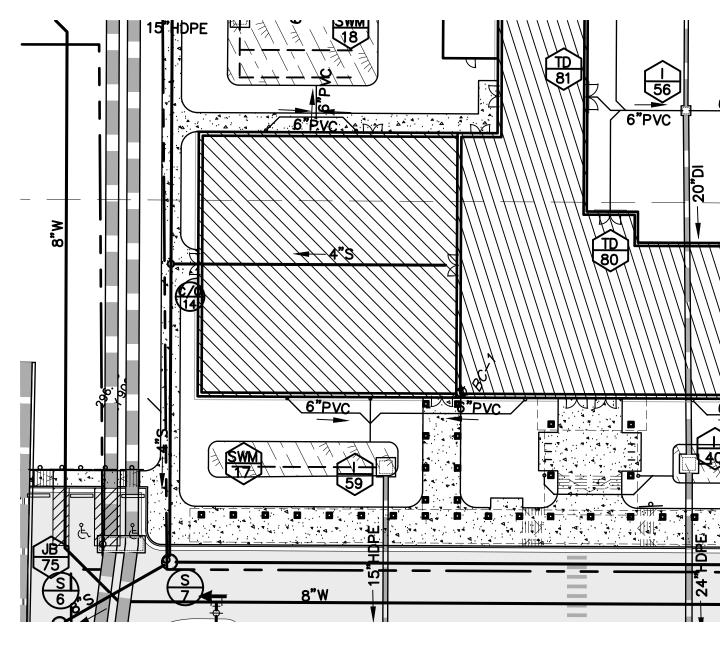
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CAUTION: IF THIS DRAWING IS A REDUCTION, GRAPHIC SCALE MUST BE USED

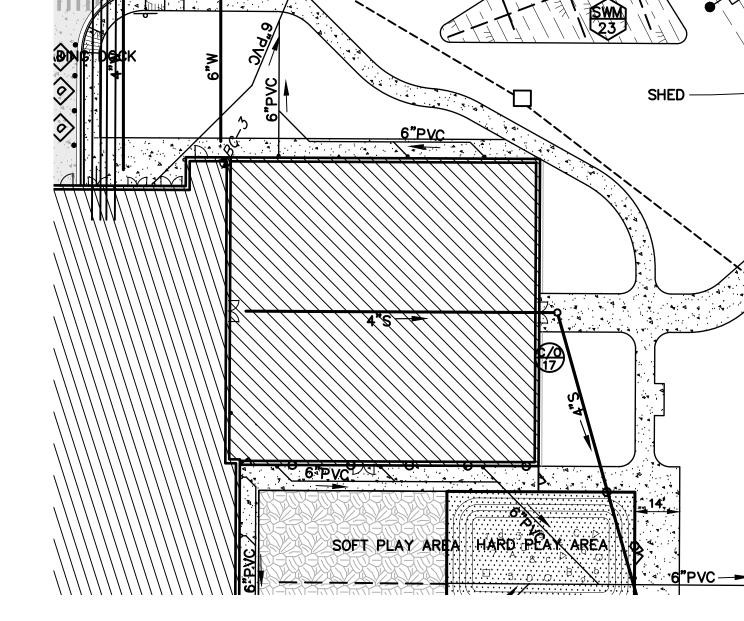
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GRAPHIC SCALE

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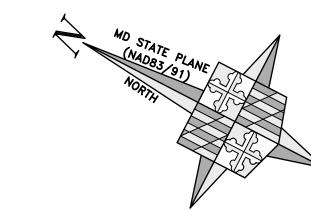


ALTERNATE 2 ALTERNATIVE WING SCALE 1"=30'



ALTERNATE 4 MIDDLE SCHOOL WING

SCALE 1"=30'



CONC CURB & GUTTER PROP. BUILDING (SEE ARCH DWG'S) CONCRETE SIDEWALK 2" ASPHALT MILL & OVERLAY LIGHT DUTY ASPHALT REGULAR DUTY ASPHALT HEAVY DUTY CONCRETE MULCH PLAY AREA CHAIN-LINK FENCE FIRE HYDRANT

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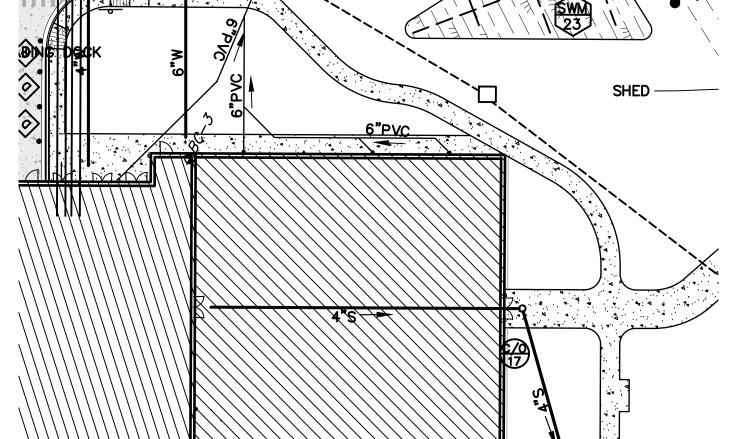
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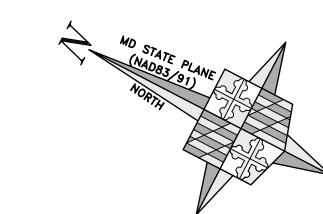
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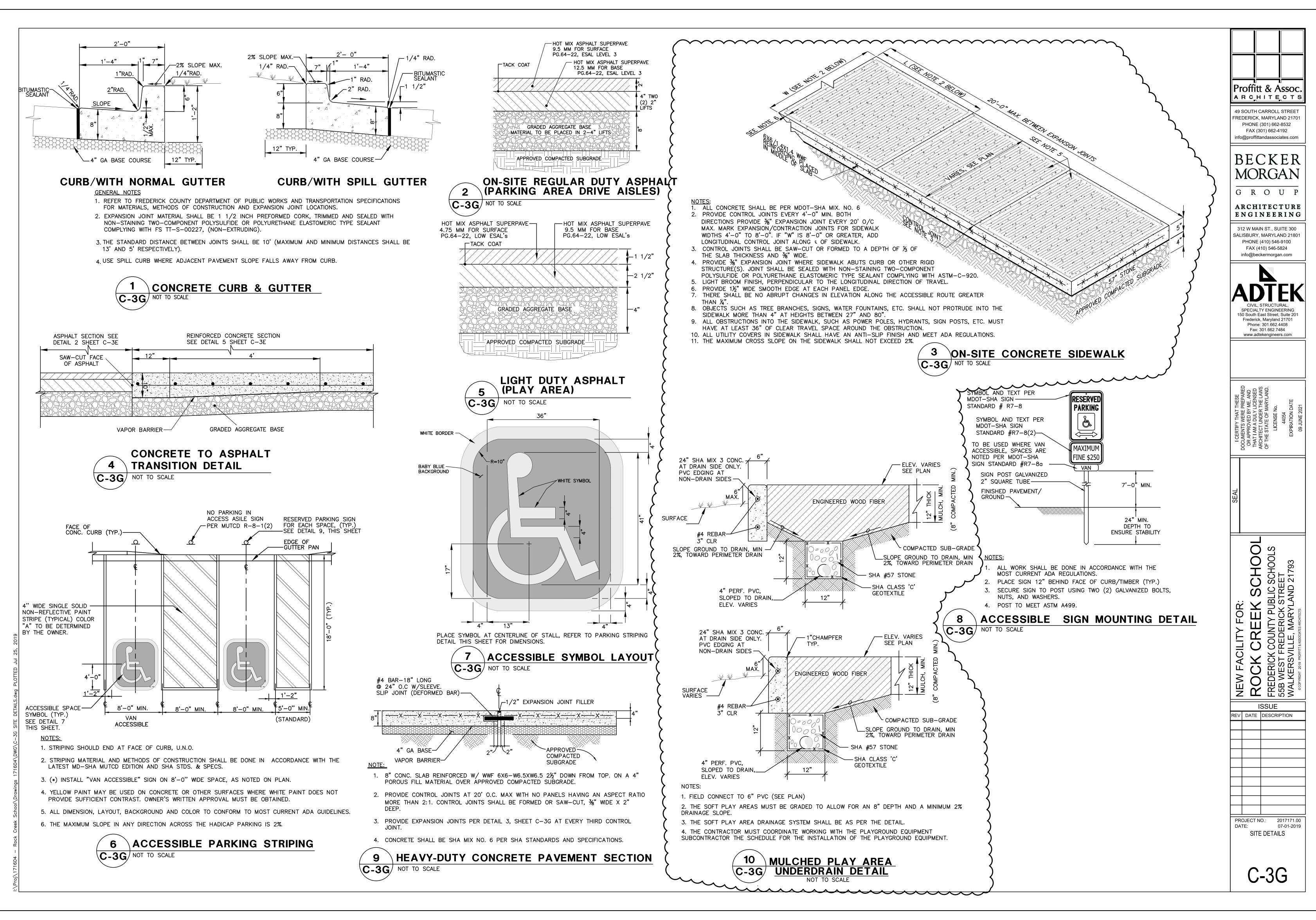
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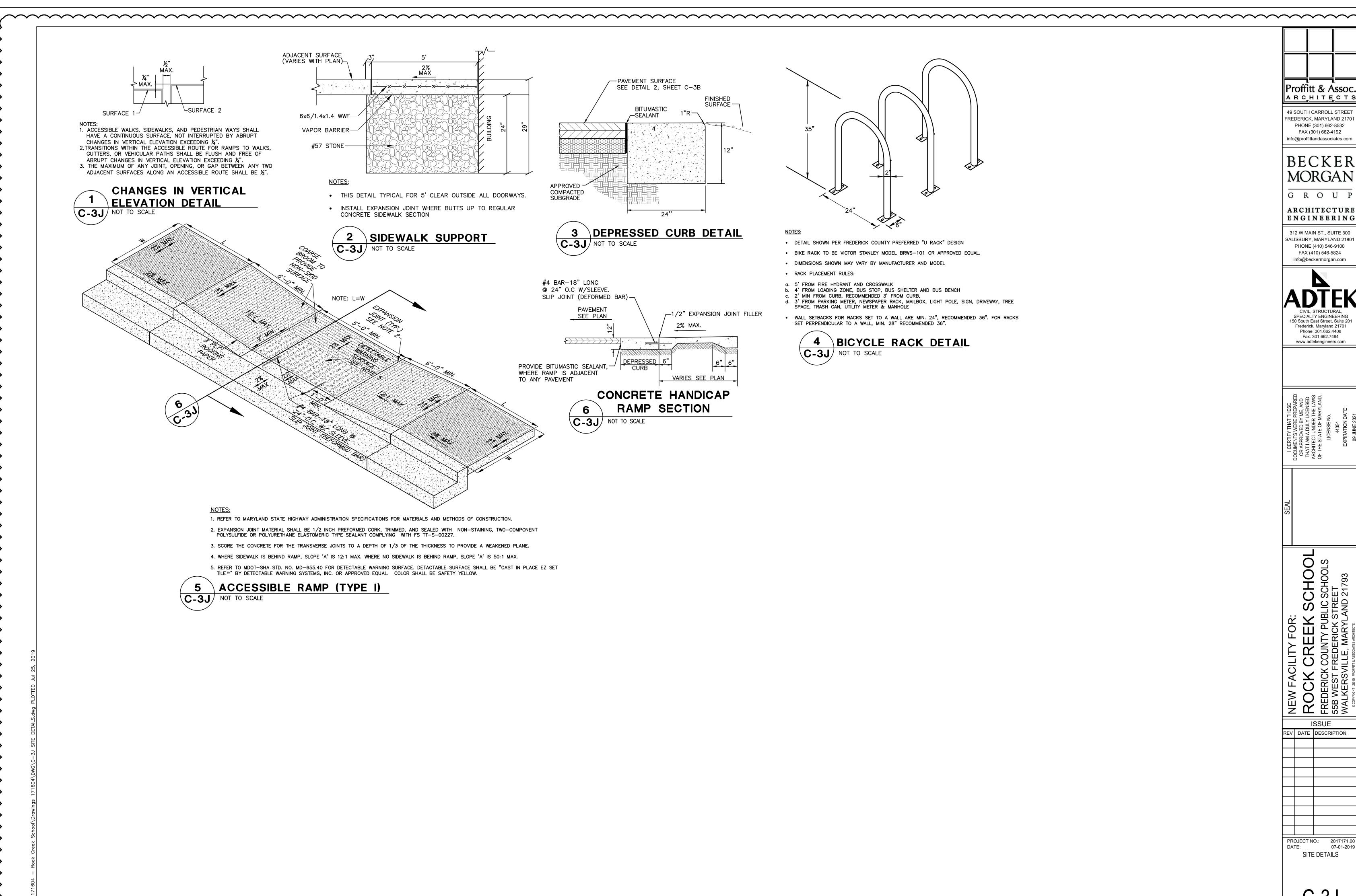
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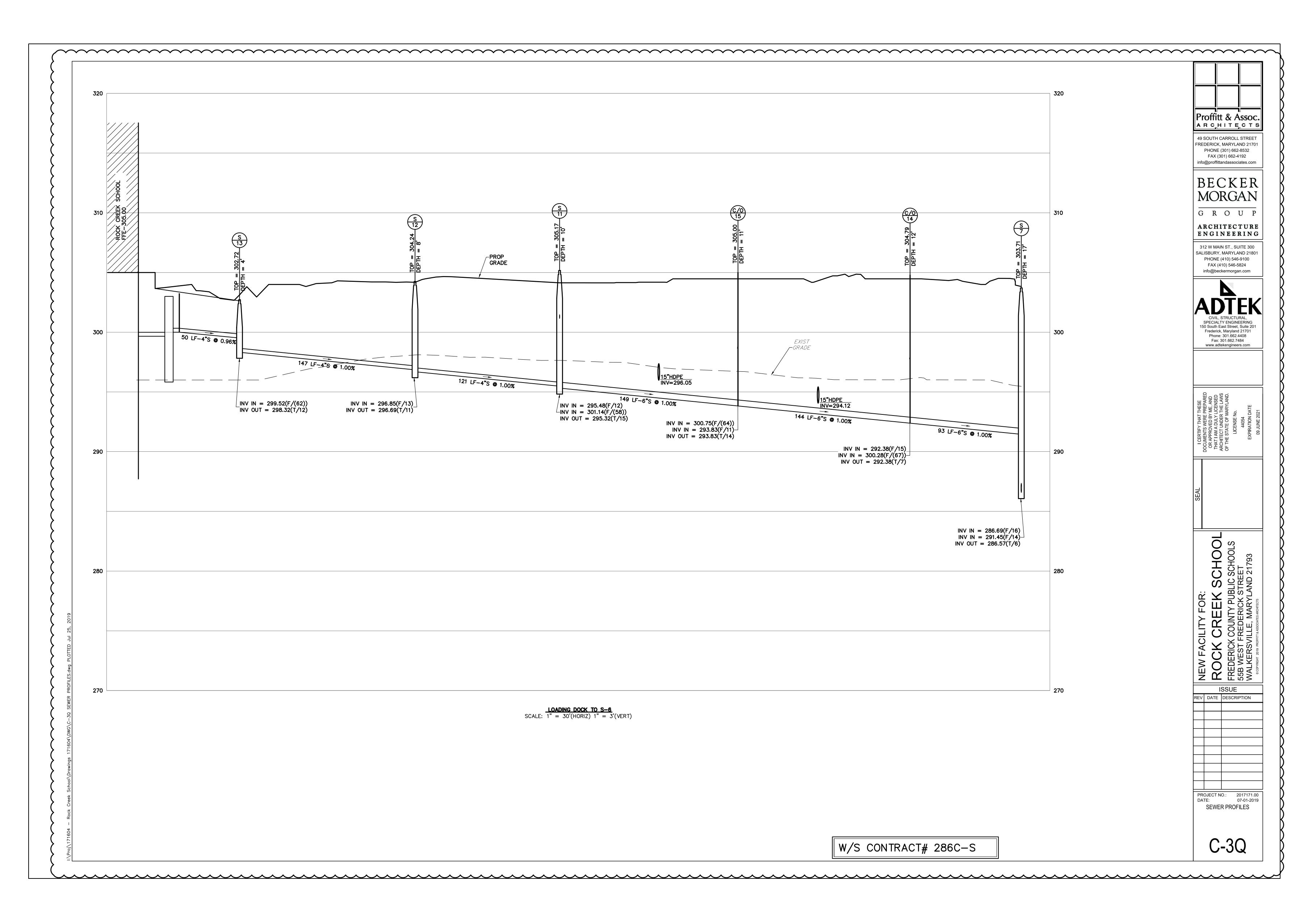
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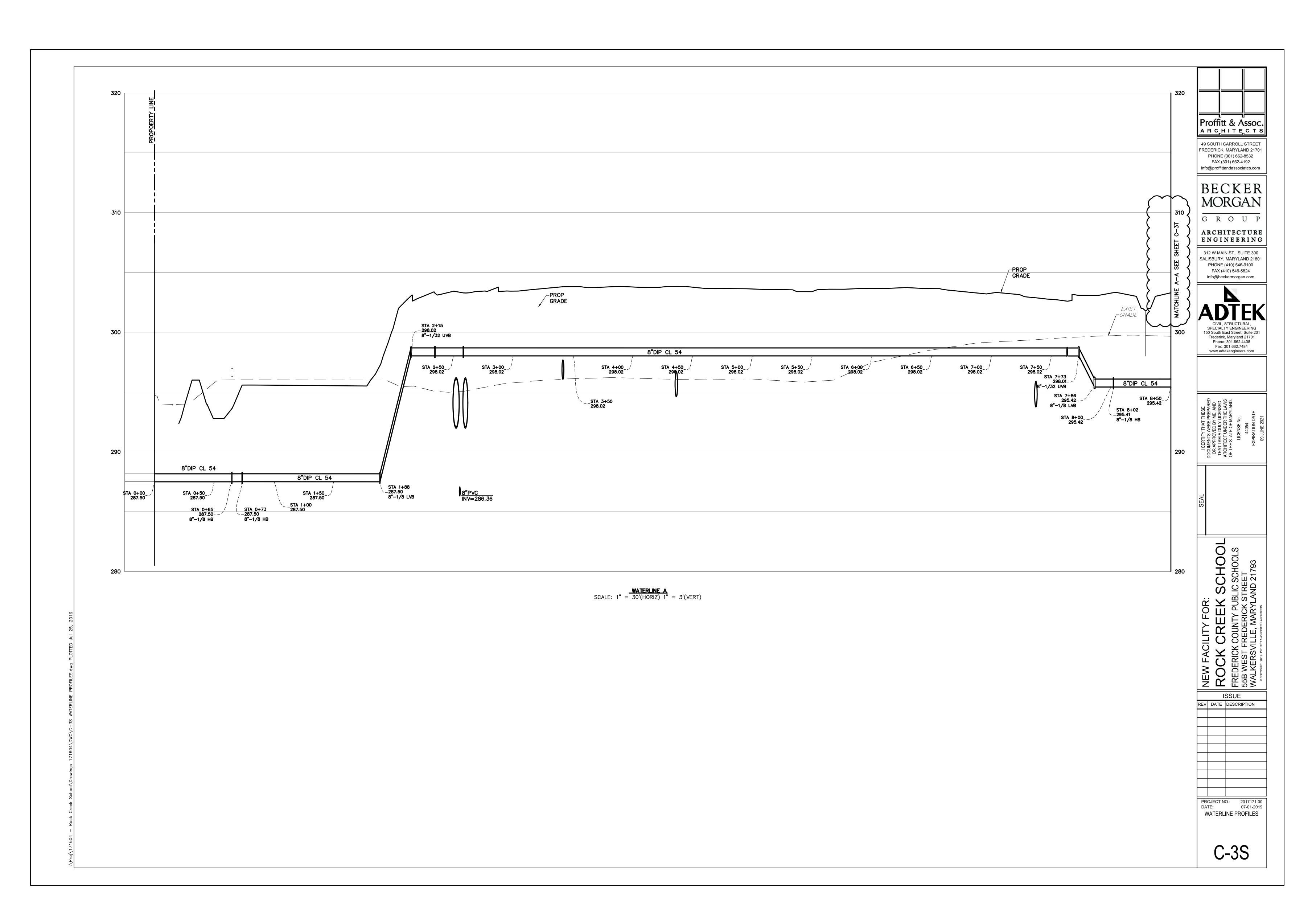
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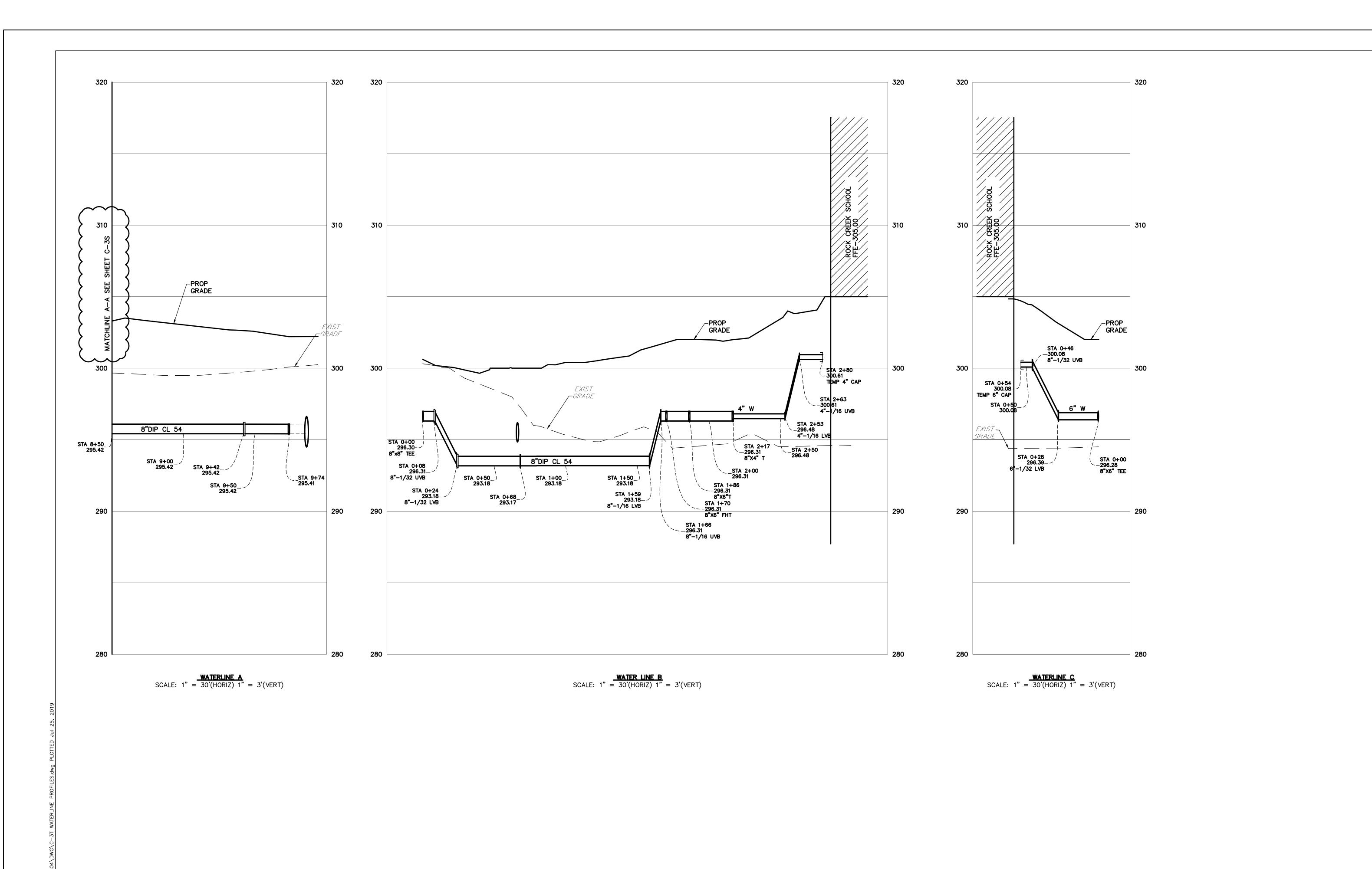
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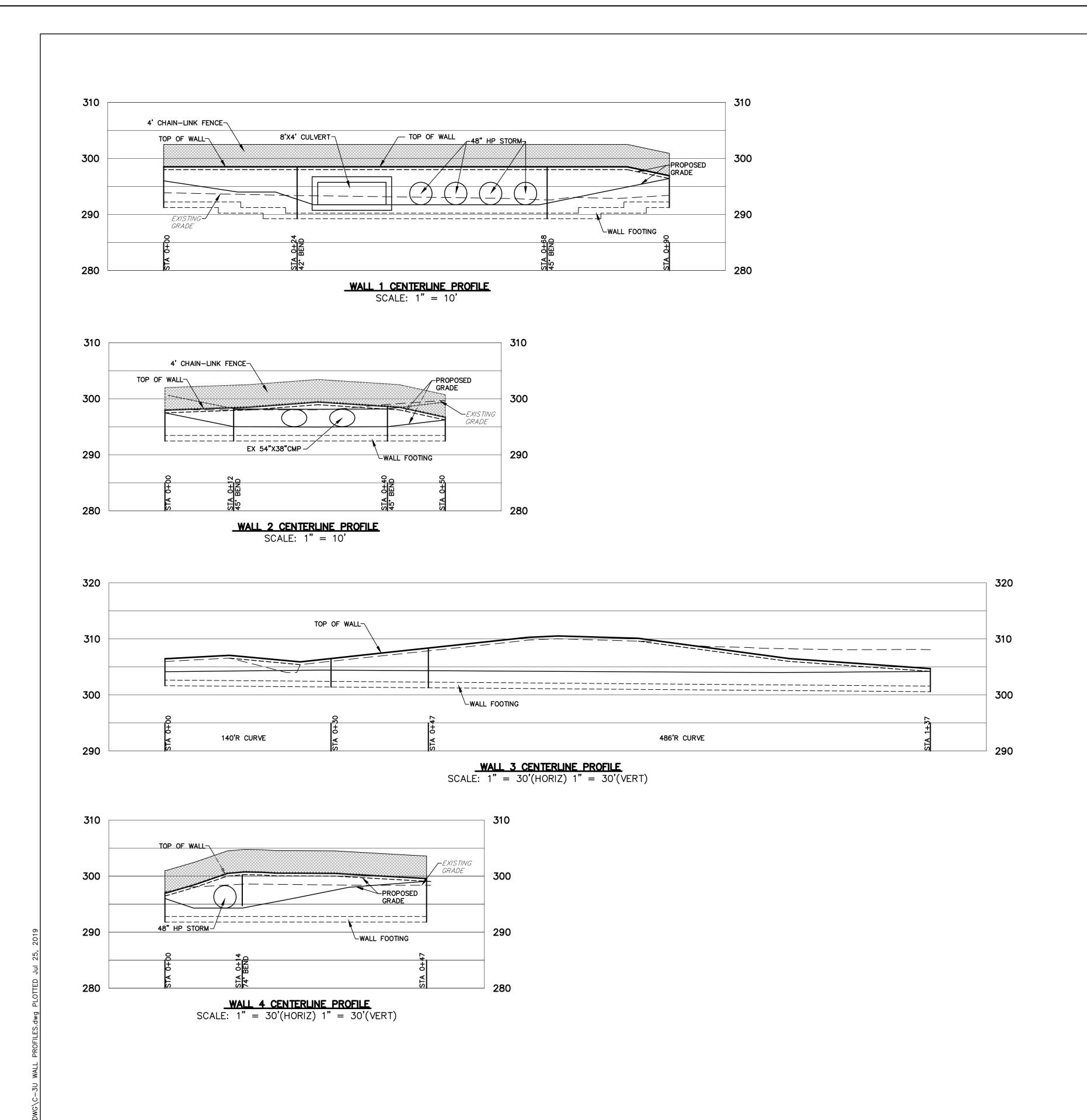
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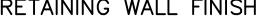
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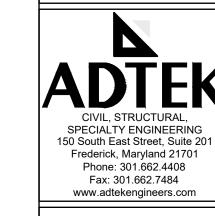




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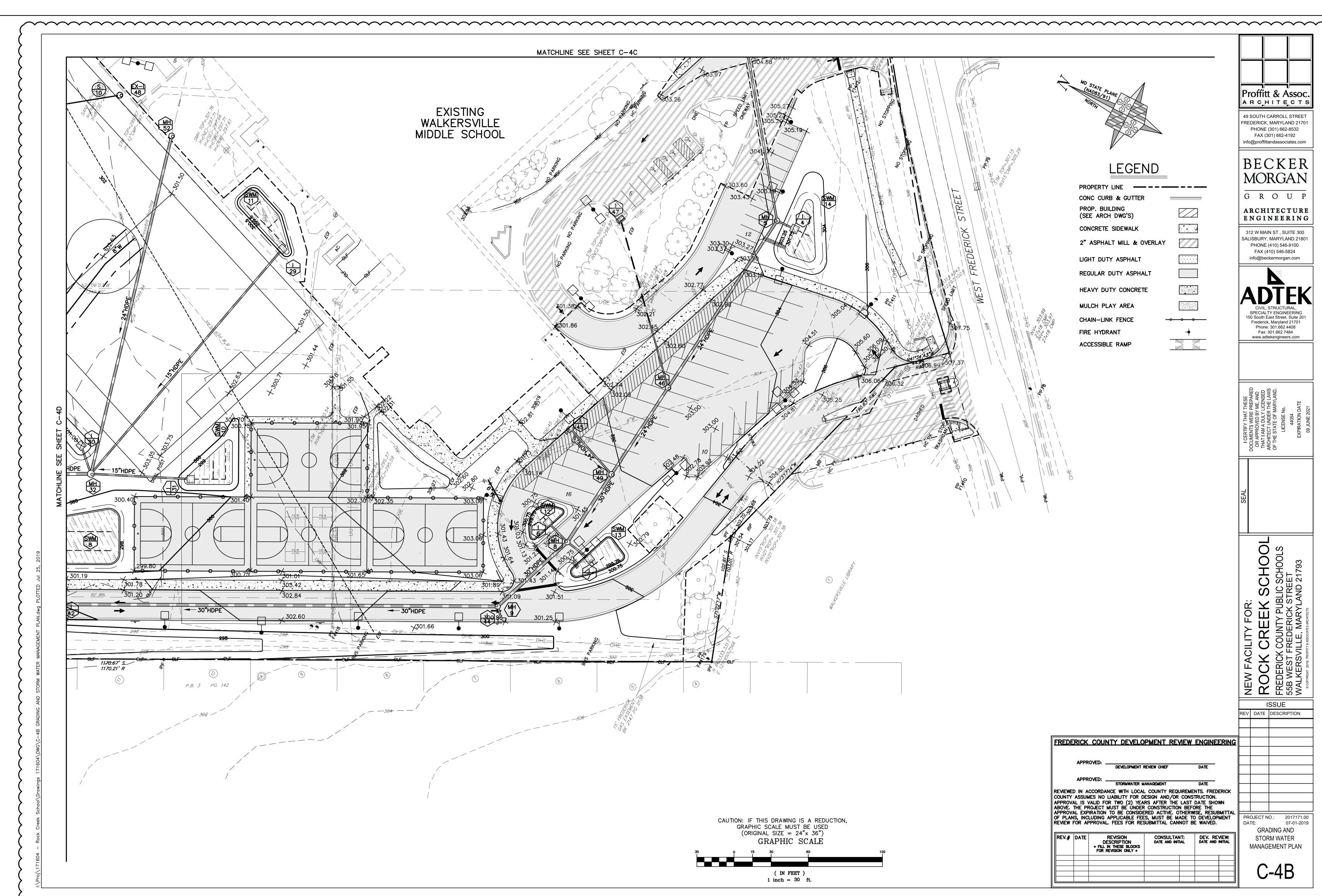
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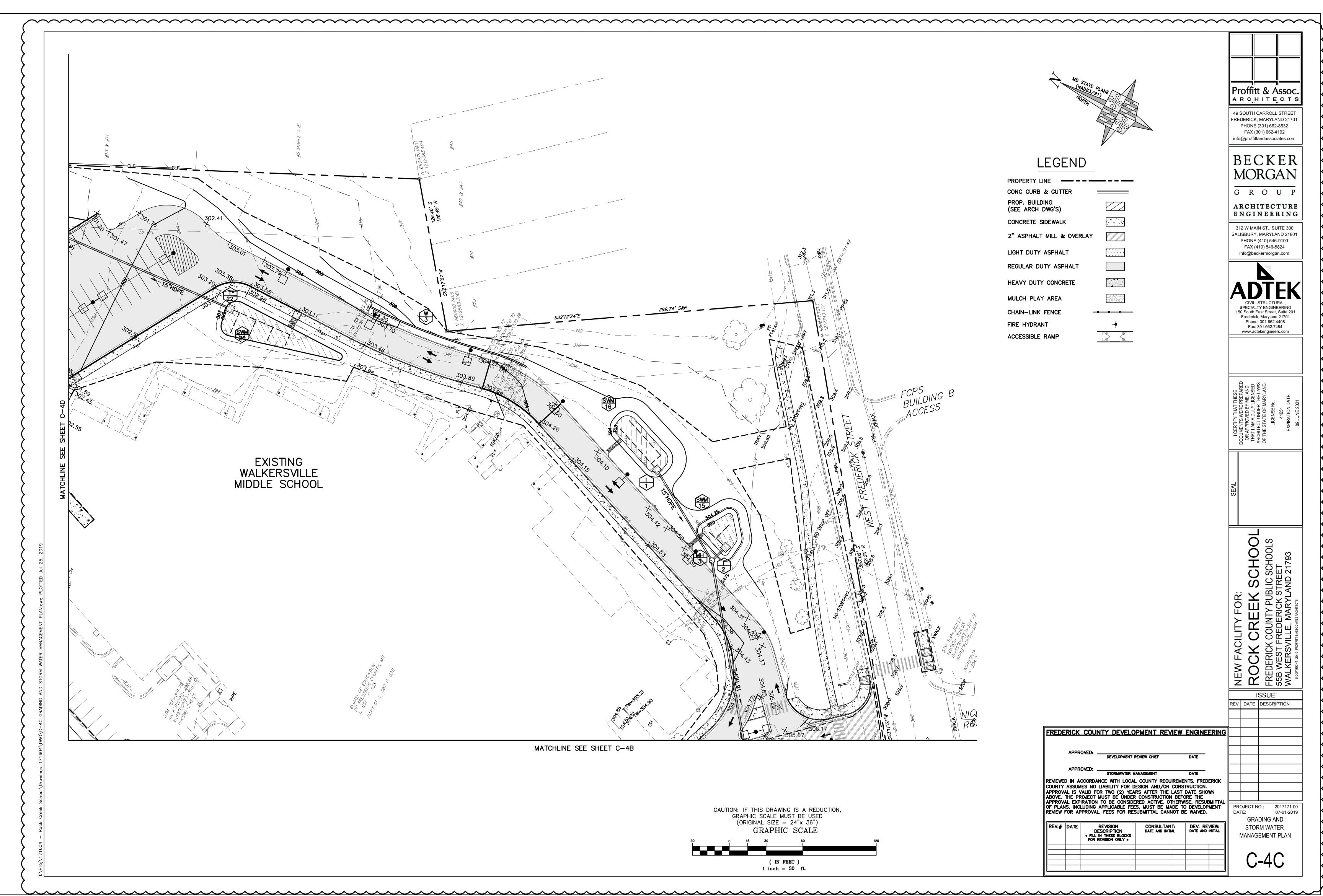
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REV DATE DESCRIPTION
7/18/19 ADDENDUM 3
7/25/19 ADDENDUM 4

PROJECT NO.: 2017171.00
DATE: 07-01-2019
GRADING AND
STORM WATER
MANAGEMENT PLAN

C-4B



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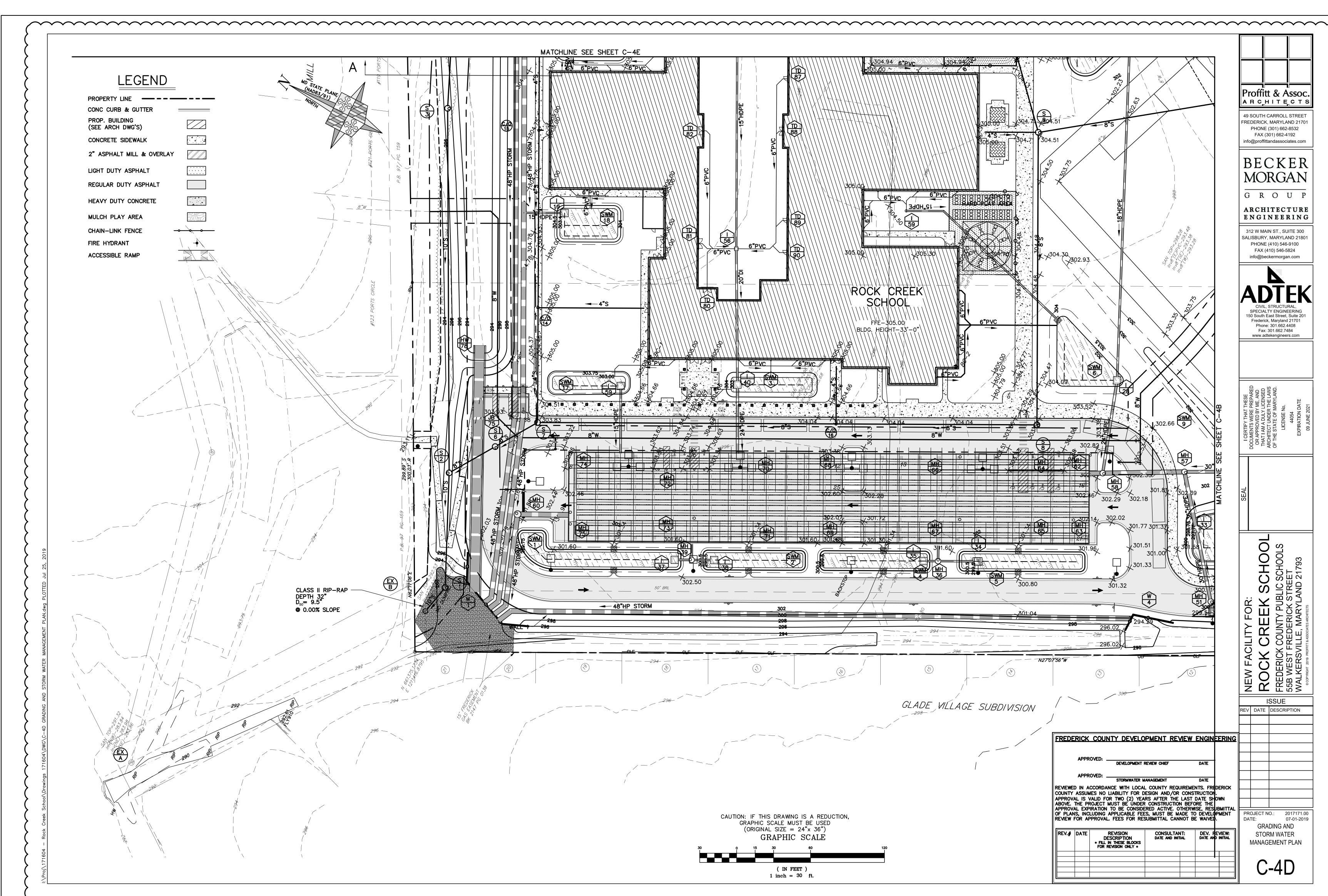
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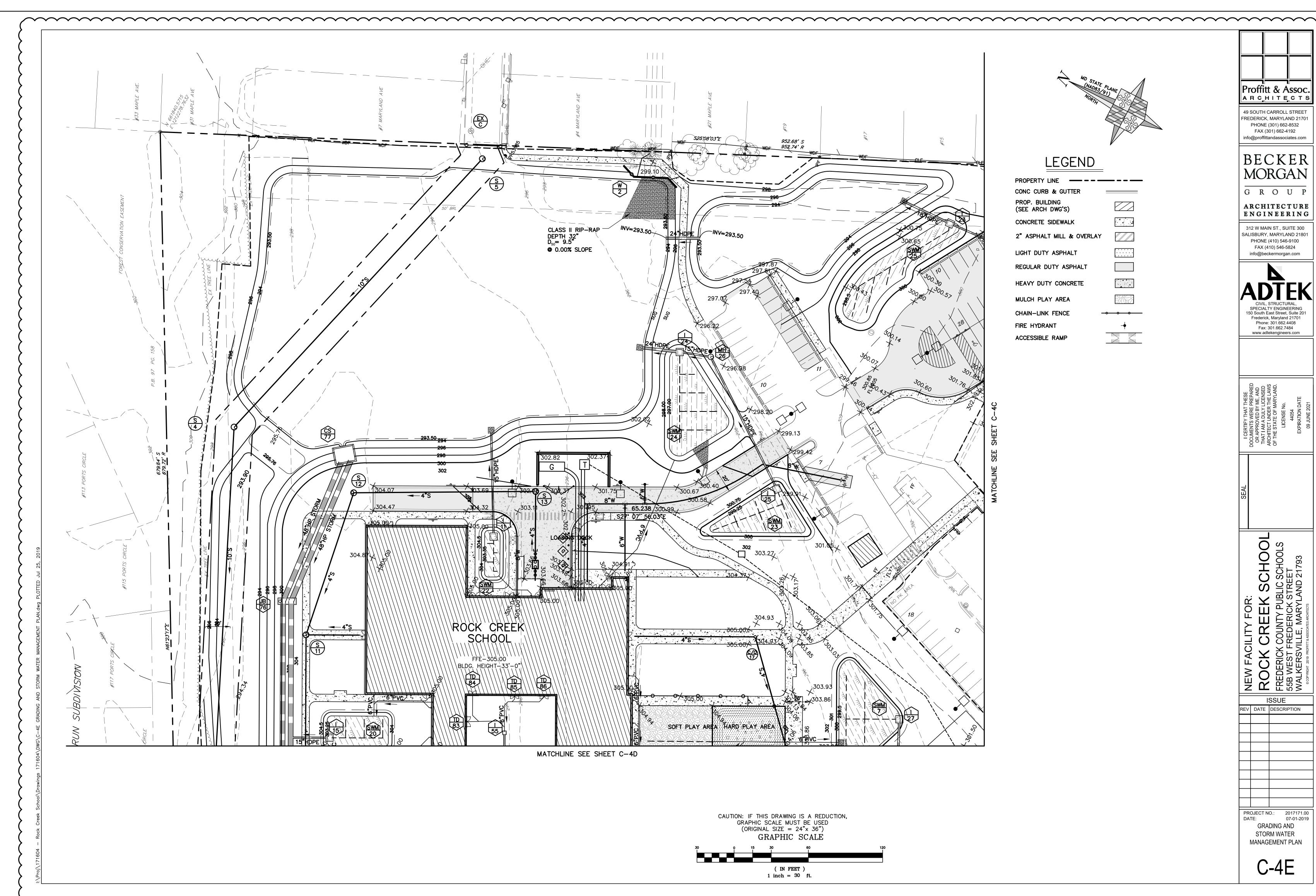
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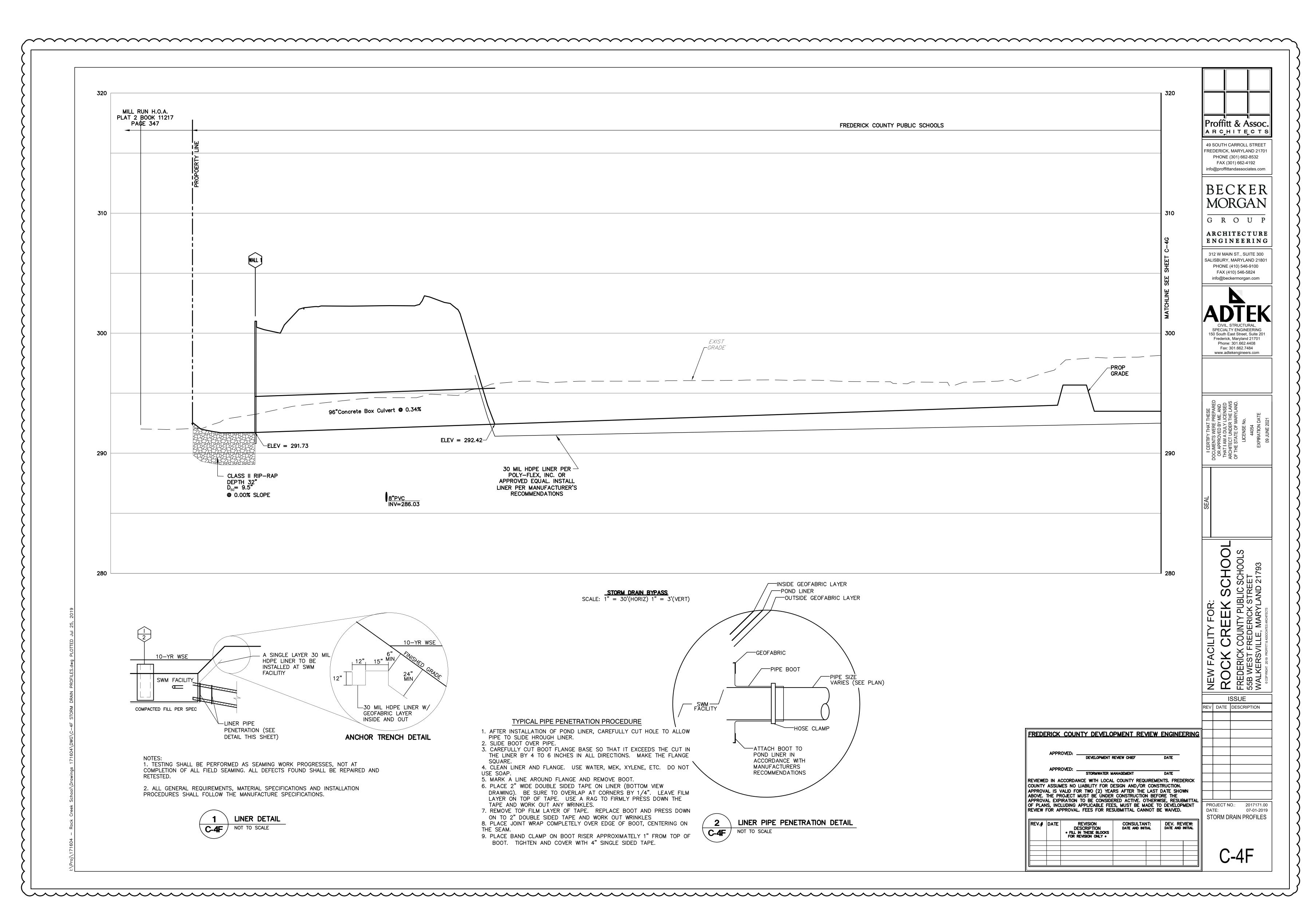
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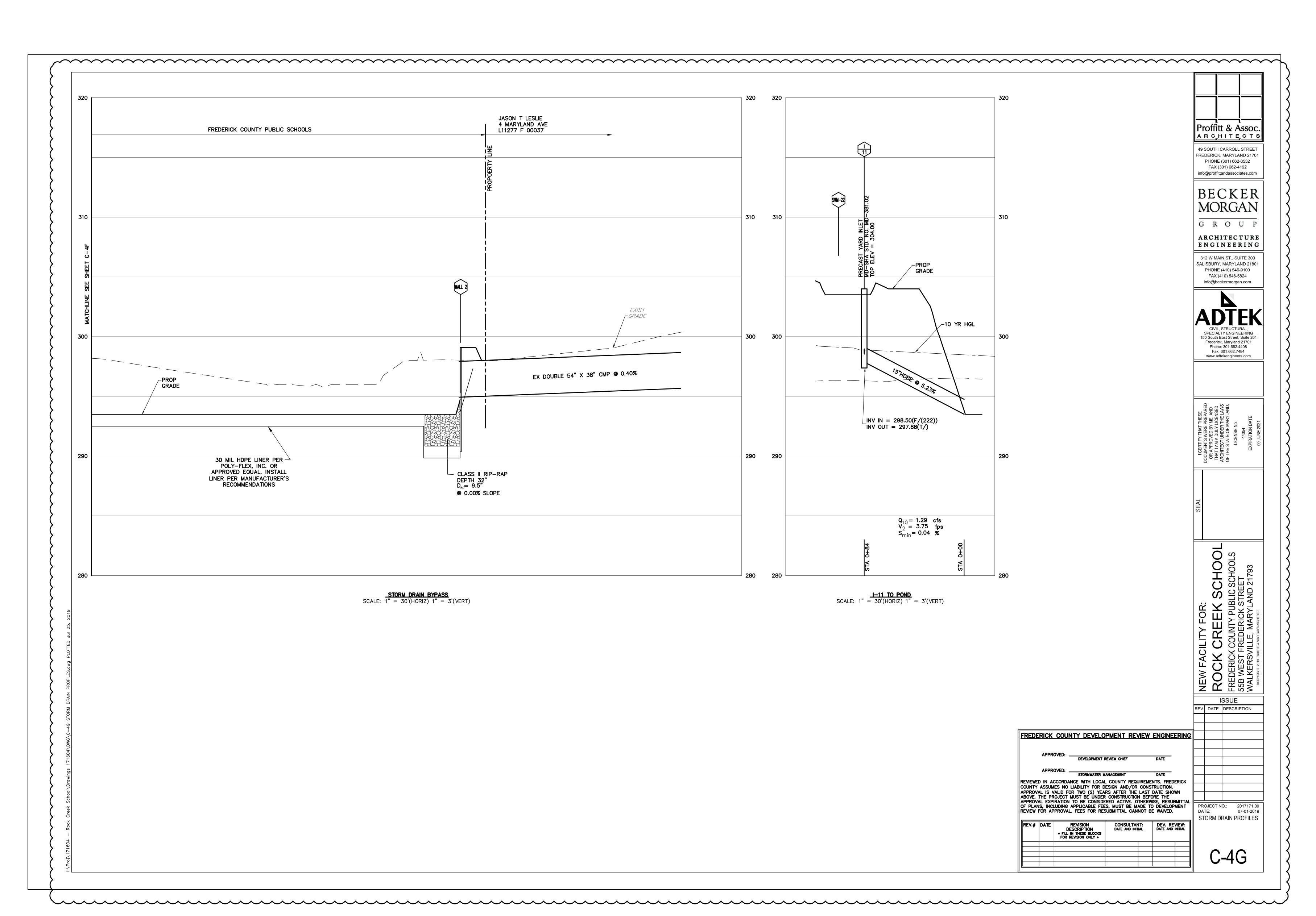
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STORM DRAIN PROFILES



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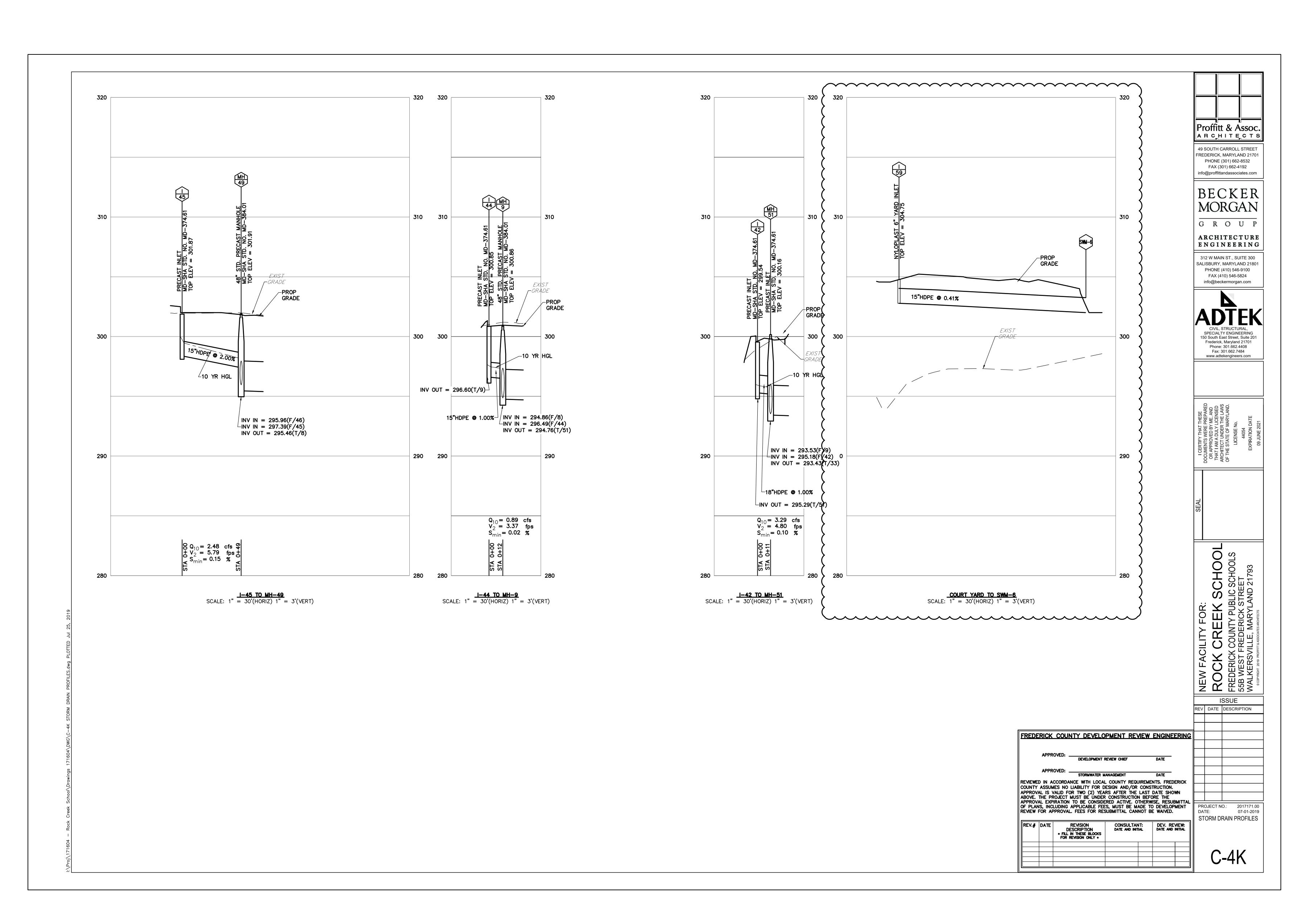
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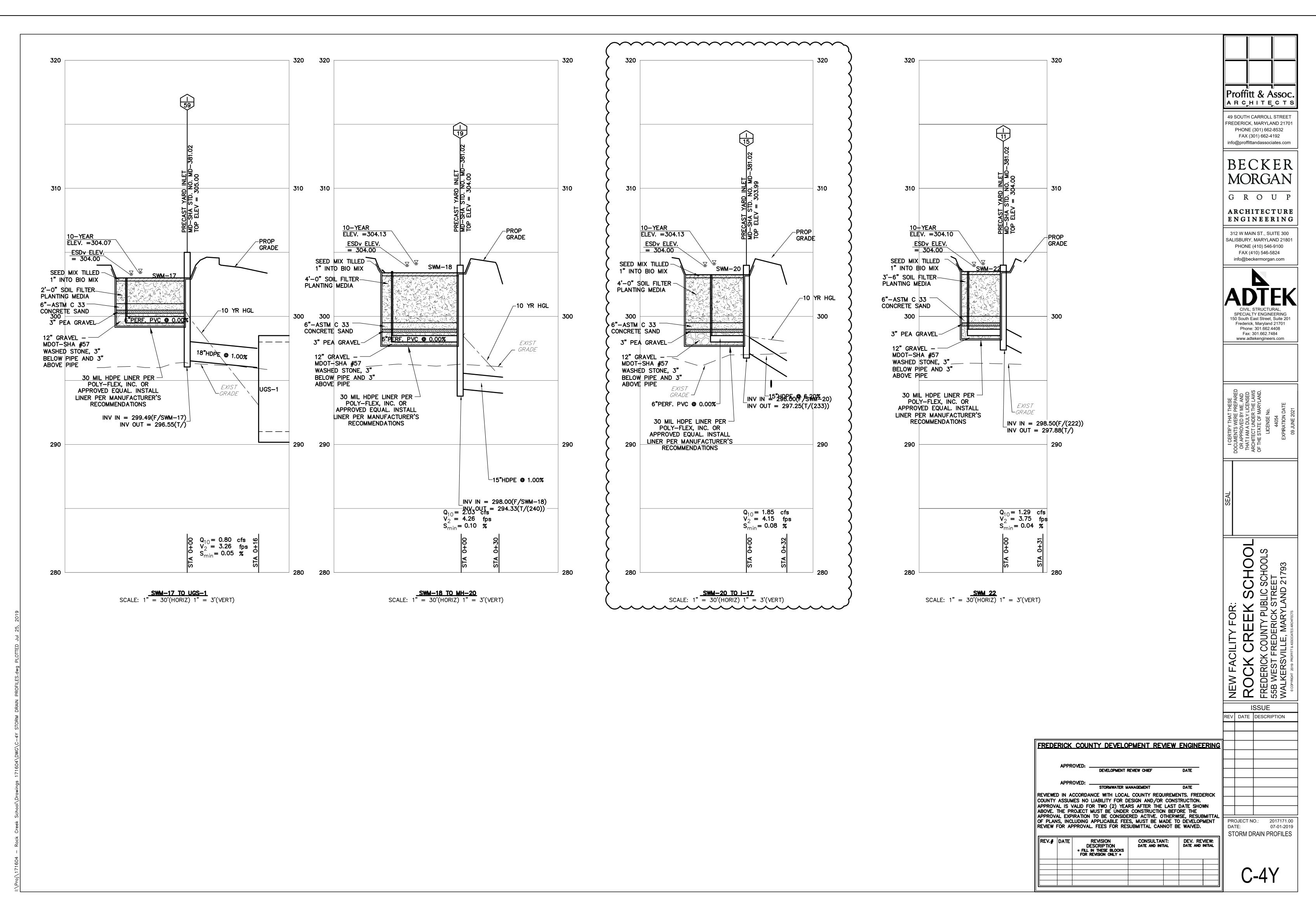
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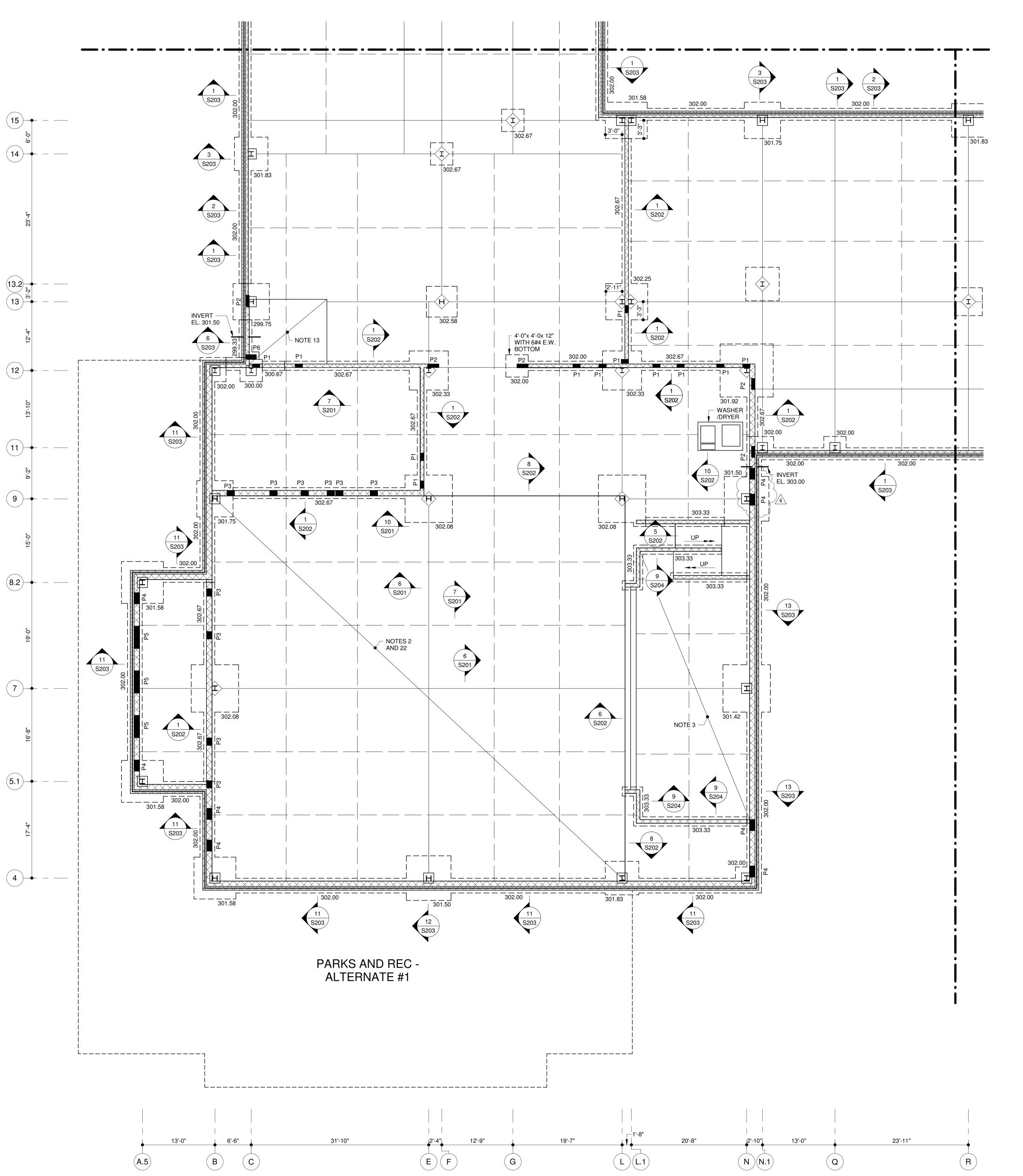
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PROJECT NO.: 2017171.00 STORM DRAIN PROFILES





OUNDATION & FIRST FLOOR PLAN - AREA 'D'

SCALE: 1/8" = 1'-0"

- ELEVATION TOP OF STRUCTURAL SLAB ON GRADE = EL. 305.00.
- 2. ELEVATION TOP OF STRUCTURAL SLAB ON GRADE AT GYM FLOOR = EL. 304.79. (2 1/2" DEPRESSION, VERIFY WITH APPROVED FLOOR SYSTEM).
- 3. ELEVATION TOP OF ARCHITECTURAL FINISH FLOOR AT STAGE = EL. 306.42. (VERIFY WITH APPROVED FLOOR SYSTEM)
- 4. ELEVATION TOP OF STRUCTURAL SLAB ON GRADE = EL. 303.66.
- 5. STRUCTURAL SLAB ON GRADE SHALL BE 5" CONCRETE SLAB ON GRADE (f'c = 3500 PSI) REINFORCED WITH 6"x 6" - W2.9 / W2.9 WELDED WIRE FABRIC POURED OVER VAPOR BARRIER OVER 4" POROUS FILL.
- 6. ALL NEW EXTERIOR CONCRETE SLAB ON GRADE SHALL BE 5" AIR-ENTRAINED SLAB ON GRADE (f'c = 4500 PSI) REINFORCED WITH 6"x 6" - W2.1 / W2.1 WELDED WIRE FABRIC POURED OVER VAPOR BARRIER OVER 4" POROUS FILL. ALL WIRE MESH AND REBAR IN EXTERIOR CONCRETE SLAB SHALL BE EPOXY COATED. SLOPE SLAB PER ARCHITECTURAL DRAWINGS.
- 7. ASSUMED SOIL BEARING VALUE = 2500 PSF. THIS VALUE SHALL BE VERIFIED IN FIELD BY A MARYLAND REGISTERED GEOTECHNICAL ENGINEER. REFER TO GEOTECHNICAL REPORT PREPARED BY ECS MID-ATLANTIC, LLC DATED AUGUST 14, 2018 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 8. WALL TYPES ARE NOTED ON PLAN THUS:

REINFORCED MASONRY WALLS (ASTM C-90). SEE DETAILS FOR REINFORCING.

REINFORCED MASONRY PIERS (ASTM C-90). SEE SCHEDULE ON S101D FOR REINFORCING.

- 9. CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL AND SITE DRAWINGS PRIOR TO CONSTRUCTION.
- 10. ALL WALL FOOTINGS NOT SPECIFICALLY SHOWN ON PLAN SHALL BE 12" DEEP BY WALL WIDTH + 6" PROJECTION EACH SIDE OF WALL.
- 11. ELEVATION BOTTOM OF FOOTING IS SHOWN ON PLAN.
- 12. PROVIDE FOOTING IN SLAB ON GRADE AT ALL INTERIOR NON-LOAD BEARING MASONRY WALLS NOT SPECIFICALLY NOTED ON PLAN PER DETAIL 9 ON S201 (U.N.O). SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
- 13. PROVIDE SLAB DEPRESSION AT ALL WALK-OFF MATS PER DETAIL 3 ON S202. SEE ARCHITECTURAL DRAWINGS FOR DEPTH OF DEPRESSION.
- 14. SLAB ON GRADE AT SHOWERS AND AQUATICS TO BE SLOPED. REFER TO

ARCHITECTURAL DRAWINGS FOR EXTENT AND EXACT SLOPE OF SLAB.

- 15. STAIRS SHALL BE DESIGNED FOR 100 PSF LIVE LOAD. SUBMIT SHOP DRAWINGS
- SIGNED AND SEALED BY MARYLAND PROFESSIONAL ENGINEER FOR APPROVAL. 16. AT POOL EVACUATOR DUCT, THICKEN CONCRETE SLAB TO 8" AND PROVIDE #4
- x 5'-0" LONG AT 12"o/c LONG CENTERED OVER DUCT. REFER TO MECHANICAL AND POOL DRAWINGS FOR LOCATION OF DUCT.
- 17. TRENCH DRAIN AT POOL. SEE POOL AND MECHANICAL DRAWINGS FOR EXACT LOCATION AND DETAIL AT TRENCH DRAIN.
- 18. ALL REINFORCING IN SLAB ON GRADE SHALL BE ELECTRICALLY BONDED FOR A 5'-0" MINIMUM WIDTH AROUND POOL. SEE POOL AND ELECTRICAL DRAWINGS
- FOR ADDITIONAL INFORMATION. 19. PROVIDE CONCRETE CURB IN SLAB ON GRADE PER DETAIL 5 ON S202. SEE
- ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS. 20. COORDINATE INSERTS AT GYM FLOOR FOR ALL GYM EQUIPMENT, REFER TO

ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

- 21. CONCRETE REINFORCED ELECTRIC DUCTBANK. TOP OF DUCTBANK SHALL EQUAL BOTTOM OF FOOTING AT SCREEN WALL. POUR SCREEN WALL FOOTING OVER 2 LAYERS OF 10 MIL POLYETHYLENE VAPOR BARRIER DIRECTLY OVER TOP OF CONCRETE DUCTBANK.
- 22. STRUCTURAL SLAB ON GRADE AT GYM SHALL BE 5" CONCRETE SLAB ON GRADE (f'c = 3500 PSI) REINFORCED WITH 6"x 6" - W2.9 / W2.9 WELDED WIRE FABRIC POURED OVER VAPOR BARRIER OVER BLINDSIDE WATERPROOFING OVER 4"

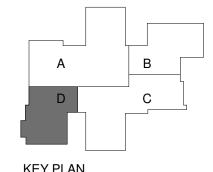
MA	SONRY PIER	SCHEDULE
MARK	SIZE	VERT. REINFORCING
P1	8" x 16"	2#6
P2	8" x 24"	3#6
P3	12" x 16"	2#6
P4	12" x 24"	3#6
P5	12" x 48"	6#6
P6	10" x 24"	4#6

MASONRY PIER NOTES

- 1. ALL MASONRY PIERS SHALL BE FILLED 100% SOLID WITH
- 3000 PSI GROUT FROM TO FOUNDATION. 2. ALL MASONRY PIERS SHALL HAVE #6 WIRE TIES AT 8"o/c
- LATERAL REINFORCEMENT. 3. LAP ALL VERTICAL REINFORCING AS FOLLOWS: #4 REBAR = 2'-0" MIN. LAP

#5 REBAR = 2'-6" MIN. LAP #6 REBAR = 3'-0" MIN. LAP

- 4. ALL MASONRY PIERS SHALL HAVE FOOTING DOWELS SAME SIZE AND QUANTITY AS PIER REINFORCING WITH 8"
- 5. REFER TO LINTEL SCHEDULE ON S103D FOR LOCATION OF MASONRY PIERS AT LINTELS.



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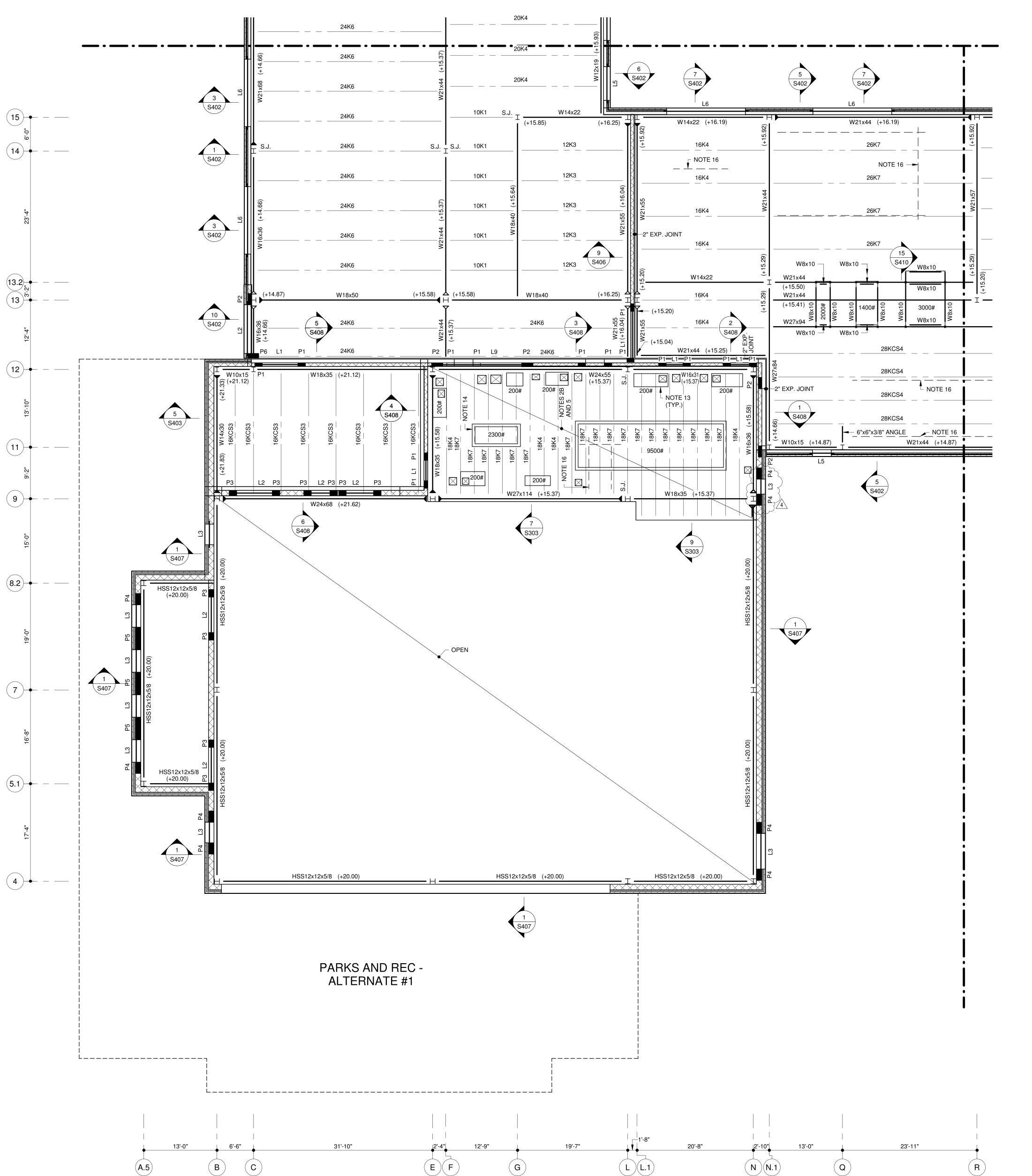
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ROOF FRAMING PLAN - PART 'D'

SCALE: 1/8" = 1'-0"

- ELEVATION TOP OF STEEL BEAMS NOTED ON PLAN THUS: (+00.00) SHALL BE REFERENCED FROM SLAB ON GRADE EL. = 305.00.
- 2A. ELEVATION TOP OF STRUCTURAL FRAMED MEZZANINE SLAB = EL. 318.67.

 2B. ELEVATION TOP OF STRUCTURAL FRAMED MEZZANINE SLAB = EL. 320.83.
- 3A. TYPICAL STRUCTURAL ROOF SHALL BE 1 1/2"x 22 GAUGE TYPE 'B' GALVANIZED
- METAL ROOF DECK (3 SPAN CONTINUOUS) SUPPORTED BY STEEL BAR JOISTS AT 6'-0"o/c MAX. (U.N.O.)
- 3B. STRUCTURAL ROOF SHALL BE 1 1/2"x 22/22 GAUGE TYPE 'BA' GALVANIZED ACOUSTICAL METAL ROOF DECK (3 SPAN CONT.) SUPPORTED BY STEEL BAR JOISTS AT 6'-0"o/c MAX. ACOUSTICAL ROOF DECK IS SHOWN ON PLAN THUS:
- 4A. STRUCTURAL ROOF SHALL BE 3"x 20 GAUGE TYPE 'N' GALVANIZED METAL ROOF DECK SUPPORTED BY STEEL BAR JOISTS AT 10'-0"o/c MAX.
- 4B. STRUCTURAL ROOF SHALL BE 3"x 20/20 GAUGE TYPE 'NCAS' GALVANIZED ACOUSTICAL METAL ROOF DECK SUPPORTED BY STEEL BAR JOISTS AT 10'-0"o/c MAX. ACOUSTICAL ROOF DECK IS SHOWN ON PLAN THUS:
- 5. STRUCTURAL FRAMED MEZZANINE SLAB SHALL BE 3" CONCRETE (f'c = 4000 PSI) REINFORCED WITH 6"x 6" W2.9 / W2.9 WELDED WIRE FABRIC OVER 9/16" x 28 GAUGE GALVANIZED SLAB FORM OVER STEEL BAR JOISTS SPACED 2'-6"o/c MAX.
- 6. WALL TYPES ARE NOTED ON PLAN THUS:

METAL STUD WALLS

REINFORCED MASONRY WALLS (ASTM C-90). SEE DETAILS FOR REINFORCING.

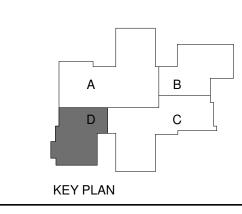
REINFORCED MASONRY PIERS (ASTM C-90). SEE SCHEDULE ON S101D FOR REINFORCING.

- 7. CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
- 8. STRUCTURAL STEEL SHALL CONFORM TO ASTM A-992, GRADE 50.
- 9. FULL CONTINUITY MOMENT CONNECTIONS INDICATED ON PLAN THUS: SHALL BE DESIGNED TO DEVELOP THE FULL MOMENT CAPACITY OF THE SECTION. ALL CANTILEVERS SHALL DEVELOP THE FULL MOMENT CAPACITY OF THE SECTION.
- FULL CONTINUITY MOMENT CONNECTIONS INDICATED ON PLAN THUS: ——
 SHALL BE DESIGNED TO RESIST THE MOMENTS SPECIFIED IN TABLE ON DETAIL
 16 ON S301.
- SEE DETAILS 12, 13, 14, AND 15 ON S301 FOR ADDITIONAL INFORMATION.
- 10. STAIRS SHALL BE DESIGNED FOR 100 PSF LIVE LOAD. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY MARYLAND PROFESSIONAL ENGINEER FOR APPROVAL.
- 11. SEE ARCHITECTURAL / MECHANICAL DRAWINGS FOR LOCATION OF ALL FLOOR AND ROOF PENETRATIONS INCLUDING ROOF VENTS. SEE DETAIL 5 AND 6 ON S303 AND DETAIL 7 ON S401 FOR ADDITIONAL INFORMATION.
- 12. WEIGHT OF ALL MECHANICAL EQUIPMENT IS SHOWN ON PLAN. IF ACTUAL WEIGHT EXCEEDS THAT SHOWN ON PLAN, CONTACT MORABITO CONSULTANTS FOR ADDITIONAL REVIEW.
- 13. PROVIDE ANGLE PLATFORM BELOW ALL VRV UNITS IN THE PENTHOUSE. REFER TO DETAIL 1 ON \$305 FOR ADDITIONAL INFORMATION AND MECHANICAL DRAWINGS FOR LOCATIONS.
- 14. SEE DETAIL 12 ON S303 FOR HOUSEKEEPING PADS AT MECHANICAL UNITS. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
- 15. PROVIDE ANGLE FRAME BELOW ROOF CURB FOR RTU PER DETAIL 7 ON S401.
- 16. SUSPENDED THERAPY LIFT WITH A MAXIMUM SUPPORTED WEIGHT OF 300 LBS. PROVIDE ADDITIONAL WEB MEMBERS AT JOIST IF ATTACHMENT OF SWING DOES NOT OCCUR AT A JOIST PANEL POINT PER DETAIL 4 ON S401. FOR TYPICAL LIFT SUPPORT REFER TO DETAIL 14 ON S401. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIFTS.
- 17. HUNG KITCHEN HOOD. SEE KITCHEN AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF HOOD. MAXIMUM WEIGHT OF KITCHEN HOOD SHALL BE 500 LBS. PROVIDE ANGLE HANGERS FROM STEEL JOISTS TO SUPPORT HOOD SIMILAR TO DETAILS 12 AND 13 ON S401.
- 18. ALL STEEL FRAMING AT AQUATICS INCLUDING BAR JOISTS, STEEL BEAMS, TUBE GRITS, ANGLES, COLUMNS, ETC. SHALL BE HOT-DIPPED GALVANIZED.
- 19. COLUMNS NOTED ON PLAN THUS: (A) ARE ABOVE THE CURRENT LEVEL.
- 20. END OF BEAMS NOTED ON PLAN THUS: (SC) SHALL HAVE A SLIP STIFFENED SEATED CONNECTION TO ALLOW FOR 2" EXPANSION JOINT.
- 21. DIVIDER CURTAINS IN CLASSROOMS & GYM AND STAGE CURTAINS TO BE HUNG FROM ROOF STRUCTURE ABOVE. SUPPLIER IS RESPONSIBLE FOR ATTACHMENT
- TO STRUCTURE, PROVIDE ADDITIONAL UNISTRUT FRAMING AS REQUIRED.
- 22. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL RELIEF VENTS AND EXHAUST FANS. FRAME ROOF OPENINGS PER DETAIL 7 ON S401.
 23. PROVIDE 4"x 4"x 3/8" ANGLE BETWEEN STEEL BEAMS AT MAIN ENTRANCE FOR SUPPORT OF LIGHTING. WELD ANGLES TO STEEL BEAMS WITH 1/4" WELD ALL AROUND AT EACH END. SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR

	LINTEL	SCHE	DULE
MARK	MEMBER	TYPE	REMARKS
L1	(2)-6"x 3 1/2"x 3/8" ANGLES (LLV)	JL	8" MIN. BEARING AT EACH END
L2	(3)-6"x 3 1/2"x 3/8" ANGLES (LLV)		8" MIN. BEARING AT EACH END
L3	(4)-6"x 3 1/2"x 3/8" ANGLES (LLV)		8" MIN. BEARING AT EACH END
L4	METAL STUD BOX LINTEL	II	DESIGN BY LIGHT GAUGE ENGINEER
L5	METAL STUD BOX LINTEL + 6"x 7 1/2"x 3/8" CONT. BENT PLATE (LLH)	IIL	DESIGN BY LIGHT GAUGE ENGINEER 8" MIN. BEARING AT E.E.
L6	HSS10"x 6"x 3/8" + 6"x 7 1/2"x 3/8" CONT. BENT PLATE (LLH)		STEEL TUBE JAMB AT EACH END WELD PLATE TO TUBE - SEE 3/S402
L7	W8x28 + 5/16"x 7" CONT. PLATE	I	12" MIN. BEARING EACH END
L8	W8x31 + 5/16"x 15" CONT. PLATE	I	12" MIN. BEARING EACH END
L9	W16x26 + 5/16"x 15" CONT. PLATE	T	12" MIN. BEARING EACH END

LINTEL NO

- 1. FOR EXACT SIZE AND LOCATION OF WALL OPENINGS, SEE ARCHITECTURAL DRAWINGS.
- 2. ALL STRUCTURAL STEEL IN CONTACT WITH MASONRY SHALL BE GALVANIZED IN ACCORDANCE WITH SPECIFICATIONS.
- 3. SEE DETAILS ON SHEET S302 FOR ADDITIONAL INFORMATION.
- 4. ALL METAL STUD BOX LINTELS SHALL BE DESIGNED BY LIGHT GAUGE MANUFACTURER'S ENGINEER. SEE DETAILS AND SPECS FOR ADDITIONAL INFORMATION.
- FOR LINTELS SUPPORTING BRICK/CMU AT NON-LOADING BEARING PARTITIONS REFER TO "LINTEL" SECTION IN GENERAL NOTES AND ARCHITECTURAL DRAWINGS FOR LOCATION OF OPENINGS.



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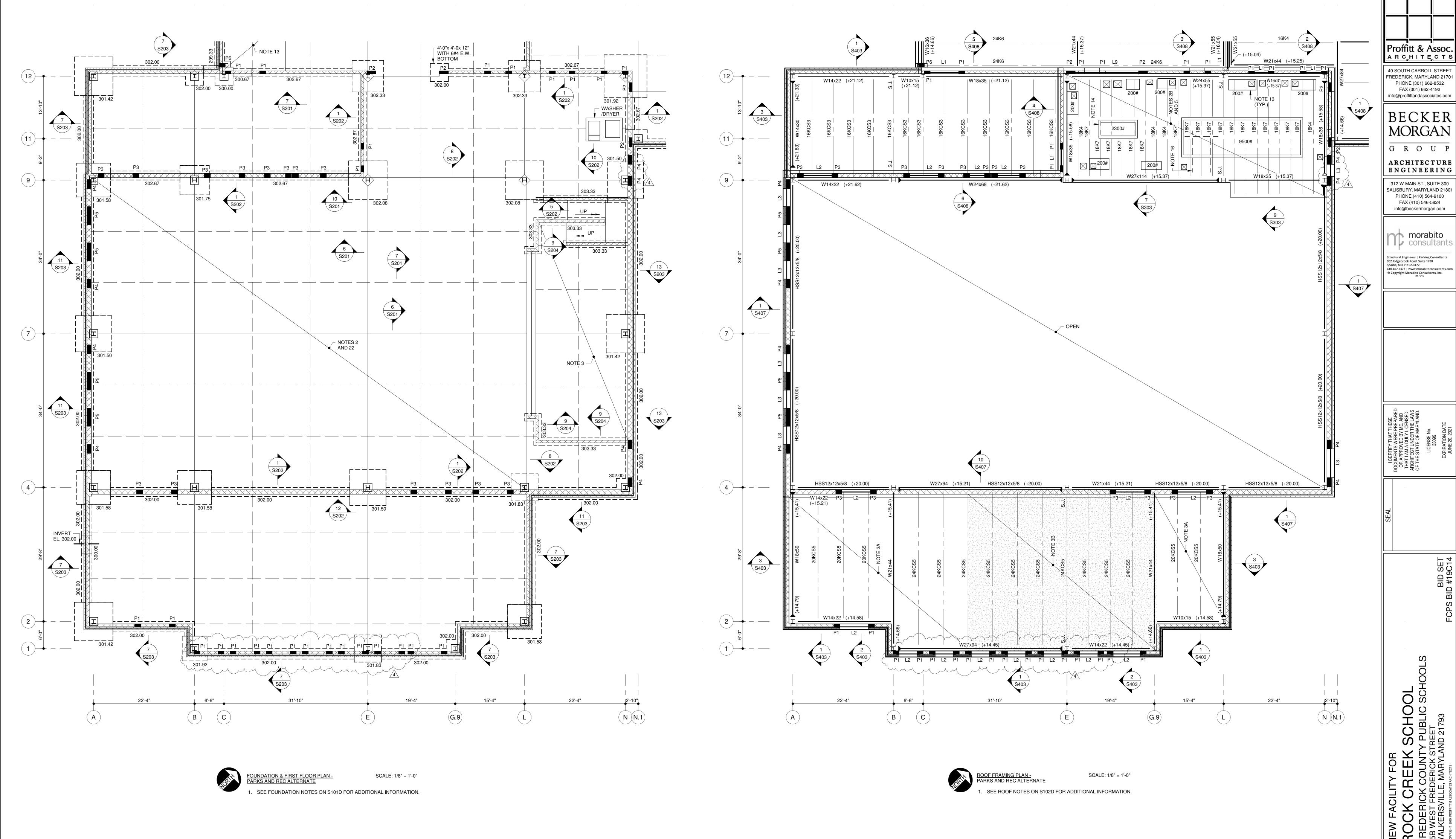
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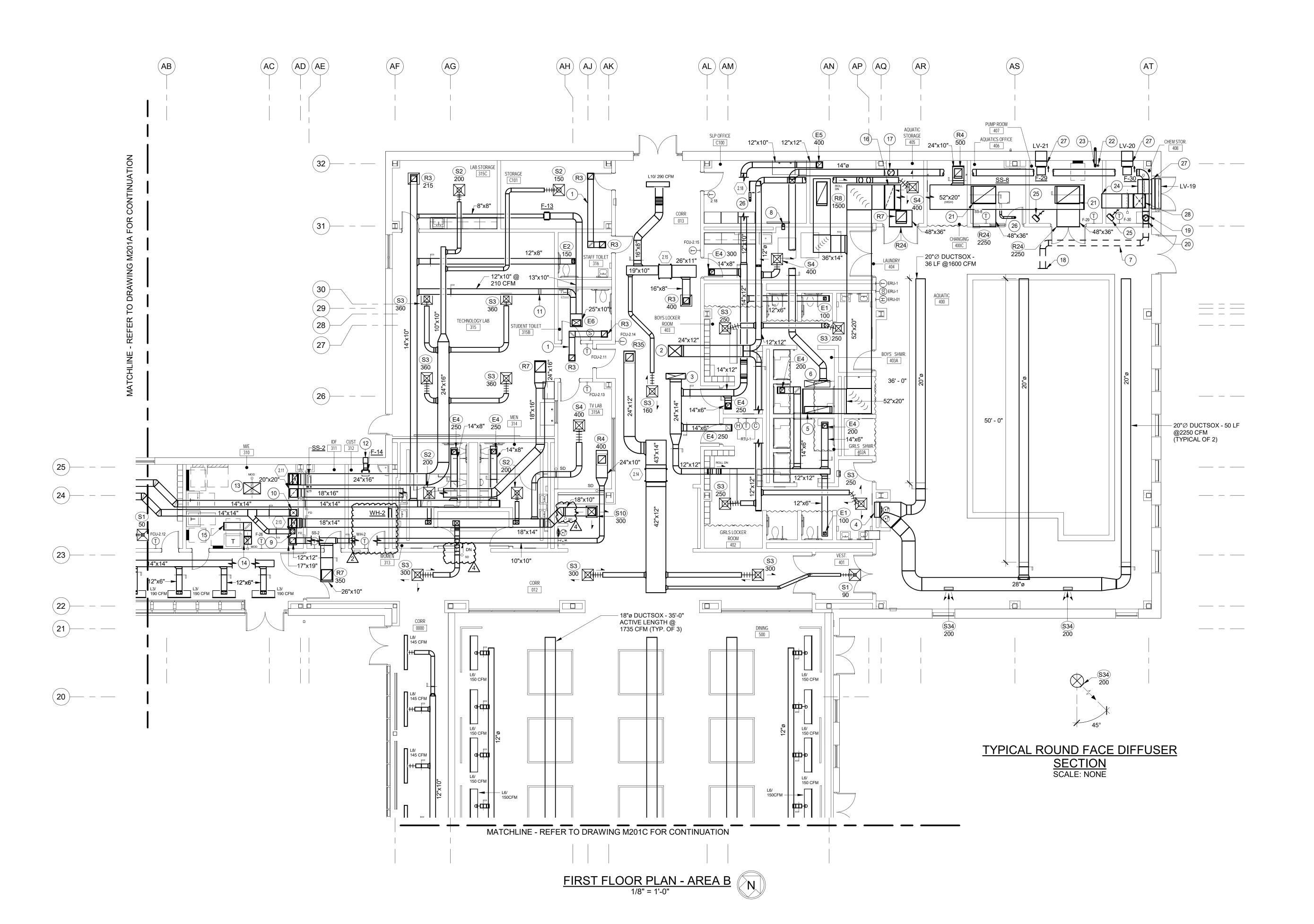
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PROJECT NO.: 2017171.00
DATE: 07-01-2019
ROOF FRAMING
PLAN - AREA D



ISSUE REV DATE DESCRIPTION

PARK AND REC ALTERNATE PLANS (ALT #1)



GENERAL NOTES:

- 1. ALL POOL SUPPLY, RETURN, AND EXHAUST DUCTWORK AND ALL ASSOCAITED GRILLES/TERMINAL AIR DEVICES SHALL BE TYPE 316 STAINLESS STEEL UNLESS NOTED OTHERWISE.
- 2. COORDINATE LOCATION OF ALL DIFFUSERS, GRILLES AND DUCWORK WITH LIFT SYSTEM.

KEY PLAN

SCALE: 1/8" = 1'-0"

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BECKER

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ARCHITECTS

GROUP ARCHITECTURE ENGINEERING 312 W MAIN ST., SUITE 300

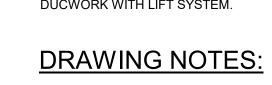
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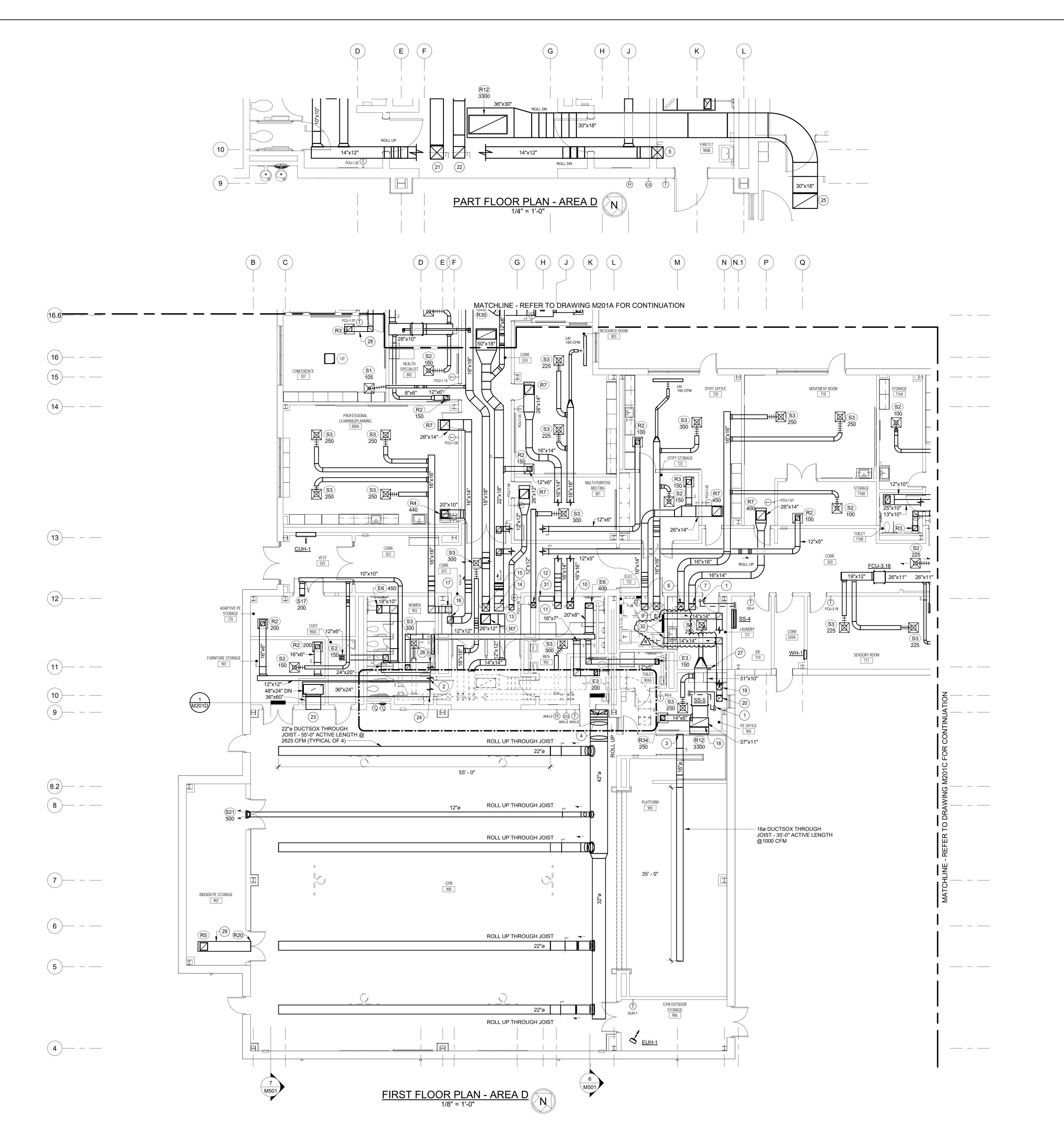
ISSUE REV DATE DESCRIPTION |7/11/19 | ADDENDUM No. 7/24/19 ADDENDUM No.

PROJECT NO.: 2017171.00 DATE: 07-01-2019 FIRST FLOOR PLAN -AREA B





- (2) 28"x24" S/A DUCT UP TO RTU-1 ON ROOF. REFER TO DWG M202 FOR CONTINUATION.
- 3 41"x21" R/A DUCT UP TO RTU-1 ON ROOF. REFER TO DWG M202 FOR CONTINUATION.
- 4 32"ø S/A DUCT THROUGH WALL TO <u>ERU-1</u> ON ROOF. REFER TO DWG M202 FOR CONTINUATION.
- 5 54"x14" R/A DUCT UP TO <u>ERU-1</u> ON ROOF. REFER TO DWG M202 FOR CONTINUATION. 6 54"x14" E/A DUCT UP TO <u>ERU-1</u> ON ROOF. REFER TO DWG M202 FOR CONTINUATION.
- (7) 12"ø PVC EVACUATOR DUCT BELOW SLAB. CONNECT TO POOL GUTTER SYSTEM. PITCH PIPE TO DRAIN BACK TO SUMP PIT IN CHEMICAL STORAGE ROOM. REFER TO SP DRAWINGS FOR ADDITIONAL INFORMATION.
- 8 6"ø SS DRYER VENT DN. AND UP TO ROOF. REFER TO DWG M202 FOR CONTINUATION.
- (9) 10"x10" O/A DUCT DN T O UNIT 2.13 RETURN AIR PLENUM. (10) 14"x10" O/A DUCT DN TO UNIT 2.11 RETURN AIR PLENUM.
- (11) GRAVITY BACKDRAFT DAMPER.
- 8"x8" BRICK VENT BASED ON GREENHECK MODEL BVE 128. CUSTOM COLOR AS SELECTED BY THE ARCHITECT.
- (13) 36"x24" O/A DUCT DN TO O.E.D. W/ 1/2" BIRDSCREEN MESH & UP W/ MOD TO <u>OAI-2</u> ON ROOF. REFER TO DWG M202 FOR CONTINUATION.
- 18"x18" E/A DUCT UP TO <u>F-26</u> ON ROOF. REFER TO DWG M202 FOR CONTINUATION.
- 18"x18" E/A O.E.D. W/ ½" BIRDSCREEN MESH. (16) 52"x20" R/A DUCT DN.
- 17) 14"ø S.S. POOL EVACUATOR DUCT DN.
- (18) CONNECT TO POOL EVACUATOR SYSTEM AT S.S. FLANGE.
- 19) 14"ø S.S E/A DUCT DN. TRANSITION IN VERTICAL TO 12"ø PVC PIPE 24" AF.F.
- 20) 12"ø PVC PIPE ELBOW W/ DRAIN VALVE OPEN TO SUMP PIT. REFER TO PLUMBING DRAWINGS FOR SUMP PIT DETAILS.
- 48"x36" R/A DUCT DN W/ VD IN VERTICAL.
- (22) 4"ø EXHAUST FLUE DN TO POOL HEATER AND UP THROUGH ROOF. REFER TO DWG M202 FOR CONTINUATION.
- 23) 3"Ø PVC COMBUSTION AIR INTAKE TO BOILER. INSTALL PER MANUFACTURE RECOMMENDATION.
- (24) 30"x24" O.E.D. W/ MOD AND 1/2" BIRDSCREEN MESH. (25) WASH-DOWN UNIT HEATER.
- 4"ø O/A DUCT UP TO GRAVITY INTAKE VENT ON ROOF. REFER TO DWG M202 FOR CONTINUATION.
- (27) LOUVER FULL SIZE CONNECTION.
- 28) 24"x30" O/A DUCT UP.



GENERAL NOTES:

COORDINATE LOCATION OF ALL DIFFUSERS, GRILLES AND DUCTWORK WITH LIFT SYSTEM.

DRAWING NOTES:

- 1 RL/RS UP TO PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.
- 2 12"x12" R/A DUCT TO PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.
- 3) 16"ø S/A DUCT. REFER TO DWG M304 FOR CONTINUATION.
- 4 42"x42 S/A DUCT W/FD TO PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.
- 5 14"x14" S/A DUCT UP W/FD TO FCU-1.22 IN PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.
- 6 16"x16" S/A DUCT UP W/FD TO FCU-1.01 IN PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.
- DWG M304 FOR CONTINUATION.

 8 16"x16" S/A DUCT UP W/FD TO FCU-1.02 IN PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.

7 16"x14" R/A DUCT UP W/FD TO FCU-1.01 IN PENTHOUSE. REFER TO

- 9 16"x14" R/A DUCT UP W/FD TO FCU-1.02 IN PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.
- 16"x16" S/A DUCT UP W/FD TO FCU-1.03 IN PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.
- 11 16"x14" R/A DUCT UP W/FD TO FCU-1.03 IN PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.

12"x12" S/A DUCT UP W/FD TO FCU-1.04 IN PENTHOUSE. REFER TO

12"x12" R/A DUCT UP W/FD TO FCU-1.04 IN PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.

DWG M304 FOR CONTINUATION.

- 22"x18" RELIEF AIR DUCT UP W/FD. REFER TO DWG M304 FOR CONTINUATION.
- 15) 18"x18" S/A DUCT UP W/FD. REFER TO DWG M304 FOR CONTINUATION.
- 16"x14" R/A DUCT UP W/FD TO FCU-1.05 IN PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.
- 17) 16"x14" S/A DUCT UP W/FD TO FCU-1.05 IN PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.
- 18) 48"x24" R/A DUCT UP. REFER TO DWG M304 FOR CONTINUATION.
- M304 FOR CONTINUATION.

 20 14"x14" RELIEF AIR DUCT LIP W/FD TO PENTHOUSE REFER TO

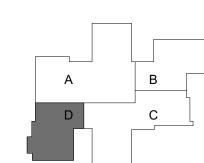
(19) 14"x14" INTAKE DUCT UP W/FD TO PENTHOUSE. REFER TO DWG

- 20) 14"x14" RELIEF AIR DUCT UP W/FD TO PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.
- (21) 16"x16" S/A DUCT UP W/FD TO FCU-1.06 IN PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.
- 22) 14"x14" R/A DUCT UP W/FD TO FCU-1.06 IN PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.
- RETURN AIR GRILLE
 REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.
 36"x60" LOW @ 5000 CFM (300 FPM)
- 36"x60" LOW @ 5000 CFM (300 FPM)
 GRILLE SELECTION BASED ON KEES PATTERN LA-081,
 ARCHITECTURAL STAMPED GRILLE (13/16" LATTICE / 66% OPEN),
 7 ga STEEEL WITH CUSTOM KYNAR FINISH/COLOR.
- 24) 36"x24" R/A TO PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.
- 25) 30"x18" R/A DUCT UP W/FD. REFER TO DWG M304 FOR CONTINUATION.
- 26) 24"x20" E/A DUCT TO PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.
- 6"ø SS DRYER VENT DN. AND UP TO ROOF. REFER TO DWG M202 FOR CONTINUATION.
- (28) 12"x12" SOUNDLINED TRANSFER AIR DUCT.
- (29) 24"x24" SOUNDLINED TRANSFER AIR DUCT.

munumum)

- 30) 12"x12" R/A DUCT TO PENTHOUSE. REFER TO DWG M304 FOR CONTINUATION.
- 31) REFRIGERANT PIPE UP. REFER TO DWG M304 FOR CONTINUAION.

 (32) 14"x14" OED W/1/2" MESH BIRDSCREEN.



KEY PLAN

SCALE: 1/8" = 1'-0"

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PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE
STATE OF MARYLAND.
LICENSE No.
45531
EXPIRATION DATE
06-03-2020

BID SET

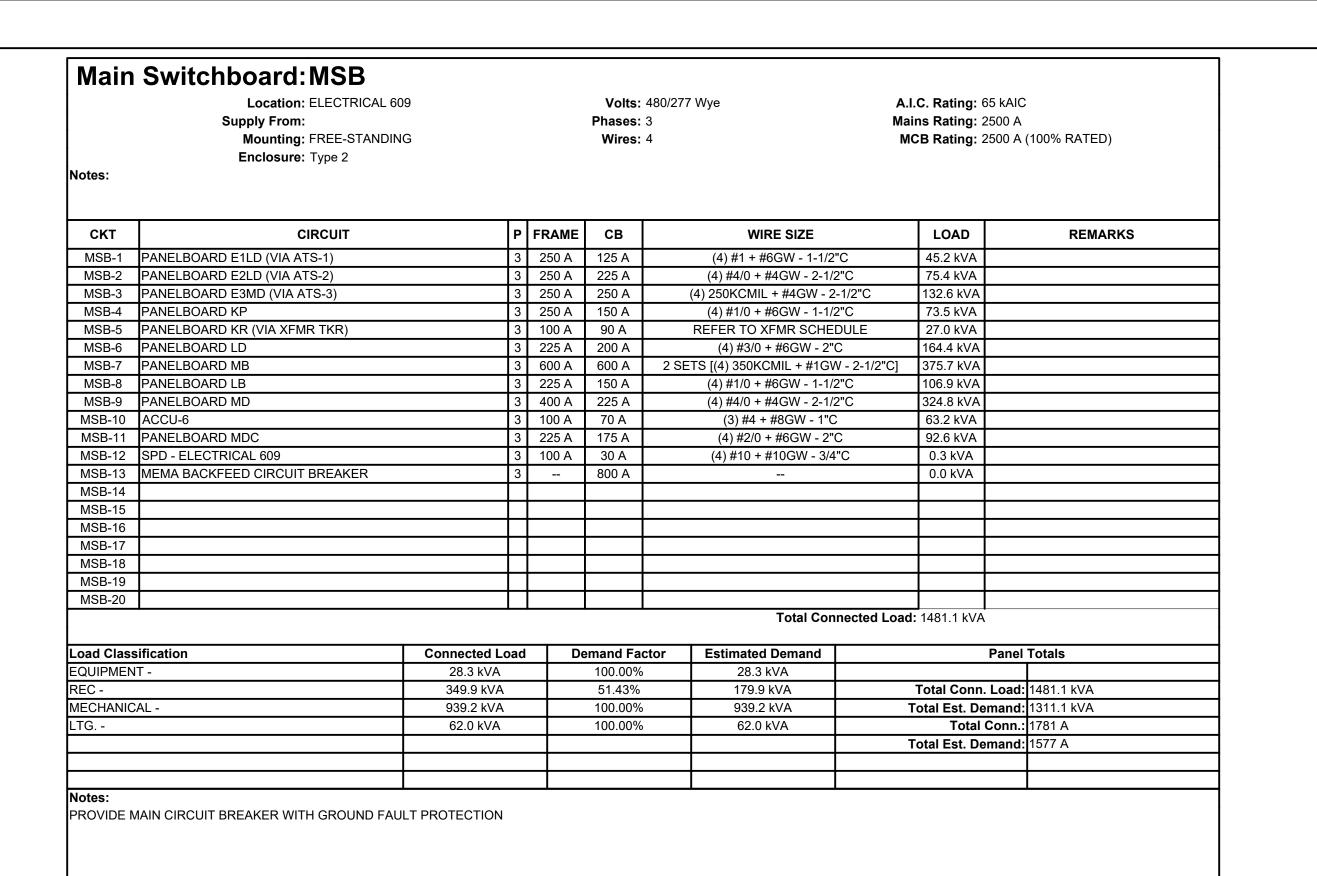
K CREEK SCHOOL

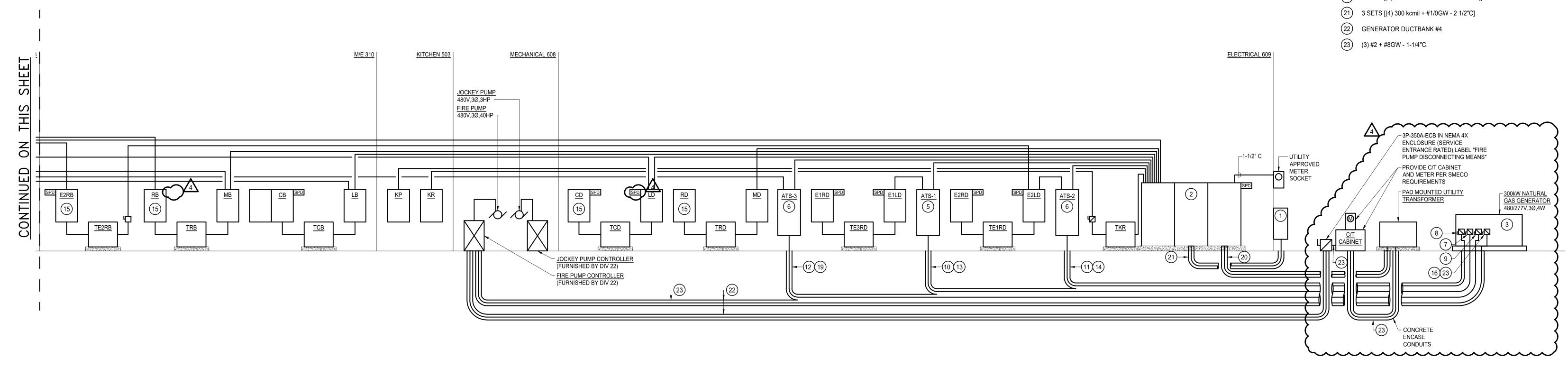
SICK COUNTY PUBLIC SCHOOLS
ST FREDERICK STREET
SVILLE, MARYLAND 21793

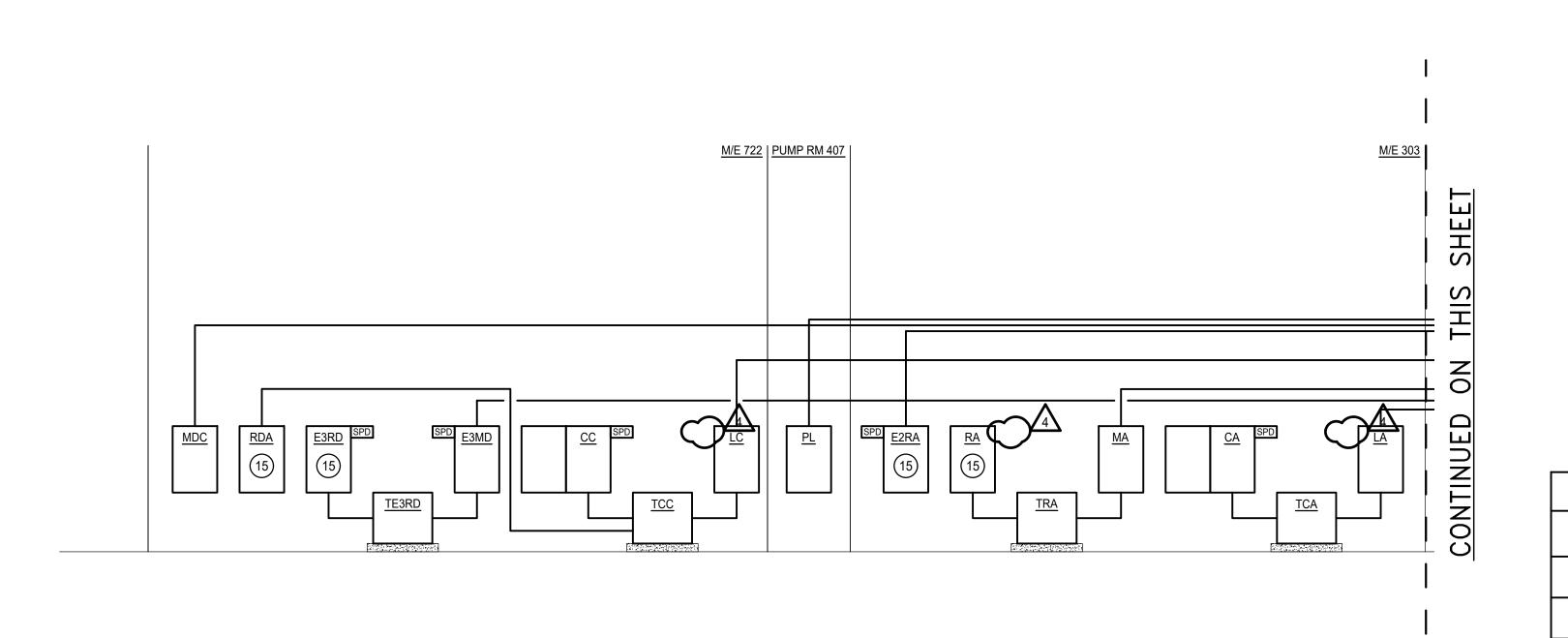
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REV	DATE	DESCRIPTION
4	7/24/19	ADDENDUM No. 4
	OJECT N	
DA.	TE:	07-01-2019

M201D

FIRST FLOOR PLAN -AREA D







					DRY TYPE	TRANSFORMER SCHEDULE						
VELLE	1374		PRIMARY	,			SE	CONDAF	RY	NEUTRAL/	D=114 D160	MOUNTING
XFMR	kVA	VOLTAGE	φ	СВ	PRIMARY WIRING	SECONDARY WIRING	VOLTAGE	φ	СВ	CASE GND	REMARKS	DESCRIPTION
TCA	75	480 V	3	150 A	(3) #1/0 + #6GW - 2"C	(5) 300KCMIL + #2 SSBJ - 3"C	208/120 V	3	225 A	#2	K-13 RATED	FLOOR
ТСВ	45	480 V	3	90 A	(3) #2 + #8GW - 1 1/4"C	(5) #3/0 + #2 SSBJ - 2 1/2"C	208/120 V	3	150 A	#2	K-13 RATED	FLOOR
TCC	45	480 V	6	90 A	(3) #2 + #8GW - 1 1/4"C	(5) #3/0 + #2 SSBJ - 2 1/2"C	208/120 V	3	150 A	#2	K-13 RATED	FLOOR
TCD	75	480 V	3	150 A	(3) #1/0 + #6GW - 2"C	(5) 300KCMIL + #2 SSBJ - 3"C	208/120 V	3	225 A	#2	K-13 RATED	FLOOR
TE1RD	30	480 V	3	60 A	(3) #4 + #10GW - 1"C	(4) #1 + #6 SSBJ - 1 1/2"C	208/120 V	3	100 A	#6		FLOOR
TE2RB	75	480 V	3	150 A	(3) #1/0 + #6GW - 2"C	(4) #4/0 + #2 SSBJ - 2 1/2"C	208/120 V	3	225 A	#2		FLOOR
TE2RD	45	480 V	3	90 A	(3) #2 + #8GW - 1 1/4"C	(5) #3/0 + #2 SSBJ - 2 1/2"C	208/120 V	3	150 A	#2	K-13 RATED	FLOOR
TE3RD	45	480 V	3	90 A	(3) #2 + #8GW - 1 1/4"C	(4) #1/0 + #6 SSBJ - 2"C	208/120 V	3	150 A	#6		FLOOR
TKR	45	480 V	3	90 A	(3) #2 + #8GW - 1 1/4"C	(4) #1/0 + #6 SSBJ - 2"C	208/120 V	3	150 A	#6		FLOOR
TRA	30	480 V	3	60 A	(3) #4 + #10GW - 1"C	(4) #1 + #6 SSBJ - 1 1/2"C	208/120 V	3	100 A	#6		FLOOR
TRB	45	480 V	3	90 A	(3) #2 + #8GW - 1 1/4"C	(4) #1/0 + #6 SSBJ - 2"C	208/120 V	3	150 A	#6		FLOOR
TRD	75	480 V	3	150 A	(3) #1/0 + #6GW - 2"C	(4) #4/0 + #2 SSBJ - 2 1/2"C	208/120 V	3	225 A	#2		FLOOR

DRAWING NOTES:

GENERAL NOTES:

TYPE TRANSFORMER SCHEDULE.

ACCOMMODATE LUG SIZES.

CURRENT AT THE MAIN SERVICE.

INFORMATION.

1. REFER TO PANEL SCHEDULES FOR ADDITIONAL

3. CONTRACTOR SHALL REDUCE FEEDER SIZE (IF

REQUIRED) WITHIN 5'-0 OF EQUIPMENT TO

4. PROVIDE PLACARD POSTING THE AVAILABLE FAULT

5. PROVIDE POWER RISER DIAGRAM, LAMINATED AND

WITH OWNER IN MAIN ELECTRICAL ROOM.

FRAMED 30" X 42" ON MYLAR AND COORDINATE LOCATION

2. PROVIDE TRANSFORMER PRIMARY DISCONNECTS,

WHERE INDICATED, SIZED TO MATCH (OR EXCEED) THE

RATING OF THE PRIMARY CB INDICATED ON THE DRY

- (1) 800A WALL MOUNTED GENERATOR DOCKING STATION, TRYSTAR GDS-08 SERIES OR APPROVED EQUAL. PROVIDE WITH STAINLESS STEEL CONSTRUCTION AND
- 100% GROUNDED OPTIONS. (2) PROVIDE KIRK-KEY INTERLOCK ON MAIN CIRCUIT BREAKER AND GENERATOR DOCKING STATION CIRCUIT
- BREAKER TO PREVENT PARALLEL FEEDING SWITCHBOARD WHEN ROLL-UP GENERATOR IS IN USE. (3) MOUNT GENERATOR CIRCUIT BREAKERS WITHIN GENERATOR ENCLOSURE. FIRE PUMP CIRCUIT BREAKER SHALL BE LOCATED ON OPPOSITE SIDE OF LIFE SAFETY

AND STANDBY CIRCUIT BREAKERS.

- (4) NOT USED (5) 4P-125A, 42kA WITHSTAND (MINIMUM RATINGS).
- (6) 4P-260A, 42kA WITHSTAND (MINIMUM RATINGS).
- (7) 3P-125A-ECB (LSI-TYPE) IN NEMA 3R ENCLOSURE.
- (8) 3P-225-ECB (LSI-TYPE) IN NEMA 3R ENCLOSURE.
- (9) 3P-250-ECB (LSI-TYPE) IN NEMA 3R ENCLOSURE.
- (10) GENERATOR DUCTBANK #1.
- (11) GENERATOR DUCTBANK #2.
- (12) GENERATOR DUCTBANK #3.
- (4) #1 + #6GW 1-1/2"C.
- (4) #4/0 + #4GW 2-1/2"C.
- (16) 3P-90A-ECB IN NEMA 3R ENCLOSURE.

PROVIDE CIRCUITS IN PANELBOARD IN SINGLE SECTION

- 17) NOT USED.
- 18 NOT USED. (4) 250kcmil + #4GW - 2-1/2"C
- (20) 9 SETS [(4) 500kcmil + 1200kcmil GW 3"C)] AL FEEDERS

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NEW FACILITY FOR:

ROCK CREEK SCHOOL
FREDERICK COUNTY PUBLIC SCHOOLS
55B WEST FREDERICK STREET
WALKERSVILLE, MARYLAND 21739

	15	SSUE
EV	DATE	DESCRIPTION
	7/11/19	ADDENDUM No. 2
	7/18/19	ADDENDUM No. 3
	7/24/19	ADDENDUM No. 4
PR	OJECT N	O.: 2017171.00

SCHEMATIC POWER RISER DIAGRAM

E501

otes: CIRCUIT I	Branch Panel: L LOCATION: M SUPPLY FROM: M MOUNTING: S S PART OF ADD ALTERNATE FOR FUT	I/E 310 ISB urface	** PI	ROVID	E BREAK		OLTAGE: PHASE: WIRES:	3 4	Vye				A.I.C. RATINO MAINS RATINO MCB RATINO NEUTRAL RATINO	G : 250 A G : 150 A	
СКТ	CIRCUIT	WIRE SIZE		СВ		A	T				СВ	Р	WIRE SIZE	CIRCUIT	СКТ
LB-1	PANELBOARD LA	(4) #1 + #8GW - 1-1/2"C		100 A		13.7 kVA					90 A	\vdash	XFMR SCHEDULE	PANELBOARD CB (VIA TCB)	LB-2
LB-3			 		10.0		20.4 kVA	13 1 kVA							LB-4
LB-5							20.71(07)		20.1 kVA	10.3		1			LB-6
LB-7	LTG AREA 'A'	(2) #12 + #12GW - 3/4"C	1		3.5 kVA	1.0 kVA					20 A	1	(2) #12 + #12GW - 3/4"C	LTG AREA 'B'	LB-8
LB-9	LTG FUTURE EXPANSION WING*	(2) #12 + #12GW - 3/4"C	_	20 A			2.5 kVA	2.1 kVA			20 A	+	(2) #12 + #12GW - 3/4"C	LTG AQUATIC**	LB-10
LB-11	LTG AQUATIC SUPPORT RM's	(2) #12 + #12GW - 3/4"C	1	20 A					0.6 kVA	0.0 kVA	20 A	1		Spare	LB-12
LB-13	Spare		1	20 A	0.0 kVA	0.0 kVA					20 A	1		Spare	LB-14
LB-15	Spare		1	20 A			0.0 kVA	0.0 kVA			20 A	1		Spare	LB-16
LB-17	Spare		1	20 A					0.0 kVA	0.0 kVA	20 A	1		Spare	LB-18
LB-19	Space				0.0 kVA	0.0 kVA								Space	LB-20
LB-21	Space						0.0 kVA	0.0 kVA						Space	LB-22
LB-23	Space								0.0 kVA	0.0 kVA				Space	LB-24
LB-25	Space				0.0 kVA	0.0 kVA								Space	LB-26
LB-27	Space						0.0 kVA	0.0 kVA						Space	LB-28
LB-29	Space								0.0 kVA	0.0 kVA				Space	LB-30
egend:		Total Connected Load	: 10	06.9	37.9	kVA	38.0	kVA	31.0	kVA					
DAD CL A	SSIFICATION	CON	VEC:	TED L	OAD	DFM	IAND FAC	TOR	ESTIM	MATED DI	FMANI	D	1	PANELBOARD TOTALS	
QUIPMEN		CON		kVA			100.00%		20111	0.2 kVA		_		Conn. Load: 106.9 kVA	
EC -				2 kVA			55.36%			51.6 kVA				st. Demand: 65.3 kVA	
LU -			00.2	,			00.0070				-				

100.00%

11.2 kVA

Total Est. Demand.: 79 A

LOAD CLASSIFICATION

LOAD CLASSIFICATION EQUIPMENT -

MECHANICAL -

EQUIPMENT -

MECHANICAL -

11.2 kVA

	Branch Panel:	LC													
	LOCATION SUPPLY FROM MOUNTING					V	OLTAGE: PHASE: WIRES:	3	Vye			A.I.C. RATING MAINS RATING MCB RATING NEUTRAL RATING	G : 100 A G : 100 A		
otes: CIRCUIT I	IS PART OF ADD ALTERNATE FOR I	PARKS AND REC WING.													
СКТ	CIRCUIT	WIRE SIZE	Р	СВ		A	E	3	C	;	СВ Р	WIRE SIZE		CIRCUIT	СКТ
LC-1	PANELBOARD CC (VIA TCC)	XFMR SCHEDULE	3	90 A	25.4	2.0 kVA					20 A 1	(2) #12 + #12GW - 3/4"C	LTG ARE	A 'D'	LC-2
LC-3							24.8 kVA	3.2 kVA			20 A 1	(2) #12 + #12GW - 3/4"C	LTG ARE	A 'C'	LC-4
LC-5									21.3 kVA	1.9 kVA	20 A 1	(2) #12 + #12GW - 3/4"C	LTG ADN	IIN. AREAS	LC-6
LC-7	LTG PARKS AND REC*	(2) #12 + #12GW - 3/4"C	1	20 A	1.3 kVA	0.0 kVA					20 A 1		Spare		LC-8
LC-9	Spare		1	20 A			0.0 kVA	0.0 kVA			20 A 1		Spare		LC-10
_C-11	Spare		1	20 A					0.0 kVA	0.0 kVA	20 A 1		Spare		LC-12
_C-13	Spare		1	20 A	0.0 kVA	0.0 kVA					20 A 1		Spare		LC-14
LC-15	Spare		1	20 A			0.0 kVA	0.0 kVA			20 A 1		Spare		LC-16
LC-17	Spare		1	20 A					0.0 kVA	0.0 kVA	20 A 1		Spare		LC-18
LC-19	Space				0.0 kVA	0.0 kVA							Space		LC-20
LC-21	Space						0.0 kVA	0.0 kVA					Space		LC-22
LC-23	Space								0.0 kVA	0.0 kVA			Space		LC-24
LC-25	Space				0.0 kVA	0.0 kVA							Space		LC-26
LC-27	Space						0.0 kVA	0.0 kVA					Space		LC-28
LC-29	Space								0.0 kVA	0.0 kVA			Space		LC-30
		Total Connected Load:	79	9.5	28.6	kVA	27.9	kVA	23.1	kVA					
gend:															
	ASSIFICATION	CONN			OAD	DEN	IAND FAC	TOR	ESTIN	IATED DE				RD TOTALS	
UIPMEN C -	NI -			kVA kVA			100.00%			7.3 kVA 29.9 kVA			conn. Load: st. Demand:		
	CAL -			kVA kVA			100.00%			14.1 kVA			otal Conn.:		
······································	o,						100.0070			7.7 kVA		Total Es			

	LOCATION: SUPPLY FROM: MOUNTING:				V	OLTAGE: PHASE: WIRES:	-	Vye			A.I.C. RATIN MAINS RATIN MCB RATIN	G : 100 A	
otes:											NEUTRAL RATIN	G : 100%	
СКТ	CIRCUIT	WIRE SIZE	Р СВ		A		В	(;	СВ Р	WIRE SIZE	CIRCUIT	СКТ
PL-1	5HP RECIRC - PUMP ROOM 407	(3) #10 + #10GW - 3/4"C	3 35 A	2.0 kVA	0.4 kVA					15 A 3	(3) #12 + #12GW - 3/4"C	.75HP FEATURE PUMP - PUMP	PL-2
PL-3						2.0 kVA	0.4 kVA						PL-4
PL-5								2.0 kVA	0.4 kVA				PL-6
PL-7	2HP BLOWER MOTOR - PUMP	(3) #12 + #12GW - 3/4"C	3 15 A	0.9 kVA	0.2 kVA					20 A 1	(2) #12 + #12GW - 3/4"C	CHEMICAL CONTROLLER - PUMP	PL-8
PL-9						0.9 kVA	0.2 kVA			20 A 1	(2) #12 + #12GW - 3/4"C	WATER LEVEL CONTROLLER	PL-10
PL-11								0.9 kVA	0.9 kVA	15 A 2	(2) #10 + #10GW - 3/4"C	COND-8	PL-12
PL-13	F-29, F-30	(2) #12 + #12GW - 3/4"C	1 20 A	0.1 kVA	0.9 kVA								PL-14
PL-15	LIFT PWR - Room 400A, 400B	(2) #12 + #12GW - 3/4"C	1 20 A			0.6 kVA	1.6 kVA			20 A 1	(2) #12 + #12GW - 3/4"C	REC - AQUATIC 400	PL-16
PL-17	Spare		1 20 A					0.0 kVA	0.0 kVA	20 A 1		Spare	PL-18
PL-19	Space			0.0 kVA	0.0 kVA					20 A 1		Spare	PL-20
PL-21	Space					0.0 kVA	0.0 kVA			20 A 1		Spare	PL-22
PL-23	Space							0.0 kVA	0.0 kVA	20 A 1		Spare	PL-24
PL-25	Space			0.0 kVA	0.0 kVA							Space	PL-26
PL-27	Space					0.0 kVA	0.0 kVA					Space	PL-28
PL-29	Space							0.0 kVA	0.0 kVA			Space	PL-30
		Total Connected Load	: 14.5	4.5	kVA	5.7	kVA	4.3	kVA				
gend:				1		1		1.					
4D 01 4	COURTO ATION	0011	JEOTED	1040	DEL	44ND E 46		FOTIL	IATED DE			DANIEL BOARD TOTAL O	
QUIPMEN	ASSIFICATION		NECTED 10.4 kVA		DEN	100.00%		ESTIN	10.4 kVA			PANELBOARD TOTALS Conn. Load: 14.5 kVA	
C -	vi -		2.2 kVA			100.00%			2.2 kVA			st. Demand: 14.5 kVA	
ECHANIC	CAL -		2.0 kVA			100.00%			2.0 kVA			Total Conn.: 40 A	
ГG			0.0 kVA			0.00%			0.0 kVA			st. Demand.: 40 A	

lotes: CIRCUIT I	Branch Panel: I LOCATION: E SUPPLY FROM: N MOUNTING: S S PART OF ADD ALTERNATE FOR MI	ELECTRICAL 609 //SB Surface	0v (CONTE		PHASE: WIRES:		Wye				A.I.C. RATINO MAINS RATINO MCB RATINO NEUTRAL RATINO	G : 250 A G : 200 A			Proffitt & Associate Chite Chi
CKT	CIRCUIT	WIRE SIZE	Р	СВ	Α	I	В	С	;	СВ	Р	WIRE SIZE	CIRCUIT	СКТ	₽º	
LD-1	PANELBOARD CD (VIA TCD)	REFER TO XFMR SCHED.	3	150 A	25.6 28.6 kVA					100 A	3	(4) #1 + #8GW - 1-1/2"C	PANELBOARD LC	LD-2		49 SOUTH CARROLL STRE FREDERICK, MARYLAND 21
LD-3						27.9 kVA	27.9 kVA							LD-4		PHONE (301) 662-8532
LD-5								26.4 kVA	23.1					LD-6		FAX (301) 662-4192
LD-7	LTG CORR.'s 003, 009, 011, 020,	(2) #12 + #12GW - 3/4"C	1	20 A	3.2 kVA 3.8 kVA					20 A	1	(2) #12 + #12GW - 3/4"C	LTG CORR.'s 012, 013, 015, 017	LD-8		info@proffittandassociates.c
LD-9	LTG MEDIA, AREA 'C'	(2) #12 + #12GW - 3/4"C	1	20 A		3.1 kVA	2.5 kVA			20 A	1	(2) #12 + #12GW - 3/4"C	LTG MIDDLE SCHOOL WING*	LD-10	١Ē	
LD-11	SITE LTG SOUTH WEST**	(2) #4 + #4GW - 1-1/4"C	1	20 A				1.7 kVA	1.3 kVA	20 A	1	(2) #12 + #12GW - 3/4"C	LTG COMMONS 002, CORR. 009	LD-12		BECKE
LD-13	SITE LTG NORTH EAST**	(2) #8 + #8GW - 1-1/4"C	1	20 A	1.0 kVA 1.7 kVA					20 A	1	(2) #12 + #12GW - 3/4"C	LTG KITCHEN, SUPPORT RMs	LD-14		
LD-15	Spare		1	20 A		0.0 kVA	0.0 kVA			20 A	1		Spare	LD-16		MORGAN
LD-17	Spare		1	20 A				0.0 kVA	0.0 kVA	20 A	1		Spare	LD-18		
LD-19	Spare		1	20 A	0.0 kVA 0.0 kVA					20 A	1		Spare	LD-20		G R O U
LD-21	Spare		1	20 A		0.0 kVA	0.0 kVA			20 A	1		Spare	LD-22		
LD-23	Spare		1	20 A				0.0 kVA	0.0 kVA	20 A	1		Spare	LD-24		ARCHITECTUI
LD-25	Space				0.0 kVA 0.0 kVA								Space	LD-26		ENGINEERIN
LD-27	Space					0.0 kVA	0.0 kVA						Space	LD-28	-	
LD-29	Space							0.0 kVA	0.0 kVA				Space	LD-30		312 W MAIN ST., SUITE 3 SALISBURY, MARYLAND 27
LD-31	Space				0.0 kVA 0.0 kVA								Space	LD-32		PHONE (410) 564-9100
LD-33	Space					0.0 kVA	0.0 kVA						Space	LD-34		FAX (410) 546-5824
LD-35	Space							0.0 kVA	0.0 kVA	~~	V-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Space	~LD-36~		info@beckermorgan.com
LD-37	Space				0.0 kVA 0.1 kVA				{	30 A	3	(4) #10 + #10GW - 3/4	SPD - ELECTRICAL 609	LD-38	Ĭ Ţ	
LD-39	Space					0.0 kVA	0.1 kVA		{					LD-40	5	
LD-00			-													

	Branch Panel:	MA												
otes:	LOCATION: SUPPLY FROM: MOUNTING:	MB			V	OLTAGE: PHASE: WIRES:	3	Wye				A.I.C. RATING MAINS RATING MCB RATING NEUTRAL RATING	3 : 225 A 3 : 150 A	
CKT	CIRCUIT	WIRE SIZE	Р СВ		A	E	3	C	2	СВ	Р	WIRE SIZE	CIRCUIT	СКТ
MA-1	PANELBOARD RA (VIA TRA)			5.6 kVA	1					15 A	+	(3) #12 + #12GW - 3/4"C	DOAS-5A (AH)+	MA-2
MA-3						6.8 kVA	1.7 kVA							MA-4
MA-5								10.6 kVA	1.7 kVA					MA-6
MA-7	CUH-4 - VEST 005A	(2) #10 + #10GW - 3/4"C	1 25 /	5.0 kVA	5.0 kVA					25 A	3	(3) #10 + #10GW - 3/4"C	ACCU-5+	MA-8
MA-9	CUH-3 - VESTIBULE 005	(2) #10 + #10GW - 3/4"C	1 25 /	A		5.0 kVA	5.0 kVA				11			MA-10
MA-11									5.0 kVA		1			MA-12
MA-13	VRF-ZONE-5+	(3) #8 + #10GW - 3/4"C	3 40 A	8.8 kVA	0.0 kVA					20 A	1		Spare	MA-14
MA-15						8.8 kVA	0.0 kVA			20 A	1		Spare	MA-16
MA-17								8.8 kVA	0.0 kVA	20 A	1		Spare	MA-18
MA-19	Spare		1 20 A	0.0 kVA	0.0 kVA					20 A	1		Spare	MA-20
MA-21	Spare		1 20 A	4		0.0 kVA	0.0 kVA			20 A	1		Spare	MA-22
MA-23	Spare		1 20 A	4				0.0 kVA	0.0 kVA	20 A	1		Spare	MA-24
MA-25	Space			0.0 kVA	0.0 kVA								Space	MA-26
MA-27	Space					0.0 kVA	0.0 kVA					-	Space	MA-28
MA-29	Space							0.0 kVA	0.0 kVA			-	Space	MA-30
MA-31	Space			0.0 kVA	0.0 kVA								Space	MA-32
MA-33	Space					0.0 kVA	0.0 kVA						Space	MA-34
MA-35	Space							0.0 kVA	0.0 kVA				Space	MA-36
MA-37	Space			0.0 kVA	0.0 kVA								Space	MA-38
MA-39	Space					0.0 kVA	0.0 kVA						Space	MA-40
MA-41	Space							0.0 kVA	0.0 kVA				Space	MA-42
		Total Connected Load:	79.5	26.1	l kVA	27.3	kVA	26.1	kVA					

DEMAND FACTOR

100.00%

88.52%

100.00%

0.00%

DEMAND FACTOR

100.00%

53.96%

100.00%

100.00%

ESTIMATED DEMAND

7.5 kVA

68.1 kVA

14.1 kVA

22.1 kVA

ESTIMATED DEMAND

0.6 kVA

11.5 kVA

66.0 kVA

0.0 kVA

PANELBOARD TOTALS

Total Conn. Load: 177.6 kVA

Total Conn.: 214 A

PANELBOARD TOTALS

Total Conn. Load: 79.5 kVA

Total Est. Demand: 78.0 kVA

Total Conn.: 96 A

Total Est. Demand.: 94 A

Total Est. Demand: 119.6 kVA

Total Est. Demand.: 144 A

CONNECTED LOAD

7.5 kVA

126.2 kVA

14.1 kVA

22.1 kVA

CONNECTED LOAD

0.6 kVA

13.0 kVA

66.0 kVA

0.0 kVA

DER ADD ALTERNATE #5					•	OLTAGE: 480/2 PHASE: 3 WIRES: 4	77 Wye			A.I.C. RATINO MAINS RATINO MCB RATINO NEUTRAL RATINO	G: 600 A G: 600 A		
CIRCUIT	WIRE SIZE	Р	СВ		A	В		С	СВР	WIRE SIZE		CIRCUIT	СКТ
NELBOARD RB (VIA TRB)	XFMR SCHEDULE	3	150 A	18.4	26.1 kVA				150 A 3	(4) #1/0 + #6GW - 1-1/2"C	PANELBOA	ARD MA	MB-2
						14.6 kVA 27.3 l	VA						MB-4
							16.7 kV	A 26.1			-		MB-6
26	(3) #12 + #12GW - 3/4"C	3	20 A	0.3 kVA	2.8 kVA				15 A 3	(3) #12 + #12GW - 3/4"C	DOAS-2 (A	H) - PENTHOUSE B109	MB-8
						0.3 kVA 2.8 k	/A						MB-10
							0.3 kV	4 2.8 kVA					MB-12
DAS-5A (CU)*	(3) #6 + #10GW - 3/4"C	3	50 A	10.3	2.8 kVA				15 A 3	(3) #12 + #12GW - 3/4"C	DOAS-5A (AH)*	MB-14
						10.3 kVA 2.8 k	/A						MB-16
							10.3 kV	A 2.8 kVA			-		MB-18
CCU-2	(3) #6 + #10GW - 3/4"C	3	50 A	10.5	8.8 kVA				40 A 3	(3) #8 + #10GW - 3/4"C	VRF-ZONE	-2B	MB-20
						10.5 kVA 8.8 k	/A						MB-22
							10.5 k\	A 8.8 kVA					MB-24
RF-ZONE-2A	(3) #8 + #10GW - 3/4"C	3	40 A	10.0	5.8 kVA				25 A 3	(3) #10 + #10GW - 3/4"C	VRF-ZONE	-5*	MB-26
						10.0 kVA 5.8 k	/A						MB-28
							10.0 k\	A 5.8 kVA					MB-30
RU-1	(3) #6 + #10GW - 3/4"C	3	60 A	12.5	10.5 kVA				50 A 3	(3) #6 + #10GW - 3/4"C	ACCU-5*		MB-32
						12.5 kVA 10.5 l	VA						MB-34
							12.5 k\	A 10.5					MB-36
RF-ZONE-2C	(3) #8 + #10GW - 3/4"C	3	40 A	8.8 kVA	0.0 kVA				20 A 1		Spare		MB-38
						8.8 kVA 0.0 k	/A		20 A 1		Spare		MB-40
							8.8 kV	0.0 kVA	20 A 1		Spare		MB-42
are		1	20 A	0.0 kVA	0.0 kVA						Space		MB-44
are		1	20 A			0.0 kVA 0.0 k	/A				Space		MB-46
are		1	20 A				0.0 kV	4 0.0 kVA			Space		MB-48
ace				0.0 kVA	0.0 kVA						Space		MB-50
ace						0.0 kVA 0.0 k	/A				Space		MB-52
ace							0.0 kV	4 0.0 kVA			Space		MB-54
	Total Connected Load:	37	78.7	127.	7 kVA	125.0 kVA	126	0.0 kVA					
2	AS-5A (CU)* CU-2 F-ZONE-2A U-1 F-ZONE-2C are are are are are are are are	NELBOARD RB (VIA TRB) XFMR SCHEDULE 6	NELBOARD RB (VIA TRB) XFMR SCHEDULE	NELBOARD RB (VIA TRB) XFMR SCHEDULE 3 150 A 6 (3) #12 + #12GW - 3/4"C 3 20 A AS-5A (CU)* (3) #6 + #10GW - 3/4"C 3 50 A CU-2 (3) #6 + #10GW - 3/4"C 3 50 A F-ZONE-2A (3) #8 + #10GW - 3/4"C 3 40 A CU-1 (3) #6 + #10GW - 3/4"C 3 60 A F-ZONE-2C (3) #8 + #10GW - 3/4"C 3 60 A GREEN 1 20 A are 1 20 A are 1 20 A are 1 20 A are 1 20 A are 1 20 A	NELBOARD RB (VIA TRB) XFMR SCHEDULE 3 150 A 18.4	NELBOARD RB (VIA TRB) XFMR SCHEDULE 3 150 A 18.4 26.1 kVA	NELBOARD RB (VIA TRB) XFMR SCHEDULE 3 150 A 18.4 26.1 kVA 14.6 kVA 27.3 k 6 (3) #12 + #12GW - 3/4"C 3 20 A 0.3 kVA 2.8 kVA 10.3 kVA 2.8 kVA AS-5A (CU)* (3) #6 + #10GW - 3/4"C 3 50 A 10.3 2.8 kVA 10.5 kVA 2.8 kVA 10.5 kVA 2.8 kVA 10.3 kVA 2.8 kVA 10.3 kVA 2.8 kVA 10.3 kVA 2.8 kVA 10.5 kVA 3.8 kVA 3.0 kVA	NELBOARD RB (VIA TRB) XFMR SCHEDULE	NELBOARD RB (VIA TRB) XFMR SCHEDULE 3 150 A 18.4 26.1 kVA 14.6 kVA 27.3 kVA 16.7 kVA 26.1 6 (3) #12 + #12GW - 3/4*°C	NELBOARD RB (VIA TRB)	NELBOARD RB (VIA TRB) XFMR SCHEDULE 3 150 A 18.4 26.1 kVA	NELBOARD RB (VIA TRB) XFMR SCHEDULE 3	NELBOARD RB (VIA TRB) XFMR SCHEDULE 3 150 A 184 26.1 kVA

offitt & Assoc.



303 INTERNATIONAL CIRCLE SUITE 450 HUNT VALLEY, MD 21030 PHONE (410) 842-6411 www.albanengineering.com

ISSUE REV DATE DESCRIPTION PANELBOARD SCHEDULES

	Branch Panel:	MDC													
lotoo.	LOCATION: SUPPLY FROM: MOUNTING:	MSB			V	OLTAGE: PHASE: WIRES:		Wye				A.I.C. RATING MAINS RATING MCB RATING NEUTRAL RATING	G : 250 A G : 175 A		
lotes:						ı		1		I				1	
CKT	CIRCUIT	WIRE SIZE	P CB		4	I	В	(СВ	Р	WIRE SIZE	CIRCUIT	СКТ	
MDC-1	DOAS-1 (AH) - PENTHOUSE 999	(3) #12 + #12GW - 3/4"C	3 15 A	2.8 kVA	5.8 kVA					25 A	3	(3) #10 + #10GW - 3/4"C	VRF-ZONE-1B	MDC-2	
MDC-3						2.8 kVA	5.8 kVA							MDC-4	
MDC-5								2.8 kVA	5.8 kVA					MDC-6	
MDC-7	VRF-ZONE-1A	(3) #8 + #10GW - 3/4"C	3 40 A	8.8 kVA	1.7 kVA					15 A	3	(3) #12 + #12GW - 3/4"C	AHU-3 - PARKS & REC STORAGE	MDC-8	
MDC-9						8.8 kVA	1.7 kVA							MDC-1	
MDC-11								8.8 kVA	1.7 kVA					MDC-1	
MDC-13	ACCU-8	(3) #8 + #10GW - 3/4"C	3 40 A	8.0 kVA	5.0 kVA					25 A	1	(2) #10 + #10GW - 3/4"C	CUH-1 - VEST 025	MDC-1	
MDC-15						8.0 kVA	3.0 kVA			15 A	1	(2) #12 + #12GW - 3/4"C	EUH-2 - CHAIR STORAGE 900A	MDC-1	
MDC-17								8.0 kVA	3.0 kVA	15 A	1	(2) #12 + #12GW - 3/4"C	EUH-1 - GYM OUTDOOR STORAG	MDC-1	
MDC-19	Spare		1 20 A	0.0 kVA	0.0 kVA					20 A	1		Spare	MDC-2	
MDC-21	Spare		1 20 A			0.0 kVA	0.0 kVA			20 A	1		Spare	MDC-2	
MDC-23	Spare		1 20 A					0.0 kVA	0.0 kVA	20 A	1		Spare	MDC-2	
MDC-25	Space			0.0 kVA	0.0 kVA					20 A	1		Spare	MDC-2	
MDC-27	Space					0.0 kVA	0.0 kVA			20 A	1		Spare	MDC-2	
MDC-29	Space							0.0 kVA	0.0 kVA	20 A	1		Spare	MDC-3	
MDC-31	Space			0.0 kVA	0.0 kVA								Space	MDC-3	
MDC-33	Space					0.0 kVA	0.0 kVA						Space	MDC-3	
MDC-35	Space							0.0 kVA	0.0 kVA				Space	MDC-3	
MDC-37	Space			0.0 kVA	0.0 kVA								Space	MDC-3	
MDC-39	Space					0.0 kVA	0.0 kVA						Space	MDC-4	
MDC-41	Space							0.0 kVA	0.0 kVA				Space	MDC-4	
		Total Connected Load:	92.6	32.1	kVA	30.2	kVA	30.2	kVA						
egend:															
OAD CLA	SSIFICATION	CONN	ECTED L	OAD	DEN	IAND FAC	CTOR	ESTIN	ATED DE	EMANI	D		PANELBOARD TOTALS		
QUIPMEN	T		0.0 kVA			0.00%			0.0 kVA			Total C	Conn. Load: 92.6 kVA		
REC -			0.0 kVA			0.00%		0.0 kVA Total Est. Demand: 92.6 kVA							
MECHANIC	AL -		92.6 kVA			100.00%		92.6 kVA Total Conn.: 111 A							
.TG			0.0 kVA			0.0 kVA 0.00%					0.0 kVA Total Est. Demand.: 111 A				

	LOCATION: E SUPPLY FROM: 7 MOUNTING: S	rcc					V	OLTAGE: PHASE: WIRES:	3	Wye		A.I.C. RATING: 10 kAIC MAINS RATING: 100 A MCB RATING: 60 A NEUTRAL RATING: 100%			G: 100 A G: 60 A	
Notes: *GFCI CIRC	CUIT BREAKER-TYPE															
CKT	CIRCUIT	WIRE SIZ	E	Р	СВ		Α	E	3		С	СВ	P	WIRE SIZE	CIRCUIT	СКТ
RDA-1	VRF-1.04-1.06 - PENTHOUSE 999	(2) #12 + #12GW	/ - 3/4"C	2	15 A	1.5 kVA	0.6 kVA					15 A	2	(2) #12 + #12GW - 3/4"C	VRF-1.07,1.12-1.14	RDA-2
RDA-3								1.5 kVA	0.6 kVA			-	-			RDA-4
RDA-5	VRF-3.16	(2) #12 + #12GW	/ - 3/4"C	2	15 A					0.1 kVA	1.5 kVA	15 A	2	(2) #12 + #12GW - 3/4"C	VRF-1.01-1.03 - PENTHOUSE 999	RDA-6
RDA-7						0.1 kVA	1.5 kVA					-				RDA-8
RDA-9	VRF-3.18,3.19	(2) #12 + #12GW	/ - 3/4"C	2	15 A			0.6 kVA	0.4 kVA			15 A	2	(2) #12 + #12GW - 3/4"C	VRF-3.20-3.23	RDA-10
RDA-11										0.6 kVA	0.4 kVA	-				RDA-12
RDA-13	VRF-1.22 - PENTHOUSE 999	(2) #12 + #12GW	/ - 3/4"C	2	15 A	0.5 kVA	1.5 kVA					20 A	1	(2) #12 + #12GW - 3/4"C	WH-4 - CUST. 909	RDA-14
RDA-15								0.5 kVA	1.2 kVA			20 A	1	(2) #12 + #12GW - 3/4"C	REC++ - P&R 914,915	RDA-16
RDA-17	WH-1 - CORR 020A	(2) #12 + #12GW	/ - 3/4"C	1	20 A					1.5 kVA	0.4 kVA	15 A	1	(2) #12 + #12GW - 3/4"C	UH-7 - PENTHOUSE 999	RDA-18
RDA-19																RDA-20
RDA-21																RDA-22
RDA-23																RDA-24
RDA-25																RDA-26
RDA-27																RDA-28
RDA-29																RDA-30
		Total Connect	ted Load:	15	.3	5.9	kVA	4.9	kVA	4.6	kVA					
Legend:																
LOAD CLA	SSIFICATION		CONN	ECT	ED L	.OAD	DEN	MAND FAC	TOR	ESTI	MATED DE	EMAND			PANELBOARD TOTALS	
EQUIPMEN	T -			0.0				0.00%			0.0 kVA				onn. Load: 15.3 kVA	
REC -				1.2				100.00%			1.2 kVA				t. Demand: 15.3 kVA	
MECHANIC LTG	AL -				kVA			100.00%			14.1 kVA	<u> </u>			otal Conn.: 43 A	
LIG				0.0	κvΑ			0.00%			0.0 kVA			I Otal ES	:. Demand.: 43 A	

Branch Panel: RDA

	Branch Panel:	MD												
	LOCATION: SUPPLY FROM: MOUNTING:				V	OLTAGE: PHASE: WIRES:		Vye		A.I.C. RATING: 22 KAIC MAINS RATING: 600 A MCB RATING: 600 A				
lotes: PROVIDE	UNDER ADD ALTERNATE #4										NEUTRAL RATIN	G : 100%		
СКТ	CIRCUIT	WIRE SIZE	Р СВ		A	ı	3	C	;	СВ	P WIRE SIZE	CIRCUIT	СКТ	
MD-1	PANELBOARD RD (VIA TRD)	XFMR SCHEDULE	3 150 A	15.2	4.2 kVA					20 A	3 (3) #12 + #12GW - 3/4"C	DOAS-3 (AH) - PENTHOUSE E109	MD-2	
MD-3						14.2 kVA	4.2 kVA						MD-4	
MD-5								14.8 kVA	4.2 kVA				MD-6	
MD-7	VRF-ZONE-3B	(3) #8 + #10GW - 3/4"C	3 40 A	8.8 kVA	8.8 kVA					40 A	3 (3) #8 + #10GW - 3/4"C	VRF-ZONE-3C	MD-8	
MD-9						8.8 kVA	8.8 kVA						MD-10	
MD-11								8.8 kVA	8.8 kVA				MD-12	
MD-13	VRF-ZONE-3A	(3) #8 + #10GW - 3/4"C	3 40 A	10.0	10.0 kVA					40 A	3 (3) #8 + #10GW - 3/4"C	VRF-ZONE-4*	MD-14	
MD-15						10.0 kVA	10.0 kVA						MD-16	
MD-17								10.0 kVA	10.0	-			MD-18	
MD-19	ACCU-3	(3) #4 + #8GW - 1"C	3 70 A	16.1	8.0 kVA					40 A	3 (3) #8 + #10GW - 3/4"C	ACCU-4*	MD-20	
MD-21						16.1 kVA	8.0 kVA						MD-22	
MD-23								16.1 kVA	8.0 kVA				MD-24	
MD-25	ACCU-1	(3) #8 + #10GW - 3/4"C	3 40 A	8.0 kVA	5.5 kVA					25 A	3 (3) #10 + #10GW - 3/4"C	AHU-1 - PENTHOUSE 510	MD-26	
MD-27						8.0 kVA	5.5 kVA			-			MD-28	
MD-29								8.0 kVA	5.5 kVA				MD-30	
MD-31	RTU-1	(3) #10 + #10GW - 3/4"C	3 35 A	6.1 kVA	1.6 kVA					20 A	3 (3) #12 + #12GW - 3/4"C	F-28 - PENTHOUSE 999	MD-32	
MD-33						6.1 kVA	1.6 kVA						MD-34	
MD-35								6.1 kVA	1.6 kVA				MD-36	
MD-37	DOAS-4A (AH)*	(3) #12 + #12GW - 3/4"C	3 15 A	2.8 kVA	1.6 kVA					20 A	3 (3) #12 + #12GW - 3/4"C	F-27 (ROOF)	MD-38	
MD-39						2.8 kVA	1.6 kVA						MD-40	
MD-41								2.8 kVA	1.6 kVA				MD-42	
MD-43	CUH-2 - VEST 017A	(2) #10 + #10GW - 3/4"C	1 25 A	5.0 kVA									MD-44	
MD-45													MD-46	
MD-47													MD-48	
MD-49													MD-50	
MD-51													MD-52	
MD-53													MD-54	
		Total Connected Load:	324.0	111.8	8 kVA	105.8	3 kVA	106.4	kVA					
_egend:													M	
	SSIFICATION		ECTED L	.OAD	DEM	IAND FAC	TOR	ESTIN	IATED DE			PANELBOARD TOTALS		
EQUIPMEN	IT -		5.9 kVA			100.00%			5.9 kVA			Conn. Load: 324.0 kVA		
REC - MECHANIC	`AI -		8.4 kVA 09.7 kVA			100.00%			8.4 kVA 309.7 kV			st. Demand: 324.0 kVA Total Conn.: 390 A		
NICHAINIC	//L -	3	US./ KVA			100.00%			JUB./ KV/	٦	1	I Otal OUTITI. 380 A		

mentione and the continuation of the continuat

	Branch Panel: F	RA											
	LOCATION: EI Supply from: Tr Mounting: Si	RA		V	OLTAGE: PHASE: WIRES:		Wye				A.I.C. RATIN MAINS RATIN MCB RATIN NEUTRAL RATIN	G : 100 A G : 100 A	
	E GFCI CIRCUIT BREAKER UNDER ADD ALTERNATE #2										NEOTIVAL IVATIV	3. 100%	
СКТ	CIRCUIT	WIRE SIZE	Р СВ	Α	ı	В	(3	СВ	Р	WIRE SIZE	CIRCUIT	СКТ
RA-1	REFRIG INSTRUC. KITCHEN 305	(2) #12 + #12GW - 3/4"C	1 20 A	0.2 kVA 0.0 kVA					20 A	1	(2) #12 + #12GW - 3/4"C	F-50	RA-2
RA-3	F-42 - PENTHOUSE AREA A (ADD	(2) #12 + #12GW - 3/4"C	1 20 A		0.5 kVA	0.1 kVA			20 A	1	(2) #12 + #12GW - 3/4"C	F-6,	RA-4
RA-5	REC - INSTRUCTIONAL KITCHEN	(2) #12 + #12GW - 3/4"C	1 20 A				1.2 kVA	2.5 kVA	50 A	2	(3) #6 + #10GW - 3/4"C	RANGE - INSTRUCT. KITCHEN 305	RA-6
RA-7	WASHER - DAILY LIVING SUITE 306	(2) #12 + #12GW - 3/4"C	1 20 A	0.2 kVA 2.5 kVA									RA-8
RA-9	REC - CORR	(2) #12 + #12GW - 3/4"C	1 20 A		1.2 kVA	0.2 kVA			20 A	1	(2) #12 + #12GW - 3/4"C	EWC* - CORR 007	RA-10
RA-11	REFRIG - STAFF SUPPORT A113	(2) #12 + #12GW - 3/4"C	1 20 A				0.2 kVA	0.2 kVA	20 A	1	(2) #12 + #12GW - 3/4"C	VENDING - STAFF SUPPORT A113	RA-12
RA-13	VRF-1.15,1.18-1.21	(2) #12 + #12GW - 3/4"C	2 15 A	0.5 kVA 0.3 kVA					15 A	2	(2) #12 + #12GW - 3/4"C	VRF-6.07-6.12+	RA-14
RA-15					0.5 kVA	0.3 kVA							RA-16
RA-17	REC - VESTIBULE 001	(2) #12 + #12GW - 3/4"C	1 20 A				1.6 kVA						RA-18
RA-19				0.2 kVA					20 A	1	(2) #12 + #12GW - 3/4"C	EWC*- CORR. 011	RA-20
RA-21	REC - CORR. 011	(2) #12 + #12GW - 3/4"C	1 20 A		0.8 kVA	0.1 kVA			20 A	2	(3) #8 + #10GW - 3/4"C	DRYER - DAILY LIVING SUITE 306	RA-22
RA-23	REC - Room 306, 306A		1 20 A				1.8 kVA	0.1 kVA					RA-24
RA-25	F-39, F-40, F-41, F-51	(2) #12 + #12GW - 3/4"C	1 20 A	0.3 kVA 0.4 kVA					15 A	1	(2) #12 + #12GW - 3/4"C	UH-8 - PENTHOUSE A116	RA-26
RA-27	F-5, F-25	(2) #12 + #12GW - 3/4"C	1 20 A		1.1 kVA	0.0 kVA			20 A	1		Spare	RA-28
RA-29	Spare		1 20 A				0.0 kVA	0.0 kVA	20 A	1		Spare	RA-30
RA-31	Spare		1 20 A	0.0 kVA 0.0 kVA					20 A	1		Spare	RA-32
RA-33	Spare		1 20 A		0.0 kVA	0.0 kVA			20 A	1		Spare	RA-34
RA-35	Spare		1 20 A				0.0 kVA	0.0 kVA	20 A	1		Spare	RA-36
RA-37	Space			0.0 kVA 0.0 kVA								Space	RA-38
RA-39	Space				0.0 kVA	0.0 kVA						Space	RA-40
RA-41	Space	-					0.0 kVA	0.0 kVA		 		Space	RA-42
RA-43	Space			0.0 kVA 0.0 kVA						11		Space	RA-44
RA-45	Space				0.0 kVA	0.0 kVA						Space	RA-46
RA-47	VRF-5.03, 5.06+	(2) #12 + #12GW - 3/4"C	2 15 A				1.0 kVA	0.0 kVA		11		Space	RA-48
RA-49				1.0 kVA 0.0 kVA								Space	RA-50
RA-51	VRF-5.01, 5.02+	(2) #12 + #12GW - 3/4"C	2 15 A		1.0 kVA	1.0 kVA			15 A	2	(2) #12 + #12GW - 3/4"C	VRF-5.04, 5.05+	RA-52
RA-53							1.0 kVA	1.0 kVA					RA-54
		Total Connected Load:	23.1	5.6 kVA	6.8	kVA	10.6	kVA					

MECHANIC	CAL -		9.5	kVA			100.00%			9.5 kVA			1	Total Conn.:	64 A	
LTG			0.0	kVA			0.00%			0.0 kVA			Total Es	t. Demand.:	60 A	
	Branch Panel: F	RB														
	LOCATION: M	/E 310				V	OLTAGE:	120/208 V	Vye				A.I.C. RATIN	G : 10 kAIC		
	SUPPLY FROM: T	RB					PHASE:	3					MAINS RATIN	G : 225 A		
	MOUNTING: S	urface					WIRES:	4					MCB RATIN			
Notes:													NEUTRAL RATIN	G : 100%		
* PROVIDE	GFCI CIRCUIT BREAKER UNDER ADD ALTERNATE #5															
СКТ	CIRCUIT	WIRE SIZE	Р	СВ	-	4	E	3	C	;	СВ	Р	WIRE SIZE		CIRCUIT	СКТ
RB-1	MICROWAVE - C105	(2) #12 + #12GW - 3/4"C	1	20 A	1.0 kVA	1.0 kVA					20 A	1	(2) #12 + #12GW - 3/4"C	REFRIG - S	SHARED LEARNING C105	RB-2
RB-3	EWC* - SHARED LEARNING C105	(2) #12 + #12GW - 3/4"C	1	20 A			1.0 kVA	1.2 kVA			20 A	1	(2) #12 + #12GW - 3/4"C	REC		RB-4
RB-5	REC - 014,C104A,C104B	(2) #12 + #12GW - 3/4"C	1	20 A					1.0 kVA	1.2 kVA	20 A	1	(2) #12 + #12GW - 3/4"C	REC - C102	2A,C102B,C103A,C103B	RB-6
RB-7	VRF-2.02,2.03 - PENTHOUSE B109	(2) #12 + #12GW - 3/4"C	2	15 A	1.0 kVA	0.7 kVA					20 A	2	(2) #12 + #12GW - 3/4"C	VRF-2.01 -	PENTHOUSE B109	RB-8
RB-9							1.0 kVA	0.7 kVA								RB-10
RB-11	VRF-2.07,2.08,2.10 - PENTHOUSE	(2) #12 + #12GW - 3/4"C	2	15 A					1.7 kVA	1.5 kVA	15 A	2	(2) #12 + #12GW - 3/4"C	VRF-2.04-2	.06 - PENTHOUSE B109	RB-12
RB-13					1.7 kVA	1.5 kVA										RB-14
RB-15	VRF-2.09 - PENTHOUSE B109	(2) #12 + #12GW - 3/4"C	2	15 A			0.9 kVA	0.9 kVA			15 A	2	(2) #12 + #12GW - 3/4"C	VRF-2.11 -	M/E 310	RB-16
RB-17									0.9 kVA	0.9 kVA						RB-18
RB-19	VRF-2.12,2.13	(2) #12 + #12GW - 3/4"C	2	15 A	0.7 kVA	0.3 kVA					15 A	2	(2) #12 + #12GW - 3/4"C	VRF-2.14,2	.15	RB-20
RB-21							0.7 kVA	0.3 kVA								RB-22
1102																

DEMAND FACTOR

100.00%

88.52%

CONNECTED LOAD

0.6 kVA

13.0 kVA

ESTIMATED DEMAND

0.6 kVA

11.5 kVA

PANELBOARD TOTALS

Total Conn. Load: 23.1 kVA

Total Est. Demand: 21.6 kVA

LOAD CLASSIFICATION

EQUIPMENT -

	CKI	CIRCUIT	WIRE SIZE	P	В	A		В		خ	CB		WIRE SIZE	CIRCUIT	CKI
	RB-1	MICROWAVE - C105	(2) #12 + #12GW - 3/4"C	1 20	A 1.0 kVA	1.0 kVA					20 A	1	(2) #12 + #12GW - 3/4"C	REFRIG - SHARED LEARNING C105	RB-2
	RB-3	EWC* - SHARED LEARNING C105	(2) #12 + #12GW - 3/4"C	1 20	А		1.0 kVA	1.2 kVA			20 A	1	(2) #12 + #12GW - 3/4"C	REC	RB-4
	RB-5	REC - 014,C104A,C104B	(2) #12 + #12GW - 3/4"C	1 20	А				1.0 kVA	1.2 kVA	20 A	1	(2) #12 + #12GW - 3/4"C	REC - C102A,C102B,C103A,C103B	RB-6
	RB-7	VRF-2.02,2.03 - PENTHOUSE B109	(2) #12 + #12GW - 3/4"C	2 15	A 1.0 kVA	0.7 kVA					20 A	2	(2) #12 + #12GW - 3/4"C	VRF-2.01 - PENTHOUSE B109	RB-8
	RB-9				-		1.0 kVA	0.7 kVA							RB-10
	RB-11	VRF-2.07,2.08,2.10 - PENTHOUSE	(2) #12 + #12GW - 3/4"C	2 15	А				1.7 kVA	1.5 kVA	15 A	2	(2) #12 + #12GW - 3/4"C	VRF-2.04-2.06 - PENTHOUSE B109	RB-12
	RB-13				- 1.7 kV	1.5 kVA									RB-14
	RB-15	VRF-2.09 - PENTHOUSE B109	(2) #12 + #12GW - 3/4"C	2 15	А		0.9 kVA	0.9 kVA			15 A	2	(2) #12 + #12GW - 3/4"C	VRF-2.11 - M/E 310	RB-16
	RB-17				-				0.9 kVA	0.9 kVA					RB-18
	RB-19	VRF-2.12,2.13	(2) #12 + #12GW - 3/4"C	2 15	A 0.7 kVA	0.3 kVA					15 A	2	(2) #12 + #12GW - 3/4"C	VRF-2.14,2.15	RB-20
	RB-21				-		0.7 kVA	0.3 kVA							RB-22
	RB-23	VRF-2.16,2.17	(2) #12 + #12GW - 3/4"C	2 15	А				0.4 kVA	1.5 kVA	15 A	2	(2) #12 + #12GW - 3/4"C	VRF-5.01,5.04,5.05+	RB-24
	RB-25				0.4 kV	1.5 kVA									RB-26
	RB-27	VRF-5.02,5.03+	(2) #12 + #12GW - 3/4"C	2 15	А		1.0 kVA	0.5 kVA			20 A	2	(2) #12 + #12GW - 3/4"C	VRF-5.06+	RB-28
	RB-29				-				1.0 kVA	0.5 kVA					RB-30
	RB-31	VRF-5.07+	(2) #12 + #12GW - 3/4"C	2 20	A 0.2 kVA	0.6 kVA					20 A	1	(2) #12 + #12GW - 3/4"C	REC - GREENHOUSE 900	RB-32
	RB-33				-		0.2 kVA	1.5 kVA			20 A	1	(2) #12 + #12GW - 3/4"C	WH-2 - CUST 312	RB-34
	RB-35	REC - Room C101, 404, 013		1 20	Α				1.0 kVA	4.5 kVA	70 A	3	(4) #4 + #8GW - 1-1/4"C	PANELBOARD PL	RB-36
	RB-37	F-34 - PENTHOUSE B109	(2) #12 + #12GW - 3/4"C	1 20	A 0.5 kVA	5.7 kVA									RB-38
\	RB-39	F-7, F-8, F-9, F-10, F-11, F-12	(2) #12 + #12GW - 3/4"C	1 20	Α		0.4 kVA	4.3 kVA							RB-40
$\langle \ $	RB-41	F-13, F-14	(2) #12 + #12GW - 3/4"C	1 20	А				0.1 kVA	0.4 kVA	15 A	1	(2) #12 + #12GW - 3/4"C	UH-4 - PENTHOUSE B109	RB-42
$\langle \ $	RB-43	WH-3 - CUST. 702	(2) #12 + #12GW - 3/4"C	1 20	A 1.5 kVA	0.0 kVA					20 A	1		Spare	RB-44
$\langle \ $	RB-45	Spare		1 20	Α		0.0 kVA	0.0 kVA			20 A	1		Spare	RB-46
)	RB-47	Spare		1 20	А				0.0 kVA	0.0 kVA	20 A	1		Spare	RB-48
}	RB-49	Spare		1 20	A 0.0 kVA	0.0 kVA					20 A	1		Spare	RB-50
3	RB-51	Spare		1 20	Α		0.0 kVA	0.0 kVA			20 A	1		Spare	RB-52
$\langle \ $	RB-53	Spare		1 20	А				0.0 kVA	0.0 kVA	20 A	1		Spare	RB-54
$\langle \ $	RB-55	Space			- 0.0 kV	0.0 kVA								Space	RB-56
$\langle \ $	RB-57	Space			-		0.0 kVA	0.0 kVA						Space	RB-58
$\langle \ \ $	RB-59	Space			-				0.0 kVA	0.0 kVA				Space	RB-60
$\langle \ $	RB-61	Space			- 0.0 kVA	0.0 kVA								Space	RB-62
$\langle \rangle$	RB-63	Space			-		0.0 kVA	0.0 kVA						Space	RB-64
3	RB-65	Space							0.0 kVA	0.0 kVA				Space	RB-66
3	RB-67	Space			- 0.0 kV	0.0 kVA								Space	RB-68
$\langle \ $	RB-69	Space			-		0.0 kVA	0.0 kVA						Space	RB-70
$\langle $	RB-71	Space			-				0.0 kVA	0.0 kVA			,	Space	RB-72

CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANELBOARD TOTALS
15.5 kVA	100.00%	15.5 kVA	Total Conn. Load: 49.7 kVA
10.2 kVA	99.02%	10.1 kVA	Total Est. Demand: 49.6 kVA
23.9 kVA	100.00%	23.9 kVA	Total Conn.: 138 A
0.0 kVA	0.00%	0.0 kVA	Total Est. Demand.: 138 A
	15.5 kVA 10.2 kVA 23.9 kVA	15.5 kVA 100.00% 10.2 kVA 99.02% 23.9 kVA 100.00%	15.5 kVA 100.00% 15.5 kVA 10.2 kVA 99.02% 10.1 kVA 23.9 kVA 100.00% 23.9 kVA

Total Connected Load: 49.7... 18.4 kVA 14.6 kVA 16.7 kVA

Proffitt & Assoc.

Proffitt & Assoc.
ARCHITECTS

49 SOUTH CARROLL STREET
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DOCUMENTS WERE PREPARED
OR APPROVED BY ME, AND
THAT I AM A DULY LICENSED
ARCHITECT UNDER THE LAWS
OF THE STATE OF MARYLAND.
LICENSE No.
45531
EXPIRATION DATE
06/03/2020

BID SET

OCK CREEK SCHOOL

DRICK COUNTY PUBLIC SCHOOLS
WEST FREDERICK STREET
KERSVILLE, MARYLAND 21793
2019 PROFFITE &ASSOCIATES ARCHITECTS

ISSUE
REV DATE DESCRIPTION
2 7/11/19 Addendum No. 2
4 7/24/19 Addendum No. 4

PROJECT NO.: 2017171.00 DATE: 07-01-2019 PANELBOARD SCHEDULES

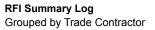
E705



RFI Summary Log

Grouped by Trade Contractor

Rock Creek Replacement	Project # 148		Dustin Co	nstruction, In
RFI # Subject	Date Submitted	Date Req'd	Date Resp	Days Late
Altimate Electric				
000.PB Wiremold 062	7/17/2019	7/24/2019	7/25/2019	1
000.PB DAS System 063	7/17/2019	7/24/2019		
BoMark Electric				
000.PB Power Symbol Descriptions 022	7/16/2019	7/23/2019		
000.PB Panel RD 023	7/16/2019	7/23/2019	7/25/2019	2
CAM Construction				
000.PB Appliance Locations 090	7/18/2019	7/25/2019	7/24/2019	-1
000.PB Casework Substitution Request	7/18/2019	7/25/2019		
000.PB Plastic Lockers 092	7/18/2019	7/25/2019		
000.PB Portable Sanitation/Debris Removal	7/24/2019	7/31/2019	7/24/2019	-7
000.PB Builder's Risk Deductible 236	7/24/2019	7/31/2019	7/24/2019	-7
000.PB Sump Pit 237	7/24/2019	7/31/2019	7/25/2019	-6
Canyon Contracting				
000.PB Concrete Site Walls 050	7/17/2019	7/24/2019		
000.PB 03A Scope - Allowance 051	7/17/2019	7/24/2019	7/24/2019	0
Caton Communications Group				
000.PB Plan Page TY101 096	7/22/2019	7/29/2019	7/25/2019	-4
000.PB UPS Equipment 097	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Cat 5 Backbone 098	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Wireless Access Points 099	7/22/2019	7/29/2019		
000.PB Seclusion Room Technology 100	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Access Controls 101	7/22/2019	7/29/2019	7/22/2019	-7
Construction Specialties				
Prolog Converge Printed on: 7/25/2019	DustinNew			Page





	Data	Data Baris	Data Been	Dave Lete
RFI # Subject	Date Submitted	Date Req'd	Date Resp	Days Late
000.PB Construction Specialties Substitution Request 042	7/16/2019	7/23/2019		
Dance Brothers				
000.PB Concrete Retaining Walls 217	7/22/2019	7/29/2019	7/25/2019	-4
Douglas Equipment				
000.PB 11400 Items 19 and 20 234	7/24/2019	7/31/2019		
Durex Coverings				
000.PB RES-3 Finish 253	7/24/2019	7/31/2019		
Dustin Construction				
000.PB Spray Foam Angle Stop 008	7/11/2019	7/18/2019	7/18/2019	0
000.PB Detailed Scope Assignments 029	7/16/2019	7/23/2019	7/18/2019	-5
000.PB Trade Package Self-Performance 030	7/16/2019	7/23/2019	7/18/2019	-5
000.PB Fire Pump 074	7/18/2019	7/25/2019	7/18/2019	-7
Elite Storage Products				
000.PB Elite Storage Products Substitution Request 009	7/11/2019	7/18/2019	7/25/2019	7
Glass Industries				
000.PB Glass Type IG-2 010	7/16/2019	7/23/2019	7/18/2019	-5
000.PB Scope 08A - Item 18 011	7/16/2019	7/23/2019	7/18/2019	-5
000.PB Door 020A/1 012	7/16/2019	7/23/2019	7/18/2019	-5
000.PB Doors 502/1, 502/2 013	7/16/2019	7/23/2019	7/18/2019	-5
000.PB 08A Scope Item 26 014	7/16/2019	7/23/2019	7/18/2019	-5
000.PB Doors 005A/2 and 006/1 015	7/16/2019	7/23/2019	7/18/2019	-5
000.PB KAL-2, 3 016	7/16/2019	7/23/2019	7/18/2019	-5
000.PB Curtain Wall Mullion Caps 017	7/16/2019	7/23/2019	7/18/2019	-5
000.PB Fire Rated Aluminum/Folding Doors 018	7/16/2019	7/23/2019	7/24/2019	1
000.PB Door 406/1 019	7/16/2019	7/23/2019	7/18/2019	-5
000.PB Curtain Wall Sunshades 020	7/16/2019	7/23/2019	7/18/2019	-5
Hancock & Albanese				
000.PB Knox Boxes	7/11/2019	7/18/2019	7/11/2019	-7





RFI# Subject	Date Submitted	Date Req'd	Date Resp	Days Late
	Submitted			
001				
000.PB Signature Acknowledgement Form 003	7/11/2019	7/18/2019	7/24/2019	6
000.PB Residential Appliances 005	7/11/2019	7/18/2019	7/18/2019	0
000.PB Flag Poles 006	7/11/2019	7/18/2019	7/18/2019	0
000.PB Builder's Risk Deductible 024	7/16/2019	7/23/2019		
000.PB Liquidated Damages 025	7/16/2019	7/23/2019	7/18/2019	-5
000.PB General Scope of Work Item L.3 026	7/16/2019	7/23/2019	7/18/2019	-5
000.PB General Scope of Work Item M.6	7/16/2019	7/23/2019	7/18/2019	-5
000.PB General Scope of Work Item M.6 027R1	7/16/2019	7/23/2019	7/24/2019	1
000.PB General Scope of Work Item 0.2 028	7/16/2019	7/23/2019	7/18/2019	-5
000.PB General Scope of Work Item 0.2 028R1	7/16/2019	7/23/2019	7/24/2019	1
000.PB 09A Scope Item #21 031	7/16/2019	7/23/2019	7/18/2019	-5
000.PB Vinyl Wallcoverings 032	7/16/2019	7/23/2019	7/18/2019	-5
000.PB Terrazzo 033	7/16/2019	7/23/2019	7/18/2019	-5
000.PB Safety Railing/Cables 034	7/16/2019	7/23/2019	7/18/2019	-5
000.PB 06A Scope Item 14 035	7/16/2019	7/23/2019	7/18/2019	-5
000.PB 06A Scope Item 15 036	7/16/2019	7/23/2019	7/18/2019	-5
000.PB 06A Scope Item 8 037	7/16/2019	7/23/2019	7/18/2019	-5
000.PB Casework MEP	7/16/2019	7/23/2019	7/18/2019	-5
000.PB Greenhouse MEP 039	7/16/2019	7/23/2019	7/18/2019	-5
000.PB 06A Scope Item 17 040	7/16/2019	7/23/2019	7/18/2019	-5
000.PB 06A Scope Item 17 040R1	7/16/2019	7/23/2019	7/24/2019	1
000.PB 06A Scope Item 18 041	7/16/2019	7/23/2019	7/18/2019	-5
000.PB 02A Scope Item 3 043	7/16/2019	7/23/2019	7/18/2019	-5
000.PB 06A Self-Performance 044	7/16/2019	7/23/2019	7/18/2019	-5
000.PB Corner Guard Locations	7/16/2019	7/23/2019	7/18/2019	-5
045 000.PB Pegboard	7/16/2019	7/23/2019		
046 000.PB Wall Coverings	7/16/2019	7/23/2019		
047 000.PB Curtain in Rooms 402A and 403	7/16/2019	7/23/2019	7/18/2019	-5
Desired on 7/05/0040	7710/2019	112012013	771072019	





RFI # Subject	Date Submitted	Date Req'd	Date Resp	Days Late
048				
000.PB Shower Curtains 052	7/16/2019	7/23/2019		
000.PB Plan Holders List 053	7/16/2019	7/23/2019		
000.PB Door Schedule - "AHM" 054	7/16/2019	7/23/2019	7/25/2019	2
000.PB Insulation at HM Frames 055	7/16/2019	7/23/2019	7/24/2019	1
000.PB Bituminous Coating at HM Frames 056	7/16/2019	7/23/2019		
000.PB Door 406/1 Material 057	7/16/2019	7/23/2019	7/17/2019	-6
000.PB Missing HW Sets 058	7/16/2019	7/23/2019		
000.PB HW Sets A801 059	7/16/2019	7/23/2019		
000.PB Alt. #2 - Patient Care Equipment 060	7/16/2019	7/23/2019	7/25/2019	2
000.PB Curtains at Changing Room 061	7/16/2019	7/23/2019	7/25/2019	2
000.PB Patient Care Equipment 066	7/18/2019	7/25/2019		
000.PB Literature Racks	7/18/2019	7/25/2019		
000.PB Openings 005A/2 and 006/1 068	7/18/2019	7/25/2019	7/18/2019	-7
000.PB Exercise Equipment 069	7/18/2019	7/25/2019		
000.PB Bid Date Extension 078	7/18/2019	7/25/2019		
000.PB Basketball Courts 079	7/18/2019	7/25/2019	7/25/2019	0
000.PB Goal Ball Court 080	7/18/2019	7/25/2019	7/24/2019	-1
000.PB Circulation Desk Cabinet 081	7/18/2019	7/25/2019		
000.PB Display Tables 082	7/18/2019	7/25/2019		
000.PB STC Rated Doors 083	7/18/2019	7/25/2019	7/25/2019	0
000.PB Floor Hatch Specification 084	7/18/2019	7/25/2019	7/25/2019	0
000.PB Countertop Edging 085	7/18/2019	7/25/2019		
000.PB Sill Details 086	7/18/2019	7/25/2019		
000.PB Solid Surface Integral Bowls 087	7/18/2019	7/25/2019	7/25/2019	0
000.PB Wardrobe Closet 088	7/18/2019	7/25/2019	7/25/2019	0
000.PB Aluminum-Wrapped Plywood 089	7/18/2019	7/25/2019	7/24/2019	-1
000.PB Door Hardware Sets 106	7/18/2019	7/25/2019		
000.PB Opening 100/9	7/18/2019	7/25/2019		





RFI# Subject	Date Submitted	Date Req'd	Date Resp	Days Late
107				
000.PB Utility Sink 5/A702 108	7/18/2019	7/25/2019	7/22/2019	-3
000.PB Countertop 19/A702 109	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Sink 1/A704 110	7/22/2019	7/29/2019	7/22/2019	-7
000.PB 06A Scope Millwork Item 1 111	7/22/2019	7/29/2019	7/22/2019	-7
000.PB 06A Scope - Countertop Equipment 112	7/22/2019	7/29/2019	7/22/2019	-7
000.PB Knee Wall Cap 113	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Countertop Equipment 114	7/22/2019	7/29/2019	7/22/2019	-7
000.PB Floor Sleeves 115	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Greenhouses 116	7/22/2019	7/29/2019		
000.PB Steel Pipe Battens 145	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Curtain Machines 146	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Grand Drape Lining 147	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Side Leg Curtain Operation 148	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Curtain Valence 149	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Dead-Hung Support Chains 150	7/22/2019	7/29/2019	7/25/2019	-4
000.PB HM Frame Infills 225	7/22/2019	7/29/2019	7/25/2019	-4
000.PB PLam Casework Finish 226	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Wood Block Counters 227	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Roof Cant Strip 228	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Wood Blocking 229	7/22/2019	7/29/2019	7/25/2019	-4
000.PB FRP Door Color 230	7/22/2019	7/29/2019		
000.PB Roller Shade Locations 231	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Countertops 232	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Missing Jamb Sections 273	7/24/2019	7/31/2019		
000.PB Corner Guard Heights 274	7/24/2019	7/31/2019		
HP Electronics				
000.PB PA/Intercom Installation 075	7/18/2019	7/25/2019	7/18/2019	-7





RFI # Subject	Date Submitted	Date Req'd	Date Resp	Days Lat
nterstate Corporation				
00.PB Roof Screen Gates 85	7/22/2019	7/29/2019	7/25/2019	-4
00.PB Roof Equipment Screens	7/22/2019	7/29/2019		
00.PB Sheathing/Roof Blocking 88	7/22/2019	7/29/2019		
00.PB Metal Deck Bent Plate 89	7/22/2019	7/29/2019		
100.PB PVC Roofing System	7/22/2019	7/29/2019	7/25/2019	-4
00.PB Roof Screen Framing	7/22/2019	7/29/2019	7/24/2019	-5
100.PB Aluminum Wrapped Plywood 169	7/24/2019	7/31/2019	7/24/2019	-7
amestown Advanced Products				
00.PB Jamestown Advanced Products Substitution Request 41	7/22/2019	7/29/2019		
eller Brothers, Inc.				
00.PB Abacus Sports Substitution Request 02	7/11/2019	7/18/2019	7/25/2019	7
ey Systems				
100.PB Temporary Electric Consumption 164	7/17/2019	7/24/2019	7/24/2019	0
00.PB SB Bollards 170	7/18/2019	7/25/2019	7/25/2019	0
00.PB Electric Vehicle Charging Equipment 171	7/18/2019	7/25/2019		
00.PB Utility Pump 72	7/18/2019	7/25/2019	7/25/2019	0
00.PB Generator Feeder Size 173	7/18/2019	7/25/2019	7/25/2019	0
00.PB Access Control	7/18/2019	7/25/2019	7/25/2019	0
00.PB MD/RD Panel Schedules	7/22/2019	7/29/2019	7/25/2019	-4
00.PB Riser Diagrams - SPDs 95	7/22/2019	7/29/2019	7/25/2019	-4
insley Construction				
00.PB Retainage Value 149	7/16/2019	7/23/2019	7/18/2019	-5
insley Manufacturing				
00.PB 16 Gauge Angle Clips 17	7/22/2019	7/29/2019	7/24/2019	-5
00.PB Detail Scope Assignments 18	7/22/2019	7/29/2019	7/22/2019	-7
00.PB Aluminum Handrail at Step Up Decking 19	7/22/2019	7/29/2019	7/22/2019	-7



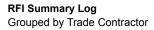


RFI # Subject	Date Submitted	Date Req'd	Date Resp	Days Late
	Subilitieu			
000.PB Pickets at Wood Handrail 121	7/22/2019	7/29/2019		
000.PB Aluminum Handrails 122	7/22/2019	7/29/2019		
000.PB Wood Risers at Step Up Decking 123	7/22/2019	7/29/2019		
000.PB Aluminum Walkway Covers 124	7/22/2019	7/29/2019		
000.PB Handrail Pipe and Bar Brackets 125	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Railing Type 6 126	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Railing Type 4 127	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Railing Type 1 128	7/22/2019	7/29/2019		
000.PB Loading Dock Ramp Railings 129	7/22/2019	7/29/2019		
000.PB Stairs at A403 130	7/22/2019	7/29/2019		
000.PB Roof Ladders	7/22/2019	7/29/2019		
000.PB Bollard Locations 132	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Trench Drain at 2/C-4J	7/22/2019	7/29/2019	7/22/2019	-7
000.PB Site Signage Steel Posts 134	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Trench Drains 135	7/22/2019	7/29/2019	7/22/2019	-7
000.PB Lintels 136	7/22/2019	7/29/2019		
000.PB Railing Type 7 137	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Stair Grating 138	7/22/2019	7/29/2019		
000.PB Washer Pad Grating 139	7/22/2019	7/29/2019	7/22/2019	-7
000.PB 10 Gauge Steel Plates 140	7/22/2019	7/29/2019	7/22/2019	-7
000.PB Lintel at PE Office 904 161	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Lintel at SF-5 Openings 162	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Lintels at Interior Walls 163	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Lintels at Fire Walls	7/22/2019	7/29/2019		
000.PB Fire Wall Types 165	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Pre-Engineered Platforms and Stairs	7/22/2019	7/29/2019		
000.PB Closed Riser Plates	7/22/2019	7/29/2019	7/25/2019	-4
167				



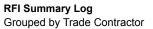


RFI # Subject	Date	Date Req'd	Date Resp	Days Late
	Submitted			
000.PB Spec Section 051200 220	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Penthouse Framing 221	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Pool Trench Drain	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Railings at Pool 223	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Greenhouse Trench Drain	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Trench Drains TD-A	7/24/2019	7/31/2019	7/24/2019	-7
000.PB Exterior Trench Drains	7/24/2019	7/31/2019	7/24/2019	-7
000.PB 18 Ga. Plates 241	7/24/2019	7/31/2019		
000.PB Walkway Cover Installation 254	7/24/2019	7/31/2019		
000.PB Walkway Cover Finish 255	7/24/2019	7/31/2019		
000.PB Brick Column Enclosure 256	7/24/2019	7/31/2019		
000.PB Flashing 257	7/24/2019	7/31/2019	7/24/2019	-7
000.PB Roof Screen Framing 267	7/24/2019	7/31/2019	7/24/2019	-7
Main Line Pools				
000.PB Swimming Pool Heater Connections 142	7/22/2019	7/29/2019	7/22/2019	-7
000.PB Swimming Pool Bonding 143	7/22/2019	7/29/2019	7/22/2019	-7
Nevco Sports, LLC				
000.PB Monument Sign Substitution Request 007	7/11/2019	7/18/2019	7/25/2019	7
Nexus Corporation				
000.PB Greenhouse Substitution Request 268	7/24/2019	7/31/2019		
O'Leary Asphalt				
000.PB Striping at Play Area 065	7/18/2019	7/25/2019		
Paddock Pools				
000.PB Pool Wall Pressure 093	7/18/2019	7/25/2019		
Panda Windows				
000.PB Folding Door Substitution Request 077	7/18/2019	7/25/2019		
Playground Specialists				
000.PB Secondary Playground	7/22/2019	7/29/2019		
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RFI # Subject	Date Submitted	Date Req'd	Date Resp	Days Late
102				
Pleasanta Canatrustian Company				
Pleasants Construction Company 000.PB Paving at SWM-22 190	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Playground Drain Tile 191	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Bollards 192	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Timber Guard Rail 193	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Concrete Swale 194	7/22/2019	7/29/2019	7/22/2019	-7
000.PB Conflicting Utility Lines 195	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Sheet C-3A 196	7/22/2019	7/29/2019		
000.PB Outdoor Basketball 197	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Sewer Manhole 2 198	7/22/2019	7/29/2019		
000.PB Retaining Walls 199	7/22/2019	7/29/2019		
000.PB SWM 26 200	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Box Culvert Inverts 201	7/22/2019	7/29/2019		
000.PB C-4G Outfall Treatment 202	7/22/2019	7/29/2019	7/25/2019	-4
000.PB C-4K Structure Number 203	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Unidentified Storm Drain Structures 204	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Inflow Treatment 205	7/22/2019	7/29/2019		
000.PB Pipe/Structure Schedules 206	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Trench Drains 207	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Liquidated Damages 208	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Crane Pads 209	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Water Meter 210	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Level Spreader/River Rock 211	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Utilities - Trench Drains 212	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Segmental Retaining Walls 213	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Liquid Asphalt Index Price 214	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Guardrails 215	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Utility Blasting	7/22/2019	7/29/2019	7/24/2019	-5
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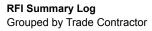


Date Submitted	Date Req'd	Date Resp	Days Lat
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7/24/2019	7/31/2019	7/25/2019	-6
7/24/2019	7/31/2019	7/24/2019	-7
7/24/2019	7/31/2019	7/24/2019	-7
7/24/2019	7/31/2019	7/24/2019	-7
7/24/2019	7/31/2019	7/25/2019	-6
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7/24/2019	7/31/2019	7/25/2019	-6
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7/24/2019	7/31/2019		
7/22/2019	7/29/2019		
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7/22/2019	7/29/2019	7/25/2019	-4
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7/22/2019	7/29/2019	7/23/2019	-6
7/16/2019	7/23/2019	7/18/2019	-5
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RFI # Subject	Date	Date Req'd	Date Resp	Days Late
	Submitted			
000.PB CIP Headwalls 169	7/22/2019	7/29/2019		
000.PB HDPE Piping 170	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Wall #2 171	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Riser Structure 172	7/22/2019	7/29/2019		
000.PB Structures at Storm Piping 173	7/22/2019	7/29/2019		
000.PB Headwall at SWM Pond 174	7/22/2019	7/29/2019		
000.PB Headwall at Box Culvert 175	7/22/2019	7/29/2019		
000.PB Concrete Swale 176	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Sewer Manhole S-2 177	7/22/2019	7/29/2019		
000.PB Concrete Slab at Storm Trap 178	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Blasting 179	7/22/2019	7/29/2019	7/24/2019	-5
000.PB Brick Channel Inverts 180	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Stone Under Sidewalks 187	7/22/2019	7/29/2019	7/25/2019	-4
Victor Stanley				
000.PB Site Furnishings 238	7/24/2019	7/31/2019		
Waynesboro Construction Company				
000.PB Single Trap Slab 151	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Missing Pipe Profiles 152	7/22/2019	7/29/2019		
000.PB Storm Trap 153	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Utility Scheduling 154	7/22/2019	7/29/2019	7/24/2019	-5
000.PB Self-Performance	7/22/2019	7/29/2019	7/22/2019	-7
000.PB RFI Period 156	7/22/2019	7/29/2019	7/22/2019	-7
000.PB Bid Period 157	7/22/2019	7/29/2019	7/22/2019	-7
000.PB Site Retaining Walls 158	7/22/2019	7/29/2019		
000.PB Wall 1 159	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Wall 2 160	7/22/2019	7/29/2019	7/25/2019	-4
William F. Klingensmith				
000.PB Fiber Optic Demolition 103	7/22/2019	7/29/2019		
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RFI# Subject	Date Submitted	Date Req'd	Date Resp	Days Late
000.PB Drawing A107 104	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Steel Support at Patient Lifts 105	7/22/2019	7/29/2019	7/25/2019	-4
000.PB Wall Cap Material 259	7/24/2019	7/31/2019	7/25/2019	-6
000.PB Casework Schedule 260	7/24/2019	7/31/2019		
000.PB 19/A702 261	7/24/2019	7/31/2019		
000.PB Sinks at 5/A702, 1/A704 262	7/24/2019	7/31/2019		
000.PB Countertops 7,9/A703 263	7/24/2019	7/31/2019		
000.PB D105 Cabinet 264	7/24/2019	7/31/2019		
000.PB Cabinet Locks 265	7/24/2019	7/31/2019		
000.PB Doors/Drawers Inset 266	7/24/2019	7/31/2019		
Window Consultants, Inc.				
000.PB Glazing Types 258	7/24/2019	7/31/2019		



Request for Information 000.PB002

Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.

RFI #: 000.PB002		Da	ate Submitted: 7/11/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Keller Brothers Inc. 1012 Rising Ridge Road Mount Airy, MD 21771	

Author RFI Number

Subject		Trade Contractor	
Abacus Sports Substitution Request		Keller Brothers, Inc.	
Co. Common Nome	Control Name	Osmiss Notes	

Question Date Required: 7/18/2019

Substitution Request for specification sections 096566 and 096766.

Suggestion

Answer Date Answered:

Substitution request for both products is acceptable.

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 Printed on: 7/11/2019
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SUBSTITUTION REQUEST (During the Bidding Phase)

Project:	Rock Creek School Replacement	Substitution Request Number: 2
		From: Abacus Sports Installations
To:	Becker Morgan Group	Date: 7/10/19
		A/E Project Number: 2017171
Re:	Athletic Flooring	Contract For:
Specifica	tion Title: Resilient Athletic Flooring	Description: Vulcanized rubber athletic flooring
	Section: <u>096566</u> Page: <u>3</u>	Article/Paragraph: 2.1.A
Proposed	Substitution: Omnisports HPL	
Manufac	turer: <u>Tarkett Sports</u> Address: <u>175</u>	N Industrial Blvd N.E., Calhoun, GA 30701 Phone: 716-534-4612
Trade Na	me: Resilient Vinyl Athletic Flooring	_Model No.:
Attached of the red	data includes product description, specifications, drawings quest; applicable portions of the data are clearly identified.	, photographs, and performance and test data adequate for evaluation
Attached installation	data also includes a description of changes to the Contract on.	Documents that the proposed substitution will require for its proper
SamPropPropPay	the warranty will be furnished for proposed substitution as for the maintenance service and source of replacement parts, as posed substitution will have no adverse effect on other trade posed substitution does not affect dimensions and functional ment will be made for changes to building design, including stitution.	applicable, is available. s and will not affect or delay progress schedule.
Submitte		
Signed b		
Firm: Address:	-	
Telephor	717-560-8050	
A/E's RE	EVIEW AND ACTION	
Subst	itution approved - Make submittals in accordance with Spe itution approved as noted - Make submittals in accordance itution rejected - Use specified materials. itution Request received too late - Use specified materials.	
Signed b	y:	Date:
Supporti	ng Data Attached: Drawings X Product Data	Samples Tests Reports

Omnisports HPL vs. Mondo Advance Vulcanized 8 mm*

Both Omnisports HPL and Mondo Advance Vulcanized 8 mm are intended for high point load applications, however Omnisports HPL has the higher static load tolerance. Omnisports HPL also offers a more realistic wood grain appearance and broader color options because of its vinyl surface. Another key difference is warranty coverage. In time period, Omnisports HPL exceeds the Mondo Advance wear warranty by 5 years and its defect warranty by 7 years. It is also noteworthy that Mondo does not list any sports performance properties in its specification for Advance.

^{*}This evaluation of Mondo Advance is based on the best information available to Tarkett Sports at the time of publication. Data sources may include information published by the manufacturer and in some cases, Tarkett internal laboratory testing, or contracted independent laboratory testing. Therefore, this document is intended for informational purposes only and must not be distributed to anyone unaffiliated with Tarkett Sports.

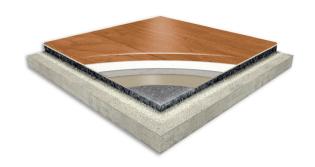
	Advance Vulcanized 8 mm	Omnisports HPL	08/01/18
Material Type	Rubber	Vinyl/Rubber	Mondo Advance is vulcanized rubber, where Omnisports HPL is vinyl and rubber.
Number of Layers	3	2	Mondo Advance has a three-layer construction, where HPL is field-constructed with two.
Standard Roll Length	42' 7″*	75' 6″ [†]	Omnisports HPL's surface will have fewer cross seams.
Roll Width	6'1″*	6' 6″†	Mondo Advance will have more seams overall than Omnisports HPL.
Total Thickness	8 mm*	6 mm	Mondo Advance Vulcanized 8 mm have an 8 mm thickness (±0.2).
Surface Layer Thickness	1.5 mm*	2.0 mm	Mondo Advance has a surface layer that is 0.5 mm less than Omnisports HPL.
Shock Absorption (ASTM F2772)	_	Class 1	Mondo Advance technical data lists only "passed." No Class rating is given.
Surface Finish Effect (ASTM F2772)	-	Passed	Acceptable range is between 80-110.
Vertical Deformation (ASTM F2772)	_	Passed	Both products pass the vertical deformation requirements of ASTM F2772.
Ball Rebound (ASTM F2772)		Passed	Both products pass the ball rebound requirements of ASTM F2772.
Completed Official ASTM F2772 Testing	No	Yes	Both products have been tested according to ASTM F2772-11.
Surface Embossing	Smooth	Non-Linear	Omnisports HPL has a slight non-linear embossing, while Mondo Advance is smooth.
Moisture Tolerance (ASTM F2170)	80% RH [◊]	98% RH	With Multi-Poxy, Omnisports HPL can tolerate relative humidity up to 98%.
High Moisture Solution	Everlay	Tarkolay	Tarkolay's limit is 98% RH (ASTM F2170) , while Everlay's limit is 12 lb (ASTM F1869).
Manufacturer's Warranty	3 years*	15 years	Omnisports HPL's warranty coverage extends 12 years further than Mondo Advance.
Wear Layer Warranty Coverage	10 years*	15 years	Omnisports HPL's warranty coverage extends 5 years further than Mondo Advance.
Total Color Selection	13*	18	Omnisports HPL has 5 more color options than Mondo Advance.
Wood Pattern Colors	1	8	Omnisports has more realistic wood grain patterns and 7 more color options.
Static Load Tolerance (ASTM F970)	250 psi	500 psi	The value published by Mondo corresponds to ≤0.009″. Omnisports HPL is ≤0.005″.
Taber Abrasion (D3389)	<0.6 g*	0.02 g	Taber abrasion values for Mondo Advance are less specific, making comparison difficult.
Reaction to Fire (ASTM E648)	Class 1	Class 1	Both Omnisports HPL and Mondo Advance are Class 1.
Floor Score® Certification	No	Yes†	The surface layer of Omnisports HPL is FloorScore® certified.
GREENGUARD Gold Certification	Yes	No	Mondo Advance is GREENGUARD Gold certified.

^{*}According to Mondo publications. †Pertaining to surface layer &Using either Mondo PU 105 or Mondo EP 55 adhesives.





Omnisports HPL is a vinyl flooring surface with a high density rubber underlayment. It provides exceptional resistance to static loads for use under heavy bleachers and other applications.



Warranty Protection

15-year wear layer and product defect coverage plus 10-year moisture tolerance coverage. Refer to sample warranty document for complete coverage.

Environmental Facts and LEED

For environmental facts and LEED credits, visit: tarkettsportsindoor.com/en/specs-and-data/environmental-fact-sheets and tarkettsportsindoor. com/en/specs-and-data/leed-information.

Maintenance Instructions

For a complete maintenance guide, visit: tarkettsportsindoor.com/en/specs-and-data/ care-and-maintenance.

Installation Methods

- Full Adhesive: installation using Tarkett's Multi-Poxy Adhesive over the entire area (moisture tolerance: 98% RH using Multi-Poxy)
- Tarkolay: installation over moisture barrier using Multi-Poxy Adhesive (no moisture testing required)

Sports Characteristics

Property	Standard	Value
Ball Rebound	ASTM F2772-11	Passed
Force Reduction	ASTM F2772-11	Class 1
Surface Finish Effect	ASTM F2772-11	Passed
Vertical Deformation	ASTM F2772-11	Passed

Technical Characteristics

Property	Standard	Value
Reaction to Fire	ASTM E648	Class 1 (Radiant Panel)
Static Load	ASTM F970 (modified)	500 psi
Taber Abrasion	ASTM D3389	0.02 g (1,000 Cycles)
Total Thickness	_	7 mm (0.276")
Wear Layer Performance Grade	ASTM F1303	Type 1, Grade 1, Commercial
Wear Layer Thickness	_	2.0 mm
Wear Layer Thickness	ASTM F410/F1303	0.7 mm
Roll Length (Surface)	EN 426/EN 427	26 m (85.3')
Roll Width (Surface)	EN 426/EN 427	2 m (6.5')
Thickness (Surface)	EN 428/EN 429	2.0 mm (0.079")
Weight (Surface)	EN 430	0.8 lbs./sq. ft.
Density (Underlayment)	ASTM D297	0.67 g/cm ³
Elongation (Underlayment)	ASTM D412	120-125 min. (Die C)
Roll Width (Underlayment)	_	1.45 m (4.75')
Roll Length (Underlayment)	_	26 m (85.3')
Tear Strength (Underlayment)	ASTM D412	410-425 min. (Die C)

Compatible substrates include: properly constructed and prepared concrete, wood, asphalt, and cementitious underlayments. Refer to current installation guidelines, ASTM F710, ACI 302.2R, and other industry standard recommendations for more information. Tarkett Sports reserves the right to modify these specifications without affecting their compliance with standards. Some results may vary in relation to certain flexibilities found within specified testing procedures and manufacturing tolerances.

888.364.6541 tarkettsportsindoor.com



Available Colors for Omnisports HPL



The colors presented here are representations only. An actual sample is recommended for exact color evaluation and matching. \Diamond This pattern has a 3" wide plank. Other wood patterns have a width of 2-1/4".



PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Supply and installation of the indoor resilient multipurpose surfacing
- B. Application of the game lines
- C. References for the correct construction and preparation of concrete slabs to receive resilient flooring.

1.2 SUBMITTALS

A. Product Data:

Manufacturer's promotional brochures, specifications and installation instructions

B. Manufacturer Certifications:

- 1. Provide certification that accurately identifies the Original Equipment Manufacturer (OEM) of flooring furnished for this project including manufacturer's name, address and factory location.
- 2. Suppliers of private label flooring for this project must identify themselves as such and fully disclose the OEM information listed above.
- 3. All "manufacturer" requirements in these specifications must be complied with by the OEM, including warranties, certifications, qualifications, product data, test results, environmental requirements, performance data, etc.

B. Samples:

- 1. Submit for selection and approval three (3) sets of the indoor resilient multipurpose surfacing, manufacturer's brochures, samples or sample boards of all of the available colors, textures and styles.
- 2. Submit color samples of all the available game line paint colors for selection and approval.

C. Closeout Submittals:

- 1. Submit three (3) copies of the indoor resilient multipurpose surfacing and manufacturer's maintenance instructions.
- 2. Submit three (3) copies of the material and installation warranties as specified.

1.3 QUALITY ASSURANCE

A. Qualifications:

- 1. The indoor resilient multipurpose surfacing shall have been actively marketed for a minimum of ten (10) years.
- 2. The indoor resilient multipurpose surfacing shall be manufactured in an ISO 9001 certified plant.
- 3. The indoor resilient multipurpose surfacing shall be manufactured in an ISO 14001 certified plant.
- 4. The indoor resilient multipurpose surfacing supplier shall be an established firm, experienced in the field, and appointed as a distributor by the manufacturer of the indoor resilient multipurpose surfacing.

5. The installer of the indoor resilient multipurpose surfacing shall have a minimum of five (5) years of experience in the field installing indoor resilient multipurpose surfacing and have worked on at least five (5) projects of similar size, type and complexity.

B. Certifications:

- 1. Installer to submit the indoor resilient athletic surfacing manufacturer's certification attesting that they are an approved installer of the indoor resilient multipurpose surfacing.
- 2. The indoor resilient multipurpose surfacing manufacturer to submit official ISO 9001 certification for the facility in which the indoor resilient multipurpose surfacing is manufactured.
- 3. The indoor resilient multipurpose surfacing manufacturer to submit official ISO 14001 certification for the facility in which the indoor resilient multipurpose surfacing is manufactured.

C. Testing:

Tests shall be relative for multi-purpose use with certificates from independent testing resources to be made available upon request. Test results shall be no more than 5 years old and performed according to ASTM standard testing procedures.

1.4 DELIVERY, STORAGE AND HANDLING

A. Delivery:

Material shall not be delivered until all related work is in place and finished and/or proper storage facilities and conditions can be provided and guaranteed stable according to FieldTurf USA, Inc. recommendations.

B. Storage:

Store the material in a secure, clean and dry location. Maintain temperature between 55° and 85° Fahrenheit. Store the indoor resilient athletic surfacing rolls in an upright position on a smooth flat surface immediately upon delivery to jobsite. Rolls shipped in rigid protective cardboard containers can be laid horizontally prior to unpacking and installation.

1.5 PROJECT/SITE CONDITIONS

- A. It is the responsibility of the general contractor/construction manager to maintain project/site conditions acceptable for the installation of the indoor resilient multipurpose flooring.
- B. The area in which the indoor resilient multipurpose surfacing will be installed shall be dry and weather tight. Permanent heat, light and ventilation shall be installed and operable.
- C. All other trades shall have completed their work prior to the installation of the resilient athletic flooring. The general contractor or Construction Manager shall maintain a secure and clean working environment before, during and after the installation. Suspension of other trades' work may be authorized providing their work will not damage the new flooring.
- D. Maintain a stable room temperature of at least 65°F for a minimum of one (1) week prior to, during and thereafter installation.
- E. An effective low-permeance vapor barrier is placed directly beneath the concrete subfloor. For "on" or "below grade" installations, it is recommended

- to provide a permanent vapor barrier resistant to long term hydrostatic pressure/moisture exposure. Protrusions should be sealed to prevent moisture migration into the slab. Moisture should not be allowed to enter the slab after the completed construction.
- F. Concrete subfloor surface pH level within the 7 to 10 range dependent upon installation type.
- G. Concrete subfloor should be no greater than 1/8" within a 10 ft diameter. This tolerance can be measured in accordance with ASTM E1155.

 A specified (F_F) of 50 and an (F_L) of 30 should reach this degree of floor flatness and floor level. There is no numerical correlation between F numbers and the deviation from the straight edge, however the above specified numbers should achieve a flat floor with minimal deviation in the slab. Reference ACI 117 and ACI 302.1R. The general contractor should provide a certificate of compliance with the above recommendations.
- H. Concrete subfloor must be clean and free of all foreign materials or objects including, but not limited to, curing compounds and sealers.
- I. Fill cracks, grooves, voids, depressions, and other minor imperfections. Follow the manufacturer's directions. Moveable joints must be treated utilizing specific transitioning joint devices depending upon the architect's recommendations. Follow current ASTM F710 guidelines for the preparation of concrete slabs to receive resilient flooring.
- J. Refer to ACI 302.2R "Guidelines for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials" for concrete design and construction.
- K. Concrete slab shall be fortified with continual steel reinforcement. Fiber reinforcement alone shall not be considered adequate fortification.

1.6 WARRANTY

- 1.61 **Special Limited Warranty:** Manufacturer's standard form in which manufacturer agrees to repair or replace sports flooring including labor that fails within specified warranty period.
- 1.62 Material warranty must be direct from the product manufacturer.
 - a. Material warranties from separate or third party insurance providers are not valid.
 - b. Material warranties must come from original manufacturer or division thereof. Private label warranties from distributors or brokers are not valid. Supply original point of original manufacturing upon request.
- 1.63 Failures include, but are not limited to, the following:
 - a. Material manufacturing defects.
 - b. Surface wear and deterioration to the point of wear-through per ASTM F410/ASTM F1303.
 - c. Failure due to substrate moisture exposure exceeding 98 percent relative humidity when tested according to ASTM F2170.
- 1.64 **Warranty Period:**
 - a. <u>For material defects and surface wear-through:</u> **15** years from date of Substantial Completion.
 - b. <u>For moisture vapor tolerance:</u> **10** years from date of Substantial completion.
- 1.65 **Special Limited Warranty:**

Installer's standard form in which installer agrees to repair or replace sports flooring that fails due to poor workmanship or faulty installation within the specified warranty period.

a. Warranty Period: 2 years from date of Substantial Completion.

1.7 ADDITIONAL MATERIALS

Furnish to the owner additional materials containing a total of at least 1% of each different color or design of the indoor resilient athletic surfacing used on the project.

1.8 LEED™ CERTIFICATION

The indoor resilient athletic surfacing should be able to help this facility to achieve points towards $LEED^{\tau m}$ certification. Flooring system must be certified by FloorScore[®].

LEED categories positively affected by the indoor resilient athletic surfacing:

p	ositively directed by ti	TO ITTUOOT TOOMSTILE O	ici ii dale dali i acii i gi
Product Type			Vinyl
Building Reuse Maintain Interior Nonstructural Elements	MR 1.2	Renovation	1
Construction Waste Management	MR 2	Renovation	2
Construction Waste Management Materials Reuse	MR 3 5 % - 1 point 10% - 2 points	Renovation	2
Recycled Content	MR 4 20% - 2 points	New/Renovation	2
Indoor Environmental Air Quality Low VOC Adhesives/Sealants	IEQ 4.1	New/Renovation	1
Low-emitting Materials Paints and Coatings	IEQ 4.2	New/Renovation	1
Low-Emitting Materials Flooring Systems	IEQ 4.3	New/Renovation	1

PART 2 - PRODUCTS

2.1 MANUFACTURERS

The basis of the design for the indoor resilient multipurpose surfacing is Omnisports HPL as manufactured by Fieldturf. All other installation accessories

and related components must be either made or approved by the indoor resilient athletic surfacing manufacturer. Other products may be approved as equal if deemed qualified and submitted in accordance with the General Conditions. Test reports confirming compliance from an Independent Sports Laboratory must be provided along with samples, technical data, installation, maintenance, and warranty prior to acceptance as an alternative product.

2.2 MATERIALS

Omnisports HPL - Prefabricated sport surface with wood flooring design and slightly textured embossed surface as supplied by Fieldturf. Embossing of wood design and solid colors must be the same; varying embossing or surface textures will not be allowed. Printing of wood design shall closely resemble standard wood strip flooring in size, color, board length, and grain appearance. The wood design shall be protected by a clear layer of pure PVC (Polyvinyl Chloride) and Top Clean, a factory applied UV cured urethane treatment. Intermediate layers shall be fortified with a non-woven fiberglass grid for increased dimensional stability. A high density load resistant underlayment field constructed installed per manufacturer's construction specifications incorporated to provide higher load resistance.

Multi-Poxy moisture mitigation/adhesive combination. Provide non-solvent reactive topically applied moisture mitigation/adhesive according to manufacturer's recommendations.

Physical properties of the indoor resilient athletic surfacing shall conform to the following minimums:

Width	Omnisports	6'6" (2 m)
Length	Omnisports	85' (25.9m) approx.
Wear Layer	Omnisports	2 mm
Total Thickness	Omnisports HPL	6mm (4 +2)
High Density	ASTM D297	0.67 g/cm ³
Underlayment		
Tear Strength	ASTM D412	410-425 min. Die C
Elongation	ASTM D412	120-125 min. Die C
Static Load	ASTM F970	500 psi
Reaction to Fire	ASTM E648	Class 1
Specular Gloss	EN ISO 2813	13%
Wear Layer	Type 1, Grade 1	ASTM F1303/F410
Taber Abrasion	ASTM D3389	0.02 g (1000 cycles)
Stain Resistance	ASTM F925	Excellent
Chemical Resistance	ASTM D543	OK
Moisture Tolerance with	ASTM F2170	98% RH
Multi-Poxy		
Vertical Deformation	PASSED	ASTM F2772
Surface Finish Effect	PASSED	ASTM F2772 (80 – 110)
Ball Rebound	PASSED	ASTM F2772 > 90%
Shock Absorption	PASSED	ASTM F2772 Class 1

Section 09 65 66

- 1. Color: As available from the indoor resilient athletic surfacing manufacturer's standard range.
- 2. Hardwood Design Series: A wood look design as available from the indoor resilient athletic surfacing manufacturer's standard range.
- 3. Texture: Texture to remain consistent between solid colors and wood design when blending colors.

A. Welding Rod:

As supplied by the indoor resilient athletic surfacing manufacturer or supplier. Color to blend with the indoor resilient athletic surfacing color or design. All seams shall be welded to create a monolithic and impermeable surface.

B. Game Line Paint and Primer:
As approved by the indoor resilient athletic surfacing manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. It is the responsibility of the general contractor/construction manager to ensure that project/site conditions are acceptable for the installation of the indoor resilient athletic flooring.
- B. Verify that the area in which the indoor resilient athletic surfacing will be installed is dry and weather tight. Verify that permanent heat, light and ventilation is installed and operable.
- C. Verify that all other work that could cause damage, dirt and dust or interrupt the normal pace of the indoor resilient athletic flooring installation is completed or suspended.
- D. Verify that there is a stable room temperature of at least 65°F.
- E. Verify that there are no foreign materials or objects on the subfloor and that the subfloor is clean and ready for installation.
- F. <u>Direct Full Spread Adhering to Concrete Subfloor Multi-Poxy</u>: moisture content less than 98 % RH when tested per ASTM F2170. Follow Fieldturf' Installation Recommendations.
- *G.* Do not average the results of the tests. Report all field test results in writing to the General Contractor, Architect, and End User prior to installation.
- H. Verify that the concrete subfloor surface pH level is within the 7 11 range.
- I. Document the results indicating the slab is within manufacturer's tolerances for slab deviation.

3.2 PREPARATION OF SURFACES

- A. Sand the entire surface of the concrete slab.
- B. Sweep the concrete slab so as to remove all dirt and dust. If a sweeping compound is to be used it must be a sweeping compound that does not contain oil or other items that may inhibit the adhesive bond.
- C. Slab must be dust free. In the event that dust impairs adhesive bond, priming the slab prior to application of adhesive may be necessary. Follow installation guidelines.

3.3 INSTALLATION

- A. The installation area shall be closed to all traffic and activity for a period to be set by the indoor resilient athletic surfacing installer. The indoor resilient athletic surfacing installation shall not begin until the installer is familiar with the existing conditions.
- B. All necessary precautions should be taken to minimize noise, smell, dust, the use of hazardous materials and any other items that may inconvenience others.
- C. Install the indoor resilient athletic surfacing in strict accordance with the indoor resilient athletic surfacing manufacturer's written instructions.
- D. Install the indoor resilient athletic surfacing minimizing cross seams. Provide a seam diagram during the submittal process for approval prior to installation. Vinyl Sheet Flooring Seams: Comply with ASTM F 1516. Rout joints and heat weld to permanently and seamlessly fuse sections together. Apply transitions at doorways as needed.
- E. Paint game lines using approved game line paint primer and game line paint in strict accordance with the game line paint manufacturer's instructions.
- F. Install appropriate threshold plates or transition strips where necessary.

3.4 CLEANING

Remove all unused materials, tools, and equipment and dispose of any debris properly. Clean the indoor resilient athletic surfacing in accordance with the manufacturer's instructions.

3.5 PROTECTION

If required, protect the indoor resilient athletic surfacing from damage using coverings approved by the manufacturer until acceptance of work by the customer or their authorized representative.

3.6 RELATED STANDARDS AND GUIDELINES

- A. ASTM F2170 "Standard Test Method for Determining Relative Humidity In Concrete Floor Slabs Using In-Situ Probes"
- B. ASTM F710 "Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring"
- C. ACI 302.2R-06 "Guideline for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials"

END OF SECTION



SUBSTITUTION REQUEST (During the Bidding Phase)

Project:	Rock Creek Scho	ol Replacement		Substitution	Request Number: 1	
				From: A	bacus Sports Installati	ons
To:	Becker Morgan C	roup		Date: <u>7/10/1</u>	19	
Re:	Athletic Flooring					
				Contract 10		
Specifica	tion Title: Fluid Ap	plied Athletic Floor	ing	Description	Pad and pour multipu	rpose flooring
	Section: <u>096766</u>	Page Page	e: 3	Article/Para	graph: 2.01.A	
Proposed	l Substitution: <u>Pad</u>	enpor 7+2mm				
Manufac	turer: Abacus Spor	ts Installations Ltd.	Address: 2330 Dairy	Road. Lancas	ster, PA 17601	Phone: <u>717-560-8050</u>
Trade Na	ame: Resilient Athl	etic Flooring			Model No.:	
Attached of the red	l data includes prod quest; applicable po	uct description, spec ortions of the data ar	cifications, drawings, p e clearly identified.	hotographs, ar	nd performance and tes	st data adequate for evaluation
Attached installati	l data also includes on.	a description of cha	nges to the Contract Do	ocuments that	the proposed substituti	ion will require for its proper
ProjProjPay	posed substitution v posed substitution o	will have no adverse loes not affect dime	placement parts, as apperfect on other trades and functional cing design, including A	and will not af learances.	fect or delay progress	
Submitte	ed by: Wesley Kilp	oatrick				
Signed b						
Firm: Address:		rts Installations Ltd. Road. Lancaster, PA				
Telephoi						
A/E'a Di	EVIEW AND ACT	ION				
Subst	titution approved - titution approved as titution rejected - U	Make submittals in a				
Signed b	y:					Date:
Supporti	ng Data Attached:	Drawings	X Product Data	Samples	Tests	Reports

	Padenpor 7mm+2mm - Abacus Sports Installations Ltd.	Pulastic Classic 90 - Robbins Sports Surfaces
Side by Side Comparison	A ST TOWN OF THE PARTY OF THE P	
System Compositon	Fluid-applied polyurethane poured over resilient base mats	Fluid-applied polyurethane poured over resilient base mats
Seamless?	Yes	Yes
Elasticity	Point-elastic	Point-elastic
Number of finish colors	16 standard colors	16 standard colors
Shore Hardness	A80	A80
Compression Set B	97%-99% recovery after 72 hours at 50% compression	N/A
Abrasion Resistance	RV 32	N/A
Shock Absorbency	767	29%
Slip Resistance	0.53 (Pass)	N/A
Rolling Load	1000 N	>1500 N
Ball rebound	%66	%86
Elongation at Break	150%	150%
Tensile Strength	1,020 psi	1,160 psi
Tear Resistance	111 pli	142 pli
Fire Rating	Class I	Class I
Conatins Mercury	ON	ON



COUNT ON THE COURT



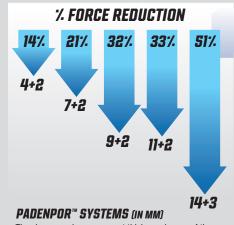
PADENPOR™ IS A SUPERIOR RESILIENT FLOORING SYSTEM DESIGNED FOR MULTIPLE USES

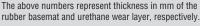
A recycled rubber basemat, combined with multiple layers of self-leveling urethane, resulting in a floor that is a "Dual Durometer" seamless, monolithic, shock-absorbing and durable designed to meet criteria under the LEED rating system. Unlike poured-in-place or single-ply surfaces, Padenpor™ guarantees uniform thickness and density, giving the users a stable surface for safe and consistent results, with perfect ball bounce and slide properties.

RANGE OF RESILIENCE



PADENPOR™ IN VARIOUS THICKNESSES















HOW DOES PADENPOR™ MEASURE-UP AGAINST THE CONTENDERS?

	CONSISTENT Depth	DURABILITY	EASE/COST OF MAINTENANCE	SEAMLESS	RESURFACEABLE	BALL Rebound
PADENPOR™	••••	••••	••••	••••	••••	••••
FULL POUR	• •	•••	••••	••••	••••	• • • •
CARPET	••••	• •	• •	••••		• •
WOOD	• • • • •	••••	• • •			• • • •
PLASTIC TILE	••••	• • •	• •			• • •
VCT	••••	••••	• • •			• • • •
SHEET FLOOR	••••	••••	• • •			• • •



Our Core Values

Pride in Excellence – From the way we work with customers to the way we deliver a quality product and service. **Focused on Customer Relationships** – Building a trusting relationship with customers to satisfy all requirements. **Commitment to Craftsmanship** – Building systems that are technically sound and aesthetically unblemished. **Provide Innovative Solutions with Value** – Combined experience of Technicians and Project Managers gives Abacus the ability to be flexible and creative with solutions to any challenge. **Assure Quality with High Standards of Character** – The Abacus team is held to high standard of

"The installation looks fantastic. The installers you had at our job were a delight to work with from beginning to end. They were very sensitive to the fact they were working in an occupied building and took great care in coordinating their work. They communicated well during all phases of the installation."

-Downingtown Area School District

"It has been a pleasure working with your crew on this project. There's no doubt about the fact they know what they were doing and did a great job."

-Carol County Maintenance Director

"The courts turned out beautifully and we are very satisfied with the end result of a lot of hard work by your staff. The project was completed in a timely and professional manner and everyone involved were very helpful and courteous."

-President of Court Time Sports Center

Character to ensure a trusting relationship with customers, a quality product, and a timely installation.

"We would definitely use Abacus and the Regupol products again, and are extremely happy with the results."

- Assistant Director of Recreation, Cabrini College

"Christian School of York would like to thank Abacus Sports for their professionalism in planning and installation of our new gym floor. We have been in need of an upgrade to our facility for quite some time. Abacus provided us with the exact floor we dreamed up and the exact time frame in which we wanted it done."

-Christian School of York Athletic Director









PADENPORTM

By Abacus

SPECIFICATION SHEET

PADEAPOR™ MULTIPURPOSE FLOORING SYSTEM

PART 1 GENERAL

1.1 SCOPE

The complete installation of the **PADEMPOR**TM Multipurpose Flooring System consists of a prefabricated rubber basemat (7mm) integrated with seamless, self-leveling polyurethane topcoats (2mm). The finished product is a homogeneous and resilient multipurpose synthetic surface with the unique characteristics of a dual-durometer system.

- 1.2 RELATED SECTIONS
- A) Subfloor

The **PADENPOR™** Multipurpose Flooring System shall not be installed until concrete has cured for a minimum of 30 days (Concrete will be tested to ensure that it is dry per manufacturer's guidelines using Relative Humidity (RH) digital probes per ASTM F2170. Concrete must read less than 85% RH.). The general contractor shall furnish, install, and finish the concrete subfloor, depressing the slab sufficiently to accommodate the floor system. Concrete subfloors should be clean, dry, free from any sealer, drying agent, curing compound or parting compound. The slab shall be steel troweled to a true level and finished smooth and straight to a tolerance of 1/8" in any 10' radius.

The general contractor shall suitably prepare subfloor. High spots shall be ground level, and low spots filled with approved leveling compounds. Any crack filling of the concrete must be done with an approved cement-based filler. All grease and oil must be completely removed, as these will prevent the adhesive from achieving a proper mechanical bond. The concrete slab movement should be stabilized by a constantly maintained room temperature.

The general contractor shall adequately waterproof beneath the slab and at the perimeter subfloors on or below grade using a suitable type membrane. Below grade slabs or areas with hydrostatic head shall be adequately waterproofed beneath the slab on earth side of walls using 1/8" premolded membrane.

SPECIFICATION SHEET

PADEAPOR MULTIPURPOSE FLOORING SYSTEM

The subfloor shall be turned over to the flooring contractor broom clean.

1.3 FLOORING CONTRACTOR

An experienced flooring contractor approved by the distributor, as described in the scope of these specifications, shall carry out the complete installation of the flooring system, and the work shall be performed in accordance with the most recent installation instructions.

1.4 SUBMITTALS

- A) **PADENPOR**TM Multipurpose Flooring System specification sheet
- B) Product Data Sheets
- C) Samples of **PADENPOR™** Multipurpose Flooring System in the specified thickness
- D) Maintenance Guidelines

1.5 DELIVERY & STORAGE

All materials shall be delivered and stored in their original containers with seals unbroken, and labels intact, in a maintained area with a minimum room temperature of 55°F.

1.6 WORKING CONDITIONS

The synthetic flooring specified herein shall not be installed until all masonry, plaster, tile, marble and terrazzo work is completed, and overhead mechanical trades and painters have finished their works in the floor area. The general contractor shall remove foreign material from subfloor (i.e. paint, mortar, drywall compound, etc.)

The building must be dry, all openings must be closed in, and permanent heating and air conditioning installed and working. Moderate room temperature of 65⁰–75⁰F shall be maintained one week prior to and throughout the duration of the installation.

PART 2 PRODUCT

2.1 DISTRIBUTED BY: Abacus Sports Installations, Ltd.

2330 Dairy Road Lancaster, PA 17601 Tel: (800) 821-4557

2.2 MATERIALS

A) Basemat Adhesive

Shall be a two-component polyurethane adhesive supplied by the flooring distributor and specifically compounded to assure compatibility with the basemat and applicable subsurface. The adhesive shall be applied in accordance with the manufacturer's instructions at a rate of 0.2 lbs. per sq. ft.

B) Basemat

Shall be prefabricated **PADEMPOR**TM-MAT 628 supplied by the flooring distributor in a thickness of 7mm and roll-width of 59", made out of recycled SBR rubber and bound with an environmentally safe MDI polyurethane binder. The basemat material is treated to resist most types of microbes, oils, and fungi.

SPECIFICATION SHEET

PADEAPOR MULTIPURPOSE FLOORING SYSTEM

C) Basemat Sealer

Seal coat shall be a two-component polyurethane compound supplied by the flooring distributor and applied at a rate of 0.12 lbs. per sq. ft.

D) Wear Coat

Shall be a two-component self-leveling polyurethane compound supplied by the flooring distributor and applied at a rate of 0.50 lbs. per sq. ft.

E) Color Finish

Shall be a two-component polyurethane varnish supplied by the flooring distributor and applied at a rate of 0.06 lbs. per sq. ft. The color shall be selected from a color-chart available from the flooring distributor.

F) Line Paint

Shall be a two-component polyurethane line-paint supplied by the flooring distributor. Select line colors from blue, yellow, white, red, green, black or orange.

2.3 TECHNICAL DATA

A) **PADERPOR**TM-MAT

Density	ASTM D-3676:	45 pcf	
Tensile	ASTM D-412:	88 psi	
% Elongation		97%	
Compressibility	ASTM F-36 A:	<u>%</u>	Recovery
	50 psi	20	87
	100 psi	32	91
	200 psi	42	91
Die Tear PPI	ASTM D-624:	30	
Flexibility	ASTM F-147:	0 - 1	
Compression Set B	ASTM D-395:	26 @ 25	% deflection (158°F/22hrs)

B) 2mm Polyurethane Topcoats

(Mercury and lead are not permissible on any trace quantity!)

Shore Hardness: A80

Compression Set: 97%-99% recovery after 72 hours at 50% compression

Abrasion Resistance: RV 32 according to DIN 18032 Shock Absorbency: 29% according to DIN 18032

Slip Resistance: 0.53 (Pass)

Rolling Load:

Ball Rebound:

Elongation at Break:
Tensile Strength (top):
Tear Resistance

1000 N according to DIN 10832/2

99% according to DIN 53517

1,020 psi according to DIN 53455

111 pli according to DIN 53515

Class I according to DIN 51960

SPECIFICATION SHEET

PADEAPOR MULTIPURPOSE FLOORING SYSTEM

PART 3 INSTALLATION

- 3.1 All two-component polyurethane compounds must be power-mixed for at least 5 minutes before application.
- 3.2 Apply polyurethane adhesive directly onto subfloor by using a notched trowel.
- 3.3 Roll **PADENPOR**[™]-MAT into adhesive by using an installation cart. Roll seams with a carpet roller and repeat rolling the entire surface approximately 45 minutes after installation.
- Apply sealer by using a straight trowel. The sealer must be applied in two layers. Allow each layer to properly cure and inspect the entire floor again for any open spots. Grind down any ridges using a circular grinder with sandpaper. Clean floor by vacuuming or dry dust mop.
- 3.5 Apply wear coat by using a notched squeegee. Make sure that the material is applied wet-in-wet. Allow surface to cure entirely and if necessary, grind down any imperfections using sandpaper of 150 or finer grain. Clean floor by vacuuming or dry dust mop.
- 3.6 Apply color-finish using lambskin rollers or airless spray machine. Allow surface to cure sufficiently after application.
- 3.7 Lay out and tape game lines according to specifications. Apply paint using rollers.

PART 4 MAINTENANCE

No wax should be applied to matte polyurethane finish. Regular cleaning can be carried out with a water/detergent mixture using a wet mop. If necessary, use a nylon brush in order to remove heavy dirt. Dust can be removed with a damp mop, which has been sprayed with a very light water/detergent mixture. Major dirt marks (from black shoe soles, etc.) can be wiped off with polyurethane thinner or acetone.

PART 5 WARRANTY

Abacus Sports Installations, Ltd. offers an express one (1) year warranty that its products are free from any defects in material and workmanship, that its products shall meet all specifications and that the products shall perform effectively.

Abacus Sports Installations, Ltd. warranties that during the warranty period the resilient surfacing shall not harden, become brittle, chip, crack, tear or exhibit any signs of excessive deterioration except normal wear and tear. All other warranties, including implied warranties of fitness for a particular purpose are expressly excluded. The sole remedy against the seller will be the replacement or repair of defective goods, or at seller's option, credit may be issued not exceeding the selling price of the defective goods.

Abacus Sports Installations, Ltd. reserves the right to change or modify these specifications without notice.



Request for Information 000.PB003

Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By
Author Company
Frederick County Public Schools
191 South East Street
Frederick, MD 21701-5918

Date Submitted: 7/11/2019

Author Company
Hancock & Albanese, Inc.
6600 Santa Barbara Road
Elkridge, MD 21075

Author RFI Number

Subject Trade Contractor
Signature Acknowledgement Form Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/18/2019

The FCPS Supplemental Instructions (spec 002213), para 5.e.ii calls for the "Signature Acknowledgment Form" to be submitted with the bid. We are unable to locate this form in the bid documents – please advise as to where we might find this form.

Suggestion

Answer Date Answered: 7/24/2019

This form has been issued with Addendum #3

Prolog ConvergePrinted on: 7/24/2019DustinNewPage 1



Request for Information 000.PB004

Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB004			Date Submitted: 7/11/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street	Donna Rosano	Scranton Products 801 E. Corey Street	
Frederick, MD 21701		Scranton, MD 18504	

Author RFI Number

Sub	bject		Trade Contractor	
Scr	ranton Products Substitution Request		Scranton Products	
0	ON	O ((N	Occident Nation	
Cc.	Company Name	Contact Name	Conies Notes	

Question Date Required: 7/18/2019

Substitution Request for specification sections 105113 and 105153

Suggestion

Answer Date Answered:

Specification for plastic lockers is acceptable.

Approved manufacturers in plastic locker specification are acceptable to bid on metal lockers.

Tuftec bench substitution is not accepted.

 Prolog Converge
 Printed on: 7/11/2019
 DustinNew
 Page 1

SUBSTITUTION REQUEST (During the Bidding/Negotiating Stage)

Project:	Rock Creek Scho	ool Replacement (16-615134)	Substitution Request Number:	SubReq-04553	
,	WALKERSVILLE		- From:	Courtney Damore, Scran	iton Products
To:		derick County Public School	– Date:	07/10/2019	
	kim.miskell@fcps	s.org, (301) 644-5000	– A/E Project Number:		
Re:	Metal Lockers		Contract For:	Frederick County Public	School District
Specificat	ion Title: Meta	al Lockers	Description:	Welded Corridor Lockers	3
Section:	10 51 13	Page: <u>3</u>	Article/Paragraph:	2.3	
Proposed	Substitution:	Duralife Lockers			_
Manufactu	urer:	Scranton Products	Address: scrantonproducts.com	Phone:	570-348-0997
Trade Na	me:	Scranton Duralife Lockers		Model No.:	N/A
the reques	st; applicable porti	ons of the data are clearly identi			
Attached of installation		a description of changes to the	Contract Documents that the propos	sed substitution will require	e for its proper
PiSiSiPi	ame warranty will ame maintenance roposed substitution	on has been fully investigated ar be furnished for proposed subst service and source of replacem	ent parts, as applicable, is available n other trades and will not affect or d	· · · · · · · · · · · · · · · · · · ·	ed product.
Submitted	l by: Courtney Dar	more			
Signed by	Courtney Dar	more			
Firm:	Scranton Pro	ducts			
Address:	801 E. Corey	Street			
	Scranton, Per	nnsylvania 18504			
Telephone	e: (570) 348-099	97 ext. 8032, courtney.damore@)azekco.com		
A/E' s RE	VIEW AND ACTION	ON			
☐ Subst	titution approved -	Make submittals in accordance	with Specification Substitution Proce	edures.	
☐ Subst	titution approved a	as noted - Make submittals in ac	cordance with Specification Substitu	ition Procedures.	
☐ Subst	titution rejected - L	Jse specified materials.			
☐ Subst	titution Request re	ceived too late - Use specified r	naterials.		
Signed by	y :				Date:
Supportin Attached:	g Data	Drawings Produc	t Data ☐ Samples	☐ Tests ☐ Re	eports 🗆

SUBSTITUTION REQUEST (During the Bidding/Negotiating Stage)

Project:	Rock Creek Sch	ool Replacement (16-615134		Substitution Request Number:	SubReq-0455	54	
	WALKERSVILLE	≣, MD	F	From:	Courtney Dar	more, Scran	ton Products
То:	Kim Miskell, Fre District	derick County Public School	[Date:	07/10/2019		
	kim.miskell@fcp	s.org, (301) 644-5000		VE Project Number:			
Re:	Locker Room Be	enches		Contract For:	Frederick Cou	unty Public	School District
Specifica	ation Title: Loc	ker Room Benches		Description:	Locker Room	Benches	
Section:	10 51 53	Page: 2		Article/Paragraph	n: <u>2.3</u>		
Propose	d Substitution:	Tufftec Bench					_
Manufac	turer:	Scranton Products	Address	scrantonproducts.com		Phone:	570-348-0997
Trade Na	ame:	Scranton Tufftec Bench				Model No.:	N/A
		duct description, specifications ions of the data are clearly ide		photographs, and perforn	nance and test d	lata adequa	te for evaluation of
Attached installation		a description of changes to t	the Contract I	Documents that the propo	osed substitution	n will require	e for its proper
• [Proposed substituti	e service and source of replace on will have no adverse effect on does not affect dimensions	t on other tra	des and will not affect or		schedule.	
Submitte	d by: Courtney Da	more					
Signed b	y: Courtney Da	more					
Firm:	Scranton Pro	ducts					
Address	801 E. Corey	Street					
	Scranton, Pe	nnsylvania 18504					
Telephor	ne: <u>(570)</u> 348-09	97 ext. 8032, courtney.damor	re@azekco.c	om			
A/E' s RI	EVIEW AND ACTI	ON					
		- Make submittals in accordan	·				
		as noted - Make submittals in	accordance	with Specification Substit	ution Procedure	es.	
	•	Use specified materials.					
	·	eceived too late - Use specifie	ed materials.				
Supportion							Date:
Supportion Attached		Drawings Droo	duct Data	☐ Samples	☐ Tests	□ Re	eports





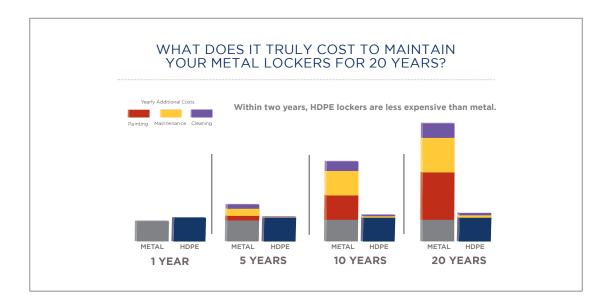
Understanding The Difference Between HDPE & Metal Lockers

The traditional material choice for hallway corridors is metal lockers, more specifically 16 gauge powder coated steel. Some of the common issues with this material choice are rusting, paint chipping, and graffiti removal. Scranton Products[®] developed Duralife Lockers[™] and Tufftec Lockers[®] to provide the industry with a better solution with superior or aesthetics, improved durability, less maintenance and improved air and noise quality.

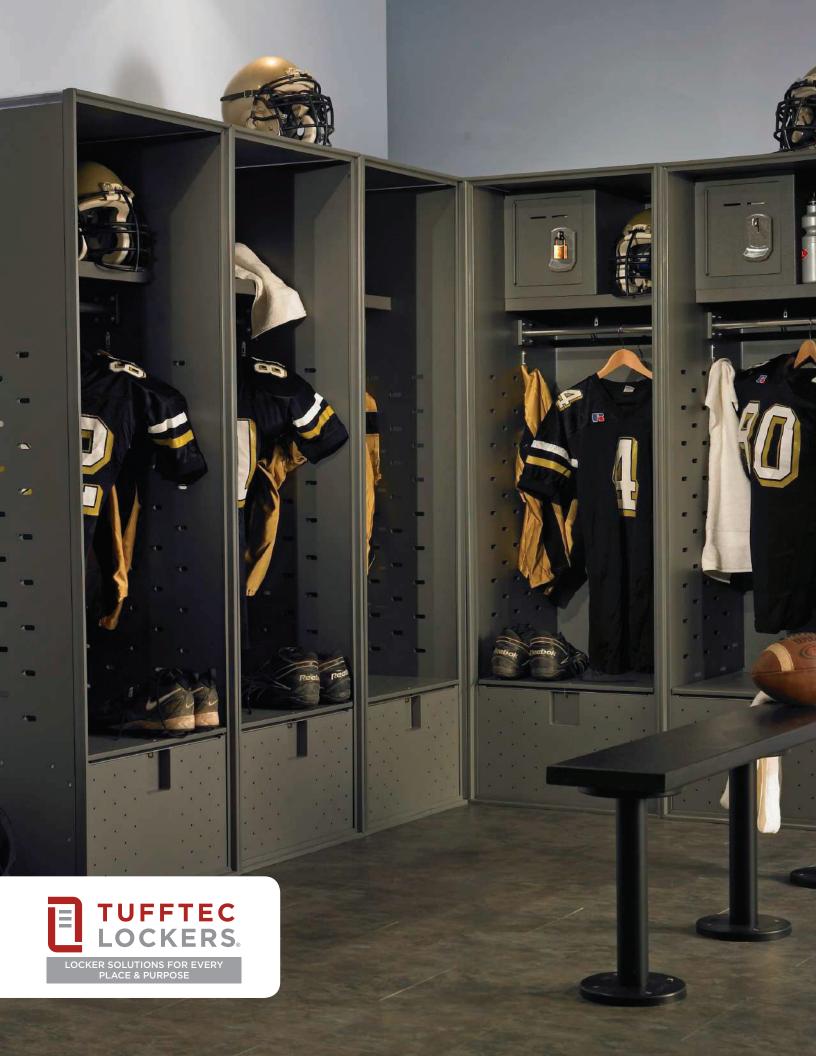
Duralife High Density Polyethylene (HDPE) lockers are specially designed to meet the demands of even the harshest environments. Formulated from a homogeneous color-throughout synthetic compound, Duralife Lockers $^{\text{TM}}$ and Tufftec Lockers $^{\text{G}}$ are the most durable and aesthetically pleasing locker solutions in the industry.

AN INVESTMENT THAT PAYS FOR ITSELF

Engineered for value-oriented customers looking to save time and avoid hassles, Scranton Products' Duralife Locker $^{\text{TM}}$ and Tufftec Lockers lines provides a competitively priced option with the lowest cost of ownership when compared to metal products.



Over a 20-year period, significant savings are realized by investing in HDPE Lockers. Compare the true cost of a metal corridor locker over a 20-year period. The above chart takes into account the initial cost, maintenance, dent and scratch repair, painting cost, graffiti removal, and replacement of damaged and corroded parts to create a cost of ownership model representing these costs over time. Within two years, HDPE lockers are less expensive than metal. In 20 years, the accumulated savings are substantial.



SUPERIOR AESTHETICS

ISSUE: Traditional metal locker venting and handles protrude out from the locker surface. These protruding objects may increase the incidents of bumps and scrapes and become a safety concern for students and school personnel.

SOLUTION: Venting for Tufftec Lockers® and Duralife Lockers™ are flush with the locker surface providing a clean look. Duralife Lockers have the option of handles and padlock or built-in combination locks. These are recessed preventing unnecessary bumps and scrapes and improving student safety.





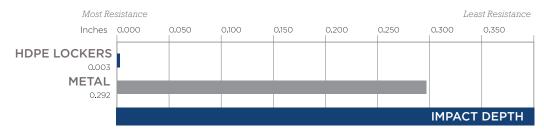
TRADITIONAL METAL LOCKERS

HDPE LOCKERS

IMPACT RESISTANCE

ISSUE: Traditional metal lockers are typically made from 16 gauge steel. That is less than 1/16" thick material, making them prone to denting and damage.

SOLUTION: Duralife Lockers[™] and Tufftec Lockers[®] are made of 1/2" thick rigid HDPE plastic making them 59 times greater in resistance to impacts when compared to traditional metal hallway lockers.

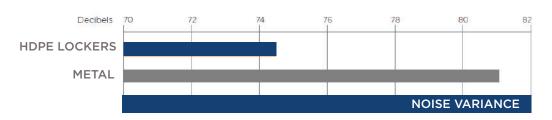


Test conducted following ASTM Standards

NOISE REDUCTION

ISSUE: Hallways with lockers are noisy by nature and the sound of traditional metal lockers can add to the noise and create a distracting environment.

SOLUTION: Duralife Lockers[™] and Tufftec Lockers[®] are 3 times quieter than metal lockers and provides substantial noise reductions in a hallway leading to a better overall building environment.



A 3 decibel increase equates to a noise that is twice as loud. Our testing shows that metal lockers are 6.4 decibels louder, which is 3 times as loud as Duralife Lockers.

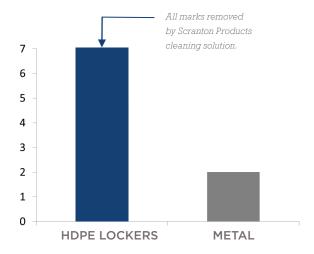


GRAFFITI RESISTANCE

ISSUE: Keeping lockers free from graffiti can be a time consuming process when dealing with traditional metal lockers. Many markers or writing agents are not easily removable and can leave a ghosting mark.

SOLUTION: Most graffiti readily wipes off Duralife Lockers[™] and Tufftec Lockers[®] non-porous surface. Stickers and contact paper can also be easily removed. When using Scranton Products[®] recommended environmentally friendly cleaning solution, all marking agents are easily removed and do not leave any ghosting marks.

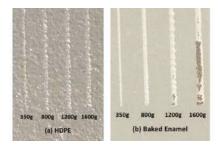
Testing was conducted in accordance with ASTM D6578. The test provides a standard set of conditions that can be used to evaluate the graffiti resistance of a surface. Seven marking agents and six cleaning products were used in the evaluation. Testing performed in 2013.



SCRATCH RESISTANCE

ISSUE: Scratches are a known problem for school lockers. Very light scratches are visibly seen on traditional metal lockers and deeper scratches expose the bare metal underneath leaving repainting or complete replacement as the only option to repair.

SOLUTION: Duralife Lockers[™] and Tufftec Lockers[®] are comprised of a color throughout formula making scratches more difficult to be seen at any depth. Scratches will never require painting.



A Taber Linear Abraser (model #5750) was used to measure scratch resistance of HDPE & baked enamel.

SUSTAINABILITY

ISSUE: Greenguard certified products meet the strictest standards for air quality and sustainability. Several major traditional metal locker brands (Penco, Lyons, Republic, Hadrian) are not Greenguard certified.*

SOLUTION: When you choose Scranton Products, you are supporting a healthier environment and healthier kids. GREEENGUARD Gold Certified, Duralife Lockers™ and Tufftec Lockers® meet strict criteria for products intended for use in schools and other environments where children spend significant periods of time. In addition, because they never need painting, they do not contribute to VOC emissions, improving both indoor and outdoor air quality. They are also impermeable to moisture, resist mold and mildew and can be power-washed or steam cleaned, eliminating the need for harmful chemical cleaners.

CATEGORY	HDPE LOCKERS	INDUSTRY AVERAGES
CATEGORY	HDPE	Traditional Material
Post-Consumer Recycled Content	0% (100%)	34%
Post Industrial Recycled Content	25%-75%	28%
VOC Content Below Defined Limits	Yes	Yes
Free of Added Urea-Formaldehyde Resins	Yes	Yes
GREENGUARD Certified Gold	Yes	No



BATHROOM PARTITIONS

LOCKERS

LOCKER ROOM BENCHES

SHOWER CUBICLES

DRESSING COMPARTMENTS

VANITIES

Proudly made in the USA, Scranton Products' brands provide industry-leading protection. Because Scranton Products is so confident that our solid plastic lockers will stand the test of time, they're backed with a full 15-year warranty (Duralife Lockers) and a 25-year warranty (Tufftec Lockers) covering breakage, corrosion and delamination under normal conditions.

 ${\bf Call~800.445.5148~for~the~Scranton~Products~sales~representative~in} \\ {\bf your~area,~or~visit~scranton~products.com}$











Scranton Products 801 E. Corey Stree Scranton, PA 1850 800.445.5148

Fax: 800.551.6993

www.scrantonproducts.com

Duralife Lockers (Standard) by Scranton Products

Health Product Declaration v2.1

CLASSIFICATION: 10 51 26 Plastic Lockers

created via: HPDC Online Builder

PRODUCT DESCRIPTION: Duralife Lockers are specially designed to meet the demands of the school environment. They are built to withstand the harshest daily use and keep your maintenance costs low. As Duralife Lockers are constructed from HDPE, they are impact, scratch, and dent resistant - offering facility managers and school officials low maintenance, durability, and an aesthetically pleasing locker solution that outperforms traditional metal lockers. This HPD covers Duralife Solid Plastic Lockers (Standard) in the following colors: Black, Blueberry, Burgundy, Charcoal Grey, Desert Beige, Fossil, Glacier Grey, Grey, Hunter Green, Red, Royal Blue, Sandcastle, and Violet.



Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold level	Residuals/Impurities	Are All Substances Above the Threshold I	ndicated:
Nested Materials Method Basic Method	€ 100 ppm€ 1,000 ppm	Residuals/Impurities Considered in 3 of 3 Materials	Characterized Percent Weight and Role Provided?	⊙ Yes ○ No
C Material	Per GHS SDS Per OSHA MSDS Other	Explanation(s) provided for Residuals/Impurities? • Yes • No	Screened Using Priority Hazard Lists with Results Disclosed?	• Yes • No
			Identified Name and Identifier Provided?	C Yes C No

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY GREENSCREEN SCORE | HAZARD TYPE

DURALIFE SOLID PLASTIC LOCKERS [1-HEXENE, POLYMER WITH ETHENE (1-HEXENE, POLYMER WITH ETHENE) LT-UNK POLYETHYLENE (POLYETHYLENE) LT-UNK FERRIC OXIDE (FERRIC OXIDE) BM-2 | CAN UNDISCLOSED LT-UNK MICA (MICA) LT-UNK SILICA, AMORPHOUS (SILICA, AMORPHOUS) LT-P1 | CAN UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | CAN UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED LT-UNK UNDISCLOSED BM-3 UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED LT-UNK UNDISCLOSED LT-1 | CAN | END UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 UNDISCLOSED NoGS UNDISCLOSED LT-UNK | RES KAOLIN CLAY LT-UNK | CAN CALCIUM CARBONATE (CALCIUM CARBONATE) BM-3 TITANIUM DIOXIDE (TITANIUM DIOXIDE) LT-1 | CAN | END CARBON BLACK (CARBON BLACK) LT-1 | CAN ALUMINUM, TRIETHYL- (ALUMINUM, TRIETHYL-) LT-P1 | RES TITANIUM TETRACHLORIDE (TITANIUM TETRACHLORIDE) LT-P1 | SKI | MAM | DURALIFE LOCKER HINGE | STEEL (STEEL) NoGS ZINC (ZINC) LT-P1 | AQU | END | MUL | PHY] DURALIFE LOCKER POCKET [NYLON 6,6 (NYLON 6,6)

Number of Greenscreen BM-4/BM3 contents....... 2 Contents highest concern GreenScreen Benchmark or List translator Score..... LT-1 Nanomaterial..... No

INVENTORY AND SCREENING NOTES:

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.1, and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product, along with the role and percent weight. Therefore, this HPD qualifies for the LEED v4 MR credit Building Product Disclosure and Optimization: Material Ingredient Reporting (Option 1). Substances not "Identified" are those considered proprietary to suppliers, and thus are "Undisclosed" on this HPD. Not every pigment substance listed will be present in every color covered in this HPD. Please contact manufacturer for further information if necessary.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: UL/GreenGuard Gold Certified VOC emissions: UL/GreenGuard Certified

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified? PREPARER: Self-Prepared **SCREENING DATE: 2018-01-04** VERIFIER: PUBLISHED DATE: 2018-01-11 C Yes VERIFICATION #: EXPIRY DATE: 2021-01-04 No

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods.

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

DURALIFE SOLID PLASTIC LOCKERS

%: 93.5000 - 94.7000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals or impurities with the potential to be present at or above the Content Inventory Threshold indicated that return a GS score of BM-1, LT-1, LT-P1 or NoGS have been disclosed, based on information provided in supplier statements, supplier SDS, and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Percent by weight of material and substances reported as ranges due to the variations in configurations and colors available.

1-HEXENE, POLYMER WITH ETHENE (1-HEXENE, POLYMER WITH ETHENE)

ID: 25213-02-9

%: 93.6000 - 99.0000	GS: LT-UNK	RC: Both	NANO: No	ROLE: Locker Substrate
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: High density polyethylene (HDPE). All colors available in this product line may contain up to 55% Post-Consumer, and up to 55% Pre-Consumer Recycled Content; contact manufacturer if more detailed information is required. Specific guidelines are being created by the HPD Collaborative to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including Plastics/Polymers and Recycled Content-Mixtures. This HPD will be updated as appropriate when these Special Conditions guidelines become available.

POLYETHYLENE (POLYETHYLENE)

ID: 9002-88-4

%: 0.3000 - 3.7500	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on HPD Priority lists				

SUBSTANCE NOTES: Low-density polyethylene (LDPE). Used as carrier for pigments. May also include the following CASRN: 25087-34-7 [LT-UNK | No warnings found on HPD Priority Hazard lists]; 26221-73-8 [LT-UNK | No warnings found on HPD Priority Hazard lists].

FERRIC OXIDE (FERRIC OXIDE)

ID: 1309-37-1

%: 0.0000 - 2.5000	GS: BM-2	RC: None	nano: No	ROLE: Pigments and Related Additives
HAZARDS:	AGENCY(IES) WITH WARNI	NGS:		
CANCER	MAK			Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: This substance is considered essentially inert for the purposes of Pharos toxics scoring (Pharos CML). Substance bound in matrix of finished product. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: **0.0000 - 0.5000** GS: LT-UNK RC: None NANO: No **ROLE: Pigments and Related Additives**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

MICA (MICA) ID: 12001-26-2

%: 0.0000 - 1.7500	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives				
HAZARDS:	AGENCY(IES) WITH WARNING	AGENCY(IES) WITH WARNINGS:						
None Found	No warnings found on HPD Priority lists							

SUBSTANCE NOTES: Substance bound in matrix of finished product. Substance not present in all colors; consult manufacturer for additional information if necessary.

SILICA, AMORPHOUS (SILICA, AMORPHOUS)

ID: 7631-86-9

%: 0.0000 - 0.1000	GS: LT-P1	RC: None	nano: No	ROLE: Pigments and Related Additives
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CANCER	Japan - GHS		Carci	inogenicity - Category 1A

SUBSTANCE NOTES: Substance bound in matrix of finished product. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 0.2000	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives			
HAZARDS:	AGENCY(IES) WITH WARNING	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists						

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 0.5000	GS: LT-P1	RC: None	nano: No	ROLE: Pigments and Related Additives
HAZARDS:	AGENCY(IES) WITH WAR	NINGS:		
CANCER	New Zealand - GHS			6.7A - Known or presumed human carcinogens

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 3.5000 GS: LT-UNK RC: None NANO: No ROLE: Pigments and Related Additives

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

UNDISCLOSED

%: 0.0000 - 0.3500	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives		
HAZARDS:	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists					

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 0.1500	GS: NoGS	RC: None	nano: No	ROLE: Pigments and Related Additives			
HAZARDS:	AGENCY(IES) WITH WAR	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists						

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 1.1500	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives		
HAZARDS:	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists					

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 1.5000	GS: BM-3	RC: None	nano: No	ROLE: Pigments and Related Additives			
HAZARDS:	AGENCY(IES) WITH WA	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists						

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 0.1800	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives		
HAZARDS:	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists					

UNDISCLOSED

%: 0.0000 - 1.2500	gs: NoGS	RC: None	nano: No	ROLE: Pigments and Related Additives			
HAZARDS:	AGENCY(IES) WITH WARP	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists						

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 1.2000	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 0.3300	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on HPD Priority lists				

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 0.5000	GS: NoGS	RC: None	nano: No	ROLE: Pigments and Related Additives	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on HPD Priority lists				

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

### 0.0000 - 0.1500	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives		
HAZARDS:	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists					

UNDISCLOSED

%: 0.0000 - 0.2000	GS: LT-1	RC: None	nano: No	ROLE: Pigments and Related Additives
HAZARDS:	AGENCY(IES) WITH W	ARNINGS:		
CANCER	IARC			Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 6	55		Carcinogen
ENDOCRINE	ChemSec - SIN	List		Endocrine Disruption
ENDOCRINE	TEDX - Potential	TEDX - Potential Endocrine Disruptors		Potential Endocrine Disruptor

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

4	%: 0.0000 - 0.2500	gs: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives
	HAZARDS:	AGENCY(IES) WITH WARNINGS:			
	None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 0.5300	GS: LT-P1	RC: None	NANO: No	ROLE: Pigments and Related Additives	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on HPD Priority lists				

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 0.1500	GS: NoGS	RC: None	NANO: No	ROLE: Pigments and Related Additives		
HAZARDS:	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists					

UNDISCLOSED

KAOLIN CLAY

%: 0.0000 - 0.1500	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
RESPIRATORY	AOEC - Asthmagens			Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

%: 0.0000 - 0.6500

GS: LT-UNK

RC: None

NANO: No

ROLE: Pigments and Related Additives

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). Substance bound in matrix of finished product. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

CALCIUM CARBONATE (CALCIUM CARBONATE)

ID: **471-34-1**

ID: 1332-58-7

%: 0.0000 - 2.5000	GS: BM-3	RC: None	nano: No	ROLE: Pigments and Related Additives	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on HPD Priority lists				

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). Substance bound in matrix of finished product. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

TITANIUM DIOXIDE (TITANIUM DIOXIDE)

ID: **13463-67-7**

GS: LT-1	RC: None	nano: No	ROLE: Pigments and Related Additives
AGENCY(IES) WITH WARNINGS:			
US CDC - Occupational Carcinogens			Occupational Carcinogen
CA EPA - Prop 65			Carcinogen - specific to chemical form or exposure route
IARC			Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
TEDX - Potential Endocrine Disruptors			Potential Endocrine Disruptor
MAK			Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
	AGENCY(IES) WITH WARNINGS: US CDC - Occupational CA EPA - Prop 65 IARC TEDX - Potential Endocr	AGENCY(IES) WITH WARNINGS: US CDC - Occupational Carcinogens CA EPA - Prop 65 IARC TEDX - Potential Endocrine Disruptors	AGENCY(IES) WITH WARNINGS: US CDC - Occupational Carcinogens CA EPA - Prop 65 IARC TEDX - Potential Endocrine Disruptors

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List. Substance bound in matrix of finished product. Form-specific hazards: airborne particles of respirable size – occupational setting. Specific guidelines are being created to address known issues related to transparency and disclosure for several materials

("Special Conditions"), including those with Form-Specific Hazards such as Titanium Dioxide. This HPD will be updated as appropriate when these guidelines become available. The Material Health Harmonization Task Group convened by the USGBC states that pigmentary titanium dioxide was "determined to be Benchmark 2 using the full GS (GreenScreen) method" (http://ow.ly/Z5ken). Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

CARBON BLACK (CARBON BLACK)	ID: 1333-86-4
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%: 0.0000 - 0.5000	GS: LT-1	RC: None	NANO: No	ROLE: Pigments and Related Additives
HAZARDS:	AGENCY(IES) WITH W	ARNINGS:		
CANCER	US CDC - Occup	pational Carcinogens		Occupational Carcinogen
CANCER	CA EPA - Prop 6	5		Carcinogen - specific to chemical form or exposure route
CANCER	IARC			Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK			Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Substance bound in matrix of finished product. Carbon Black is one of several compounds with warnings restricted to unbound/respirable forms. Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including those with Form-Specific Hazards such as Carbon Black. This HPD will be updated as appropriate when these guidelines become available. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

ALUMINUM, TRIETHYL- (ALUMINUM, TRIETHYL-)

ID: **97-93-8**

%: Impurity/Residual	GS: LT-P1	RC: None	nano: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
RESPIRATORY	AOEC - Asthmagens		Asthmagen (ARs) - sensitizer-induced - inhalable forms only	

SUBSTANCE NOTES: Potential Residual/Impurity of HDPE (25213-02-9), as predicted by Process Chemistry (Pharos CML). Catalyst (homogeneous/unstructured/unknown); Frequent; Percentage: Unknown. This potential Residual/Impurity is listed for virgin HDPE only; no potential residual hazards have been identified for recycled HDPE (Pharos CML).

TITANIUM TETRACHLORIDE (TITANIUM TETRACHLORIDE)

ID: **7550-45-0**

%: Impurity/Residual	GS: LT-P1	RC: None	nano: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
SKIN IRRITATION	EU - R-phrases		R34 - Causes burns	
SKIN IRRITATION	EU - GHS (H-Statements)		H314 - Causes sever	e skin burns and eye damage
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances		Extremely Hazardous Substances	

SUBSTANCE NOTES: Potential Residual/Impurity of HDPE (25213-02-9), as predicted by process chemistry (Pharos CML): Catalyst (homogeneous/unstructured/unknown); Frequent; Percentage: Unknown. This potential Residual/Impurity is listed for virgin HDPE only; no potential residual hazards have been identified for recycled HDPE (Pharos CML).

DURALIFE LOCKER HINGE

%: 5.0000 - 6.1000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated

that have a GS score of BM-1, LT-1, LT-P1 or NoGS, as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Zinc Plated Steel. Percent material reported as range due to the various configurations available. Additional (optional) hardware is listed in Section 4: Accessories.

STEEL (STEEL)

9: 95.0000 - 99.0000

9: NoGS

RC: UNK

NANO: No

ROLE: Base Metal

HAZARDS:

AGENCY((IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance is considered essentially inert for the purposes of Pharos toxics scoring.

ZINC (ZINC)					ID: 7440-66
%: 1.0000 - 5.0000	GS: LT-P1	RC: None	nano: No	ROLE: Metallic Coating	
HAZARDS:	AGENCY(IES) WITH WARN	IINGS:			
ACUTE AQUATIC	EU - R-phrases	EU - R-phrases		Toxic to Aquatic Organisms	
ACUTE AQUATIC	EU - GHS (H-State	EU - GHS (H-Statements)		H400 - Very toxic to aquatic life	
CHRON AQUATIC	EU - GHS (H-State	EU - GHS (H-Statements)		toxic to aquatic life with long lasting effects	
ENDOCRINE	TEDX - Potential Er	TEDX - Potential Endocrine Disruptors		docrine Disruptor	
MULTIPLE	German FEA - Sub	German FEA - Substances Hazardous to Waters		azard to Waters	
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-State	EU - GHS (H-Statements)		H250 - Catches fire spontaneously if exposed to air	
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Stater	nents)	H260 - In co spontaneou	ontact with water releases flammable gases which sly	h may ignite

SUBSTANCE NOTES: Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including those with form-specific hazards such as Zinc. This HPD will be updated as appropriate when these guidelines become available.

DURALIFE LOCKER POCKET

%: 0.3000 - 0.4000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on information provided in supplier disclosure letters, supplier SDS, and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Locker Pocket provides handle for opening/closing locker door. Available with either hole or hasp.

NYLON 6,6 (NYLON 6,6)				ID: 32131-17-2	
%: 95.0000 - 99.0000	GS: LT-UNK	RC: None	nano: No	ROLE: Molding Resin	
HAZARDS:	AGENCY(IES) WITH WARNING	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on	No warnings found on HPD Priority lists			
SUBSTANCE NOTES:					

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

UL/GreenGuard Gold Certified

CERTIFYING PARTY: Third Party

ISSUE DATE:2012-05-31

EXPIRY DATE: 2018-05-31 CERTIFIER OR LAB: UL Environment

APPLICABLE FACILITIES: All

CERTIFICATE URL: http://www.scrantonproducts.com/wpcontent/uploads/2015/04/Duralife-Lockers-Greenguard-

Gold-Certificate.pdf

CERTIFICATION AND COMPLIANCE NOTES: Certificate Number: 43403-420. UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Building products and interior finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.1-2010 using a Bathroom Environment. Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2.

VOC EMISSIONS UL/GreenGuard Certified

CERTIFYING PARTY: Third Party CERTIFIER OR ISSUE EXPIRY DATE:2012-APPLICABLE FACILITIES: All DATE: LAB: UL CERTIFICATE URL: https://spot.ulprospector.com/documents/1441701.pdf? 05-31 2018-Environment bs=32207&b=660931&st=1&sl=47819633&crit=U2NyYW50b24gUHJvZHVjdHM%3d&r=na&ind=builtenvironment 05-31

CERTIFICATION AND COMPLIANCE NOTES: Certificate Number: 43403-410. UL 2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Building materials are determined compliant in accordance with a Bathroom environment with an air change of 0.72 hr 1 and a loading of 8.20 m2. Products tested in accordance with UL 2821 test method to show compliance to emission limits in UL 2818, Section 7.1.



Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

HPD URL: No HPD available LOCKS

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Duralife Lockers are available with either Inset Combination Lock or Hasp Lock. Contact manufacturer for more information if required.

DOUBLE-PRONG BLACK COAT HOOK

HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Optional coat hook available for Duralife Lockers. Contact manufacturer for more information if required.

FILLERS HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Fillers are available for Duralife Lockers in the following widths: 4", 8", 12" and 18" (72" height). Contact manufacturer for more information if required.

LOCKER BASE HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

4" high black Locker Base available for Duralife Lockers. Bases are assembled in the field. Contact manufacturer for more information if required.



Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: Scranton Products ADDRESS: 801 E. Corey Street Scranton PA 18505, USA

WEBSITE: www.scrantonproducts.com

CONTACT NAME: Maria Knapp TITLE: Marketing Manager PHONE: 570.348.0997 ext 2345

EMAIL: mknapp@scrantonproducts.com

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet

GHS SDS Globally Harmonized System of Classi cation and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity

CAN Cancer

DEV Developmental toxicity **END** Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

GLO Global warming

MAM Mammalian/systemic/organ toxicity

MUL Multiple hazards **NEU** Neurotoxicity

OZO Ozone depletion

PBT Persistent Bioaccumulative Toxic

PHY Physical Hazard (reactive) **REP** Reproductive toxicity

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

LAN Land Toxicity

NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

BM-3 Benchmark 3 (use but still opportunity for improvement)

BM-2 Benchmark 2 (use but search for safer substitutes)

BM-1 Benchmark 1 (avoid - chemical of high concern)

BM-U Benchmark Unspeci ed (insu cient data to benchmark)

LT-P1 List Translator Possible Benchmark 1 LT-1 List Translator Likely Benchmark 1

LT-UNK List Translator Benchmark Unknown (insufficient information

from List Translator lists to benchmark)

NoGS Unknown (no data on List Translator Lists)

Recycled Types

PreC Preconsumer (Post-Industrial)

PostC Postconsumer

Both Both Preconsumer and Postconsumer Unk Inclusion of recycled content is unknown

None Does not include recycled content

Other Terms

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material Nested Method / Product Threshold Substances listed within each material per threshold indicated per product Basic Method / Product Threshold Substances listed individually per threshold indicated per produc

Nano Composed of nano scale particles or nanotechnology

Third Party Verified Verification by independent certifier approved by HPDC

Preparer Third party preparer, if not self-prepared by manufacturer

Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open

Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.

OSECTION 10 5126

SOLID PLASTIC LOCKERS

This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by one of the following methods:

Microsoft Word 2010: Display the FILE tab on the ribbon, click OPTIONS, then on left menu click on DISPLAY. Under ALWAYS SHOW THESE select or deselect HIDDEN TEXT.

Microsoft Word 2007: Click the Office button, select Word Options, select Display, then select or deselect the HIDDEN TEXT option.

Corel WordPerfect: From the pull-down menus select VIEW, then select or deselect the HIDDEN TEXT option.

This master specification section has been prepared by Scranton Products for use in the preparation of a project specification section covering Duralife solid plastic lockers.

The following additional sections are available from Scranton Products covering their other products:

0	06 6121	Solid Plastic Vanities
	10 2116-01	Solid Plastic Toilet Compartments (Hiny Hiders - floor mounted, overhead braced)
	10 2116-02	Solid Plastic Toilet Compartments (Hiny Hiders - floor-to-ceiling)
	10 2116-03	Solid Plastic Toilet Compartments (Hiny Hiders - ceiling hung)
	10 2116-04	Solid Plastic Toilet Compartments (Resistol)
	10 2116-05	Solid Plastic Toilet Compartments (Eclipse - floor mounted, overhead braced)
	10 2119	Solid Plastic Shower and Dressing Compartments
	10 5126-01	Solid Plastic Lockers (Tufftec)

This specification is a part of the SpexPlus™ system, which comprises a full architectural master specification that can be used to specify all project requirements.

The following should be noted in using this specification:

Hypertext links to specific websites are included after manufacturer names and names of organizations whose standards are referenced within the text, to assist in product selection and further research. Hypertext links are contained in parenthesis and shown in blue, e.g.:

(<u>www.spexplus.net</u>)
Optional text requiring a selection by the user is enclosed within brackets, e.g.: "Section [09 0000.] []"
Items requiring user input are enclosed within brackets, e.g.: "Section []."
Optional paragraphs are separated by an "OR" statement, e.g.:
*** OR ***

Sustainable requirements are included for projects requiring LEED certification, and are included as green text. For additional information on LEED, visit the U.S. Green Building Council website at www.usgbc.org.

For assistance on the use of the products in this section, contact Scranton Products by calling 800-445-5148, by email at info@scrantonproducts.com, or visit their website at www.scrantonproducts.com.

For assistance with obtaining or using the SpexPlus™ Master Specification System contact SpexPlus by calling 1-888-877-SPEX (1-888-877-7739), by email at chaney@spexplus.net, or visit our website at www.spexplus.net.

PART 1 GENERAL

1.1 SUMMARY

Edit the following paragraphs to include only those items specified in this section.

- A. Section Includes:
 - 1. Solid plastic lockers.
- B. Related Sections:
 - 1. Division 01: Administrative, procedural, and temporary work requirements...

1.2 REFERENCES

A. National Fire Protection Association (NFPA) (<u>www.nfpa.org</u>) 286 - Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.

1.3 SUBMITTALS

Limiting submittals to only those actually required helps to minimize liability arising from the review of submittals. Minimize submittals on smaller, less complex projects.

Include the following for submission of shop drawings, product data, and samples for the Architect's review.

- A. Submittals for Review:
 - 1. Shop Drawings: Include dimensioned layout, elevations, trim, closures, and accessories.
 - 2. Product Data: Manufacturer's descriptive data.
 - 3. Samples: [2 x 3] [__ x __] inch samples [showing available colors.] [in each color.]

Include the following for submission of sustainable design submittals.

- B. Sustainable Design Submittals:
 - 1. Recycled Content: Certify percentages of post-consumer and pre-consumer recycled content.
 - 2. Regional Materials: Certify distance between manufacturer and Project and between manufacturer and extraction or harvest point in miles.

1.4 QUALITY ASSURANCE

The following paragraphs specify minimum level of experience required of the parties performing the work of this section. Retain if required, and edit to suit project requirements.

- A. Manufacturer Qualifications: Minimum [5] [__] years experience in manufacture of solid plastic lockers with products in satisfactory use under similar service conditions.
- B. Installer Qualifications: Minimum [5] [] years experience in work of this Section.

1.5 WARRANTIES

 Provide manufacturer's 15 year warranty against breakage, corrosion, and delamination under normal conditions.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Contract Documents are based on products by Scranton Products. (www.scrantonproducts.com)

Edit the following to indicate whether or not substitutions will be permitted for the products in this section.

B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

2.2 MATERIALS

- A. Solid Plastic Panels:
 - 1. High impact, high density polyethylene (HDPE) formed under high pressure into solid plastic components with homogeneous color throughout, with smooth orange peel finish.
 - 2. Edges machined to accept assembly brackets.
 - Pass NFPA 286.

Verify current recycled content with Scranton Products.

4. Recycled content: Minimum [25] [] percent.

Edit the following to suit project requirements.

5. Color: [____.] [To be selected from manufacturer's full color range.]

2.3 COMPONENTS

- A. Locker Doors: 1/2 inch thick.
- B. Sides, Tops, Bottoms, Backs, and Shelves: 3/8 inch thick.
- C. Latch: Continuous type, manufactured from HDPE, capable of accepting various locking mechanisms, fastened to entire length of door.
- D. Door Hinge: Heavy duty zinc-plated steel, full length, assembled onto door and locker front.
- E. Assembly: Tongue-and-groove joint construction using 3/8 inch thick HDPE, full height of locker.

Coat hooks are standard on single, double, and triple tier lockers.

F. Coat Hooks: Two-prong, high impact plastic, mounted to bottom of shelf or divider, one per door opening.

2.4 FABRICATION

- A. Fabricate locker components square and rigid, finish free from scratches and chips.
- B. Fabricate locker components for snap-together assembly or slide-together dovetail connections providing solid and secure, anti-racking construction.
- C. Fabricate adjacent lockers with common side panel.
- D. Fabricate locker units for assembly in maximum of three adjacent lockers.

PART 3 EXECUTION

3.1 INSTALLATION

A. Install lockers in accordance with manufacturer's instructions and approved Shop Drawings.

Lockers may be either floor-mounted or installed on a raised base; edit the following to suit project requirements.

- B. [Set lockers directly on floor.] [Set lockers on prepared locker base.]
- C. Set plumb, level, rigid, and aligned.
- D. Attach lockers to supporting construction with anchors best suited to substrate conditions.

3.2 ADJUSTING

A. Adjust doors and latches to operate correctly.

END OF SECTION

WE'VE REVOLUTIONIZED THE CORRIDOR LOCKER

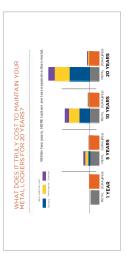
Specially designed to meet the dominated of the achievement in the first year corridor application the hardwarf ally use Scratton Products begins with the heartwarf all. American made HDFE that is expinenced for attempt

FEATURES & BENEFITS

- Fire Rated, NFPA 286 compliant
- Will never rust, corrode or delaminate
 Impact and dent resistant
- Moisture impermeability
 Quiet close / hallway noise reduction
 Resisting: odors, mildew, mold and graffiti

AN INVESTMENT THAT PAYS FOR ITSELF

Engineered for value-oriented customers looking to save time and avoid haselse, Scratton Products Durablie Locker¹¹¹line provides a competitively priced option with the lowest cost of owner ship when compared to metal products.



Over a 20-year period, significant savings are realized by investing in Durable Lockers²⁴. Compare the true cont of a meal corrictor before over a 20-year period. The above chart akes into account the initial cost, maintenance, deat and scatch repair pathings over, graffit removal, and replacement of damaged and concedigate to create a cost of overenting model representing these costs over time. Within two years, HDPE bolesns are less expensive than metal. In 20 years, the accumulated savings are substantial.







BUILT FOR THE LONG HALL

WORRY-FREE MAINTENANCE

	COAT HOOK	Metal 'J' Hook
	DIMENSIONS COAT HOOK	Width 12: 15" Depth 12", 15", 16" Heght 48", 60", 72"
	TIERS HINGE	Sher anotized steel continuous hinge
S	TIERS	1, 2, 3* 3 ner kockers can only be parth and in 72*
OFFERIN	SHELF	Plastic shaff located ZZ' from the top (standard with 1 tier locker)
STANDARD OFFERINGS	VENTING	Arc venting for improved styling

OPTIONAL OFFERINGS

LOCKER BASE FILLERS

TOPS & TRIM

©









COLOR COLLECTION





When you choose Scranton Products sustainable materials for your restrooms, lockers and other applications, you are supporting a healthier environment. Scranton Products High Density Polyethylene (HDPE) reduces environmental impact and offers both initial and long-term improvements to the indoor air quality of your projects.

Incorporating Scranton Products HDPE sustainable materials can contribute points toward LEED v4 certification in the following categories:

Material & Resources

- Recycled Content
- REACH Optimization
- Construction Waste Diversion

Indoor Air Quality

- Low Emitting Materials
- Interior Lighting Surface
- Reflectance

Material & Resources

LEED v4 Credit Information - Building Product Disclosure and Optimization - Sourcing of Raw Materials

Option 2. Leadership Extraction Practices (1 point)

Use products that meet at least one of the responsible extraction criteria below for at least 25%, by cost, of the total value of permanently installed building products in the project.

Recycled Content. Recycled content is the sum of post-consumer recycled content plus one-half the pre-consumer recycled content, based on cost. Products meeting recycled content criteria are valued at 100% of their cost for the purposes of credit achievement calculation.

How Scranton Products Contributes to LEED v4 Recycled Content Credit

Scranton Products uses factory responsible recycling to incorporate between 30 and 85% recycled content in each product. This recycled content is made up of both post-consumer and pre-consumer materials. Refer to the charts below for recycled content by color for HDPE Solid Plastic Bathroom Partitions and Lockers made by Scranton Products.













Post-Consumer & Pre-Consumer Recycled Content

Scranton Products Bathroom Partitions

	Hiny Hiders & Eclipse Partitions						
Color	Stan	dard	Fire-l	Rated			
	Post Pre		Post	Pre			
Black	0%	85%	0%	25%			
Blueberry	35%	35%	0%	25%			
Bluestone	10%	20%					
Bronze	30%	10%	0%	25%			
Burgundy	10%	40%					
Charcoal Grey	35%	35%	0%	25%			
Concrete	10%	20%					
Desert Beige	35%	5%	0%	25%			
Fossil	20%	10%					
Glacier Grey	0%	40%					
Gravel	0%	30%					
Grey	35%	15%	0%	25%			
Hunter Green	20%	30%					
Linen	10%	30%	0%	25%			
Mahogany	10%	20%					
Mocha	20%	20%	0%	25%			
Nickel	30%	10%	0%	25%			
Onyx	0%	70%					
Paisley	0%	70%	0%	25%			
Parchment	10%	20%					
Sandcastle	10%	30%					
Sandstone	10%	30%					
Shale	20%	30%					
Stainless Steel	20%	20%	0%	25%			
Storm	20%	30%					
Titanium	20%	10%					
White	0%	30%					

Scranton Products Lockers

Color	Tuff	tec	Duralife	
20101	Post	Pre	Post	Pre
Black	50%	30%	50%	0%
Blueberry	50%	30%	50%	0%
Burgundy	50%	20%	50%	0%
Charcoal Grey	50%	30%	50%	0%
Desert Beige	50%	15%	50%	0%
Fossil			50%	0%
Glacier Grey	50%	15%	50%	0%
Grey	50%	20%	50%	0%
Hunter Green	50%	20%	50%	0%
Red			50%	0%
Royal Blue			50%	0%
Sandcastle	50%	15%	50%	0%
Steel Blue			50%	0%
Violet			50%	0%
Yellow			50%	0%













LEED v4 Credit Information - Building Product Disclosure and Optimization - Material Ingredients

Option 2. Material Ingredient Optimization (1 point)

Use products that document their material ingredient optimization using the paths below for at least 25%, by cost, of the total value of permanently installed products in the project.

International Alternative Compliance Path — REACH Optimization. End use products and materials that do not contain substances that meet REACH criteria for substances of very high concern. If the product contains no ingredients listed on the REACH Authorization or Candidate list, value at 100% of cost.

How Scranton Products Contributes to LEED v4 REACH Optimization

The solid plastic sheet material used to construct Scranton Products bathroom partitions and lockers is not manufactured or formulated above the 0.1% threshold, with any of the 161 Substances of Very High Concern (SVHC) listed in the candidate list that is current as of the effective date of December 17, 2014 (http://echa.europa.eu/web/guest/candidate-list-table).

LEED v4 Credit Information – Building Product Disclosure and Optimization - Local Sourcing

For Building Product Disclosure and Optimization credit achievement calculation (Recycled Content and REACH Optimization), products sourced (extracted, manufactured, and purchased) within 100 miles (160 km) of the project site are valued at 200% of their base contributing cost.

How Scranton Products Contributes to LEED v4 Local Sourcing

Below is a map showing a 100 mile radius from Scranton Products manufacturing location at 801 East Corey Street, Scranton, PA 18505.



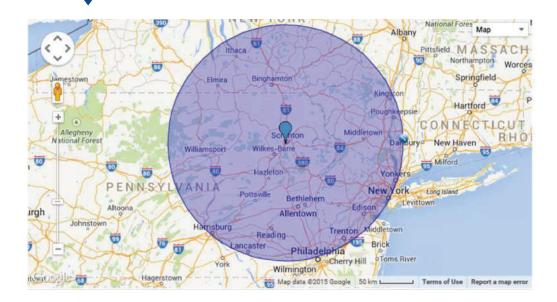












LEED v4 Credit Information - Construction and demolition waste management

Recycle and/or salvage nonhazardous construction and demolition materials. Calculations can be by weight or volume but must be consistent throughout.

Option 1. diversion (1-2 points)

Path 1. divert 50% and three material streams (1 point)

Divert at least 50% of the total construction and demolition material; diverted materials must include at least three material streams.

Path 2. divert 75% and four material streams (2 points)

Divert at least 75% of the total construction and demolition material; diverted materials must include at least four material streams.

Option 2. reduction of total waste material (2 points)

Do not generate more than 2.5 pounds of construction waste per square foot (12.2 kilograms of waste per square meter) of the building's floor area.













How Scranton Products Contributes to LEED v4 Construction Waste Diversion

Scranton Products HDPE solid plastic products are 100% recyclable. Scranton Products offers a program by which all unwanted solid plastic articles we manufacture can be returned for recycling. Please contact a customer service agent for more information.

Indoor Environmental Quality

LEED v4 Credit Information - Low Emitting Materials

Furniture evaluation. New furniture and furnishing items must be tested in accordance with ANSI/BIFMA Standard Method M7.1–2011. Comply with ANSI/BIFMA e3-2011 Furniture Sustainability Standard, Sections 7.6.1 and 7.6.2, using either the concentration modeling approach or the emissions factor approach. Model the test results using the open plan, private office, or seating scenario in ANSI/BIFMA M7.1, as appropriate. USGBC-approved equivalent testing methodologies and contaminant thresholds are also acceptable. For classroom furniture, use the standard school classroom model in CDPH Standard Method v1.1. Documentation submitted for furniture must indicate the modeling scenario used to determine compliance.

Salvaged and reused furniture more than one year old at the time of use is considered compliant, provided it meets the requirements for any site-applied paints, coatings, adhesives, and sealants.

How Scranton Products Contributes to LEED v4 Low Emitting Materials

Scranton Products solid plastic bathroom partitions and lockers are GREENGUARD Gold certified. Please click on the link below to download GREENGUARD certification documents http://productguide.ulenvironment.com/SearchResults.aspx?BrandID=1033. In addition, Scranton Products solid plastic HDPE products do not require any site-applied paints, coatings, adhesives or sealants. Power-washable and steam cleanable means harmful chemical cleaners are not needed.

LEED v4 Credit Information - Interior lighting













Option 2. Lighting quality (1 point)

Choose four out of seven strategies.

- E. For 90% of the regularly occupied floor area, meet the following thresholds for area-weighted average surface reflectance: 85% for ceilings, 60% for walls, and 25% for floors.
- F. If furniture is included in the scope of work, select furniture finishes to meet the following thresholds for area-weighted average surface reflectance: 45% for work surfaces, and 50% for movable partitions.
- G. For 75% of the regularly occupied floor area, meet ratio of average wall surface illuminance

Color Selection	LRV	Hiny Hiders & Eclipse	Resistall	Tufftec	Duralife
Black	4	Tilly fliders & Edipse	Nesistaii	runtec	Duranie
Blueberry	6	•			
Bluestone	32				
Bronze	22				
Burgundy	8	•		•	•
<u> </u>	 15				-
Charcoal Grey				•	•
Chestnut	8	•			
Concrete	36	•			
Desert Beige	40	•	•	•	•
Fossil	24	•			•
Glacier Grey	72	•		•	•
Gravel	35	•			
Grey	33	•	•	•	•
Hunter Green	7	•		•	•
Linen	63	•			
Mahogany	5	•			
Mocha	31	•			
Nickel	30	•			
Onyx	5	•			
Paisley	4	•			
Parchment	54	•			
Red	11				•
Royal Blue	7				•
Sandcastle	50	•		•	•
Sandstone	44	•			
Shale	11	•			
Stainless Steel	31	•			
Steel Blue	28				•
Storm	11	•			
Titanium	33	•			
Violet	9	-			•
White	87	•			
Yellow	49				•

(excluding fenestration) to average work plane (or surface, if defined) illuminance that does not exceed 1:10. Must also meet strategy E, strategy F, or demonstrate areaweighted surface reflectance of 60% for walls.

How Scranton Products Contributes to LEED v4 Interior Lighting

Scranton Products offers several colors with a surface reflectance greater than 50% as measured using Light Reflectance Value (LRV).

SP-07 Rev. 03022015











SCRANTON PRODUCTS LIMITED WARRANTY

Scranton Products' Hiny Hider® Partitions, Eclipse Partitions®, Aria Partitions™, Tufftec Lockers®, Tufftec™ benches, Duralife Lockers®, Scranton Product® brand shower stalls, dressing compartments and vanities, including products sold under the company names (Santana®, Comtec®, Capitol®) (hereinafter "warranted products") are warranted by the manufacturer to a corporation or other commercial entity which purchases the partitions and lockers for use in the conduct of its business to be free from defects in material and workmanship that (i) occur as a direct result of the manufacturing process; (ii) occur under normal use and service; (iii) occur during the warranty period; and (iv) result in breakage or delamination. Limited warranty periods are as follows:

Lockers/Benches

Tufftec Lockers®	25 years
------------------	----------

Tufftec® Benches 25 years

Duralife Lockers® 15 years

Bathroom Partitions

Eclipse Partitions® 25 years

Hiny Hiders® Partitions 25 years

Aria Partitions™ 25 years

Shower Stalls/Vanities/Dressing Compartments

Scranton Products [®] Shower Stalls 25 years

Scranton Products [®] Vanities 25 years

Scranton Products ® Dressing Compartments 25 years













SCRANTON PRODUCTS LIMITED WARRANTY

This limited warranty is subject to the following conditions:

- 1. The warranted products have been installed in accordance with the manufacturer's written instructions and drawings (as contained in the instruction sheet supplied with the order).
- 2. The limited warranty is effective only with regard to the original installation of the warranted products and not to any subsequent installation that has altered the warranted product without the consent of the manufacturer.
- 3. The limited warranty shall not be applicable if the defect in the warranted product has resulted from any failure or defect in the building or substructure to which the warranted product is attached (including but not limited to settling, shifting, distorting, or movement of the walls or foundation of the structure), extraordinary wear and tear, violent action of the elements (such as sunlight, lightening, hurricane, tornado, or hail), vandalism, misuse, neglect, or improper handling of the warranted product, during or after installation, or improper or insufficient ventilation of the building to which the warranted product is attached.

Subject to the above conditions, in the event that the warranted product or any portion thereof, is found to be defective in workmanship or materials within limited warranty period from the date of receipt by customer, the Manufacturer will repair or replace the defective material, or will refund the original purchase price of the defective material. The choice of remedy is in Manufacturer's sole discretion. The Manufacturer will not be liable for labor and/or removal costs connected with the claim. Replacement product will be provided as close to the original color and design as possible, although it is not guaranteed to match completely. In the event of repair or replacement, the original limited warranty shall apply to the repaired or replaced portion of the warranted products and will extend for the balance of the warranty period in effect at the time the material proved defective.

THE WARRANTY STATEMENTS CONTAINED IN THIS LIMITED WARRANTY SET FORTH THE ONLY WARRANTIES EXTENDED BY SCRANTON PRODUCTS AND ARE IN LIEU OF ALL OTHER CONDITIONS AND WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE PROVISIONS OF THIS WARRANTY SHALL CONSTITUTE THE ENTIRE LIABILITY OF SCRANTON PRODUCTS AND THE PURCHASER/PROPERTY OWNER'S EXCLUSIVE REMEDY FOR BREACH OF THIS WARRANTY. IN NO EVENT SHALL SCRANTON PRODUCTS BE LIABLE TO THE PURCHASER/PROPERTY OWNER FOR SPECIAL, INCIDENTAL, INDIRECT, CONSEQUENTIAL, OR PUNITIVE DAMAGES ARISING FROM THE USE OF THE WARRANTED PRODUCTS OR THE BREACH OF ANY EXPRESS OR IMPLIED WARRANTY. The laws of some states and provinces do not allow the exclusion, limitation or variation of certain conditions or warranties implied by legislation so the above limitations or exclusions may not apply to you. This Limited Warranty gives you specific legal rights and you may also have other rights that vary from state to state and province to province.

Any claim under such warranties must be made during the applicable warranty period and shall be asserted by contacting: Scranton Products, (Santana/Comtec/Capitol) 801 E. Corey Street-Scranton, PA 18505-Phone# 800-445-5148













SECTION 10 5126-03

SOLID PLASTIC LOCKERS

This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by one of the following methods:

Microsoft Word 2010: Display the FILE tab on the ribbon, click OPTIONS, then on left menu click on DISPLAY. Under ALWAYS SHOW THESE select or deselect HIDDEN TEXT.

Microsoft Word 2007: Click the Office button, select Word Options, select Display, then select or deselect the HIDDEN TEXT option.

Microsoft Word (earlier versions): From the pull-down menus select TOOLS, then OPTIONS. Under the tab labeled VIEW, select or deselect the HIDDEN TEXT option.

Corel WordPerfect: From the pull-down menus select VIEW, then select or deselect the HIDDEN TEXT option.

This master specification section has been prepared by Scranton Products for use in the preparation of a project specification section covering Tufftee solid plastic lockers and locker benches.

The following additional sections are available from Scranton Products covering their other products:

06 6121	Solid Plastic Vanities
10 2116-01	Solid Plastic Toilet Compartments (Floor mounted, overhead braced)
10 2116-02	Solid Plastic Toilet Compartments (Floor-to-ceiling)
10 2116-03	Solid Plastic Toilet Compartments (Ceiling hung)
10 2116-04	Solid Plastic Toilet Compartments (Resistall)
10 2119	Solid Plastic Shower and Dressing Compartments
10 5126-02	Solid Plastic Lockers (Duralife)

The following should be noted in using this specification:

Hypertext links to specific websites are included after manufacturer names and names of organizations whose standards are referenced within the text, to assist in product selection and further research. Hypertext links are contained in parenthesis and shown in blue, e.g.:

(www.scrantonproducts.com)

Optional text requiring a selection by the user is enclosed within brackets, e.g.: "Section [09 0000.] [_____.]"

Items requiring user input are enclosed within brackets, e.g.: "Section [____ - ____]."

Optional paragraphs are separated by an "OR" statement, e.g.:

**** OR ****

Sustainable requirements are included for projects requiring LEED certification, and are included as green text. For additional information on LEED, visit the U.S. Green Building Council website at (<u>www.usgbc.org</u>). For assistance on the use of the products in this section, contact Scranton Products by calling 800-445-5148, by email at <u>info@scrantonproducts.com</u>, or visit their website at (<u>www.scrantonproducts.com</u>).

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes:
 - 1. Solid plastic locker room benches.
- A. Related Sections:
 - 1. Division 01: Administrative, procedural, and temporary work requirements.
 - 2. Division 06: Rough carpentry.
- B. References
 - 1. UL GREENGUARD certified low emitting materials.
 - 2. ASTM B221 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

1.2 SUBMITTALS

Limiting submittals to only those actually required helps to minimize liability arising from the review of submittals. Minimize submittals on smaller, less complex projects.

Include the following for submission of shop drawings, product data, and samples for the Architect's review. A. Submittals for Review: 1. Shop Drawings: Include dimensioned layouts, elevations, trim, closures and accessories. 2. Product Data: Manufacturer's descriptive data 3. Samples: [3 x 3] [x] inch samples [showing available colors] [in each color]. Include the following for submission of sustainable design submittals. B. Sustainable Design Submittals 1. Recycled Content: Certify percentages of post-consumer and pre-consumer recycled content. 2. Regional Materials: Certify distance between manufacturer and Project. 3. Indoor Air Quality: Certify low emitting materials. **QUALITY ASSURANCE** 1.3 The following paragraphs specify minimum level of experience required of the parties performing the work of this section. Retain if required, and edit to suit project requirements. A. Manufacturer Qualifications: Minimum [5] [] years of experience in manufacture of solid plastic lockers with products in satisfactory use under similar service conditions. B. Installer Qualifications: Minimum [5] [] years of experience in work of this Section. [Certified installer through manufacturer's installation certification program]. C. Indoor Environment Quality Certification: Provide certificate indicating that products have been certified under one of the following programs, or a comparable certification acceptable to Owner. 1. GREENGUARD Certification (formerly known as GREENGUARD Indoor Air Quality Certification) 2. GREENGUARD GOLD Certification (formerly known as GREENGUARD Children & Schools) 1.4 DELIVERY, STORAGE, AND HANDLING A. Protect plastic benches from exposure to direct sunlight. This product is not intended for outdoor use. 1.5. WARRANTY A. Provide manufacturer's 25 year warranty against breakage, corrosion, and delamination under normal conditions. PART 2 **PRODUCTS** 2.1 **MANUFACTURERS** A. Contract documents are based on products by Scranton Products. (www.scrantonproducts.com)

Edit the following to indicate whether or not substitutions will be permitted for the products in this section.

B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

- C. Materials
 - 1. High Density Polyethylene (HDPE): polyethylene thermoplastic formed into solid plastic components with homogeneous color throughout, with smooth orange peel finish.
 - 2. Heavy Duty Extruded Aluminum: B221, 6063-T6

Verify current recycled content with Scranton Products.

4. Recycled content: Minimum [25] [__] percent.

Edit the following to suit project requirements.

5. Color: [____.] [To be selected from manufacturer's color range.]

2.2 LOCKER BENCHES

The maximum length for a single bench piece with no seam is 96 inches.

A. Bench Tops: 1-1/2 inch thick HDPE with edges rounded to ½ inch radius, 9-1/2 inches wide x [[__] inches long.] [lengths indicated.]

Recommended bench pedestal spacing is 36 inches on center.

B. Pedestals: Aluminum, 16 inches high, secured to bench tops with stainless steel tamper resistant Torx head screws and secured to the floor with lead expansion shields and 2 inch long stainless steel machine bolts.

2.8 FABRICATION

- A. Fabricate locker components square and rigid; finish free from scratches and chips.
- B. Fabricate locker components for snap-together assembly or slide-together dovetail connections providing solid and secure, anti-racking construction.
- C. Fabricate adjacent lockers with common side panel.
- D. Fabricate locker units for assembly in maximum of three adjacent lockers.
- E. Fabricate locker benches to sizes indicated in single lengths.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install lockers in accordance with manufacturer's instructions and approved Shop Drawings.
- B. [Set lockers directly on floor.] [Set lockers on prepared locker base].
- C. Set plumb, level, rigid, and aligned.
- D. Attach lockers to supporting construction with anchors best suited to substrate conditions.
- E. Attach locker benches to floor.

3.2 ADJUSTING

A. Adjust doors and latches to operate correctly.

END OF SECTION

Tufftec Lockers by Scranton Products

Health Product Declaration v2.1

CLASSIFICATION: 10 51 26 Plastic Lockers

created via: HPDC Online Builder

PRODUCT DESCRIPTION: Tufftec Lockers provide solutions for many industries looking to remodel or design their locker rooms. Scranton Product's Tufftec Lockers are constructed from solid high-density polyethylene (HDPE), which is engineered for strength and durability. HDPE plastic lockers can withstand the harshest daily use, and offer facility managers low maintenance. With extreme resistance to scratches, graffiti, mold and bacteria, Tufftec Lockers are the most durable, costeffective, and aesthetically pleasing lockers in the industry. This HPD covers standard Tufftec Solid Plastic Lockers in all available colors: Hunter Green, Burgundy, Blueberry, Glacier Grey, Grey, Charcoal Grey, Desert Beige, Linen, Sandcastle, and



Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold level	Residuals/Impurities	Are All Substances Above the Thres	hold Indicated:
Nested Materials Method Basic Method	€ 100 ppm€ 1,000 ppm	Residuals/Impurities Considered in 2 of 2 Materials	Characterized Percent Weight and Role Provided?	• Yes • No
Threshold Disclosed Per Material Product	Per GHS SDS Per OSHA MSDS Other	Explanation(s) provided for Residuals/Impurities? • Yes • No	Screened Using Priority Hazard Lists with Results Disclosed?	• Yes • No
			Identified Name and Identifier Provided?	C Yes C No

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY GREENSCREEN SCORE | HAZARD TYPE

TUFFTEC SOLID PLASTIC LOCKERS [1-HEXENE, POLYMER WITH ETHENE (1-HEXENE, POLYMER WITH ETHENE) LT-UNK POLYETHYLENE (POLYETHYLENE) LT-UNK FERRIC OXIDE (FERRIC OXIDE) BM-2 | CAN UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | CAN UNDISCLOSED NoGS UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED LT-UNK UNDISCLOSED BM-2 | RES UNDISCLOSED NoGS UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 UNDISCLOSED NoGS UNDISCLOSED LT-UNK | RES MICA (MICA) LT-UNK UNDISCLOSED LT-UNK SILICA, AMORPHOUS (SILICA, AMORPHOUS) LT-P1 | CAN CALCIUM CARBONATE (CALCIUM CARBONATE) BM-3 TITANIUM DIOXIDE (TITANIUM DIOXIDE) LT-1 | CAN | END CARBON BLACK (CARBON BLACK) LT-1 | CAN UNDISCLOSED LT-UNK | CAN ALUMINUM, TRIETHYL- (ALUMINUM, TRIETHYL-) LT-P1 | RES TITANIUM TETRACHLORIDE (TITANIUM TETRACHLORIDE) LT-P1 | SKI | MAM KAOLIN CLAY LT-UNK | CAN] TUFFTEC HINGE [ALUMINUM (ALUMINUM) LT-P1 | RES | END | PHY STAINLESS STEEL (STAINLESS STEEL) NoGS]

Number of Greenscreen BM-4/BM3 contents....... 1 Contents highest concern GreenScreen Benchmark or List translator Score..... LT-1 Nanomaterial..... No

INVENTORY AND SCREENING NOTES:

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.1, and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product, along with the role and percent weight. Therefore, this HPD qualifies for the LEED v4 MR credit Building Product Disclosure and Optimization: Material Ingredient Reporting (Option 1). Substances not "Identified" are those considered proprietary to suppliers, and thus are "Undisclosed" on this HPD. This HPD covers all colors available in this product line. Not every pigment substance listed will be present in every color. Please contact manufacturer for further information if necessary.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: UL/GreenGuard Gold Certified VOC emissions: UL/GreenGuard Certified

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

elf-Prepared

VERIFIER: **VERIFICATION #:** SCREENING DATE: 2018-01-08 PUBLISHED DATE: 2018-01-08 EXPIRY DATE: 2021-01-08

C Yes



This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

TUFFTEC SOLID PLASTIC LOCKERS

%: 93.8000 - 96.5000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals or impurities with the potential to be present at or above the Content Inventory Threshold indicated that return a GS score of BM-1, LT-1, LT-P1 or NoGS have been disclosed, based on information provided in supplier statements, supplier SDS, and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Percent by weight of materials and substances reported as ranges due to the various configurations and colors available.

1-HEXENE, POLYMER WITH ETHENE (1-HEXENE, POLYMER WITH ETHENE)

ID: 25213-02-9

%: 93.6000 - 99.0000	GS: LT-UNK	RC: Both	NANO: No	ROLE: Locker Body; Handle
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: High density polyethylene (HDPE). All colors available in this product line may contain up to 55% Post-Consumer, and up to 55% Pre-Consumer Recycled Content; contact manufacturer if more detailed information is required. Specific guidelines are being created by the HPD Collaborative to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including Plastics/Polymers and Recycled Content-Mixtures. This HPD will be updated as appropriate when these Special Conditions guidelines become available.

POLYETHYLENE (POLYETHYLENE)

ID: 9002-88-4

%: 0.2000 - 3.7500	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on	HPD Priority lists			

SUBSTANCE NOTES: Low-density polyethylene (LDPE). Used as carrier for pigments. May also include the following CASRN: 25087-34-7 [LT-UNK | No warnings found on HPD Priority Hazard lists]; 26221-73-8 [LT-UNK | No warnings found on HPD Priority Hazard lists].

FERRIC OXIDE (FERRIC OXIDE)

ID: 1309-37-1

%: 0.0000 - 1.7500	GS: BM-2	RC: None	nano: No	ROLE: Pigments and Related Additives
HAZARDS:	AGENCY(IES) WITH	WARNINGS:		
CANCER	MAK			Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: This substance is considered essentially inert for the purposes of Pharos toxics scoring (Pharos CML). Substance bound in matrix of finished product. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 0.5000	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives			
HAZARDS:	AGENCY(IES) WITH WAR	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists						

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 0.7000	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives			
HAZARDS:	AGENCY(IES) WITH WAR	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists						

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 0.5000	GS: LT-P1	RC: None	NANO: No	ROLE: Pigments and Related Additives			
HAZARDS:	AGENCY(IES) WITH	AGENCY(IES) WITH WARNINGS:					
CANCER	New Zealand -	GHS		6.7A - Known or presumed human carcinogens			

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

%: 0.0000 - 0.1500	GS: NoGS	RC: None	nano: No	ROLE: Pigments and Related Additives			
HAZARDS:	AGENCY(IES) WITH	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings fo	No warnings found on HPD Priority lists					

UNDISCLOSED

%: 0.0000 - 0.5000	GS: LT-UNK	RC: None	NANO: No	ROLE: Pigments and Related Additives				
HAZARDS:	AGENCY(IES) WITH WAR	AGENCY(IES) WITH WARNINGS:						
None Found	No warnings found on HPD Priority lists							

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 1.1500	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives		
HAZARDS:	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists					

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 0.1000	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives		
HAZARDS:	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists					

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

%: 0.0000 - 1.2500	gs: NoGS	RC: None	nano: No	ROLE: Pigments and Related Additives			
HAZARDS:	AGENCY(IES) WITH V	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists						

UNDISCLOSED

%: 0.0000 - 1.0000	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives				
HAZARDS:	AGENCY(IES) WITH WARI	AGENCY(IES) WITH WARNINGS:						
None Found	No warnings found on HPD Priority lists							

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 0.1500	GS: BM-2	RC: None	nano: No	ROLE: Pigments and Related Additives
HAZARDS:	AGENCY(IES) WITH	WARNINGS:		
RESPIRATORY	AOEC - Asthmagens			Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 0.5000	GS: NoGS	RC: None	nano: No	ROLE: Pigments and Related Additives			
HAZARDS:	AGENCY(IES) WITH W	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists						

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

%: 0.0000 - 0.1500	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives			
HAZARDS:	AGENCY(IES) WITH WAR	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists						

UNDISCLOSED

%: 0.0000 - 0.2500	GS: LT-UNK	RC: None	NANO: No	ROLE: Pigments and Related Additives				
HAZARDS:	AGENCY(IES) WITH WAR	AGENCY(IES) WITH WARNINGS:						
None Found	No warnings found on HPD Priority lists							

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 0.5300	GS: LT-P1	RC: None	NANO: No	ROLE: Pigments and Related Additives			
HAZARDS:	AGENCY(IES) WITH V	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists						

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 0.1500	gs: NoGS	RC: None	nano: No	ROLE: Pigments and Related Additives			
HAZARDS:	AGENCY(IES) WITH V	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists						

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 0.1500	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives			
HAZARDS:	AGENCY(IES) WITH WA	AGENCY(IES) WITH WARNINGS:					
RESPIRATORY	AOEC - Asthmag	ens		Asthmagen (ARs) - sensitizer-induced - inhalable forms only			

SUBSTANCE NOTES: Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-

disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

MICA (MICA) ID: 12001-26-2

%: 0.0000 - 1.7500	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives		
HAZARDS:	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists					

SUBSTANCE NOTES: Substance bound in matrix of finished product. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

UNDISCLOSED

%: 0.0000 - 3.5000	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives				
HAZARDS:	AGENCY(IES) WITH WAR	AGENCY(IES) WITH WARNINGS:						
None Found	No warnings found on HPD Priority lists							

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). Substance bound in matrix of finished product. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

SILICA, AMORPHOUS (SILICA, AMORPHOUS)

ID: **7631-86-9**

HAZARDS: AGENCY(IES) V	VITH WARNINGS:		
CANCER Japan - GH	S	Carcinogenicity - Categor	y 1A

SUBSTANCE NOTES: Substance bound in matrix of finished product. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

CALCIUM CARBONATE (CALCIUM CARBONATE)

ID: **471-34-1**

%: 0.0000 - 2.5000	GS: BM-3	RC: None	nano: No	ROLE: Pigments and Related Additives		
HAZARDS:	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists					

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). May also include 1317-65-3 [LT-UNK | No warnings found on HPD Priority Hazard lists]. Substance bound in matrix of finished product. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

%: 0.0000 - 2.5000	GS: LT-1	RC: None	nano: No	ROLE: Pigments and Related Additives
HAZARDS:	AGENCY(IES) WITH W.	ARNINGS:		
CANCER	US CDC - Occup	ational Carcinogens		Occupational Carcinogen
CANCER	CA EPA - Prop 6	5		Carcinogen - specific to chemical form or exposure route
CANCER	IARC			Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
ENDOCRINE	TEDX - Potential	Endocrine Disruptors		Potential Endocrine Disruptor
CANCER	MAK			Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

substance notes: Identified on the US EPA Safer Chemical Ingredient List. Substance bound in matrix of finished product. Form-specific hazards: airborne particles of respirable size – occupational setting. Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including those with Form-Specific Hazards such as Titanium Dioxide. This HPD will be updated as appropriate when these guidelines become available. The Material Health Harmonization Task Group convened by the USGBC states that pigmentary titanium dioxide was "determined to be Benchmark 2 using the full GS (GreenScreen) method" (http://ow.ly/Z5ken). Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

CARBON BLACK (CARBON BLACK)

ID: 1333-86-4

%: 0.0000 - 2.4000	GS: LT-1	RC: None	nano: No	ROLE: Pigments and Related Additives
HAZARDS:	AGENCY(IES) WITH V	/ARNINGS:		
CANCER	US CDC - Occu	pational Carcinogens	;	Occupational Carcinogen
CANCER	CA EPA - Prop	65		Carcinogen - specific to chemical form or exposure route
CANCER	IARC			Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK			Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Substance bound in matrix of finished product. Carbon Black is one of several compounds with warnings restricted to unbound/respirable forms. Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including those with Form-Specific Hazards such as Carbon Black. This HPD will be updated as appropriate when these guidelines become available. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

%: 0.0000 - 0.8000	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives
HAZARDS:	AGENCY(IES) WITH WAF	NINGS:		
CANCER	MAK			Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

ALUMINUM, TRIETHYL- (ALUMINUM, TRIETHYL-)

ID: 97-93-8

%: Impurity/Residual	GS: LT-P1	RC: None	nano: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
RESPIRATORY	AOEC - Asthmagens		Asthmagen (ARs)	- sensitizer-induced - inhalable forms only

SUBSTANCE NOTES: Potential Residual/Impurity of HDPE (25213-02-9), as predicted by Process Chemistry (Pharos CML). Catalyst (homogeneous/unstructured/unknown); Frequent; Percentage: Unknown. This potential Residual/Impurity is listed for virgin HDPE only; no potential residual hazards have been identified for recycled HDPE (Pharos CML).

TITANIUM TETRACHLORIDE (TITANIUM TETRACHLORIDE)

ID: 7550-45-0

%: Impurity/Residual	GS: LT-P1	RC: None	nano: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
SKIN IRRITATION	EU - R-phrases		R34 - Causes burn	ns
SKIN IRRITATION	EU - GHS (H-Statements)		H314 - Causes sev	vere skin burns and eye damage
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances		Extremely Hazardous Substances	

SUBSTANCE NOTES: Potential Residual/Impurity of HDPE (25213-02-9), as predicted by process chemistry (Pharos CML): Catalyst (homogeneous/unstructured/unknown); Frequent; Percentage: Unknown. This potential Residual/Impurity is listed for virgin HDPE only; no potential residual hazards have been identified for recycled HDPE (Pharos CML).

KAOLIN CLAY ID: 1332-58-7

%: 0.0000 - 0.6500	GS: LT-UNK	RC: None	nano: No	ROLE: Pigments and Related Additives
HAZARDS:	AGENCY(IES) WITH WAR	NINGS:		
CANCER	MAK			Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). Substance bound in matrix of finished product. Percent by weight reported as range due to the various colors available. Substance not present in all colors; consult manufacturer for additional information if necessary.

TUFFTEC HINGE %: 3.5000 - 6.2000 HPD URL:

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Heavy duty extruded aluminum with corrosion-free stainless steel pin for years of superior corrosion-free performance. Percent by weight of materials and substances reported as range due to the various configurations available. Additional (optional) hardware is listed in Section 4: Accessories.

ALUMINUM (ALUMINUM) ID: 7429-90-5

%: 70.0000 - 80.0000	GS: LT-P1	RC: UNK	NANO: No	ROLE: Hinge Leaf
HAZARDS:	AGENCY(IES) WITH WARNINGS):		
RESPIRATORY	AOEC - Asthmagens		Asthmagen (AF	Rs) - sensitizer-induced - inhalable forms only
ENDOCRINE	TEDX - Potential Endoc	rine Disruptors	Potential Endo	crine Disruptor
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statement	ts)	H228 - Flamma	able solid
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statement	ts)	H250 - Catches	s fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statement	ts)	H261 - In conta	act with water releases flammable gases

Substance notes: Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including those with Form-Specific Hazards such as Aluminum. This HPD will be updated as appropriate when these guidelines become available.

STAINLESS STEEL (STAINLESS STEEL)

ID: 12597-68-1

%: 20.0000 - 30.0000	GS: NoGS	rc: UNK	nano: No	ROLE: Hinge Pin				
HAZARDS:	AGENCY(IES) WITH WARNINGS:							
None Found	No warnings found on HPD Pri	No warnings found on HPD Priority lists						

SUBSTANCE NOTES: This substance is considered essentially inert for the purposes of Pharos toxics scoring (Pharos CML).



Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

UL/GreenGuard Gold Certified

CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: All	ISSUE DATE:2012-05-	EXPIRY DATE: 2018- 05-31	CERTIFIER OR LAB: UL Environment
CERTIFICATE URL: https://spot.ulprospector.com/documents/1473102.pdf? bs=32207&b=676057&st=1&r=na&ind=builtenvironment			
Tufffee Lookers		- · · -	

certification and compliance notes: Certificate Number: 23872-420. UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Building products and interior finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.1-2010 using a Bathroom Environment. Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2.

VOC EMISSIONS

UL/GreenGuard Certified

ISSUE DATE: 2012-05- EXPIRY DATE: 2018-CERTIFYING PARTY: Third Party CERTIFIER OR LAB: UL APPLICABLE FACILITIES: All 31 05-31 Environment

CERTIFICATE URL:

https://spot.ulprospector.com/documents/1473103.pdf? bs=32207&b=676057&st=1&r=na&ind=builtenvironment

CERTIFICATION AND COMPLIANCE NOTES: Certificate Number: 23872-410. UL 2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Building materials are determined compliant in accordance with a Bathroom environment with an air change of 0.72 hr 1 and a loading of 8.20 m2. Products tested in accordance with UL 2821 test method to show compliance to emission limits in UL 2818, Section 7.1.



Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

LOCKER BASE HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

4" high black Locker Base. Assembled in the field. Contact manufacturer for more information if required.

FILLERS HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Available in 4", 8", 12", and 18" widths. Contact manufacturer for more information if required.

LOCKS HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Tufftec Locker® systems support a variety of locking options, including but not limited to: Padlock, Coin Key, Key, Digilock, In Door Combination Lock. Contact manufacturer for more information if required.

HPD URL: No HPD available HOOKS

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Metal J-Hook or Double-Prong Black Coat Hook available. Contact manufacturer for more information if required.

GARMENT BAR HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Garment Bar constructed of Aluminum. Contact manufacturer for more information if required.



o Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: Scranton Products ADDRESS: 801 E. Corey Street Scranton PA 18505, USA

WEBSITE: www.scrantonproducts.com

CONTACT NAME: Maria Knapp

TITLE: Marketing Manager

PHONE: 570.348.0997 ext 2345

LT-P1 List Translator Possible Benchmark 1

EMAIL: mknapp@scrantonproducts.com

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet

GHS SDS Globally Harmonized System of Classi cation and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity PHY Physical Hazard (reactive) **GLO** Global warming **CAN** Cancer MAM Mammalian/systemic/organ toxicity **REP** Reproductive toxicity

DEV Developmental toxicity **MUL** Multiple hazards **RES** Respiratory sensitization **END** Endocrine activity **NEU** Neurotoxicity SKI Skin sensitization/irritation/corrosivity

EYE Eye irritation/corrosivity **OZO** Ozone depletion **LAN** Land Toxicity

GEN Gene mutation **PBT** Persistent Bioaccumulative Toxic NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

BM-3 Benchmark 3 (use but still opportunity for improvement) LT-1 List Translator Likely Benchmark 1

BM-2 Benchmark 2 (use but search for safer substitutes) LT-UNK List Translator Benchmark Unknown (insufficient information

BM-1 Benchmark 1 (avoid - chemical of high concern) from List Translator lists to benchmark)

BM-U Benchmark Unspeci ed (insu cient data to benchmark) NoGS Unknown (no data on List Translator Lists)

Recycled Types

PreC Preconsumer (Post-Industrial)

PostC Postconsumer

Both Both Preconsumer and Postconsumer

Unk Inclusion of recycled content is unknown

None Does not include recycled content

Other Terms

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material Nested Method / Product Threshold Substances listed within each material per threshold indicated per product Basic Method / Product Threshold Substances listed individually per threshold indicated per produc

Nano Composed of nano scale particles or nanotechnology

Third Party Verified Verification by independent certifier approved by HPDC Preparer Third party preparer, if not self-prepared by manufacturer Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.

THE PERFECT SYNERGY OF FORM & FUNCTION

For each industry, Tuffiec Lockers® have a solution for every place and purpose of styles, configurations and interchangeable options to create custom zed locks demanding specifications and stand up to the most challenging environments.

- Solid, classic construction
 Good looks
- Versatile configurations
 Versatile storage solutions

FEATURES & BENEFITS

- Resistant to bacteria, mold and mildew
 Impact and dentresistant
 Will never trust, corrode or delaminate
 Never needs painting

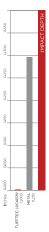
- Impermeable to maintree
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 Provides years of everyday bw maintenan

LASTING STYLE

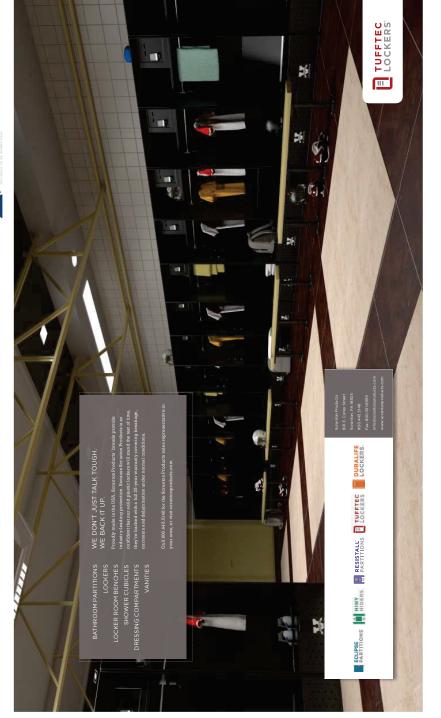
Fuffice Locksm*-where solid plantic construction meets good locks. We've combined the two b provide the perfect synatty of form and function. Engineed for strength and durability, IDDE withstanch the hannes dely use and is ortinally maintenance feet. Formulated from a homogenous color-throughout compound, Tuffice, Locksm* are the more durable, cost-effective and sestientially pleasing production in the inclusity—and they are backed by our 25-year warranty.

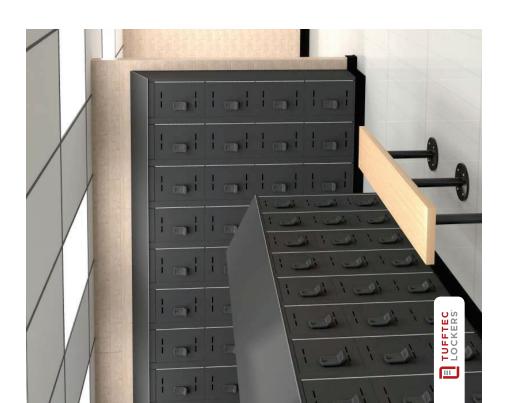
A SOLID ADVANTAGE

A 100 lb. impact test conducted following ASTM standards showed that Tufflec Lockers* had 59 times greater resistance to impacts when compared to metal bockers.









MANY APPLICATIONS; MANY OPTIONS.

DESIGN OPTIONS

	Act young to the property of t	TIONS VENTING OPTIONS THE PASSE HANDLE ADA COMPLIANCE ENVENCEMENT SHOP THE ADA COMPLIANCE ADA COMPLIANCE ADA COMPLIANCE SHOP THE ADA COMPLIANCE ADA COMPLIANCE SHOP THE ADA COMPLIANCE S
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LOCKER OPTIONS
Tuffec* has a style and configuration for every pla
and purpose.

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	12	00	12	12	60,	22	15	60,72
15	22	8	12	50	48, 60, 72	15	22	60,72
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OLOR COLLECTION





Request for Information 000.PB007

Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB007	RFI #: 000.PB007							
Answer Company	Answered By	Author Company						
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Nevco Sports, LLC 301 East Harris Avenue Greenville, Illinois 62246						

Author RFI Number

Subject	Trade Contractor	
Monument Sign Substitution Request	Nevco Sports, LLC	
Co. Commony Name	Contact Name Conice Nates	

Question Date Required: 7/18/2019

Substitution Request for specification section 101463

Suggestion

Answer Date Answered:

Proposed substitution is acceptable.

 Prolog Converge
 Printed on: 7/11/2019
 DustinNew
 Page 1

SUBSTITUTION REQUEST

Project: Rock Creek School	Substitution Request Number:
To: Whom It May Concern Re: Substitution Request for Scoreboard(s)	From: Matthew Gruen Date: 7/11/2019 A/E Project Number:
Specification Title: Equipment Section: 10 14 63 Pages: 1-9	
Trade Name: NEVCO	Model No.:
History: New product 2-5 years old 5-10 years X Point-by-point comparative data attached for Scoreboar	
Reason for not providing specified item: Nevco is seeking to	
Address: Own	itect: er: Installed:
Proposed substitution affects other parts of Work:	No Yes; explain Not that we know of
Savings to Owner for accepting substitution: <u>\$ Competative Bi</u> Proposed substitution changes Contract Time: xx \(\subseteq No	d)days.
Supporting Data Attached: x Drawings x Product I	Data Samples Tests Reports

SUBSTITUTION REQUEST

(Continued)

The Undersigned certifies:

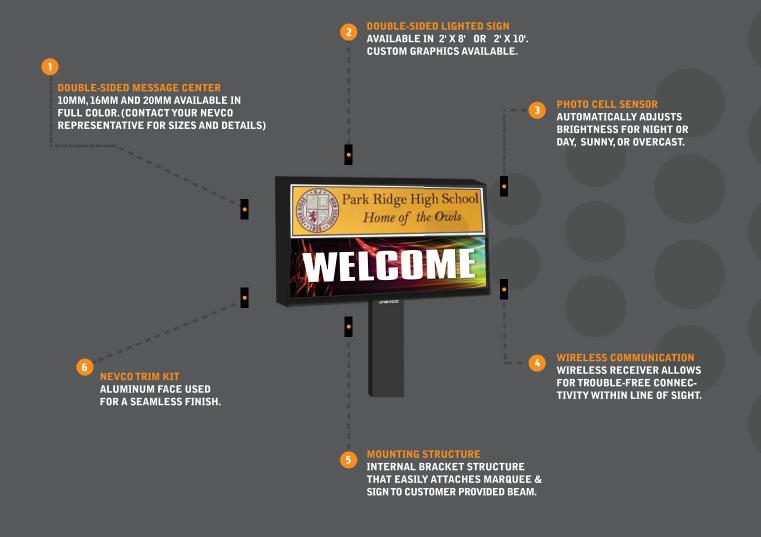
- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived. N/A
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution. N/A

• Coordina	ation, installation, and changes in the Work as necessary for accepted substitut	ion will be complete in all respects.
Submitted by:	: Matthew Gruen - New Construction Manager	
Signed by:	Makh Gran	
Firm:	Nevco, Sports LLC	
Address:	301 East Harris Avenue, Greenville, IL	
Telephone:	618-659-7512	
Attachments:	·	
-		
Substitution Substitution Substitution	on approved - Make submittals in accordance with Specification Section 0133 on approved as noted - Make submittals in accordance with Specification Sect on rejected - Use specified materials. on Request received too late - Use specified materials.	
Additional Co	omments: Contractor Subcontractor Supplier	Manufacturer A/E

NEVCO MARQUEE KIT

WE MAKE MARQUEES EASY

Nevco Marquee Kits offer you the flexibility to communicate and captivate your audience to achieve your organizational goals. When you choose Nevco, you are guaranteed a turn-key solution specifically designed for you.





FOR YOUR TURN-KEY MARQUEE SOLUTION:

WWW.NEVCO.COM

U.S. & CANADA: 800-851-4040 INTERNATIONAL: 618-664-0360 FAX: 618-664-0398 E-MAIL: INFO@NEVCO.COM

INTEGRATED DISPLAY AND SCORING SOLUTIONS

10mm True Color

PART	MESSAGE CENTER SIZE	SIGN SIZE	VIEWING MATRIX	NUMBER	OF LINES	CHARACTE RAN		CHARACI Li	TERS PER NE	TOTAL WEIGHT	(IN	AXIMUM PO CLUDES (2) SI MESSAGE CEN	GNS &
NUMBER	HxW	HxW	HxW	Min. Char. Size	Max. Char. Size	Min. Char. Size	Max. Char. Size	Min. Char. Size	Max. Char. Size	Lbs.	Watts	Amps at 120 VAC	Amps at 240 VAC
1100 1111	0/ 0/	21 21		Size	Size		00	00	Size	244	0 (10	22.4	7.5.0
MC3x8-10MK	3' x 8'	2′ x 8′	72 x 224	9	1	2.75"	25′	72	4	846	3648	30.4	15.2
MC4x8-10MK	4' x 8'	2' x 8'	96 x 224	12	1	2.75"	37′	72	3	915	4608	38.4	19.2
MC4x10-10MK	4' x 10'	2' x 10'	96 x 288	12	1	2.25"	37′	36	4	960	5712	47.6	23.8

16mm True Color

PART	MESSAGE CENTER SIZE	SIGN SIZE	VIEWING MATRIX	NUMBER	OF LINES	CHARACTE RAN	ER HEIGHT NGE	CHARACI Li	TERS PER NE	TOTAL WEIGHT	(IN	AXIMUM PC CLUDES (2) SI MESSAGE CEN	GNS &
NUMBER	HxW	HxW	HxW	Min. Char.	Max. Char.	Min. Char.	Max. Char.	Min. Char.	Max. Char.	Lbs.	Watts	Amps at	Amps at
				Size	Size	Size	Size	Size	Size			120 VAC	240 VAC
MC3x8-16MK	3' x 8'	2' x 8'	45 x 150	6	1	4.4"	28"	42	4	846	2520	21.0	10.5
MC4x8-16MK	4' x 8'	2' x 8'	60 x 150	8	1	4.4"	37"	42	3	915	3120	26.0	13.0
MC4x10-16MK	4' x 10'	2' x 10'	60 x 180	8	1	4.4"	37"	53	4	960	3600	30.0	15.0

20mm True Color

PART	MESSAGE CENTER SIZE	SIGN SIZE	VIEWING MATRIX	NUMBER OF LINES		CHARACTER HEIGHT RANGE		CHARACTERS PER LINE		TOTAL WEIGHT	MAXIMUM POWER (INCLUDES (2) SIGNS & (2) MESSAGE CENTERS)		
NUMBER	HxW	HxW	HxW	Min. Char.	Max. Char.	Min. Char.	Max. Char.	Min. Char.	Max. Char.	Lbs.	Watts	Amps at	Amps at
				Size	Size	Size	Size	Size	Size			120 VAC	240 VAC
MC3x8-20MK	3' x 8'	2' x 8'	40 X 112	5	1	5.5"	31"	22	4	846	1464	12.2	6.1
MC4x8-20MK	4′ x 8′	2' x 8'	56 X 112	7	1	5.5"	44''	22	3	915	2418	20.4	10.2
MC4x10-20MK	4' x 10'	2' x 10'	56 x 144	7	1	5.5"	44''	28	4	960	2952	24.6	12.3

Additional sizes are available. Your local Nevco Display and Scoring Consultant will review all aspects of the project with you, ensuring selection of the correct display type and matrix.







GUARANTEE: TO VIEW OR RECEIVE THE MOST RECENT COPY OF OUR GUARANTEE, PLEASE VISIT: NEVCO.COM/WARRANTY-LIMITATION

U.S. SERVICE: 1-800-851-4040 INTERNATIONAL SERVICE: 1-618-664-0360 CANADA SERVICE: 1-800-461-8550



FOR YOUR TURN-KEY MARQUEE SOLUTION:

WWW.NEVCO.COM

U.S. & CANADA: 800-851-4040 INTERNATIONAL: 618-664-0360 FAX: 618-664-0398 E-MAIL: INFO@NEVCO.COM

before shipment. Nevco shall not be obligated to pay freight for any unapproved return. Purchaser shall pay any upgraded or expedited transportation charges

installation of communication methods including but not limited to, wire, fiber optic cable, conduit, trenching, or for the purpose of overcoming local D. Defects shall be defined as follows. Excepting LEDs, a "Defect" shall refer to a material variance from the design specification that prohibits the equipment from operating for its intended use. With respect to LEDs, "Defects" are defined as LED pixels that cease to emit light. This warranty does not impose any duty or liability upon Nevco for partial LED pixel degradation. Nor does this warranty provide for the replacement or site interference radio equipment substitutions.

NEVCO, ITS AGENTS OR EMPLOYEES, SHALL CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS LIMITED WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR THE PARTICULAR PURPOSE OF PURCHASER. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY THIS LIMITED WARRANTY IS THE ONLY WARRANTY APPLICABLE TO THE EQUIPMENT AND REPLACES ALL OTHER WARRANTY

THIS LIMITED WARRANTY IS NOT TRANSFERABLE.

2. Exclusion from Warranty Coverage

The warranty does not impose any duty or liability upon Nevco for:

- Nevco for repair or replacement, Purchaser assumes all risk of loss or damage and agrees to use only shipping containers provided by Nevco, if any, A. Any damage occurring, at any time, during shipment of equipment unless provided elsewhere. When returning equipment or parts thereof to and to ship the equipment or parts in the manner prescribed by Nevco;
- B. Any damage caused by the unauthorized adjustment, repair or service of the equipment by anyone other than personnel of Nevco or its authorized repair agents;
- C. Damage caused by the failure to provide a continuously suitable environment, including, but not limited to: (i) neglect or misuse, (ii) a failure or sudden surge of electrical power, (iii) improper air conditioning or humidity control, or (iv) any other cause other than ordinary use;
- D. Damage caused by fire, flood, earthquake, water, wind, lightning or other natural disaster, strike, inability to obtain materials or utilities, war, terrorism, civil disturbance or any other cause beyond Nevco's reasonable control;
- equipment by mechanical or electrical means to another device not supplied by Nevco, or the existence of general environmental conditions at the E. Failure to adjust, repair or replace any item of equipment if it would be impractical for Nevco personnel to do so because of connection of the site that pose a danger to Nevco personnel;

F. Any damage arising from the use of the equipment in any application other than the application for which it is intended, unless, upon request, such use is specifically approved in writing by Nevco;

G. Any preventative maintenance.

3. Limitation of Liability

Nevco shall be under no obligation to furnish service under this Warranty if alterations are made to the equipment or parts thereof without the prior written approval of Nevco.

to third parties, even if Nevco has been advised of the possibility of such damages. The foregoing limitation of liability shall apply whether any claim lost profits, cost of substitute or replacement equipment or parts, down time, lost data, injury to property or any damages or sums paid by Purchaser incidental or exemplary damages arising out of or in any way connected with the equipment or otherwise, including but not limited to damages for In no event shall Nevco (including its subsidiaries, affiliates, officers, directors, employees, or agents) be liable for any special, consequential, is based upon principles of contract, tort, statutory duty, indemnity, contribution, or otherwise.

In no event shall Nevco be liable to Purchaser or any other party for loss, damage, or injury of any kind or nature arising out of or in connection with this Warranty in excess of the purchase price of the equipment actually delivered to and paid for by the Purchaser.

4. Assignment of Rights

The Warranty contained herein extends only to the original end-user (which may be the Purchaser) of the Equipment and no attempt to extend the Warranty to any subsequent user-transferee of the Equipment shall be valid or enforceable without the express written consent of Nevco.

5. Dispute Resolution

Illinois. Any decision rendered in such arbitration proceedings will be final and binding on each of the parties, and judgment may be entered thereon rules, except as otherwise provided below. The arbitration will be conducted before a single arbitrator. The arbitration shall be held in Edwardsville, Any dispute between the parties will be resolved exclusively and finally by arbitration administered by USA&M-Midwest and conducted under its in any court of competent jurisdiction. This arbitration agreement is made pursuant to a transaction involving interstate commerce, and shall be governed by the Federal Arbitration Act.

6. Governing Law

Both parties consent to the application of the laws of the State of Illinois to govern, interpret, and enforce all rights, duties, and obligations arising from, or relating in any manner to, the subject matter of this Warranty, without regard to conflict of law principles



Request for Information 000.PB009

Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB009	Date Submitted:	7/11/2019		
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Elite Storage Products PO Box 517 Collierville, Tennesee 38027		

Author RFI Number

Subj	ect		Trade Contractor			
Elite	Storage Products Substitution Request		Elite Storage Products			
Cc:	Company Name	Contact Name	Copies Notes			

Question Date Required: 7/18/2019

Substitution Request for specification section 105113

Suggestion

Answer Date Answered:

Substitution request is acceptable,.

 Prolog Converge
 Printed on: 7/11/2019
 DustinNew
 Page 1



Email: quote@elitestorageproducts.com Website: elitestorageproducts.com

Dustin Construction

2510 Urbana Pike, Suite 201 Ijamsville, Maryland 21754 Phone: 301-810-4320

Email: pickett@dustinconstruction.com

July 11, 2019

Re: LOCKERS Manufacturing Metal Lockers Substitution Request

Rock Creek School Replacement Project

To whom it may concern,

We are bidding on the metal lockers for this project. We are licensed and bonded installers with over thirty years of experience with metal lockers. We are very impressed with your work and the inclusion of metal lockers on this project.

We are including a substitution request with this cover letter to add our LOCKERS MFG products as an acknowledged and acceptable substitution for the metal lockers specified in this project. LOCKERS MFG is the highest standard in metal lockers with finely crafted products that either meet or exceed the standards of any other manufacturer of lockers in the industry. They have an excellent VOC rating and are unrivaled in detail, appearance, and durability. LOCKERS MFG also offers a lifetime guarantee (details at www.lockersmfg.com).

While customization is always possible, the standard LOCKERS MFG series of lockers include (with printable .pdf specifications provided):

- Knock Down
- Knock Down Plus
- Heavy Duty
- Open Front
- All-Welded

Further details can be found on the LOCKERS MFG website at <u>www.lockersmfg.com</u>, or we would be happy to give you a personal demonstration of our product if desired.

Please let us know if there is anything else that we can do on this or any other project.

Sincerely, Alexandra Hall Elite Storage Products Sales Representative

Enclosure: Substitution Request

METAL LOCKER PRODUCT COMPARISON

	Lockers MFG All Welded	Debourgh All American P.E. Locker (All Welded)
Тор	16ga	16ga
Back	18ga	18ga
Side	16ga / 14ga	16ga
Bottom	16ga	16ga
Door	14ga	14ga
Handles 1T, 2T	Recessed, multi-point latch	Recessed, multi-point latch
Handles 6T	Door pull, single point latch	Door pull, single point latch
Lock Compatible	Yes	Yes
ADA Compliancy	1T, 2T - Yes	1T, 2T - Yes
Door Frame	16ga / 1 1/8 inch steel	16ga / 1 1/8 inch steel
Ventilation	meets specs	meets specs
Interior Equip.	meets specs	meets specs
Rubber Silencers	meets specs	meets specs
Shelf	16ga	16ga
Hinge	14ga continuous	3" 5-knuckle
Fillers	20ga	20ga
Zee base	16ga - 2mil galvanealed n/c	14ga - galvanealed
Slope Hoods	18ga	18ga
Pedestals	10ga	10ga
Bench tops	hardwood, lacquered	hardwood, lacquered
Finish	2 mil thick powder coat	1 mil powder coat
Material	cold rolled steel	cold rolled steel
Warranty	Lifetime	1 year
Colors	24	21
Custom Colors	no upcharge	6% upcharge
Size	WxDxH meets spec	WxDxH meets spec
Construction	welded	Welded
Hardware	n/a	n/a
Steel Surcharges	0%	12%
Lead time	8-10 weeks welded	8-10 weeks welded

Highlights Demonstrate Increase Quality Items

- Lockers Manufacturing -

PO Box 383258, Germantown, TN 38183

Ph: (901) 207-6573



Substitution Request

Date: July 11, 2019

Company Submitting Request:

Elite Storage Products, LLC

8555 Cordes Circle, Germantown, TN 38139 *Mail: PO Box 517, Collierville, TN 38027*

Project Name: Specified Item: 105113	Phone: (901) 367	'-3930 Fax	: (901) 367-3931	
Specified Item: 105113	Project Name:	Rock Creek School F	Replacement Project	
The undersigned requests considerations of the following product substitution: Proposed Substitution: LockersMFG All Welded Series Metal Lockers (Provide product model name / manufacturer name) 1. Attached data: Product Specification Performance and Test Data Drawings Specifications Photos 2. No changes will be required to the contract documents for the proper installation of the proposed product substitution. The undersigned verifies that the following, unless modified by attachments, are correct: 1. The proposed substitution does not affect dimensions shown on the drawings. 2. No changes to the building design, engineering design, or detailing are required by the proposed substitution. 3. The proposed substitution will have no adverse effect on other trades, the construction schedule, or specified warranty requirements. 4. No maintenance is required by the proposed substitution other than that required for the originally specified product. 5. Other: OFFERING LIFETIME WARRANTY The undersigned further states that they have read the corresponding specifications section in the project manual and confirms that the function, appearance, and quality of the proposed substitutions are equivalent or superior to the originally specified product. Signed: Accepted				METAL LOCKERS
Proposed Substitution: LockersMFG All Welded Series Metal Lockers (Provide product model name / manufacturer name) 1. Attached data: Product Specification Performance and Test Data Drawings Specifications Photos 2. No changes will be required to the contract documents for the proper installation of the proposed product substitution. The undersigned verifies that the following, unless modified by attachments, are correct: 1. The proposed substitution does not affect dimensions shown on the drawings. 2. No changes to the building design, engineering design, or detailing are required by the proposed substitution. 3. The proposed substitution will have no adverse effect on other trades, the construction schedule, or specified warranty requirements. 4. No maintenance is required by the proposed substitution other than that required for the originally specified product. 5. Other: OFFERING LIFETIME WARRANTY The undersigned further states that they have read the corresponding specifications section in the project manual and confirms that the function, appearance, and quality of the proposed substitutions are equivalent or superior to the originally specified product. Signed: Alexandra Hall Printed Name: Alexandra Hall Fax: (901) 367-3931 For Architect's Use: Accepted Accepted Accepted Incomplete Information Not Accepted For This Project/Product Reviewed By/Date: Processed by Addendum No.: Processed by Addendum No.:	·			
Proposed Substitution: LockersMFG All Welded Series Metal Lockers (Provide product model name / manufacturer name) 1. Attached data: Product Specification Performance and Test Data Drawings Specifications Photos 2. No changes will be required to the contract documents for the proper installation of the proposed product substitution. The undersigned verifies that the following, unless modified by attachments, are correct: 1. The proposed substitution does not affect dimensions shown on the drawings. 2. No changes to the building design, engineering design, or detailing are required by the proposed substitution. 3. The proposed substitution will have no adverse effect on other trades, the construction schedule, or specified warranty requirements. 4. No maintenance is required by the proposed substitution other than that required for the originally specified product. 5. Other: OFFERING LIFETIME WARRANTY The undersigned further states that they have read the corresponding specifications section in the project manual and confirms that the function, appearance, and quality of the proposed substitutions are equivalent or superior to the originally specified product. Signed: Alexandra Hall Printed Name: Alexandra Hall Fax: (901) 367-3931 For Architect's Use: Accepted Accepted Accepted Incomplete Information Not Accepted For This Project/Product Reviewed By/Date: Processed by Addendum No.: Processed by Addendum No.:				
1. Attached data: Product Specification Performance and Test Data Drawings Specifications Photos 2. No changes will be required to the contract documents for the proper installation of the proposed product substitution. The undersigned verifies that the following, unless modified by attachments, are correct: 1. The proposed substitution does not affect dimensions shown on the drawings. 2. No changes to the building design, engineering design, or detailing are required by the proposed substitution. 3. The proposed substitution will have no adverse effect on other trades, the construction schedule, or specified warranty requirements. 4. No maintenance is required by the proposed substitution other than that required for the originally specified product. 5. Other: OFFERING LIFETIME WARRANTY The undersigned further states that they have read the corresponding specifications section in the project manual and confirms that the function, appearance, and quality of the proposed substitutions are equivalent or superior to the originally specified product. Signed: Absanda Hall Printed Name: Alexandra Hall Fax: (901) 367-3931 For Architect's Use: Accepted Accepted as Noted Incomplete Information Not Accepted Received Too Late No Substitutions Accepted For This Project/Product Reviewed By/Date: Processed by Addendum No.: Processed by Addendum N	The undersigned	requests considera	itions of the following p	product substitution:
1. Attached data: Product Specification Performance and Test Data Drawings Specifications Photos 2. No changes will be required to the contract documents for the proper installation of the proposed product substitution. The undersigned verifies that the following, unless modified by attachments, are correct: 1. The proposed substitution does not affect dimensions shown on the drawings. 2. No changes to the building design, engineering design, or detailing are required by the proposed substitution. 3. The proposed substitution will have no adverse effect on other trades, the construction schedule, or specified warranty requirements. 4. No maintenance is required by the proposed substitution other than that required for the originally specified product. 5. Other: OFFERING LIFETIME WARRANTY The undersigned further states that they have read the corresponding specifications section in the project manual and confirms that the function, appearance, and quality of the proposed substitutions are equivalent or superior to the originally specified product. Signed: Absanda Hall Printed Name: Alexandra Hall Fax: (901) 367-3931 For Architect's Use: Accepted Accepted as Noted Incomplete Information No Substitutions Accepted For This Project/Product Reviewed By/Date: Processed by Addendum No.:	Proposed Substit	ution: LockersMF	G All Welded Series Me	tal Lockers
Drawings Specifications Photos 2. No changes will be required to the contract documents for the proper installation of the proposed product substitution. The undersigned verifies that the following, unless modified by attachments, are correct: 1. The proposed substitution does not affect dimensions shown on the drawings. 2. No changes to the building design, engineering design, or detailing are required by the proposed substitution. 3. The proposed substitution will have no adverse effect on other trades, the construction schedule, or specified warranty requirements. 4. No maintenance is required by the proposed substitution other than that required for the originally specified product. 5. Other: OFFERING LIFETIME WARRANTY The undersigned further states that they have read the corresponding specifications section in the project manual and confirms that the function, appearance, and quality of the proposed substitutions are equivalent or superior to the originally specified product. Signed: Abstance feat Printed Name: Alexandra Hall Fax: (901) 367-3931 For Architect's Use:		(Provide p	product model name / m	nanufacturer name)
The undersigned verifies that the following, unless modified by attachments, are correct: 1. The proposed substitution does not affect dimensions shown on the drawings. 2. No changes to the building design, engineering design, or detailing are required by the proposed substitution. 3. The proposed substitution will have no adverse effect on other trades, the construction schedule, or specified warranty requirements. 4. No maintenance is required by the proposed substitution other than that required for the originally specified product. 5. Other: OFFERING LIFETIME WARRANTY The undersigned further states that they have read the corresponding specifications section in the project manual and confirms that the function, appearance, and quality of the proposed substitutions are equivalent or superior to the originally specified product. Signed: Alexandra Hall Fax: (901) 367-3931 For Architect's Use: Accepted Accepted Accepted as Noted Incomplete Information No Substitutions Accepted For This Project/Product Reviewed By/Date: Processed by Addendum No.: P				
 The proposed substitution does not affect dimensions shown on the drawings. No changes to the building design, engineering design, or detailing are required by the proposed substitution. The proposed substitution will have no adverse effect on other trades, the construction schedule, or specified warranty requirements. No maintenance is required by the proposed substitution other than that required for the originally specified product. Other: OFFERING LIFETIME WARRANTY The undersigned further states that they have read the corresponding specifications section in the project manual and confirms that the function, appearance, and quality of the proposed substitutions are equivalent or superior to the originally specified product. Signed: Alexandra Hall Printed Name: Alexandra Hall Fax: (901) 367-3931 For Architect's Use: Accepted Accepted Accepted as Noted Incomplete Information No Substitutions Accepted For This Project/Product Reviewed By/Date: Processed by Addendum No.: Processed By Addendum No.	•	·	he contract documents	for the proper installation of the proposed
are equivalent or superior to the originally specified product. Signed: Alexandra Hall Printed Name: Alexandra Hall Fax: (901) 367-3931 For Architect's Use: Accepted Accepted Shoted Incomplete Information Not Accepted Received Too Late For This Project/Product Reviewed By/Date: Processed by Addendum No.:	 The proposed No changes to substitution. The proposed specified was No maintenate specified profiled profiled. Other: OFFEI The undersigned 	d substitution does to the building design of	not affect dimensions sign, engineering design, have no adverse effect of signs. The proposed substitution of the proposed substitut	shown on the drawings. or detailing are required by the proposed on other trades, the construction schedule, or on other than that required for the originally responding specifications section in the
For Architect's Use: Accepted Accepted as Noted Incomplete Information Not Accepted Received Too Late No Substitutions Accepted For This Project/Product Reviewed By/Date: Processed by Addendum No.:				
Accepted Accepted as Noted Incomplete Information Not Accepted Received Too Late No Substitutions Accepted For This Project/Product Reviewed By/Date: Processed by Addendum No.:	Signed: Alexandr	<u>a Hal</u> l Printed N	ame: Alexandra Hall	Fax: (901) 367-3931
Processed by Addendum No.:	☐ Acce ☐ Not /	pted Accepted	Received Too Late	No Substitutions Accepted For This Project/Product

SUBSTITUTION REQUEST (During the Bidding Phase)

Project:	Rock Creek School Replacement Project	Substitution Request Number:
		From: Elite Storage Products
To:	_Dustin Construction - John Pickett	Date: <u>July 11, 2019</u>
		A/E Project Number:
Re:	Requets For Approval - LockersMFG	Contract For:
Specifica	ntion Title: METAL LOCKERS	Description:
Section:	_105113	Page: 1-6 Article/Paragraph: 1-3
Proposed	Substitution: LockersMFG All Welded Series Met	al Lockers
Manufact	turer: LockersMFG Address:P.O. Box 383258	3 Germantown, TN 38183 Phone: (901) 207-6573
Trade Na	ame:	Model No.:
Installer:	Elite Storage Products Address: P.O. Box 517	Collerville, TN 38027 Phone: (901) 367-3930
History:	☐ New product ☐ 2-5 years old ☐ 5-10 years	old
Difference	ces between proposed substitution and specified product	t: Please See Attached
Point	e-by-point comparative data attached - Required By A	A/E
7 Tollit	by point comparative data attached. Required by I	V.E.
Reason fo	or not providing specified item: <u>LIFETIME WARRA</u>	NTY, Fabrication Quality, Latch Quality
Similar I	nstallation: Project: <u>Armstrong High School</u> Arch	niteet: _IKM Inc.
	Address: 300 Buffington Dr. Own	er: Armstrong School District
	Kittanning, PA 16201 Date	Installed: August 2018
Proposed	I substitution affects other parts of Work:	No Yes; explain
•	· —	
Savings t	to Owner for accepting substitution: N/A	
Proposed	l substitution changes Contract Time: X No	Yes [Add] [Deduct]days.
Supportin	ng Data Attached: Drawings X Product Da	ata Samples Tests Reports

SUBSTITUTION REQUEST

(Continued)

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

 Coordina 	tion, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.
Submitted by:	Alexandra Hall
Signed by:	Alexandra Hall
Firm:	Elite Storage Products
Address:	P.O. Box 517
	Collierville, TN 38027
Telephone:	
Attachments:	Please See attached
A/E's REVIE	W AND ACTION
☐ Substitutio	on approved - Make submittals in accordance with Specification Section 01330. on approved as noted - Make submittals in accordance with Specification Section 01330. on rejected - Use specified materials. on Request received too late - Use specified materials.
Signed by:	Date:
Additional Co	mments:



All Welded Series

Part 1: General

- **1.1 Construction Requirements:** All lockers shall be powder coated steel as design and manufactured by LockersMFG, Germantown, Tennessee. LockersMFG will furnish all labor and materials for the completion of work in this section, as shown in the approved drawings and specifications.
- **1.2 Qualifications of alternative lockers:** Will be evaluated only if they are submitted with supporting documents to show that they are equal or better than these specification standards.
- **1.3 Warranty:** Lockers are warranted for a lifetime against defective parts and workmanship, excluding vandalism and improper installation and use.
- **1.4 ADA Lockers:** Lockers are to meet the Americans with Disabilities Act, accessibility guidelines. They shall have recessed handles and shall be single tier or lower opening of a double tier locker. Locker bottom shall be a minimum of 15" off the floor, or an extra shelf placed 15" off the floor. Single tier lockers shall have a shelf 48" off the floor. Doors assigned for handicapped use shall have an appropriate symbol sign.
- **1.5 Submittals:** Shop drawing shall show the following: Dimensioned drawings, including plans, elevations, and sections to show locker locations and interfaces with adjacent substrates. Color charts will be provided, representing manufactures full range of available colors and finishes.
- **1.6 Delivery, Storage & Handling:** Store products in manufacture's unopened packaging until ready for installation to protect the locker finish and adjacent surfaces from damage.

Part 2: Specified Product Detail All Welded

- **2.1 Acceptable Product:** LockersMFG All Welded Series, All Welded Locker.
- **2.2 Acceptable Manufacturer:** LockersMFG, which is located a P.O. Box 383258, Germantown, TN 38183; Phone: 901-207-6573; Email: sales@lockersmfg.com; Website: www.lockersmfg.com
- **2.3 Material:** Steel parts shall be mild cold-rolled commercial quality steel, capable of taking a high-grade enamel finish.
 - **2.3.1 Bolts and Nuts:** Zinc plated truss fin head bolts and hex nuts.
- **2.4 Welded Lockers:** Pre-assemble lockers by welding into one-piece structures in groupings most practical for job requirements, welds free of burrs; maximum width of groups to be 54".
 - **2.4.1** Fabricate lockers square, rigid, without warp, with metal faces flat and free of distortion.

Lockers Manufacturing | Phone: (901) 207-6573 Website: lockersmfg.com



- **2.5 Door Frames:** Shall be 16 gauge formed in a channel shape with continuous vertical door strike.
- **2.6 Door:** 14 gauge steel formations are full channel shape on the lock side adequate depth to fully conceal the lock bar, channel formation on the hinge side, and right angle formations across the top and bottom.
 - **2.6.1** Doors over 15" wide and 30" high: Provide with 3" wide 16 gauge full height reinforcing pan welded to inside face of door at 6" centers.
- **2.7 Ventilation:** All sides and doors 20" or higher shall be perforated with diamond-shaped perforations. Optional solid doors and sides. Optional ventilation patterns available upon request.
- **2.8 Body**: Steel specially formed for added strength and rigidity and to ensure tight joints at fastening points.
 - **2.8.1 Bottoms**: 16 gauge sheet steel, notched and formed sheet; one continuous bottom for each group of lockers, suitable for anchoring to wood or concrete bases.
 - **2.8.2 Tops:** 16 gauge sheet steel, notched and formed sheet; one continuous flat top for each group of lockers.
 - **2.8.3 Sides:** 16 gauge sheet steel.
 - **2.8.4 Backs**: 18 gauge sheet steel.
 - **2.8.5 Shelves:** 16 gauge sheet steel. Flanged four sides with additional return flange on front edge to increase strength.
 - **2.8.6 Legs:** Furnish each group of lockers with 4" high 14 gauge steel legs welded to locker bottom.
 - **2.8.7 Integral Metal Base:** 4" high 16 gauge steel channel, welded to the locker bottom.
- **2.9 Door Handle and Latching:** Handles shall be recessed in the door and be finger lift control. Drawn pocket shall be 20 gauge brushed stainless steel securely fastened to the door with two tabs plus a positive tamper resistant decorative fastener. The pocket shall be of sufficient depth to prevent a combination padlock, built-in combination lock or key lock from protruding beyond the face of the door.
 - **2.9.1** A lock hole cover plate shall be provided for use with padlocks.
 - **2.9.2** The lifting piece shall be 14 gauge formed steel, attached to the latching channel with one concealed retaining lug and one rivet assuring a positive two-point connection.
 - **2.9.3** Handle finger lift shall have a padlock eye for use with a 9/32" diameter padlock shackle. It shall have a sound deadening molded comfortable finger lift.

Lockers Manufacturing | Phone: (901) 207-6573 Website:lockersmfg.com



- **2.9.4** Doors to have latch clip engaging the door frame at three points on 60" & 72" high and two points on 20" through 36" high doors.
- **2.9.5** Locking device to be positive, automatic type, whereby locker door may be locked when open, then closed without unlocking.
- **2.9.6** One rubber silencer shall be firmly secured in the frame at each heavy gauge latch hook.
- **2.9.7** Latch clips shall be glass filled nylon.
- **2.9.8** Latch hooks on diamond perforated lockers shall have tamper guards.
- **2.10 Hinges:** Shall be 16 gauge continuous piano type hinge welded to the door and riveted to the frame for the full height of the door. Hinge shall maximize security and enhance resistance to abuse and vandalism. Optional 2" high, double spun, full loop tight pin, five knuckle butt hinge welded to frame and riveted to door.
- **2.11 Box Lockers:** Door shall be 14 gauge steel, punched for built-in lock or padlock. Equip doors for use with padlocks with an 18 gauge combination door pull, staple, and lock hole cover plate with integral friction.
- **2.12 Interior Equipment:** Full-width shelf, coat rod, and two single prong hooks.
- **2.13 Number Plates:** Provide holes for attaching number plates. Each locker shall have a polished aluminum number plate riveted to door face with black numerals 1/2" high.
- **2.14 Finish:** All components shall have a 2mm hybrid epoxy/polyester powder, electrostatically applied to ensure a uniform finished and baked to cure.
- **2.15 Color:** Doors and all body parts shall be selected from LockersMFG's standard color range.
 - **2.15.1** Custom colors optional.

Part 3: Built-In Standard Superior Quiet Locker Features:

- **3.1 Silencing For Schools:** We Feature Technology Leading Quiet Doors:
 - **3.1.1. The Design Specification:** The key to the sound dampening is the solid interior welded double strength plate welded to the door. This one piece is fabricated from 16 gauge or 18 gauge steel sheet; formed into channel shape with double a bend at vertical edges and with a single right-angle bend at the horizontal edges. The doors can be equipped with quiet handles and silencing latches.
 - **3.1.2. Quiet Handles:** stainless steel recessed handle with plastic-protected lifting trigger, designed to accept padlock or built-in locks.
 - **3.1.3. Silencing Latches:** nearly silent multi-point latching on heavy gauge frame hooks with rubber buffers that smoothly reduce noise and contact. There is a concealed quiet lock bar that is locked into place and restricts metal-to-metal noise contact by polyethylene glides.

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- **3.1.4. U Shape Channel Glide:** The spider plastic component tops the inside the galvanized latch channels, so there is no rattling within the latch bar cavity.
- **3.2 Additional Option. Sound-Dampening Panels:** LockersMFG standard, designed to stiffen doors and reduce sound levels when doors are closed, of die-formed metal with full perimeter flange and sound-dampening design and material; welded to inner face of doors. These sound-dampening panels are attached horizontally or vertically depending upon the design of the locker.

Part 4: Accessories & Options

- **4.1 Continuous Sloped Hoods:** 18 gauge steel, slope rise equal to 1/3 of the locker depth (18.5 degrees), plus a 1" vertical rise at front. Supplied in 72" lengths only. Slip joints without visible fasteners at splice locations. Provide necessary end closures and finish to match lockers.
- **4.2 16 Gauge Exposed End Panels:** Minimum 16 gauge steel formed to match locker depth and height. Punched with perimeter holes only.
- **4.3 Finished Box End Panels:** Minimum 16 gauge steel formed to match locker depth and height, 1" edge dimension; finish to match lockers; install with concealed fasteners.
- **4.4 Front Fillers:** 20 gauge steel formed in an angle shape, with 20 gauge slip joint angles formed in an angle shape with double bend on one leg forming a pocket to provide adjustable mating with angle filler. Attachment by means of concealed fasteners finish to match lockers.
- **4.5 Top Fillers:** 20 gauge steel. Cover gaps between tops of lockers. They overlap the locker tops and can be field cut.
- **4.6 Recess Trim:** 18 gauge steel, 3" face dimension. Vertical and/or horizontal as required. Standard lengths as long as practical; attaches to lockers with concealed clips. Provide necessary finish caps and splices. Finish to match lockers.
- **4.7 Benches:** Laminated selected hardwood, 1-1/4" full finished thickness, corners rounded and sanded, surfaces finished with two coats of clear lacquer.
- **4.8 Heavy Duty Bench Pedestals:** Steel tubing with 10 gauge steel flanges welded to each end, 16-1/4" high, and finish to match lockers.
- **4.9 Stainless Steel Free-Standing Bench Pedestal:** 2'' diameter brushed 16 gauge stainless steel formed into a trapezoid, 14'' wide bottom with two 5/16'' diameter holes, top flange with four 5/16'' diameter holes for fastening to bench.
- **4.10 Locks:** Built-in flat key locks; master key same to series.
- **4.11 Locks:** Built-in grooved key Locks (pin tumbler); master key to same series.



- **4.12 Locks:** Built in three number dialing combination locks capable of at least five different combinations changes; provide master key, combination change key, and combination control charts.
- **4.13 Padlocks:** Master keyed three number dialing combination type padlocks; provide master key. Mechanism must be resistant to "shimming."

Part 5. Execution

- **5.1 Preparation**: Verify that base is level. Do not begin installation until base has been properly prepared.
 - **5.1.1** Clean surfaces thoroughly prior to installation. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- **5.2 Installation:** Lockers shall be installed in compliance with LockersMFG's installation instructions and shall be level and plumb with flush surfaces and rigid attachment to anchoring surfaces.
 - **5.2.1** Bolt adjoining locker units together to provide rigid installation.
 - **5.2.2** Install sloping tops and metal fillers using concealed fasteners. Provide flush hairline joints against adjacent surfaces.
 - **5.2.3** Install benches by fastening bench tops to pedestals and securely anchoring to the floor using appropriate anchors for the floor material.
- **5.3 Anchoring:** Anchor lockers to floor and wall.
- **5.4 Assembly:** Assembly by bolting is acceptable, LockersMFG recommends assembly by riveting. Rivets provide solid permanent fastening but allow for faster removal by drilling where future rearrangement of lockers or replacement of damaged parts may be required.
- **5.5 Adjust and Clean:** Adjust doors and latches to operate without biding. Verify that latches are operating satisfactorily.
 - **5.5.1** Adjust built-in locks to prevent binding of dial or key and ensure smooth operation prior to substantial completion.
- **5.6 Touch up:** With factory supplied paint and repair or replace damaged products before substantial completion.
- **5.7 Protection:** Protect installed products until completion of project.

End of Section



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB018	Date Submitted: 7/16/2019	
Answer Company	Answered By	Author Company
Dustin Construction, Inc.	Matt Evans	Glass Industries, LLC
2510 Urbana Pike, Suite 201		4320 Old Milford Mill Road
ljamsville, MD 21754		Pikesville, Maryland 21208

Author RFI Number

Subject		Trade Contractor	
Fire Rated Aluminum/Folding Doors		Glass Industries	
Co: Company Namo	Contact Name	Conias Notas	

Question Date Required: 7/23/2019

Specification sections 0841113.13 (fire rated aluminum) and 083513 (folding doors) are noted as part of scope 08A but we could not find anywhere that these specs. would be applied. Are they to be part of the project?

Suggestion

Answer Date Answered:

Reference the Door Schedule for openings 404/1 and 404/2 which are to receive rated frames. Reference the Door Schedule for FD-1 type doors which are the Folding Doors specified in section 083513.



Detailed RFI

Rock Creek Replace	ement	Project #	148		Dustin Construction, Inc.
RFI #: 000.PB023					Date Submitted: 7/16/2019
Answer Company		Answered By	Author Co	mpany	
Proffitt and Associa 49 S. Carroll Street Frederick, MD 2170		Donna Rosano	11408 Cro	ectric Company nridge Drive, Suite F lls, MD 21117	
Author RFI Number	r				
Subject			Trade Con	tractor	
Panel RD			BoMark Ele	ectric	
Cc: Company Na	ime	Contact Name	Copies	Notes	
Question					Date Required: 7/23/2019
There is no panel se	chedule for Panel RD	. Please provide.			
Suggestion					
Answer					Date Answered:

'RD' Panel as included as part of revised E702 issued with Addendum 03.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB027R1		Date Submitted: 7/16/	2019
Answer Company	Answered By	Author Company	
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject			Trade Contractor
General S	Scope of Work Item M.6		Hancock & Albanese
Cc: Cc	ompany Name	Contact Name	Copies Notes

Question Date Required: 7/23/2019

General Scope of Work for All Trades, item M.6 indicates the 06A contractor (among others) is required to work 6-day work weeks. General Scope of Work for All Trades, item M.5 requires contractors to work additional crews and/or shifts in order to meet the completion date at the CM's discretion. As we are already required to work 6-day weeks please confirm item M.5 does not apply to 06A.

Suggestion

Answer Date Answered: 7/24/2019

Certain trades are required to work a 6 day week, minimum. If additional hours or shifts are then required to meet the durations in the schedule, then that is on the respective trade.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB028R1			Date Submitted: 7/16/2019
Answer Company	Answered By	Author Company	
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject	Trade Contractor
General Scope of Work Item O.2	Hancock & Albanese
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/23/2019

General Scope of Work for All Trades, item O.2 indicates the trade contractors are responsible for all cost related to "refinement, detailing and completion of the final design." This appears to be an unreasonable expectation to be placed on the trade contractors to anticipate these additional costs and absorb them at no additional costs the CM/Owner. Please reconsider this requirement.

Suggestion

Answer Date Answered: 7/24/2019

This should be deleted. See revised scope.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company

Answered By

Author Company

Dustin Construction, Inc.
2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Answered By

Author Company

Hancock & Albanese, Inc.
6600 Santa Barbara Road
Elkridge, MD 21075

Author RFI Number

Subject Trade Contractor

06A Scope Item 17 Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/23/2019

Regarding 06A item #17/page 10 please clarify the duration the stair tower will be required.

Suggestion

Answer Date Answered: 7/24/2019

Figure a minimum 8 weeks of usage after time of erection to allow for steel contractor to place permanent stairs.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By
Author Company

Dustin Construction, Inc.
Matt Evans
Canyon Contracting, Inc.
2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Date Submitted: 7/17/2019

Author Company
Canyon Contracting, Inc.
1012 Rising Ridge Road
Mt. Airy, Maryland 21771

Author RFI Number

Subject Trade Contractor
03A Scope - Allowance Canyon Contracting

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/24/2019

Please confirm 03A allowance for the Greenhouse is to be part of Alterante #3.

Suggestion

Answer Date Answered: 7/24/2019

All concrete costs for 03A, as shown on the contract documents as well as the allowance, are to be included in the greenhouse alternate cost



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB054		Date Submitted: 7/16	/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject	Trade Contractor
Door Schedule - "AHM"	Hancock & Albanese
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/23/2019

"AHM" is listed on the Door Schedule as a material for both doors and frames. Please clarify what material is required.

Suggestion

Answer Date Answered:

AHM is an abbreviation for Acoustical Hollow Metal.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By
Author Company

Dustin Construction, Inc.
Matt Evans
Hancock & Albanese, Inc.
2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Date Submitted: 7/16/2019

Author Company

Hancock & Albanese, Inc.
6600 Santa Barbara Road
Elkridge, MD 21075

Author RFI Number

Subject Trade Contractor
Insulation at HM Frames Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/23/2019

Spec 081113-3.2.B.4 calls for the HM frames to be packed with insulation. Please confirm this applies only to HM frames a GWB partitions and will be provided by 09A.

Suggestion

Answer Date Answered: 7/24/2019

Packing of HMF's at drywall partitions, both material and labor to perform are by 09A



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI#: 000.PB060			Date Submitted: 7/16/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject		Trade Contractor
Alt. #2 - Patient Care Equipment		Hancock & Albanese
Cc: Company Name	Contact Name	Conjes Notes

Question Date Required: 7/23/2019

117300 Patient Care Equipment: Do the classrooms and classroom toilets in Alternate #2 receive changing tables as noted in the specification? They do not appear on the drawings.

Suggestion

Answer Date Answered:

Alternate #2 does not require changing tables in the classroom or classroom toilets.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB061			Date Submitted:	7/16/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075		

Author RFI Number

Subject Trade Contractor
Curtains at Changing Room Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/23/2019

Spec 102123 – The color schedule designates PC-2 in the changing room at the Aquatics area, but the enlarged floor plans (1 & 4/A402) show the curtains to be PC-3. Please clarify.

Suggestion

Answer Date Answered:

See response to RFI 48, issued with Addendum 03.

 Prolog Converge
 Printed on: 7/17/2019
 DustinNew
 Page 1



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB062			Date Submitted: 7/17/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Altimate Electric 1008 Rising Ridge Rd. Mt Airy, MD 21771	

Author RFI Number

Subject		Trade Contractor	
Wiremold		Altimate Electric	
Cc: Company Name	Contact Name	Conies Notes	

Question Date Required: 7/24/2019

Requesting clarification on the wiremold, as shown in each classroom. The legend states "wiremold - type as noted", but no type is noted on any floor plan and there is nothing on the details about it; the panel schedules refer to these circuits as "plugmold". I found nothing in the specs about it, only a single requirement to support surface raceway with 2-hole straps.

What is this wiremold supposed to be, and what is its purpose?

Suggestion

Answer Date Answered:

The wiremold is an Alternating USB-Power Plugmold (Tamper Resistant), with Anodized Aluminum. Model # AL20GB509TRUSBA - 60" length, 3 receptacles, & 3 USB Modules.

This is used as a "charging station" for teachers' devices, and children's devices.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB064

Answer Company

Dustin Construction, Inc.

2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Answered By

Author Company

Key Systems, Inc.
10839 Philadelphia Road
White Marsh, MD 21162

Author RFI Number

Subject Trade Contractor
Temporary Electric Consumption Key Systems

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/24/2019

Specification 002416-16A-1 Electrical Specified Scope of Work #5, Construction Manager is responsible for monthly charges

Specification 015000-1-1.4D Use Charges, Pay electric power service use charges for electricity used by all

Q: Who will "pay for consumption fees" not covered by the allowances for connection fee for temporary power to trailer compound and for temporary electrical service to the building site?

Suggestion

Answer Date Answered: 7/24/2019

CM to pay monthly usage fee for temporary and permanent power during construction. Once substantial completion is reached, Owner to pay monthly usage fees



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By
Author Company
Proffitt and Associates
49 S. Carroll Street
Frederick, MD 21701

Answered By
Author Company
Key Systems, Inc.
10839 Philadelphia Road
White Marsh, MD 21162

Author RFI Number

SubjectTrade ContractorSB BollardsKey Systems

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/25/2019

Drawing E004

Q: Location of SB bollards, is only one (1) required as indicated on left lower side of the drawing on the LOD line.

Suggestion

Answer Date Answered:

You are correct. Only one Type 'SB' on the entire project. 19 July 2019



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB072		Date Submitted: 7/18/20
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Key Systems, Inc. 10839 Philadelphia Road White Marsh, MD 21162

Author RFI Number

Subject		Trade Contractor
Utility Pump		Key Systems
Co. Company Name	Cantast Name	Comica Notes

Question Date Required: 7/25/2019

Drawing E501, from utility transformer to fire pump ATS controller:

Q: What is the feeder size?

Q: Will a CT cabinet and meter be required on exterior of building ahead of fire pump ATS

Suggestion

Answer Date Answered:

See revised Power Riser Diagram, in forthcoming Addendum.

 Prolog Converge
 Printed on: 7/18/2019
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Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB073		Date	e Submitted: 7/18/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Key Systems, Inc. 10839 Philadelphia Road White Marsh, MD 21162	

Author RFI Number

Subject	Trade Contractor
Generator Feeder Size	Key Systems
Co. Company Nama	Cautant Nama Cautan Natan

Question Date Required: 7/25/2019

Drawing E501

Q; What is the feeder size from the generator to the wire trough?

Suggestion

Answer Date Answered:

Wire trough is removed, circuit breakers are to be mounted inside enclosure. BOD (Kohler) confirmed circuit breaker mounting within unit.

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July 22, 2019

Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI#: 000.PB076			Date Submitted: 7/18/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Key Systems, Inc. 10839 Philadelphia Road White Marsh, MD 21162	

Author RFI Number

Subje	ect		Trade Contractor
Acces	ss Control		Key Systems
Cc:	Company Name	Contact Name	Copies Notes

Question Date Required: 7/25/2019

Contract package 16A, item 20 states that 16A is to furnish and install card readers. Item 27 states that 16A is to provide rough-ins for future card readers. Spec section 281000 lists access controls equipment but paragraph 21..B states that access controls will be provided by others. Please clarify the scope of work that is required by 16A.

Suggestion

Answer Date Answered:

- 1. The specification is incorrect.
- 2. A complete, active system including all devices and cabling is contractor provided and installed.

Bryan Jones ESP



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI#: 000.PB079			Date Submitted: 7/18/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject Trade Contractor

Basketball Courts Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/25/2019

Alternate #1 Floor Plan A806 shows duplicate basketball goals at the Stage end of the main court – please confirm this is an error and no additional basketball goals are required as part of Alternate #1.

Suggestion

Answer Date Answered:

This is an error, there is only one basketball goal on the Stage End of the main court.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By
Author Company

Dustin Construction, Inc.
Matt Evans
Hancock & Albanese, Inc.
2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Date Submitted: 7/18/2019

Author Company

Hancock & Albanese, Inc.
6600 Santa Barbara Road
Elkridge, MD 21075

Author RFI Number

Subject Trade Contractor

Goal Ball Court Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/25/2019

Please confirm 06A is to provide no equipment related to the "Goal Ball Court" at 900-Gym on A807.

Suggestion

Answer Date Answered: 7/24/2019

Confirmed, 06A has no equipment related to the goal ball court



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB083			Date Submitted: 7/18/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject	Trade Contractor
STC Rated Doors	Hancock & Albanese
Cc: Company Name	Contact Name Conies Notes

Question Date Required: 7/25/2019

Spec 083473.13 – No STC rated opening are called out on the Door Schedules. Please confirm no work related to this spec section is required by 06A.

Suggestion

Answer Date Answered:

Doors labeled as AHM on the door schedule are Acoustical Hollow Metal doors and will require an STC rating.

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Detailed RFI

	nstruction. Inc.
Rock Creek Replacement Project # 148 Dustin Co	instruction inc

RFI #: 000.PB084			Date Submitted:	7/18/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075		

Author RFI Number

Subject	Trade Contractor
Floor Hatch Specification	Hancock & Albanese
Cc. Company Name	Contact Name Conies Notes

Question Date Required: 7/25/2019

Please provide specifications for the required Floor Hatches.

Suggestion

Answer Date Answered:

There are no floor hatches as part of this project.

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Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB087			Date Submitted: 7/18/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject Trade Contractor
Solid Surface Integral Bowls Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/25/2019

123600 – Note A under "Millwork" on the Finish Legend Notes A601 states that "Solid surface integral bowl color shall be Corian Glacier White." No solid surface bowls have been found on the drawings or specifications. Please clarify where there are to be solid surface integral bowls.

Suggestion

Answer Date Answered:

There are no solid surface integral bowls as part of the project.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB088			Date Submitted: 7/18/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject	Trade Contractor
Wardrobe Closet	Hancock & Albanese
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/25/2019

Elevation 23/A701 shows and notes a wardrobe closet without the teacher workstation, but Floor plan A101C still shows the workstation. Please confirm this is to be a wardrobe only without the teacher workstation.

Suggestion

Answer Date Answered:

For Reading Specialist 710 only, provide just the wardrobe. The window conflicts with the teacher workstation.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company

Answered By

Author Company

Dustin Construction, Inc.
2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Answered By

Author Company

Hancock & Albanese, Inc.
6600 Santa Barbara Road
Elkridge, MD 21075

Author RFI Number

Subject Trade Contractor
Aluminum-Wrapped Plywood Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/25/2019

Please confirm the aluminum-wrapped treated plywood at the various fascia types on A002 is by 07A.

Suggestion

Answer Date Answered: 7/24/2019

Plywood by 06A, metal fascia wrap by 07A. Refer to the typical detail scope assignments issued with Add. 2 for further clarification



Detailed RFI

RFI #: 000.PB090		Date Submitted: 7/18/2019
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	CAM Construction 108 West Timonium Road, Suite 300 Timonium, MD 21093

Author RFI Number

Subject		Trade Contractor	
Appliance Locations		CAM Construction	
Cc: Company Name	Contact Name	Conies Notes	

Question Date Required: 7/25/2019

Please provide information as to the quantity/location of the following appliances:

- a. Microwaves MO-1 and MO-2.
- b. UC Refrigerator/freezer REFR-2.
- c. UC icemaker IC-1.

Suggestion

Answer Date Answered:

- a. There are no MO-1 appliances in the project. MO-2 microwaves to be provided in the Shared Learning Rooms if the Middle School alternate is accepted.
- b. REFR-3 reference in classrooms shall be revised to REFR-2 refrigerators. REFR-2 undercounter refrigerators are provided by FCPS.
- c. IC-1 is located in the Health Suite, see detail 12/A703.



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB094	Date Submitted: 7/22/20	
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Key Systems, Inc. 10839 Philadelphia Road White Marsh, MD 21162

Author RFI Number

Subject		Trade Contractor	
MD/RD Panel Schedules		Key Systems	
Co. Company Name	Contact Name	Conice Notes	

Question Date Required: 7/29/2019

Can you provide panel schedules for MD and RD?

Suggestion

Answer Date Answered:

Panelboard RD was issued in Addendum No. 3. Panelboard MD will be issued in forthcoming Addendum.



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB095	Date Submitted: 7/22/20	
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Key Systems, Inc. 10839 Philadelphia Road White Marsh, MD 21162

Author RFI Number

Subject	Trade Contractor	
Riser Diagrams - SPDs	Key Systems	
Cc: Company Name	Contact Name Copies Notes	

Question Date Required: 7/29/2019

Riser diagram shows SPD's for panels RB, LA, LC and RA. None shown in the panel schedules for breaker size and branch wiring. Are they required?

Suggestion

Answer Date Answered:

SPDs are not required for those panelboards, Panelboard LD will receive an SPD (circuit LD-38 (4) #10 + #10GW - 3/4"C))

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Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
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RFI#: 000.PB096	Date Submitted: 7/22/2019	
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Caton Communications Group 4601 Leeds Avenue, Suite 100 Baltimore, Maryland 21229

Author RFI Number

Subje	ct		Trade Contractor
Plan Page TY101			Caton Communications Group
Cc:	Company Name	Contact Name	Copies Notes

Question Date Required: 7/29/2019

Plan page TY101 states "If the middle school add alternate is accepted, the B and E wing layouts shall be adjusted to have similar floor plan layouts as the Middle School wing. As a result, a shared learning space will replace one classroom in the B and E wings and an additional CCTV camera, door contacts and card reader will be added to each wing." Wing E does not exist, and Wing B contains the aquatic center. Please provide drawings of what changes need to be made for this alternate.

Suggestion

Answer Date Answered:

1. Drawing of that configuration of the building do not exist.

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2. The B and E wings will look like the middle school wing.

Bryan Jones ESP



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB097			Date Submitted:	7/22/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Caton Communications Group 4601 Leeds Avenue, Suite 100 Baltimore, Maryland 21229		

Author RFI Number

Subject	Trade Contractor
UPS Equipment	Caton Communications Group
Gc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Plan page T500 detail 7, 8, and 11 state to "Provide and install new UPS equipment". Detail 4 on the same page shows UPSs in the racks are NIC (not in contract). Are UPSs provided by the contractor?

Suggestion

Answer Date Answered:

1. UPS equipment is by owner.

July 22, 2019

Bryan Jones ESP



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI#: 000.PB098	Date Submitted: 7/22/2	
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street	Donna Rosano	Caton Communications Group 4601 Leeds Avenue, Suite 100
Frederick, MD 21701		Baltimore, Maryland 21229

Author RFI Number

Subject		Trade Contractor
Cat 5 Backbone		Caton Communications Group
Co: Company Namo	Contact Name	Canine Natas

Question Date Required: 7/29/2019

Plan page T500 detail 5 calls for a 50 pair Cat 5 backbone between MDF and IDFs. Detail 6 on the same page calls for 25 pair Cat 5e backbone cabling. Please confirm which detail is correct.

Suggestion

Answer Date Answered:

1. Backbone copper pairs should be Cat 5e. on detail 5.

July 22, 2019

Bryan Jones ESP



July 22, 2019

Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB100	Date Submitted: 7/22/2019	
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Caton Communications Group 4601 Leeds Avenue, Suite 100 Baltimore, Maryland 21229

Author RFI Number

Subject	Trade Contractor
Seclusion Room Technology	Caton Communications Group
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Plan page T101A Detail 2 Seclusion Room Section calls for a Marshall CV350 camera and Totevision LED-1003HDLX.

- a. Are these devices provided by FCPS and installed by the contractor?
- b. Per the drawings, there appears to be 3 seclusion rooms in the base bid and 2 in the alternates. Please confirm this quantity is correct.

Suggestion

Answer Date Answered:

- 1. Those devices are contractor provided and installed.
- 2. Yes, a total of 5 if the alternates are accepted.

Bryan Jones ESP



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB101		Date Submitted: 7/22/20
Answer Company	Answered By	Author Company
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Caton Communications Group 4601 Leeds Avenue, Suite 100 Baltimore, Maryland 21229

Author RFI Number

Subject	Trade Contractor
Access Controls	Caton Communications Group
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Plan page TY000 Detail 3 Security Scope Notes number 3 states to "Provide and install a complete Access Control system including all card readers, servers, access controllers, battery backups, UPS, cables and associated components for a live system." This contradicts spec section 28 10 00-3, which states "The Access Control system shall be provided by other. Only pathways are included in this scope of work." Please confirm that an access control system is not required in this scope of work.

Suggestion

Answer Date Answered: 7/22/2019

Duplicate of PB076 - refer to that answer



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By
Author Company
Proffitt and Associates
49 S. Carroll Street
Frederick, MD 21701

Answered By
Author Company
William F. Klingensmith, Inc.
7307 Baltimore Avenue, Suite 209
College Park, MD 20740

Author RFI Number

Subject Trade Contractor

Drawing A107 William F. Klingensmith

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Drawing A107, is missing, Drawing A601 Finish Legends Notes - Accessories: B refers to this for wall protection locations.

Suggestion

Answer Date Answered:

Drawing A107 is not part of the set.

See response to RFI 45 issued with Addendum 03 for corner guard locations



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB105			Date Submitted:	7/22/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	William F. Klingensmith, Inc. 7307 Baltimore Avenue, Suite 209 College Park, MD 20740		

Author RFI Number

Subject	Trade Contractor
Steel Support at Patient Lifts	William F. Klingensmith
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Where is the supplementary steel framing design on the bid drawings for the support and anchorage of the Ceiling Mounted Patient-Lift Systems (Section 117300 Patient Care Equipment) and is this steel in the 05A Steel contract package per scope Item 5A #20?

Suggestion

Answer Date Answered:

Refer to detail 14 on S401 for support of patient lift systems.

Nick Morabito 07.23.2019

05A contractor is responsible for all support as shown on 14/S401, 06A contractor to provide anything not shown that is required for a complete installation



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By

Author Company

Dustin Construction, Inc.

2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Answered By

Author Company

Hancock & Albanese, Inc.
6600 Santa Barbara Road
Elkridge, MD 21075

Author RFI Number

SubjectTrade ContractorUtility Sink 5/A702Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/25/2019

Please confirm the utility sink at elevation 5/A702 is a free-standing utility sink, furnished and installed by 15A.

Suggestion

Answer Date Answered: 7/22/2019

Item is furnished and installed by 15A, scheduled as P5D on the plumbing drawings



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB109		Date Submitted: 7/22/20
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075

Author RFI Number

Subject	Trade Contractor
Countertop 19/A702	Hancock & Albanese
Co. Company Name	Contact Name Conice Nates

Question Date Required: 7/29/2019

Please confirm the sink countertop in elevation 19/A702 is a solid surface countertop.

Suggestion

Answer Date Answered:

Yes, the countertop shall be solid surface at this detail.

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Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB110

Answer Company
Answered By
Author Company

Dustin Construction, Inc.
Matt Evans
Hancock & Albanese, Inc.
2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Barbara Road
Elkridge, MD 21075

Author RFI Number

Sink 1/A704 Trade Contractor
Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Please confirm the wash sink in elevation 1/A704 is a free-standing utility sink, furnished and installed by 15A.

Suggestion

Answer Date Answered: 7/22/2019

Item is furnished and installed by 15A, scheduled as P5D on the plumbing drawings



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company

Answered By

Author Company

Dustin Construction, Inc.

2510 Urbana Pike, Suite 201

Ijamsville, MD 21754

Answered By

Author Company

Hancock & Albanese, Inc.
6600 Santa Barbara Road
Elkridge, MD 21075

Author RFI Number

Subject Trade Contractor

06A Scope Millwork Item 1 Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

6A General Trades Scope – Millwork and Casework, item #1 notes the following items that we are unable to find on the drawings: magazine shelving, emergency showers, and wood railings. Please confirm these items are not required.

Suggestion

Answer Date Answered: 7/22/2019

Delete reference to magazine shelving and emergency showers under this scope package.

06A contractor to furnish and install both the bridge and step up decking complete (with all handrails both wood and metal) per details 7 and 8 on L-2.6 at Outdoor Learning.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By
Author Company

Dustin Construction, Inc.
Matt Evans
Hancock & Albanese, Inc.
2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Date Submitted: 7/22/2019

Author Company
Hancock & Albanese, Inc.
6600 Santa Barbara Road
Elkridge, MD 21075

Author RFI Number

Subject Trade Contractor

06A Scope - Countertop Equipment Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

6A General Trades Scope – Millwork and Casework, item #1 notes "countertop equipment". Please clarify what equipment if any is to be provided.

Suggestion

Answer Date Answered: 7/22/2019

None required, delete reference



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB113

Answer Company
Answered By
Author Company

Proffitt and Associates
49 S. Carroll Street
Frederick, MD 21701

Date Submitted: 7/22/2019

Author Company

Hancock & Albanese, Inc.
6600 Santa Barbara Road
Elkridge, MD 21075

Author RFI Number

Subject Trade Contractor
Knee Wall Cap Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

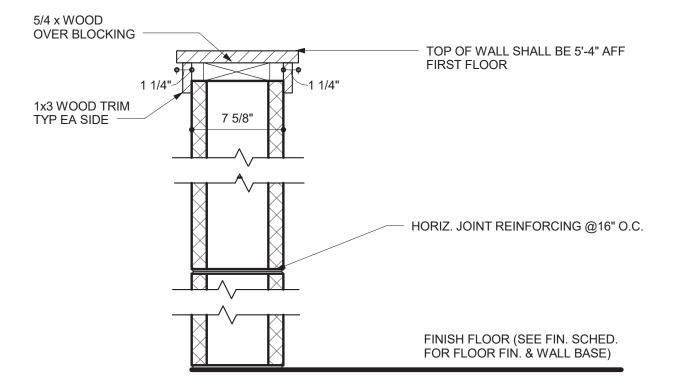
Question Date Required: 7/29/2019

Elev. 12/A401 calls for a wall cap at the knee wall. Please provide specification/details for this cap.

Suggestion

Answer Date Answered:

See attached sketch for typical knee wall cap detail.





Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB114

Answer Company

Dustin Construction, Inc.

Matt Evans

Hancock & Albanese, Inc.
2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Date Submitted: 7/22/2019

Author Company

Hancock & Albanese, Inc.
6600 Santa Barbara Road
Elkridge, MD 21075

Author RFI Number

Subject Trade Contractor
Countertop Equipment Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

06A General Trades SOW calls for "countertop equipment." Please specify what equipment is being requested.

Suggestion

Answer Date Answered: 7/22/2019

See the response to PB112



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB115			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject	Trade Contractor
Floor Sleeves	Hancock & Albanese
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Alternate #1 Gym 900 floor plan on A806 indicates (7) floor sleeves while the base bid Gym floor plans on A101D and A106D indicate (4) floor sleeves. Please confirm (3) additional floor sleeves are required to be included as part of Alternate #1.

Suggestion

Answer Date Answered:

Two additional floor sleeves are required for the Alternate #1.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB117			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Kinsley Manufacturing 2700 Water St. York, PA 17405	

Author RFI Number

Subject Trade Contractor

16 Gauge Angle Clips Kinsley Manufacturing

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Page 3 of the Detail Scope Assignments included in addendum 2, which I believe is page 10 of the addendum assigns all items to 09A except the 16 gauge angle clip at the left end of the 16 gauge angle struts.

These clips are assigned to 05A and this seems to be incorrect. We request this be reviewed and revised assigning the clips to 09A.

Suggestion

Answer Date Answered: 7/24/2019

Correct, assignment to be changed from 05A to 09A for 16ga clip angle.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB118		Date Submitted: 7/22/2019	
Answer Company	Answered By	Author Company	
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Kinsley Manufacturing 2700 Water St. York, PA 17405	

Author RFI Number

Subject	Trade Contractor
Detail Scope Assignments	Kinsley Manufacturing
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

It would be helpful if the Detail Scope Assignments included the detail number and drawing number they originated from.

Suggestion

Answer Date Answered: 7/22/2019

Intent of assignments is to provide a general representation of which items in an assembly are assigned to which Trade Contractor for coordination purposes, as well as a supplement to written instructions in each scope package. These are not intended to refer to any one detail or condition, but rather as a general guideline for the entire project



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By
Author Company

Dustin Construction, Inc.
Matt Evans
Evans
Matt Evans
Ma

Author RFI Number

Subject Trade Contractor
Aluminum Handrail at Step Up Decking Kinsley Manufacturing

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Is the aluminum handrail attached to the wood handrail at the wood steps to the Step Up Decking in 8/L-2.6 in the 05A scope?

The handrail is noted: Both Sides, Typ.

Suggestion

Answer Date Answered: 7/22/2019

This handrail is in the 06A scope



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB125		Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Kinsley Manufacturing 2700 Water St. York, PA 17405

Author RFI Number

Subject	Trade Contractor
Handrail Pipe and Bar Brackets	Kinsley Manufacturing
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Can the material type for handrail pipe and bar brackets in Railing Type 5 attached to bent plates in corridorsbe identified?

Are the handrails steel, stainless steel or aluminum?

Are the bar brackets steel, stainless steel or aluminum?

Can it be confirmed the bent plates on the wall are prime painted steel?

Can the material type for handrail pipe and bar brackets in Railing Type 6 attached to a rail with posts in corridors be identified?

Are the handrails steel, stainless steel or aluminum?

Are the bar brackets steel, stainless steel or aluminum?

Suggestion

Answer Date Answered:

Intent is for all material at Railing Type 5 (Corr. 009 & 016) and 6 (Corr. 000, 015, & 024) to be stainless steel.



Detailed RFI

Rock Creek Replacement Froject # 140 Dustin Construction, i	Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
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RFI#: 000.PB126			Date Submitted:	7/22/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Kinsley Manufacturing 2700 Water St. York, PA 17405		

Author RFI Number

Subject	Tra	de Contractor
Railing Type 6	Kir	sley Manufacturing
Cc. Company Name	Contact Name	Conies Notes

Question Date Required: 7/29/2019

Can the material type for rail with posts that supports the handrails in Railing Type 6 in corridors be identified? Confirm the supporting rail with posts is the same height as the top handrail.

Are the rails and posts steel, stainless steel or aluminum?

Are they picket rails and can the size bar for the pickets be provided?

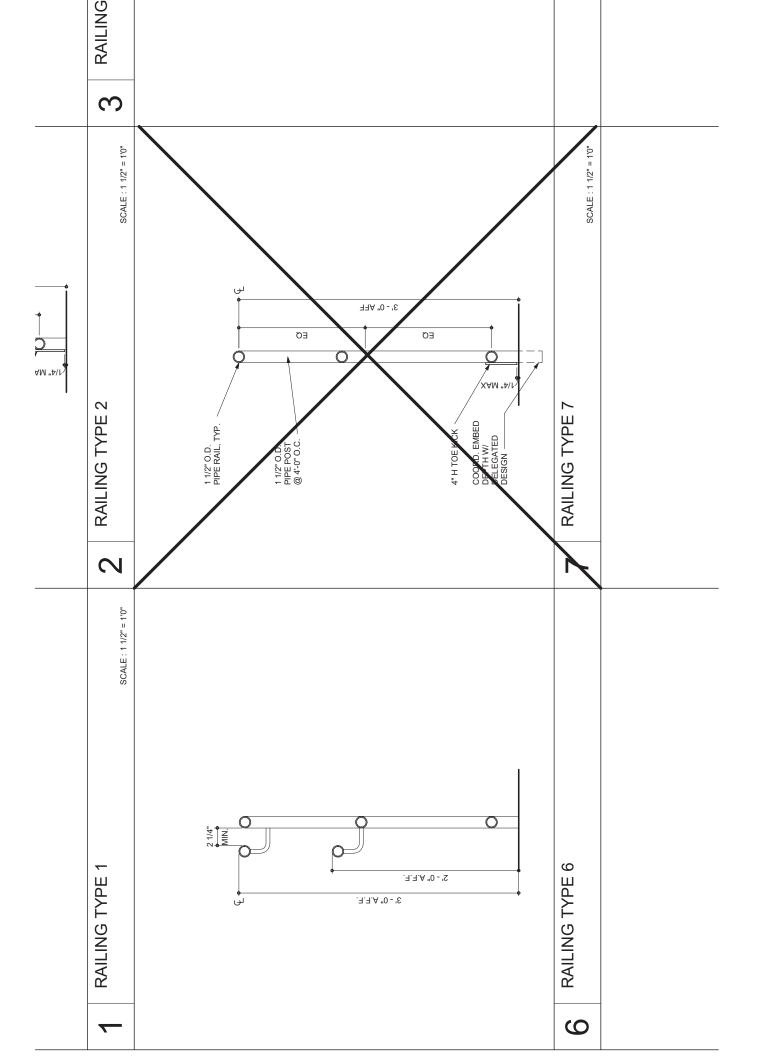
Suggestion

Answer Date Answered:

Top of supporting rail at posts is the same height as the top handrail. All material is stainless steel. Delete pickets and provide horizontal mid-span rail between posts.

See A003 Sketch.

Coordination centerline of posts with centerline of window mullions.





Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB127		Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Kinsley Manufacturing 2700 Water St. York, PA 17405

Author RFI Number

Subject		Trade Contractor
Railing Type 4		Kinsley Manufacturing
Cc: Company Name	Contact Name	Copies Notes

Question Date Required: 7/29/2019

Rail Type 4 is indicated at Removable Platforms and Stairs on A403 where it is used as a handrail at the stairs. Confirm the 3'-6" height and Toe Kick shown for Rail Type 4 on A003 is not necessary on the stairs. Confirm that per 05 51 19-3, Part 2.7 Stair Railing that Rail Type 4 at the Removable Platforms and Stairs are galvanized steel.

Suggestion

Answer Date Answered:

Toe kick not required if 6" diameter sphere cannot pass through space between the riser/tread and the lowest pipe. 3'-0" high handrail is acceptable for railings at detail 1, 2 & 4/A403, but 3/A403 requires handrail/guard to protect >30" change in elevation.

Stair railing at removable platforms and stairs shall be galvanized.



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB132			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Kinsley Manufacturing 2700 Water St. York, PA 17405	

Author RFI Number

Subject	Trade Contractor
Bollard Locations	Kinsley Manufacturing
Cc: Company Name	Contact Name Conies Notes

Question Date Required: 7/29/2019

The Loading Dock area on C-3E would potentially be a location for bollards, but we see none indicated.

Can consideration be given to indicating bollards on site plans?

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc. Added bollards to C-3E. We will issue addendum drawings.



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB134		Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Kinsley Manufacturing 2700 Water St. York, PA 17405

Author RFI Number

Subject	Trade Contractor
Site Signage Steel Posts	Kinsley Manufacturing
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Steel post standoffs are indicated at site signs on A407.

Do the posts extend to base plates at the concrete footings? Similar standoffs are indicated horizontally between the signs and the address piers. Are the horizontal pieces pipe standoffs?

Which bid package is responsible for these post standoffs at site signs? What bid package provides any horizontal standoffs and how are they mounted?

Suggestion

Answer Date Answered:

The posts extend to base plates on the CMU wall.

Yes, the horizontal pieces are also pipe standoffs to withstand lateral movement.

Finish to be stainless steel

Defer to CM for contractor scoping.

05A Contractor to furnish to 04A to install



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB135		Date Submitted: 7/	7/22/2019
Answer Company	Answered By	Author Company	
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Kinsley Manufacturing 2700 Water St. York, PA 17405	

Author RFI Number

Subject	Trade Contractor
Trench Drains	Kinsley Manufacturing
Cc: Company Name Contact Name	Conjes Notes

Question Date Required: 7/29/2019

The Legend on A100 shows a symbol for Trench Drains and refers to Plumbing drawings.

The 1/16" scale plan makes it difficult to identify any trench drain locations.

Can more guidance be provided?

What bid package provides any trench drains required per this legend?

Suggestion

Answer Date Answered: 7/22/2019

Trench drains outside of the building to be F+I by 02A Contractor, inside the building to be F+I by 15A contractor, with the exception of the pool deck drain, which is by 13A



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB137		Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Kinsley Manufacturing 2700 Water St. York, PA 17405

Author RFI Number

Subject	Trade Contractor
Railing Type 7	Kinsley Manufacturing
Co. Company Name	Contact Name Conice Nates

Question Date Required: 7/29/2019

Can the location of Rail Type 7 be confirmed?

Is this the guardrail protecting the Access Stair openings in Penthouse B109 and E109? Confirm that per 05 51 19-3, Part 2.7 Stair Railing these rails and Rail Types 2 & 3 at the Access Stairs are galvanized steel.

Suggestion

Answer Date Answered:

Delete railing type 7. Railings at Access Stair openings in Penthouse B109 and E109 are type 4.

Railings shall be galvanized steel.

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Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By
Author Company

Dustin Construction, Inc.
Matt Evans
Kinsley Manufacturing
2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Date Submitted: 7/22/2019

Author Company

Kinsley Manufacturing
2700 Water St.
York, PA 17405

Author RFI Number

Subject Trade Contractor
Washer Pad Grating Kinsley Manufacturing

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

What bid package provides the grating at the washer pad trough in 10/S202?

Suggestion

Answer Date Answered: 7/22/2019

Add 2x2x1/4 angles with nelson studs continuous both sides, length of trough and grating to be furnished and installed by 05A



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB140		Date Submitted: 7/2	22/2019
Answer Company	Answered By	Author Company	
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Kinsley Manufacturing 2700 Water St. York, PA 17405	

Author RFI Number

Subject	Trade Contractor
10 Gauge Steel Plates	Kinsley Manufacturing
Cc: Company Name	Contact Name Conies Notes

Question Date Required: 7/29/2019

What bid package provides the 10 gauge steel plates at Fire Rated CMU walls in 3/A004? Is the plate continuous?

Suggestion

Answer Date Answered: 7/22/2019

Flute installation and deck plate to be furnished and installed by the 05A Contractor and is continuous length of wall.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company

Answered By

Author Company

Dustin Construction, Inc.

Matt Evans

Main Line Commercial Pools

441 Feheley Drive
Ijamsville, MD 21754

Matt Evans

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Author RFI Number

Subject Trade Contractor
Swimming Pool Heater Connections Main Line Pools

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Please confirm gas and venting of the swimming pool heater is by 15A?

Suggestion

Answer Date Answered: 7/22/2019

Swimming Pool Heater to be furnished and installed by 13A, venting to be by 15A, coordinated with 13A



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company

Answered By

Author Company

Dustin Construction, Inc.

Matt Evans

Main Line Commercial Pools

441 Feheley Drive
Ijamsville, MD 21754

Matt Evans

Author RFI Number

Subject Trade Contractor
Swimming Pool Bonding Main Line Pools

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Please confirm grounding bonding of the pool equipment and imbeds is by 16A?

Suggestion

Answer Date Answered: 7/22/2019

Bonding and grounding of the pool is by 16A. Any embeds required by the pool contractor to install are furnished by the pool contractor



Detailed RFI

Rock Creek Replacement Froject # 140 Dustin Construction, i	Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
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RFI #: 000.PB145		Date Submitted: 7/22/20
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075

Author RFI Number

Subject			Trade Contractor	
Steel Pipe E	Battens		Hancock & Albanese	
Cc: Comi	oanv Name	Contact Name	Copies Notes	

Question Date Required: 7/29/2019

Specification Section 116413, Article 2.9, Paragraph A.2 states that the battens are to be shop primed and painted black. We recommend using 1-1/2" Schedule 40 black steel pipe with a lacquer finish. Is this acceptable?

Suggestion

Answer Date Answered:

Pipe material shall comply with Section 11 61 43 paragraph 2.9.A.1 and finish with paragraph 2.9.A.2. Proposed batten appears to generally meet these requirements, but shall be reviewed during submittal process.

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Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB146			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject		Trade Contractor
Curtain Machines		Hancock & Albanese
Cc: Company Name	Contact Name	Copies Notes

Question Date Required: 7/29/2019

Specification Section 116143, Article 3.6, indicates that draw-curtain machine is required. However, there are no specifics on the curtain machine and is not mentioned anywhere else in this section. Are curtain machines required and if so how many, what type, and at what positions?

Suggestion

Answer Date Answered:

Curtain machines are not required.

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Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI#: 000.PB147			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject		Trade Contractor	
Grand Drape Lining		Hancock & Albanese	
Cc: Company Name	Contact Name	Copies Notes	

Question Date Required: 7/29/2019

Specification Section 116143, Article 3.8, Paragraph A specifies polyester velour fabric for the Grand Drape with a cotton lining. Typically, you would use a polyester lining on polyester fabric since cotton fabric has a tendency to shrink overtime while the polyester fabric will not. Therefore, we recommend polyester lining. Please advise.

Suggestion

Answer Date Answered:

Provide polyester lining to match curtain fabric at grand drape and valance.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB148			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject Trade Contractor
Side Leg Curtain Operation Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Specification Section 116143, Article 3.8, Paragraph B.8 specifies the track as a manual cord (pulley roped) operation. Typically, the side leg curtains would be a walk-along operation. Please advise if this is the preferred method of operation.

Suggestion

Answer Date Answered:

Provide walk along operation.

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Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB149			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject Trade Contractor
Curtain Valence Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Specification Section 116143, Article 3.8, Paragraph C.8 indicates that Valance receives a curtain track. Typically, a valance gets installed to a pipe batten in a fixed position. Please advise.

Suggestion

Answer Date Answered:

Install valance curtain with battens in lieu of track.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB150	Date Submitted: 7/22/20	
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road
Frederick, MD 21701		Elkridge, MD 21075

Author RFI Number

Subject Trade Contractor

Dead-Hung Support Chains Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Specification Section 116143, Article 2.09 Paragraph C indicated grade 80 chain is required. Grade 80 chain is not used in for dead-hung supports due to the size and shape of its links. ¼" Grade 30 chain is typically used to suspend dead-hung items over a stage as it greatly exceeds the minimum safety factors required for static loads. Therefore, is ¼" Grade 30 acceptable to use?

Suggestion

Answer Date Answered:

Grade 30 chain is acceptable.



Detailed RFI

Rock Creek Replacement Froject # 140 Dustin Construction, i	Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
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RFI #: 000.PB151			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Waynesboro Construction Co, Inc. 7101 Guilford Drive, Suite 203 Frederick, Maryland 21704	

Author RFI Number

Subject		Trade Contractor
Single Trap Slab		Waynesboro Construction Company
Cc: Company Name	Contact Name	Conjes Notes

Question Date Required: 7/29/2019

Civil Plan C-4S refers you to plan S-1 for details on the slab below the 7'-0" Single Trap. I do not see this plan. Please clarify the slab makeup and thickness.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc. The StormTrap was redesigned in Addendum 3



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB153			Date Submitted:	7/22/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Waynesboro Construction Co, Inc. 7101 Guilford Drive, Suite 203 Frederick, Maryland 21704		

Author RFI Number

Subj	ect		Trade Contractor
Storr	n Trap		Waynesboro Construction Company
Cc.	Company Name	Contact Name	Conies Notes

Question Date Required: 7/29/2019

On Sheet C-4R,4S and 4T shows the Storm Trap System. Page C-4s references drawing 2.1 for details (Plan 2.1 cannot be found) Also same drawing shows a concrete poured slab but we need the depth to figure for excavation.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc. The StormTrap was revised in Addendum 3



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB154		Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Waynesboro Construction Co, Inc. 7101 Guilford Drive, Suite 203 Frederick, Maryland 21704

Author RFI Number

Subject	Trade Contractor
Utility Scheduling	Waynesboro Construction Company
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Schedule shows SW-3120 installation of storm culver north (10 Days) October 18-28. As you know it takes 4-6 weeks for any precast so I can imagine having submittals back and structures cast in two weeks from start of the job let along excavation and concrete slabs poured.

Second they are showing the construction laydown are on top of the this structure. Please clarify

Suggestion

Answer Date Answered: 7/24/2019

Acknowledged, we are expecting an early release immediately after bid to allow for submittal process to begin. We have already requested expedited reviews of these structures. It is on the contractor to advise suppliers of expedited schedule as this is critical path work which cannot be delayed and is required to be installed as part of the sequence of construction as it relates to SEC measures. Construction laydown area shown on the site utilization plan is general in nature, majority of which is the parking lot area over the storm trap structure.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By
Author Company

Dustin Construction, Inc.
Matt Evans
Waynesboro Construction Co, Inc.
7101 Guilford Drive, Suite 203
Ijamsville, MD 21754

Date Submitted: 7/22/2019

Author Company

Waynesboro Construction Co, Inc.
7101 Guilford Drive, Suite 203
Frederick, Maryland 21704

Author RFI Number

Subject Trade Contractor
Self-Performance Waynesboro Construction Company

Cc: Company Name Contact Name Copies Notes

· ·

Question Date Required: 7/29/2019

Can the requirement for 30% of the work having to be self-performed be removed from the 02A – Earthwork package?

Suggestion

Answer Date Answered: 7/22/2019

No



Detailed RFI

Rock Creek Replacement Project # 148	Dustin Construction, Inc.
--------------------------------------	---------------------------

RFI#: 000.PB156		Date Submitted: 7/22	2019
Answer Company	Answered By	Author Company	
Frederick County Public Schools 191 South East Street Frederick, MD 21701-5918	Brian Staiger	Waynesboro Construction Co, Inc. 7101 Guilford Drive, Suite 203 Frederick, Maryland 21704	

Author RFI Number

Subject	Trade Contractor
RFI Period	Waynesboro Construction Company
Co. Common Nome	Oneste Norman Oneste a Notes

Question Date Required: 7/29/2019

Can the question period for the project be extended?

Suggestion

Answer Date Answered: 7/22/2019

Question period has been extended per Addendum #3



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.

RFI #: 000.PB157		Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company
Frederick County Public Schools 191 South East Street	Brian Staiger	Waynesboro Construction Co, Inc. 7101 Guilford Drive, Suite 203
Frederick, MD 21701-5918		Frederick, Maryland 21704

Author RFI Number

Subject	Trade Contractor
Bid Period	Waynesboro Construction Company
Co. Company Name	Contact Name Conice Nates

Question Date Required: 7/29/2019

Can the bid date be extended a couple weeks?

Suggestion

Answer Date Answered: 7/22/2019

Bid period has been extended per Addendum #3



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB159			Date Submitted:	7/22/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Waynesboro Construction Co, Inc. 7101 Guilford Drive, Suite 203 Frederick, Maryland 21704		

Author RFI Number

Subject	Trade Contractor
Wall 1	Waynesboro Construction Company
Cc: Company Nan	ne Contact Name Copies Notes

Question Date Required: 7/29/2019

C-3U: Wall 1: seems to be a missing 5th outfall pipe which is the piping coming from Wall 4.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc. The wall profile was revised in addendum 4.

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Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB160			Date Submitted:	7/22/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Waynesboro Construction Co, Inc. 7101 Guilford Drive, Suite 203 Frederick, Maryland 21704		

Author RFI Number

Subject	Trade Contractor	
Wall 2	Waynesboro Construction Company	
Gc: Company Name	Contact Name Copies Notes	

Question Date Required: 7/29/2019

C-3U: Wall 2 appears to be the wall that is not identified at the NE corner of the site (see C-3E). If this is true, the profile shows a 36" HDPE pipe in lieu of the existing (2) - 54" x 38" CMP that are shown on C-3E. Please clarify.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc. Clarification was made in Addendum 4 Drawings



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB161			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Kinsley Manufacturing 2700 Water St. York, PA 17405	

Author RFI Number

Subject	Trade Contractor
Lintel at PE Office 904	Kinsley Manufacturing
Gc: Company Name	Contact Name Conies Notes

Question Date Required: 7/29/2019

Sheet S102D shows 'scheduled' lintels at exterior openings in area D. No lintel is indicated at the SF-6 opening at P E Office 904 found on A101D. Should a type L3 lintel be included here?

Suggestion

Answer Date Answered:

Yes, provide L3 over SF-6 at PE Office 904.

Nick Morabito 07.23.2019

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 Printed on: 7/22/2019
 DustinNew
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Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB162			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Kinsley Manufacturing 2700 Water St. York, PA 17405	

Author RFI Number

Subject	Trade Contractor
Lintel at SF-5 Openings	Kinsley Manufacturing
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Sheet S104 shows 'scheduled' lintels at exterior openings in Parks and Recreation alternate #1. No lintels are indicated at the SF-5 openings along the south wall found on A806. Should type L2 lintels be included here?

Suggestion

Answer Date Answered:

Yes, provide L2 over SF-5 openings at Parks and Rec alternate #1.

Nick Morabito 07.23.2019



Detailed RFI

Rock Creek Replacement Froject # 140 Dustin Construction, i	Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
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RFI#: 000.PB163			Date Submitted:	7/22/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Kinsley Manufacturing 2700 Water St. York, PA 17405		

Author RFI Number

Subject	Trade Contractor
Lintels at Interior Walls	Kinsley Manufacturing
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Lintel Note 2 under the Lintel Schedule on S102D calls for all structural steel in contact with masonry to be Galvanized.

Most, but not all of the 'scheduled' lintels on plans S102A, S102B, S102C & S102D are in exterior walls.

Please advise if 'scheduled' lintels at interior wall openings on the plans need to be galvanized.

Please advise if lintels over interior openings furnished per the Lintels: note on S100 need to be Galvanized.

Suggestion

Answer Date Answered:

Interior lintels specified in the lintel schedule or general notes do not need to be galvanized.

Nick Morabito 07.23.2019



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB165			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Kinsley Manufacturing 2700 Water St. York, PA 17405	

Author RFI Number

Subject Trade Contractor
Fire Wall Types Kinsley Manufacturing

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Please clarify the wall types at rooms SLP Office D100 and Cluster Storage 610 along lines 'AK' and 'AL' on A101C. Are these walls fire rated along their full length?

Suggestion

Answer Date Answered:

Under the base bid, these two walls should be 2 hour rated the full length of the wall.

If the Middle School Alternate is accepted, these walls only need to be rated to the cross corridor double doors.



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB167		Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Kinsley Manufacturing 2700 Water St. York, PA 17405

Author RFI Number

Subject	Trade Contractor
Closed Riser Plates	Kinsley Manufacturing
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Please confirm that considering the type of stairs and the heights involved for the Removable Pre-engineered Platforms and Stairs on sheet A403 there is no need for closed riser plates which would only make them more difficult to be removed.

Suggestion

Answer Date Answered:

The Pre-engineered Platforms and Stairs do not reqire closed risers.

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Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB170			Date Submitted: 7	7/22/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Urban N. Zink, Contractor, Inc. 6924 Ebenezer Road Middle River, MD 21027		

Author RFI Number

Subject Trade Contractor
HDPE Piping Urban N. Zink

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Per the wall profiles on sheet C-3U, wall #1 shows a 64" HDPE pipe where as wall #4 notes 48" HDPE pipe - confirm which is correct. Also, please provide a profile for this storm drain pipe run. Please note: 60" is the largest diameter HDPE manufactured.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc. The profiles were revised in Addendum 4 drawings.



Answer

Request for Information 000.PB171

Date Answered:

Detailed RFI

Rock Creek Replacement	Project	# 148	Dustin Construction, Inc.
RFI #: 000.PB171			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Urban N. Zink, Contractor, Inc. 6924 Ebenezer Road Middle River, MD 21027	
Author RFI Number			
Subject		Trade Contractor	
Wall #2		Urban N. Zink	
Cc: Company Name	Contact Name	Copies Notes	
Question			Date Required: 7/29/2019
Please clarify the site location for w	all #2 and the associated 36" H	DPE.	
Suggestion			

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc. Plans were revised see Addendum 4 drawings.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB176

Answer Company
Answered By
Author Company

Proffitt and Associates
49 S. Carroll Street
Frederick, MD 21701

Date Submitted: 7/22/2019

Author Company
Urban N. Zink, Contractor, Inc.
6924 Ebenezer Road
Middle River, MD 21027

Author RFI Number

SubjectTrade ContractorConcrete SwaleUrban N. Zink

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

On sheet C-3E a "Concrete Storm Drain By-Pass Swale" is called for yet no details or limits are provided. Please clarify.

Suggestion

Answer Date Answered: 7/25/2019

No Concrete swale is required in the current design. Please disregard any reference to the concrete swale.



Answer

Request for Information 000.PB178

Date Answered:

Detailed RFI

Rock Creek Replacement	Project #	‡ 148	Dustin Construction, Inc.
RFI #: 000.PB178			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Urban N. Zink, Contractor, Ir 6924 Ebenezer Road Middle River, MD 21027	nc.
Author RFI Number		1	
Subject		Trade Contractor	
Concrete Slab at Storm Trap		Urban N. Zink	
Cc: Company Name	Contact Name	Copies Notes	
Question			Date Required: 7/29/2019
Provide details for the concrete slab	noted on sheet C-4S for the UG	SS-1 Storm-Trap system.	
Suggestion			

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc. The StormTrap was redesigned in Addendum 3



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company

Answered By

Author Company

Dustin Construction, Inc.

2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Answered By

Author Company

Urban N. Zink, Contractor, Inc.
6924 Ebenezer Road
Middle River, MD 21027

Author RFI Number

SubjectTrade ContractorBlastingUrban N. Zink

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

When rock is encountered, will blasting be permitted?

Suggestion

Answer Date Answered: 7/24/2019

Blasting will not be permitted

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 Printed on: 7/24/2019
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Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB180	Date Submitted: 7/22/2	
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Urban N. Zink, Contractor, Inc. 6924 Ebenezer Road Middle River, MD 21027

Author RFI Number

Subject	Trade Contractor
Brick Channel Inverts	Urban N. Zink
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Confirm brick channel inverts will be required for sewer manholes per specification 33-30-00.3.5.D despite Frederick County's acceptance of pre-cast concrete channels.

Confirm brick channel inverts will be required for storm drain structures per specification 33-41-00.3.5.A despite Frederick County's acceptance of field installed concrete channels.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc. Concrete channels are the preferred method.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB182			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	T.J. Distributors 2220 Commerce Rd., Unit 5 Forest Hill, MD 21050	

Author RFI Number

Subject	Trade Contractor
Gym Floor Sleeves	TJ Distributors
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Drawing A806 has a total of 7 sleeves shown, it appears one is not required where the side volleyball court is required. Can you confirm if 6 or 7 total sleeves are required for Alternate #1?

Suggestion

Answer Date Answered:

There are (6) sleeves required for Alternate #1.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By
Author Company
Proffitt and Associates
49 S. Carroll Street
Frederick, MD 21701

Answered By
Author Company
T.J. Distributors
2220 Commerce Rd., Unit 5
Forest Hill, MD 21050

Author RFI Number

Subject Trade Contractor

Divider Curtains TJ Distributors

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Drawing A808, detail 7 and 9 indicates 2 divider curtains. Will 2 divider curtains be required under Alternate or only 1?

Suggestion

Answer Date Answered:

Only 1 divider curtain is required as part of Alternate #1.

One divider curtain should be provided as part of the Base Bid but will be replaced by the divider curtain in the Alternate if Alternate #1 is accepted.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI#: 000.PB184			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	T.J. Distributors 2220 Commerce Rd., Unit 5 Forest Hill, MD 21050	

Author RFI Number

Subject		Trade Contractor	
Wall Padding		TJ Distributors	
Cc: Company Name	Contact Name	Copies Notes	

Question Date Required: 7/29/2019

Should the wall padding on drawing A808, detail 9 be centered under the side court basketball hoops to provide a total width of 10'-0", which would include any columns?

Can you confirm all 7 exposed columns in the gym under the base bid (9 under Alternate #1) are to receive safety padding as specified in Section 11 66 23, paragraph 2.5?

Suggestion

Answer Date Answered:

Yes, the wall padding should be centered under the basketball hoop and be 10'-0" wide, including columns.

Yes, all exposed columns in the gymnasium are to receive wall padding.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB185	Date Submitted: 7/22/201	
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Interstate Corporation 16031 Industrial Drive Gaithersburg, MD 20877

Author RFI Number

Subject Trade Contractor
Roof Screen Gates Interstate Corporation

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Spec. Section 108213, Para. 1.2A states 'section includes supporting steel framework, and gates':

Please verify that there are no gates are designed as shown on Architectural drawings.

Suggestion

Answer Date Answered:

Gates are not part of the proposed roof screen work.

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 Printed on: 7/22/2019
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Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB187			Date Submitted:	7/22/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Urban N. Zink, Contractor, Inc. 6924 Ebenezer Road Middle River, MD 21027		

Author RFI Number

Subject		Trade Contractor
Stone Under Sidewalks		Urban N. Zink
Cc: Company Name	Contact Name	Conjas Notas

Question Date Required: 7/29/2019

Please advise the depth of #57 stone to be placed under the concrete for sidewalks. There is nothing provided in the details.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc. 4" of stone under all sidewalks. Detail 2 C-3J is to be used at ALL doorways.



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB190	Date Submitted: 7/22/2019	
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871

Author RFI Number

Subject	Trade Contractor
Paving at SWM-22	Pleasants Construction Company
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Plan Sheet C-3E, pavement in the area of the loading dock for the new school, it indicates a change from concrete pavement to asphalt pavement in the area of SWM-22. Please confirm that there is a transition from concrete to asphalt paving.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc.
See Addendum 4 drawings. Updated legend. Area in loading dock and access road to be heavy duty concrete. Form the PC radius to the dead end to be regular duty asphalt.



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB191			Date Submitted:	7/22/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871		

Author RFI Number

Subject	Trade Contractor
Playground Drain Tile	Pleasants Construction Company
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Plan Sheet C-3E, the drain tile in the soft play area is indicated in the middle of the area, yet detail # 10, sheet C-3G, indicates the drain tile is on the perimeter of the play yard. Please clarify.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc. Updated Detail 10 C-3G. See addendum 3 drawings.



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB192			Date Submitted:	7/22/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871		

Author RFI Number

Subject			Trade Contractor
Bollards			Pleasants Construction Company
Cc: C	ompany Name	Contact Name	Copies Notes

Question Date Required: 7/29/2019

Plan Sheet C-3H, Detail #7 Bollard, please identify the plan locations of these bollards.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc. The bollards are in the loading dock.
See addendum 4 for updated locations.



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB193			Date Submitted:	7/22/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871		

Author RFI Number

Subject	Trade Contractor
Timber Guard Rail	Pleasants Construction Company
Car Campany Nama	Contact Name Conice Nates

Question Date Required: 7/29/2019

Plan Sheet C-3J, Detail # 7 Timber Guard Rail, please identify the plan locations of this guardrail.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc.

The timber guard rail has been removed from the project.



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB194			Date Submitted:	7/22/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871		

Author RFI Number

Subject	Trade Contractor
Concrete Swale	Pleasants Construction Company
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Plan Sheet C-3E, near sewer manhole S-4 there is a note indicating "concrete storm drain bypass swale see Detail 1 this sheet, C-4F". There is no Detail 1 on this sheet, and on sheet C-4F, is just a profile of the swale. Please provide a detail of the concrete swale.

Suggestion

Answer Date Answered: 7/22/2019

Duplicate Question, see the response to PB176

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc. No Concrete swale is required in the current design. Please disregard any reference to the concrete swale.



Detailed RFI

Rock Creek Replacement Project # 148	Dustin Construction, Inc.
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RFI #: 000.PB195			Date Submitted:	7/22/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871		

Author RFI Number

Subject	Trade Contractor
Conflicting Utility Lines	Pleasants Construction Company
Co: Company Namo	Contact Name Conics Notes

Question Date Required: 7/29/2019

Plan Sheet C-3Q, conflicting pipe lines (intersecting) see sewer and storm drain lines between Sewer Manhole 11 and Sewer C/O 15, please clarify.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc. The pipe profiles have been revised in Addendum 4 drawings.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB197			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871	

Author RFI Number

Subject		Trade Contractor
Outdoor Basketball		Pleasants Construction Company
Cc: Company Name	Contact Name	Copies Notes

Question Date Required: 7/29/2019

Plan Sheet C-3B, looking at the Basketball courts, the plan indicates only 4 ball hoops even though the plan shows 4 full courts. Please confirm that only 4 ball hoops are to be installed.

Suggestion

Answer Date Answered:

There should be 2 basketball hoops per court. The quantity is referencing the number of courts, 4 full courts. 8 basketball hoops should be installed.

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 Printed on: 7/22/2019
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Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI#: 000.PB198	Date Submitted: 7/22/	2019	
Answer Company	Answered By	Author Company	
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871	

Author RFI Number

Subject Trade Contractor
Sewer Manhole 2 Pleasants Construction Company

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Plan Sheet C-3L, Please confirm the top elevation of sewer manhole 2 as 289.37, which appears to be 8 feet below finished grade elevation per profile.

Suggestion

Answer Date Answered: 7/22/2019

Duplicate Question, see the response to PB177



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB200	Date Submitted: 7/22/2019	
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871

Author RFI Number

Subject	Trade Contractor
SWM 26	Pleasants Construction Company
Cc: Company Name	Contact Name Conies Notes

Question Date Required: 7/29/2019

Plan Sheet C-4C, looking at plan view of SWM 26, the details of the pvc underdrain pipe seem to be different from the remaining SWM ponds details, also there appears to be frame and covers with the letter D on them ... please clarify these items.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc.
Plan was updated and D cover detail removed and underdrain was updated on Addendum 4 Drawings



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB202		Date Submitted: 7/2	22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871	

Author RFI Number

Subject	Trade Contractor
C-4G Outfall Treatment	Pleasants Construction Company
Co: Company Namo	Contact Name Conics Notes

Question Date Required: 7/29/2019

Plan Sheet C-4G, please provide information on the outfall treatment of the double 54" x 38" CMP. Per Plan Sheet C-3U, one would assume it was a concrete headwall, however this profile doesn't reflect that assumption. Please clarify.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/25/19 JRB ADTEK Engineers, Inc. Rip-Rap aprons were added to outfall of 54" X 38" CMP as well as the outfall @ NW corner of property. See Addendum 4 drawings.



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB203		Date	Submitted:	7/22/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871		

Author RFI Number

Subject	Trade Contractor
C-4K Structure Number	Pleasants Construction Company
Co: Company Namo	Contact Name Conics Notes

Question Date Required: 7/29/2019

Plan Sheet C-4K, looking at the pipe run profile of court yard to SWM-6, please indicate the structure number of the structure in the court yard.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc. The profile was updated to show I-59 See Addendum 4 Drawings.



Detailed RFI

	nstruction. Inc.
Rock Creek Replacement Project # 148 Dustin C	instruction inc

RFI #: 000.PB204		Date Submitted: 7/22/201
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871

Author RFI Number

 Subject
 Trade Contractor

 Unidentified Storm Drain Structures
 Pleasants Construction Company

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Plan Sheet C-4N & C-4P, please identify the storm drain structures.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/25/19 JRB ADTEK Engineers, Inc. Plan sheets were revised in Addendum 3.



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB206		Date Submitted: 7/22/201
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871

Author RFI Number

Subject	Trade Contractor
Pipe/Structure Schedules	Pleasants Construction Company
Co. Company Nama	Contact Name Conice Nates

Question Date Required: 7/29/2019

Please provide pipe and structure schedules.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc. No pipe or structure schedules will be provided. See profiles for pipe and structure information.

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Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB207			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871	

Author RFI Number

Subject	Trade Contractor
Trench Drains	Pleasants Construction Company
Co. Company Name	Cantact Name Conice Nates

Question Date Required: 7/29/2019

Plan Sheet C-4AA, Detail #2/C-4J for a Trench Drain, please confirm that there are no trench drains on this project.

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc.

Detail 2 / C-4J will be removed from the plans.

The only trench drains are in the interior courtyard at each doorway. Please refer to ACO K100 or an approved equal. A single 1 meter unit can be used at each doorway and tied into the storm drain system in the courtyard.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB208		Date Submitte	d: 7/22/2019
Answer Company	Answered By	Author Company	
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871	

Author RFI Number

Subject Trade Contractor
Liquidated Damages Pleasants Construction Company

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Please confirm that the liquidated damages are \$1,000 per day as stated in the Revised Supplemental Instructions to AIA Document A701, item 21 and not the \$2,500 per day as stated in Section 002416 Trade Contract Package, General Scope for All Contractors, item F. 6.

Suggestion

Answer Date Answered: 7/25/2019

Confirmed



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB209			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871	

Author RFI Number

Subject	Trade Contractor
Crane Pads	Pleasants Construction Company
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

2A Scope Contract Package Item # 30 states that two crane pads will be installed please provide the square footage of these pads and location if known.

Suggestion

Answer Date Answered: 7/25/2019

Crane pad location is TBD, assume pad to be 40x40, and consist of 8" of gabion stone capped with 4" of #2's. Site contractor to remove after use.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB210		Date Submitted:	7/22/2019
Answer Company	Answered By	Author Company	
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871	

Author RFI Number

Subject Trade Contractor
Water Meter Pleasants Construction Company

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

2A Scope Contract Package Item # 2, under utilities scope, mentions to include the water meter costs to obtain and install, please confirm there is no water meter in this work scope.

Suggestion

Answer Date Answered: 7/25/2019

Scope carry over from previous project, FCPS to pay for cost of water meter.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company

Answered By

Author Company

Dustin Construction, Inc.

Matt Evans

Pleasants Construction Company
2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Date Submitted: 7/22/2019

Author Company
24024 Frederick Road
Clarksburg, MD 20871

Author RFI Number

SubjectTrade ContractorLevel Spreader/River RockPleasants Construction Company

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Item # 6, under the utilities scope, please confirm there is no level spreaders or river rock to be installed on this project.

Suggestion

Answer Date Answered: 7/25/2019

Confirmed, delete reference



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company

Answered By

Author Company

Dustin Construction, Inc.

Matt Evans

Pleasants Construction Company
2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Date Submitted: 7/22/2019

Author Company
24024 Frederick Road
Clarksburg, MD 20871

Author RFI Number

Subject Trade Contractor
Utilities - Trench Drains Pleasants Construction Company

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Item # 12, under the utilities scope, please confirm that there are no trench drains and the area drains refer to storm drain inlets.

Suggestion

Answer Date Answered: 7/25/2019

See response to PB207



Detailed RFI

Rock Creek Replacement Froject # 140 Dustin Construction, i	Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
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RFI#: 000.PB213			Date Submitted:	7/22/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Pleasants Construction Company 24024 Frederick Road Clarksburg, MD 20871		

Author RFI Number

Subject	Trade Contractor
Segmental Retaining Walls	Pleasants Construction Company
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Item # 15, under site concrete and walls scope, please confirm that there are no segmental walls to be constructed on this project.

Suggestion

Answer Date Answered:

PRE -BID RFI Response - 7/24/19 JRB ADTEK Engineers, Inc. All walls are to be Cast In Place Concrete.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company

Answered By

Author Company

Dustin Construction, Inc.

Matt Evans

Pleasants Construction Company
2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Date Submitted: 7/22/2019

Author Company
24024 Frederick Road
Clarksburg, MD 20871

Author RFI Number

Subject Trade Contractor
Liquid Asphalt Index Price Pleasants Construction Company

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Item # 9, under the asphalt paving scope, please provide the liquid asphalt index price that will be the base price placed in this projects contract.

Suggestion

Answer Date Answered: 7/25/2019

It is provided, June 2019



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company

Answered By

Author Company

Dustin Construction, Inc.

Matt Evans

Pleasants Construction Company
24024 Frederick Road
Ijamsville, MD 21754

Date Submitted: 7/22/2019

Author Company
24024 Frederick Road
Clarksburg, MD 20871

Author RFI Number

Subject Trade Contractor
Guardrails Pleasants Construction Company

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Items # 5 and # 7, under the fencing, guardrails, and gates scope, please confirm that there are no guardrails on this project, if so, then please identify the location of these vehicular guardrails, along with their type.

Suggestion

Answer Date Answered: 7/25/2019

Confirmed, delete reference



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By
Author Company

Dustin Construction, Inc.
Matt Evans
Pleasants Construction Company
2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Answered By
Author Company
24024 Frederick Road
Clarksburg, MD 20871

Author RFI Number

SubjectTrade ContractorUtility BlastingPleasants Construction Company

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

As a way to help reduce costs, would there be any possibility of any utility trench blasting be allowed, with blasting to take place when the Middle School is vacant of people.

Suggestion

Answer Date Answered: 7/24/2019

Blasting will not be permitted



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company

Answered By

Author Company

Dustin Construction, Inc.

2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Answered By

Author Company

Dance Brothers
825 N. Hammonds Ferry Road Front A
Linthicum, MD 21090

Author RFI Number

Subject Trade Contractor
Concrete Retaining Walls Dance Brothers

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Please provide a structural detail, form-liner and color for the site retaining walls shown on drawing C-3U.

Suggestion

Answer Date Answered: 7/25/2019

Duplicate RFI, see response to PB050



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI#: 000.PB218			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Frederick County Public Schools 191 South East Street Frederick, MD 21701-5918	Brian Staiger	Towson Mechanical 8651 Oakleigh Road Parkville, MD 21234	

Author RFI Number

Subject		Trade Contractor
Number of Proposals		Towson Mechanical
Cc: Company Name	Contact Name	Copies Notes

Question Date Required: 7/29/2019

In Addendum #1 under Preparation of Bid, C. it states Bidder must submit one original proposal, then on Page 2 of the Pre-Bid Meeting Notes, it states to make sure your bid submission includes "one (1) original and one (1) copy of Bid Form of Proposals". Will you please clarify how many copies of the proposal must be submitted please?

Suggestion

Answer Date Answered: 7/23/2019

Only one original proposal is required to be submitted

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Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB219		Date Submitted: 7/22/20
Answer Company	Answered By	Author Company
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Interstate Corporation 16031 Industrial Drive Gaithersburg, MD 20877

Author RFI Number

Subject Trade Contractor

PVC Roofing System Interstate Corporation

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

PVC Roofing System(Ref. Dwg A103; Roof Notes and Legend);

Please confirm that PVC Roofing System on Roof Notes and Legend is not correct.

Suggestion

Answer Date Answered:

Roofing system shall be built up as detailed on drawing A002.

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Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB220			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Kinsley Manufacturing 2700 Water St. York, PA 17405	

Author RFI Number

Subject	Trade Contractor
Spec Section 051200	Kinsley Manufacturing
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Do you have the Division 5 Structural Steel Framing specs complete at this time? The 05 12 00 spec section is noted in the table of contents of the 02 Vol 1 bid specs, however the actual pages of this section appear to be omitted.

Suggestion

Answer Date Answered:

Specification section 05 12 00 Structural Steel Framing will be included as part of Addendum 04.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB221			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Kinsley Manufacturing 2700 Water St. York, PA 17405	

Author RFI Number

Subject	Trade Contractor	
Penthouse Framing	Kinsley Manufacturing	
Cc: Company Name	Contact Name Copies Notes	

Question Date Required: 7/29/2019

Note 13 is indicated on the penthouse framing plans on S102A, S102C & S102D and S102D Note 13 refers to Detail 1/S305 and sends you to the Mechanical Drawings for locations.

We find no reference to a VRV platform on M-dwg penthouse plans on M301 or other M300 series plans. A Which bid package provides the VRV Platform angle support framing in Detail 1/S305?

It seems the mechanical contractor would have all the information regarding quantity, size and height above floor requirements. Should these frames belong in the Mechanical bid scope?

Suggestion

Answer Date Answered: 7/25/2019

Remains in 05A scope. 05A to assume max size as shown on S305, final size is to be coordinated with final mechanical unit selection.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB222			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Kinsley Manufacturing 2700 Water St. York, PA 17405	

Author RFI Number

Subject Trade Contractor
Pool Trench Drain Kinsley Manufacturing

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Note 17 is indicated around the perimeter of the pool on S101B and S101D Note 17 refers to Pool and Mechanical Drawings for the location and detail of the pool trench drain.

The trench drain is shown in plan and section on sheet SP-1.

Please confirm the trench drain around the pool is not in the 05A scope of work.

Suggestion

Answer Date Answered: 7/25/2019

Pool trench drain to be furnished and installed by 13A Contractor, plumbing connection to be by 15A



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By
Author Company

Dustin Construction, Inc.
Matt Evans
Evans
Matt Evans
Ma

Author RFI Number

Subject Trade Contractor
Railings at Pool Kinsley Manufacturing

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Please confirm the stainless steel railing at the pool on sheets SP-1 and SP-3 are not in the 05A scope of work.

Suggestion

Answer Date Answered: 7/25/2019

Railings to be furnishing and installed by 13A Contractor, grounded by 16A



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By
Author Company

Dustin Construction, Inc.
Matt Evans
Evans
Matt Evans
Ma

Author RFI Number

Subject Trade Contractor
Greenhouse Trench Drain Kinsley Manufacturing

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Please confirm the trench drain in the greenhouse noted TD-A on sheet P403 is not in the 05A scope of work.

Suggestion

Answer Date Answered: 7/25/2019

Trench Drain at Greenhouse to be furnished and install by 15A Contractor as part of the add alternate price for the greenhouse



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By
Author Company

Dustin Construction, Inc.
Matt Evans
Hancock & Albanese, Inc.
2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Date Submitted: 7/22/2019

Author Company
Hancock & Albanese, Inc.
6600 Santa Barbara Road
Elkridge, MD 21075

Author RFI Number

Subject Trade Contractor

HM Frame Infills Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

06A scope item #11/page 3 indicates HM window frames are to be temporarily infilled with plywood. Please confirm the intent is to infill HM frames that occur on exterior walls only and not all/every HM frame is to receive this temporary infill.

Suggestion

Answer Date Answered: 7/25/2019

Confirmed



Detailed RFI

Rock Creek Replacement Froject # 140 Dustin Construction, i	Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
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RFI #: 000.PB226			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject		Trade Contractor
PLam Casework Finish		Hancock & Albanese
Co: Company Namo	Contact Namo	Conins Notes

Question Date Required: 7/29/2019

Will the Manufactured Plastic Laminate Casework, Spec. Section #123216 have the same VERTICAL finish as noted for the millwork?

Suggestion

Answer Date Answered: 7/22/2019

Drawing A609 Millwork Color Schedule

- o Revise PL-1 Remarks from "Laminate Verticals" to "Casework, Teacher Workstations, Changing Table Cabinets". Drawing A405 Millwork Details
- Detail 1, 2, 3, 4 and 5 Revise laminate from "PL-1" to "PL-2", all locations.
- o Detail 6 & 7/A403 Add note indicating laminate is "PL-1".



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB227			Date Submitted:	7/22/2019
Answer Company	Answered By	Author Company		
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075		

Author RFI Number

Subject Trade Contractor
Wood Block Counters Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

Elevation 9, 10/A704 (Rm 605) call out "Wood Block Counters". Please provide specification/details for these countertops.

Suggestion

Answer Date Answered:

Provide Birch Top butcher block style work bench top; 1 3/4" thick with a square edge.

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Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB228			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject Trade Contractor

Roof Cant Strip Hancock & Albanese

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/29/2019

The "cant strip" at Roof Details A520, A521 is installed on top of the ½" cover board of the indicated Roof Types. Therefore we assume it is to be a fiber cant (in lieu of wood) installed by 07A – please confirm.

Suggestion

Answer Date Answered:

Cant strip material per specification section 07 51 13, paragraph 2.10.D.

Defer to CM for scoping clarification.

07A F+I



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI#: 000.PB229			Date Submitted: 7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject	Trade Contractor	
Wood Blocking		Hancock & Albanese
Cc: Company Name	Contact Name	Copies Notes

Question Date Required: 7/29/2019

Roof Details A520, A521 only indicates the wood blocking is to be "treated". Please confirm all blocking is to be fire treated in lieu of pressure treated.

Suggestion

Answer Date Answered:

Correct, wood blocking shall be "fire treated".



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB231		Date Submitted:	7/22/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject		Trade Contractor
Roller Shade Locations		Hancock & Albanese
Cc: Company Namo	Contact Namo	Coning Notes

Question Date Required: 7/29/2019

Roller Shade locations are not called out on the drawings. Spec 122413-1.1.A.1 states: "Provide shades at all exterior windows unless otherwise noted."

- a. Please confirm every exterior window type is to receive a window shade.
- b. Please confirm no interior windows/doors at offices or classrooms are to receive roller shades.
- c. Please confirm no motorized shades are required.
- d. Please confirm no blackout shades are required.

Suggestion

Answer Date Answered:

- a. That is correct, every exterior window receives a roller shade.
- b. Interior doors and windows do not receive roller shades.
- c. Motorized shades are not required.
- d. Blackout shades are not required.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB232		Date Submitted: 7	
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Hancock & Albanese, Inc. 6600 Santa Barbara Road Elkridge, MD 21075	

Author RFI Number

Subject	Trade Contractor	
Countertops	Hancock & Albanese	
Cc: Company Name	Contact Name Copies Notes	

Question Date Required: 7/29/2019

Are all countertops at Manufactured Casework and Millwork to be solid Surface Wilsonart material as per the schedule on drawing A609?

Suggestion

Answer Date Answered:

Yes, that is correct.

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Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB233		Date Submitted: 7/22/201
Answer Company	Answered By	Author Company
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Interstate Corporation 16031 Industrial Drive Gaithersburg, MD 20877

Author RFI Number

Subject	Trade Contractor
Roof Screen Framing	Interstate Corporation
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/29/2019

Spec. Section 108213, Para. 1.2A states 'section includes supporting steel framework, and gates':

Please verify that 07A's supporting steel frame work does not include steel framing work shown Dwg S-410, which we assume in Package 05A work scope.

If steel framing work should be done by 05A Contractor, Specification Section 108213 should also be referenced to 05A Contractor Package.

Suggestion

Answer Date Answered: 7/24/2019

05A Contractor has all structural steel, Cold-formed framing as indicated to be by 09A. Any and all additional Cold-formed framing not shown to be by 07A.



Detailed RFI

Rock Creek Replacement	Project # 148		Dustin Construction, Inc		
RFI #: 000.PB235				Date Submitted:	7/24/2019
Answer Company	Answered By	Author Cor	npany		
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	CAM Construction 108 West Timonium Road, Suite 300 Timonium, MD 21093		1	
Author RFI Number					
Subject		Trade Cont	ractor		
Portable Sanitation/Debris Removal		CAM Cons	truction		
Cc: Company Name	Contact Name	Copies	Notes		
Question				Date Required:	7/31/2019
Reference Supplemental Instructions Provisions of Portable Sanitation and	, ,	raph 22			
☐ Please confirm if CM to provide dur dispose of debris in CM furnished dur ☐ Please confirm if CM will provide po for trade contractors use.	npsters				
Suggestion					
Answer				Date Answered:	7/24/2019
Construction Manager to provide Dunown.	npsters for use by all contract	ors with the exce	eption of 07A, who is to pr	ovide their	

Construction Manager to provide portable toilets for trade contractor use.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By
Author Company

Dustin Construction, Inc.
2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Answered By
Author Company

CAM Construction
108 West Timonium Road, Suite 300
Timonium, MD 21093

Author RFI Number

Subject Trade Contractor

Builder's Risk Deductible CAM Construction

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/31/2019

Please identify builders risk deductible.

Suggestion

Answer Date Answered: 7/24/2019

Duplicate of PB024, refer to that response



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI#: 000.PB237		Date Submitted: 7/24/2019	
Answer Company	Answered By	Author Company	
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	CAM Construction 108 West Timonium Road, Suite 300 Timonium, MD 21093	

Author RFI Number

Subject		Trade Contractor	
Sump Pit		CAM Construction	
Cc: Company Name	Contact Name	Copies Notes	

Question Date Required: 7/31/2019

Please clarify paragraph 15 on page 111, under Miscellaneous Scope Items for General Trades Package 06A. What is the intent of the sump pit, especially after the slab on grade is poured, and what exactly are you expecting Contractor 06A to provide? A full-time laborer to watch the sump pit? A laborer to push water after storms? And do you need both 03A and 06A Contractors to provide pumps and hoses?

Suggestion

Answer Date Answered: 7/25/2019

Scope item is a carryover item not needed on Rock Creek, scope item to be deleted from package in next addendum.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB239

Answer Company
Answered By
Author Company

Dustin Construction, Inc.
Matt Evans
Evans
Winsley Manufacturing
2700 Water St.
Ijamsville, MD 21754
Work, PA 17405

Author RFI Number

 Subject
 Trade Contractor

 Trench Drains TD-A
 Kinsley Manufacturing

 Cc: Company Name
 Contact Name
 Copies Notes

Question Date Required: 7/31/2019

Please confirm the trench drains noted TD-A in the shower rooms on sheets P201C & P302 are not in the 05A scope of work.

Suggestion

Answer Date Answered: 7/24/2019

These are to be F+I by 15A



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI#: 000.PB240			Date Submitted: 7/24/2019
Answer Company	Answered By	Author Company	
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Kinsley Manufacturing 2700 Water St. York, PA 17405	

Author RFI Number

Subject	Trade Contractor
Exterior Trench Drains	Kinsley Manufacturing
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/31/2019

Please confirm there are no exterior trench drains in the 05A scope of work since they are specifically assigned to the 02A scope in item 12 under Site Utilities Specific Scope on page 002416-02A-6.

Suggestion

Answer Date Answered: 7/24/2019

With the exception of the trough drain angles and cover (PB139) at the washing machine, all other interior trench drains are by 15A and exterior trench drains are by 02A



Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI #: 000.PB242		Date Submitted: 7/24/2019	
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Stella May Contracting, Inc. 1512 Edgewood Road Edgewood, MD 21040	

Author RFI Number

Subject	Trade Contractor
C-3T Water Line	Stella May Contracting
Co. Company Nama	Contact Name Conice Nates

Question Date Required: 7/31/2019

On Sheet C-3T, Water line A has a match line that says C-3R. When you go to C-3R it is sewer profiles. Please provide profile

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/25/19 JRB ADTEK Engineers, Inc. Plan sheets were revised see Addendum 4 drawings.

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Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB243			Date Submitted: 7/24/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Stella May Contracting, Inc. 1512 Edgewood Road Edgewood, MD 21040	

Author RFI Number

Subject	Trade Contractor
C-3S Profile	Stella May Contracting
Cc: Company Name	Contact Name Conies Notes

Question Date Required: 7/31/2019

On Sheet C-3S it has a match for another profile on that sheet and there is no other profile on that sheet. Please provide profile

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/25/19 JRB ADTEK Engineers, Inc. Plan sheet were revised in Addendum 4 drawings.



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company

Answered By

Author Company

Dustin Construction, Inc.

2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Answered By

Author Company

Stella May Contracting, Inc.

1512 Edgewood Road
Edgewood, MD 21040

Author RFI Number

Subject Trade Contractor
Conflicting Utility Lines Stella May Contracting

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/31/2019

On sheet C-3Q it shows the 8" sewer between MH-11 and C/O 15 conflicting with a 15" HDPE storm drain pipe. Please advise

Suggestion

Answer Date Answered: 7/24/2019

Duplicate of PB195, see that response



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company
Answered By
Author Company

Dustin Construction, Inc.
Matt Evans
Stella May Contracting, Inc.
2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Date Submitted: 7/24/2019

Author Company

Stella May Contracting, Inc.
1512 Edgewood Road
Edgewood, MD 21040

Author RFI Number

Subject Trade Contractor
Grease Trap Stella May Contracting

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/31/2019

Is the Grease trap in the 2A scope or the plumbing scope?

Suggestion

Answer Date Answered: 7/24/2019

Grease trap is furnished and installed by 15A. Site connection and subsequent piping at exit invert of the grease trap is responsibility of 02A



Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI #: 000.PB246

Answer Company
Answered By
Author Company

Dustin Construction, Inc.
2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Answered By
Author Company

Stella May Contracting, Inc.
1512 Edgewood Road
Edgewood, MD 21040

Author RFI Number

Subject Trade Contractor
64" HDPE Stella May Contracting

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/31/2019

On Sheet C-3U for wall 1 it shows aa 64" HDPE pipe. As far as I know they don't make a 64" HDPE. There is no 64" shown on the plan views. Please advise

Suggestion

Answer Date Answered: 7/24/2019

Duplicate of PB170, see that reponse

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Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB247			Date Submitted: 7/24/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Stella May Contracting, Inc. 1512 Edgewood Road Edgewood, MD 21040	

Author RFI Number

Subject	Trade Contractor
Box Culvert	Stella May Contracting
Cc: Company Name	Contact Name Conjes Notes

Question Date Required: 7/31/2019

On sheet C-3U for wall 1 it shows the 96' box culvert and 3 pipes, on the plan views on sheets C-4A and C-4D it shows the box culvert and 4 pipes

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/25/19 JRB ADTEK Engineers, Inc. Plans were revised in Addendum 4

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Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB248	Date Submitted: 7/2	24/2019	
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Stella May Contracting, Inc. 1512 Edgewood Road Edgewood, MD 21040	

Author RFI Number

Subject Trade Contractor
Site Walls Stella May Contracting

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/31/2019

On sheet C-3U it shows 4 walls, I only can find the Wall 1 and Wall 4 below the UGS. Wall 2 shows a 36" pipe but can not locate this wall on a plan view. Please advise to the location

Suggestion

Answer Date Answered:

PRE - BID RFI Response - 7/25/19 JRB ADTEK Engineers, Inc. See Addendum 4 drawings.

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Detailed RFI

Rock Creek Replacement	Project	t # 148	Dustin Construction, Inc.
RFI #: 000.PB251			Date Submitted: 7/24/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	Stella May Contracting, Inc. 1512 Edgewood Road Edgewood, MD 21040	
Author RFI Number			
Subject		Trade Contractor	
Structure Schedule		Stella May Contracting	
Cc: Company Name	Contact Name	Copies Notes	
Question			Date Required: 7/31/2019
Please provide a structure schedule			
Suggestion			
Answer			Date Answered:

PRE - BID RFI Response - 7/25/19 JRB ADTEK Engineers, Inc.
All structure information is shown on the profiles. A structure schedule will not be provided. Refer to Addendum 4 Plans.

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Detailed RFI

Rock Creek Replacement	Project # 148	Dustin Construction, Inc.
------------------------	---------------	---------------------------

RFI#: 000.PB257			Date Submitted: 7/24/2019
Answer Company	Answered By	Author Company	
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Kinsley Manufacturing 2700 Water St. York, PA 17405	

Author RFI Number

Subject	Trade Contractor
Flashing	Kinsley Manufacturing
Co. Company Name	Contact Name Course Nates

Question Date Required: 7/31/2019

Please confirm the thru-wall flashing with weeps in 2B/A404 is not in the 05A bid scope.

Please confirm the thru-wall flashing with receiver in 2C/A404 is not in the 05A bid scope.

Please confirm the counterflashing in 2C/A404 is not in the 05A bid scope.

Please confirm the thru-wall flashing with weeps in 3/A404 is not in the 05A bid scope.

Please confirm the thru-wall flashing with weeps in 3A/A404 is not in the 05A bid scope.

Suggestion

Answer Date Answered: 7/24/2019

As this thru wall flashing, counterflashing, receivers, reglets, etc are all due to the canopy, which is part of the 05A package, 05A shall furnish materials to 04A for installation within the masonry, and subsequently 05A to furnish and install remaining materials after canopy install is complete.

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Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI#: 000.PB259		Da	ate Submitted: 7/24/2019
Answer Company	Answered By	Author Company	
Proffitt and Associates 49 S. Carroll Street Frederick, MD 21701	Donna Rosano	William F. Klingensmith, Inc. 7307 Baltimore Avenue, Suite 209 College Park, MD 20740	

Author RFI Number

 Subject
 Trade Contractor

 Wall Cap Material
 William F. Klingensmith

 Cc: Company Name
 Contact Name

 Copies
 Notes

Question Date Required: 7/31/2019

What material is intended for the wall caps show at elevations 12 & 13/A401?

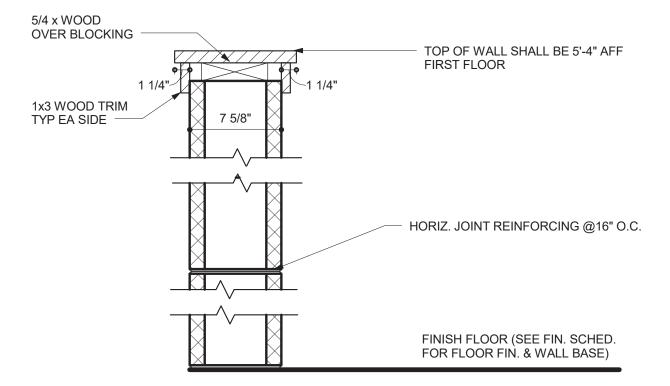
Suggestion

Answer Date Answered:

Kneewall cap is wood.

See attached sketch and response to RFI 113.

 Prolog Converge
 Printed on: 7/24/2019
 DustinNew
 Page 1





Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

RFI#: 000.PB267			Date Submitted: 7/24/2019
Answer Company	Answered By	Author Company	
Dustin Construction, Inc. 2510 Urbana Pike, Suite 201 Ijamsville, MD 21754	Matt Evans	Kinsley Manufacturing 2700 Water St. York, PA 17405	

Author RFI Number

Subject	Trade Contractor
Roof Screen Framing	Kinsley Manufacturing
Cc: Company Name	Contact Name Copies Notes

Question Date Required: 7/31/2019

On page 98 of the scope document, item 2 of the Steel scope, it is indicated that the 5A contractor is responsible to furnish and install roof screen framing. However, the detail for roof screens is shown on 13/S410, and it indicates that the roof screen and framing is to be supplied by a roof screen supplier. No specific details or dimensions regarding components of the frame are given, as it appears to be a prefabbed system.

It is understood that the joist reinforcements will be part of the 5A contract. Can you confirm that the roofing screen wall frames (not including the joist reinforcements) as shown on 13/S410 and their frames are not supplied nor installed by the 5A contractor?

Suggestion

Answer Date Answered: 7/24/2019

05A Contractor has all structural steel, Cold-formed framing as indicated to be by 09A. Any and all additional Cold-formed framing not shown to be by 07A.

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Detailed RFI

Rock Creek Replacement Project # 148 Dustin Construction, Inc.

Answer Company

Answered By

Author Company

Dustin Construction, Inc.

2510 Urbana Pike, Suite 201
Ijamsville, MD 21754

Answered By

Author Company

Interstate Corporation
16031 Industrial Drive
Gaithersburg, MD 20877

Author RFI Number

Subject Trade Contractor
Aluminum Wrapped Plywood Interstate Corporation

Cc: Company Name Contact Name Copies Notes

Question Date Required: 7/31/2019

Aluminum Wrapped Treated Plywood fascia (Ref. Dwg A002 Fascia Type);

Please clarify which package contractor is responsible to supply and install Aluminum Wrapped Treated Plywood Fascia.

Suggestion

Answer Date Answered: 7/24/2019

See the response to PB089

Prolog ConvergePrinted on: 7/24/2019DustinNewPage 1

PART 1 – GENERAL SCOPE OF WORK FOR ALL TRADES

A. CONTRACT PACKAGE PROPOSALS:

- 1. Proposals in compliance with the Invitation to Bid and Instruction to Bidders will be received for the contract packages included herein.
- 2. Refer to Document 002413 Contract Package / Specifications Cross-reference.
- 3. All contract package proposals must include all items in the package. No exceptions, exclusions, or qualifications are permitted.
- 4. Contractor shall review the list of unit prices found on the form of proposal, and accepts these rates for potential changes to the work, both adds and deducts, for the duration of the project.
- 5. Contractor shall be required to carefully review all alternate proposal requests contained within the Contract Documents. Contractor shall provide costs for all work contained in the alternates, associated and/or specifically indicated as part of the Contract Package. Contractor shall be responsible for providing all such work upon acceptance of the alternates by the Owner. Failure to list a price on the alternate proposals will be considered zero cost and does not relieve the contractor from performing the scope of work if the alternate is accepted.
- 6. Contractors bidding more than one package must submit separate Forms of Proposal for each package.
- 7. The basis of Trade Contract awards will be made on a best value to the project, considering price, qualifications, MBE (MDOT) participation, LEED requirements, and the acceptance the of contract requirements.

B. **QUESTIONS CONCERNING THE CONTRACT PACKAGE:**

- 1. All questions concerning the Contract Packages, Form of Proposal and all technical specifications must be brought to the attention of the Construction Manager in writing no later than five (5) business days prior to the bid. All questions shall be emailed to bids@dustinconstruction.com.
- 2. Work listed in any specification section, which is described, as being in accordance with a related reference section, shall be performed by the Contractor in whose section the work is listed.

C. CONTRACT PACKAGE INSTRUCTIONS:

- 1. This project is being funded over two fiscal years, therefore, upon request, the successful Contractor shall be required to provide two separate costs associated with their Trade Package:
 - a. Costs for all work that takes place between Award and June 30, 2020.
 - b. Costs for all work that takes place on or after July 1, 2020.

This will allow for contracts to written upon board approval of project. Initial contract will be written for costs expected for first fiscal year, with a locked in change order to follow once funding for second fiscal year becomes available.

- 2. Contract package specific scope of work instruction sections follow this section and are listed separately by package.
- 3. The Contractor shall provide all labor, materials, tools, equipment and supervision necessary to complete all of the work required by the Specification Sections designated in Sections 002413 Specifications Cross Reference and 002416 Contract Packages, as being part of the Contract Package for which he is submitting a proposal.

- 4. Contractor shall provide all labor, material, equipment, and supervision necessary for and reasonably incidental to the completion of the scope in accordance with the complete set of Contract Documents.
- 5. The Contract Package instructions are provided to highlight the major portions of the work of each Contract Package and to include supplemental requirements. The Contract Package instructions are not intended to list every portion of the work that is required by the specifications assigned to each Contract Package.
- 6. The terms Contractor, Trade Contractor, Subcontractor, Supplier, Second Tier Subcontractor, etc. are considered interchangeable when it comes to both the General and Specific scope line items, Contracts and or Purchase Orders.

D. DUPLICATION OF WORK:

- 1. A duplication of any portion(s) of the work in another Contract Package shall not relieve the Contractor of his responsibility to perform all of the work required by his Contract Package instructions. If any such duplication of work is discovered, the Construction Manager or Owner shall decide which contract(s) shall be adjusted to eliminate any such duplication of work.
- 2. In the event of a conflict between drawings or specified requirements, the Contractor will be responsible to provide the superior quality, quantity, or costlier product and installation as deemed by the Construction Manager, Owner or Architect.

G. MBE & WORKFORCE DEVELOPMENT REQUIREMENTS

- 1. The Project has established Minority Business Enterprise (MBE) participation goals for each Contract Package as listed in the Invitation to Bid. MBE firms must be certified by the Maryland Department of Transportation (MDOT) in order to be counted towards the goals.
- 2. Contractor shall endeavor to maximize participation by MDOT certified minority firms in its bid. Contractor shall complete and submit all required MBE forms for this project and shall include in its agreements with certified MBE Contractors a requirement to submit these MBE forms to the Owner.
- 3. Only contractors, vendors or suppliers certified by MDOT (Maryland Department of Transportation) are recognized as certified MBE.
- 4. In the event MBE participation cannot be achieved, documentation must be provided as described in Division 0.
- 5. Contractor must provide verification of payment to MBE via canceled check or notarized lien waiver within thirty (30) days of payment from Owner to Contractor if MBE costs were submitted on Contractor's requisition. This verification is to be sent to the Construction Manager no later than the month's following pay application.
- 6. Contractors are required to furnish copies of executed subcontract or supplier agreements with MBE firms if and when required by Owner.
- 7. In accordance with Specification Section 012900, Contractor to create on the schedule of values a line called "MBE inclusion". The **mandatory assigned value will be 1% of the total contract value.** This is in addition to the retainage requirements of the contract. Monies will be released as determined by contractor's performance, similar to any other line item in the schedule of values.

H. WAGE RATES AND SALES TAX

1. Frederick County Public Schools has issued Prevailing Wage Rates enforced for the duration of this project per Specification Section 004343. Contractor shall pay wages to workers in strict accordance with above

ROCK CREEK SCHOOL Frederick County Public Schools

mentioned Wage for this Contract. Contractor shall comply with all applicable Labor Standards Provisions and is also responsible for ensuring that all subsequent tier Contractors comply with the submission on their required payrolls.

All certified payroll reports shall be submitted electronically as required and confirmation receipts are to be faxed to Dustin Construction at 301-810-4345. Any fines incurred for failure to comply and improper or untimely reporting shall be backcharged directly to Contractor.

2. This project is subject to State of Maryland sales tax.

I. PERMITS, TESTING AND INSPECTIONS

- 1. The Owner and or Design Team is to secure the Building and MDE permits only. All other required permits, sub permits, trade permits, approvals, bonds, etc. are the respective Contractor's responsibility.
- 2. Contractor shall provide full cooperation with all testing agencies, all materials to be tested, and lastly test reports when performing own testing.
- 3. Owner to provide all inspection and testing as delineated in Specification Section 014000. Any and all other required testing and inspection is the responsibility of the Contractor. Any costs for retesting due to Contractors failure of original tests shall be borne by said Contactor.
- 4. Contractor shall coordinate with all jurisdictional agencies and inspectors.
- 5. Contractor shall provide any and all trade certifications, licenses, and sign-offs required to secure any and all approvals, permits, and certifications.
- 6. Contractor shall perform all work to comply with the rules and the regulations of the governing bodies and state local laws. Contractor shall obtain all required bonds and permits, secure all inspections, and provide all tests and certifications required by code. Contractor shall provide copies of all its permits and inspection certificates to the Construction Manager for their records.
- 7. Contractor is responsible for providing the required testing and certification through an approved agency for all equipment assemblies that require a UL rating.
- 8. Provide start up services, testing, turnover and warranty of all materials and equipment, as per specifications. Submit a turnover plan as part of the submittal process indicating the equipment, testing, reporting and witnessing requirements.
- 9. Contractor shall participate in the commissioning per the specifications.

F. INSURANCE, BONDS AND RELEASES

- 1. The Owner shall procure the Builder's Risk Insurance Policy. The deductible portion shall be paid by the Contractor responsible for any claims against the Builders' Risk Insurance.
- 2. Unless noted otherwise within the Contract Documents, the following insurance shall be provided by Contractor. All costs associated with required insurances shall be included in the Contractor's cost. Contractor must submit proof of Insurance on a standard ACORD form, for that portion of the insurance which remains the Contractor's, such as off-site, automobile, etc., with additional insureds as required, in accordance with the limits below. Coverage for Additional insured shall include both Ongoing operations and Products and Completed Operations on a Primary and Non-Contributory basis. Waiver of Subrogation shall be provided in favor of the Additional Insureds.

Workman's Compensation and Employers Liability

Statutory Limits – Workers Compensation covering all state and local requirements Employers Liability Limits \$500,000 Each Accident \$500,000 Employee for injury by disease \$500,000 Aggregate for injury by disease

Automobile Liability

\$1,000,000 Per Accident for all Owned, Non-Owned and Hired Autos

Commercial General Liability

\$1,000,000 Per occurrence \$2,000,000 Aggregate \$2,000,000 Products and Completed Operations Aggregate \$1,000,000 Personal and Advertising Injury

Umbrella Liability or Excess Liability

\$5,000,000 Per occurrence \$5,000,000 Aggregate

- 3. Contractor to include a 100% performance bond and a 100% payment bond from a surety company acceptable to the Construction Manager. Contractor also required to include bid bond per the specifications.
- 4. Contractor to include with pay applications all required lien releases.
- 5. Contractor shall comply with all insurance regulations as required by local jurisdictions and the contract documents. Additionally, the Contractor is required to provide insurance certificates for each of his subcontractors and material suppliers who will be onsite. All insurance certificates must be submitted prior to start of work onsite.
- 6. Date of Substantial Completion is as follows:
 - a. 1/29/2021 New Building
 - b. 4/5/2021 Site
 - c. 5/17/2021-SWM Project Sign off

Liquidated damages in the amounts stated in the contract documents $(\$1,000/day)^3$ will be assessed in the event a Contractor fails to achieve or contributes to the cause of the failure to not reach any or all Substantial Completion(s) as stipulated.

7. Despite any reference throughout the bid documents to the contrary, a bid bond is required to be in place for a minimum of 180 calendar days from the time of bid.

H. SUBMITTALS AND RFI'S

- 1. Electronic files may be available for use by Contractor for a fee to be determined by the Architect. Contractor agrees to sign waiver and assumes all liability and understands this is solely for their beneficial use for preparation of shop and coordination drawings. Files most likely will be in REVIT format, any costs associated with conversion of files from REVIT to Contractor's required file type, is to be done at the respective Contractor's time and expense. Failure to provide files in a timely fashion does not relieve this contractor of responsibility of submission time frames dictated here-in. Any delay in construction due to a delay in the submittal and or procurement process will be this contractor's responsibility. Any and all acceleration costs of subsequent trades will be the responsibility of this contractor.
- 2. Contractor shall provide all required submittals to the Construction Manager within sixty (60) days after issuance of a "Letter of Intent" or the Contract, whichever is issued first or sooner if necessary to avoid delay to work of all other Contractors. Contractor shall use a submittal cover sheet with all applicable required information completed; conforming and in accordance with the intent of the document.

- 3. No substitutions will be allowed without pre-bid written approval of the Architect and/or Owner, and must be clearly identified as such and conform to Specification Section 016000. Non-conformance submittals which are rejected shall not be cause for schedule delay.
- 4. Contractor to submit for approval one (1) pdf of all submittals for proper distribution to Architect, Consultants, and Engineers for review. Contractor to submit additional hardcopies to Jurisdiction Having Authority upon request at no additional cost. After submittals are approved for use, Contractor to then scan and return one (1) pdf copy back to the Construction Manager for distribution to other trades for coordination. Contractor acknowledges the design team is allotted a minimum of 14 calendar days for review of submittals and cannot claim delay due to submittal review if reviewed within this allotment. Hard copies of submittals shall be provided upon request.
- 5. Within seven (7) days of the issuance of the Letter of Intent or Contract, whichever is first, despite any other reference, the Contractor will forward to the Construction Manager the following:
 - a. Safety Program
 - b. Submittal Log
 - c. Submittal Request Log detailing submittals from other trades required by this contractor
 - d. Closeout Log
 - e. List of Attic Stock Requirements
- 6. RFI's are to be submitted electronically for processing by the construction manager to the design team and owner. Contractor acknowledges the design team is allotted a review time of 7 days and therefore a delayed response is not cause for a delay to the contractor unless over the 7 day review time.

I. SUSTAINABLE DESIGN REQUIREMENTS (LEED)

- 1. Contractor is aware this is a LEED "Silver" project and shall comply in a timely fashion with requests of Construction Manager to properly plan and document this project.
- 2. All Contractors are responsible for LEED requirements per Specification Sections 017419 and 018113 in addition to LEED requirements listed in individual specification sections pertaining to work installed under their respective contract packages.
- 3. In accordance with Specification Section 012900, Contractor to create on the schedule of values a line called "LEED." The mandatory assigned value will be 1% of the total contract value. This is in addition to the retainage requirements of the contract. Monies will be released as determined by contractor's performance, similar to any other line item in the schedule of values.

J. SAFETY

- Contractor shall be required to conduct his activities in a safe manner and shall be responsible for observing the
 safety regulations of MOSH, OSHA, and local life safety agencies. Contractor shall comply with applicable
 laws, ordinances, rules, regulations and orders of governing authorities having jurisdiction including the
 Construction Manager or Third-Party Inspection service, for the safety of persons and property to protect them
 from damage, injury or loss, immediately and without recourse to additional cost.
- 2. The Contractor's personnel, his Subcontractors, and Suppliers' personnel shall at all times demonstrate proper behavior and act in a courteous manner. The Contractor shall remove from the Project or cause to be removed from the Project any such personnel who demonstrate unacceptable behavior (as determined by the Contractor and/or Construction Manager). Removal from the Project shall be permanent.
- 3. Contractor shall furnish, install, provide, and maintain all traffic control (including flagmen) for this Contractor's work as required by the Contract Documents and/or governing authorities having jurisdiction over them.

- 4. Contractor shall furnish, install, and maintain all safety and/or warning signs as required for this work and/or per the direction of the authorities having jurisdiction over the work.
- Contractor shall furnish, install, and maintain all fall protection and barricades, including toe boards, with its scaffolding systems
- 6. 06A Contractor is to furnish, install, and maintain temporary general use fire extinguishers onsite and in building per MOSH/OSHA requirements for general building protection. All Trades are to provide own fire extinguishers, blankets, and any other provisions for burning, welding, soldering, braising, or any hot/fire work performed by the Contractor in performance of their work in any area as specifically necessary.
- 7. Contractor is to erect and maintain, as required by conditions and progress of the work, all necessary safeguards for safety and protection, including fences, railings, barricades, lighting, posting of danger signs, caution tape, flagging, and other warnings against hazards. Contractor is to ensure all of its own work forces and subcontractors are equipped and utilizes required Personal Protective Equipment (PPE) to facilitate its scope. Contractor is responsible for initiating, maintaining and supervising all safety precautions and programs in connection with this contract as related to the scope of work being performed. The Contractor shall provide safe access to his work for the Owner, Construction Manager, Architect, Consultants, Testing Agencies, etc. to inspect and test the work.
- 8. The Contractor shall conduct required Safety Meetings and shall provide a copy of the minutes and attendance list for each meeting to the Construction Manager's Superintendent.
- 9. In the event the Owner or Construction Manager is cited for MOSH/OSHA violations due to, arising out of, relating to, or in any way attributable to actions or inactions by the Contractor and/or by any of its subcontractors, agents, servants, employees, or representatives, the Contractor shall be liable for and shall be responsible for all losses, costs, expenses and damages incurred by the Owner and/or Construction Manager including, but not limited to:
 - a. Legal Fees;
 - b. Fines and/or penalties assessed;
 - c. Reimbursement for employee costs to attend any related meetings and/or proceedings;
 - d. Reimbursement for incidental costs such as document searches, document production, and document copying;
 - e. Increased insurance premiums
- 10. In the event that any work on the project is delayed or disrupted because of any MOSH/OSHA directives or citations arising out of, relating to, or in any way attributable to actions or inactions by the Contractor (and/or by any of its Contractors, agents, servants, employees, or representatives), the Contractor shall be liable for and shall be responsible to pay for all losses, costs, expenses and damages incurred by the Owner and/or Construction Manager.
- 11. If required, Contractors must obtain a Hazardous Materials Permit from Frederick County Department of Permitting Services for any tank, barrel, or container, which contains flammable or hazardous fuel/material. Furthermore, any tank, barrel, or container, which contains flammable or hazardous fuel/material, shall be protected in a manner acceptable to MOSH. This includes, but not limited to, chain-link fencing with posts driven a minimum 2'-6" below grade or 6" steel bollards 8' long driven 3' into the earth 4' on center around perimeter of area. No fuel or any substance may be placed in tanks until condition is reviewed and approved by MOSH or in writing by the Contractor's Safety Officer. Under no circumstance shall any tank, barrel, or container, which contains flammable or hazardous fuel/material, be placed within 10' of any temporary or permanent road.
- 12. Under no circumstance shall trades be working without clear separation from staff and/or students. Contractor includes any and all costs for each employee undergoing the background check as part of the base bid. Employees which fail to comply with this regulation will be immediately removed from the project.

- 13. All contractors working with Portland Cement or a Portland Cement based product, are required to provide Eye Wash Station(s) as required by MOSH or OSHA. Contractor to provide multiple stations located as necessary to comply.
- 14. Perimeter and floor opening protection will be installed and maintained by designated Contractors. If the protection interferes with completion of work, then respective Contractor shall remove and replace the protection in compliance with the CM's Project Safety Plan and all OSHA/MOSH standards. If a Contractor creates a hole, opening, fall or trip hazard, the same Contractor must properly cover, secure and label such hazard.
- 15. All Contractors shall designate a Safety Officer who is required to have and maintain an OSHA 10-hour certification. This Safety Officer can be the Contractors Foreman as long as the Contractor does not have more than 45 workers on site.

K. PUNCHLIST, AS-BUILTS, WARRANTIES, O&M'S AND CONTRACT CLOSEOUT

- 1. Contractor shall maintain a set of as-built drawings as required by the contract documents. Contractor will also assist the Construction Manager with updating the Construction Manager's field as-built drawings. Contractor understands that as-built drawings will be checked on a monthly basis and will be reviewed as a prerequisite to requisition approval. Contractor shall submit three (3) hard copy sets and (1) pdf copy of final certified as-built drawings within ten (10) days prior to substantial completion to the Construction Manager. Contractor shall provide complete operation and maintenance manuals with spare parts list a minimum of ten (10) days prior to substantial completion to the Construction Manager.
- 2. All work to complete lists, inspection lists, etc, shall be completed within ten (10) days of issuance to contractor, or sooner as deemed by the project schedule.
- 3. All punch list work must be completed within twenty (20) calendar days of issuance of such list, distributed via fax, e-mail, or standard mail, which ever format is issued first. In the event the Contractor fails to complete all list items, which pertain to their scope of work, within the twenty (20) day time frame, the Contractor shall reimburse the Construction Manager directly at a rate of five hundred dollars (\$500.00) per calendar day until all applicable punch list items are complete. This is in addition to any other damages clause in the contract. If the Contractor fails to reimburse the Construction Manager directly, within ten (10) days after issuance of the invoice, the Contractor's Surety for the project shall be held liable for compensation and payment to the Construction Manager. The Surety shall issue payment to the Construction Manager within fifteen (15) days of receipt of invoice from the Construction Manager. The issuance of payment and performance bonds to the Contractor by the Surety shall be construed as acceptance of this condition of the contract. In no way does any verbiage or implied conditions of the bond supersede this condition of the contract, nor does enforcement of liquidated damages negate this clause, as liquidated damages are only enforced in regards to a delay to substantial completion; punchlist work occurs after substantial completion.
- 4. In accordance with Specification Section 012900, Contractor to create on the schedule of values a line called "Punchlist". **The mandatory assigned value will be 1% of the total contract value.** This is in addition to the retainage requirements of the contract. Monies will be released as determined by contractor's performance, similar to any other line item in the schedule of values.
- 5. Contractor shall furnish and install touch-up paint at all equipment installed by this Contractor.
- 6. After completion of Commissioning, Contractor shall be responsible for all training and demonstration requirements for all equipment and systems it has installed per the specifications. Contractor includes professional recording of all required training. Media to be provided within seven (7) days of each training session. Either in addition to the training requirements of respective specifications or in the event no training requirements are specified, Contractor to include either an additional or minimum training of 8 hours per

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system installed, to be used at Owner's discretion. All additional training to be tracked via ticket basis, any unused hours shall be credited back to the Owner.

- 7. Contractor shall be responsible for replacing and repairing at no cost to the Owner and / or the Construction Manager any work performed by this Contractor that is determined to be unacceptable to the Owner, Construction Manager, and / or applicable inspectors. In said event, the Contractor shall coordinate and prioritize its work as to eliminate impact to the project schedule.
- 8. Contractor shall guarantee or warranty its work against deficiencies and defects in materials and / or workmanship for two (2) years from the date of substantial completion. Contractor shall furnish all operations manuals, maintenance manuals, cleaning instructions, supplier / manufacturer warranties, and the like for all work performed.
- 9. Contractor shall participate in Project walk through(s) immediately prior to the expiration of all warranties and/or guarantees provided under the work of this contract. Any deficiencies noted will be corrected by Contractor at no additional cost to the Construction Manager/Owner.
- 10. Contractor shall provide start up services, turnover, and warranty of all materials and equipment, as per specifications. Contractor shall submit a turnover plan as part of the submittal process indicating the equipment, testing, reporting and witnessing requirements
- 11. In regards to Project Closeout, Specification Section 017700, Contractor to create on the schedule of values a line called "Closeout Documents and As-Builts." The mandatory assigned value will be 1% of the total contract value. This is in addition to the retainage requirements of the contract. Monies will be released as determined by contractor's performance, similar to any other line item in the schedule of values.
- 12. Contractor to include attic stock per the specifications. Contractor to submit list within 7 days of award the required attic stock per the specifications for review and approval by Construction Manager. Any materials originally intended for attic stock, which were used during project completion will be replaced at no charge to the owner within 20 calendar days following substantial completion. All attic stock will be given in full packaging. Where specifications call for a percentage, material will be rounded up to the next full package. Opened material will not be accepted for attic stock.

L. CLEAN UP

- 1. Contractor to create on the schedule of values a line called "Cleanup." The **mandatory assigned value will be**1% of the total contract value. This is in addition to the retainage requirements of the contract. This is an arbitrary value and not to be construed as the required value of cleanup. Monies will be released as determined by contractor's performance of daily cleanup, similar to any other line item in the schedule of values.
- 2. The Contractor shall provide daily clean-up and disposal of all trash, debris, and excess material generated by this work and or workers. Contractor includes all required brooms, shovels, employee PPE, etc. Means and Methods shall be as required within the Construction Manager's Waste Management Plan for the Project. Should the Contractor's cleanup be unsatisfactory, the Construction Manager shall perform the work at the Contractor's expense, and deduct said costs from respective contractor's contract. A formal notice to cure is not required for Construction Manager to cleanup on the contractor's behalf.
- 3. In addition to the requirement of providing daily cleanup of self generated debris from work and or workers, the 04A, 06A, 09A, 15A and 16A contractors are to include 1 man (must be a Contractor full time employee, providing unsupervised day laborer(s) will not suffice) per every 10 men contractor has onsite, with a mandatory minimum of one man if contractor has less than 10 men onsite. This requirement will be utilized for the 04A, 06A, 09A, 15A and 16A contractors to participate in a composite cleanup crew. Composite cleanup days will be every Wednesday from 7am to 2pm. Construction Manager will provide trash carts, dumpsters and sweeping compounds, all other equipment, PPE or otherwise, i.e. brooms, shovels, etc., are to be contractor provided. As contractor is participating in the general cleanup crew requirements as well as performing own

SECTION 002416 TRADE CONTRACT PACKAGES

ROCK CREEK SCHOOL Frederick County Public Schools

daily cleanup, monies per General Scope Item L-1 will be released as any other line item in the schedule of values. It is anticipated that the contractors will have lulls in work onsite and will assist with trash removal from building with both added manpower and equipment. Each week a different trade will take the lead in this effort, as assigned by Construction Manager.

- 4. Contractor shall be responsible for all street cleaning as necessary for dirt and debris that may be generated by its trucks and / or equipment and including this Contractor's suppliers and subcontractors.
- 5. When performing cleaning work, use only approved HEPA type vacuum units. No "blowing out" (pressure cleaning) will be allowed.
- 6. At the start of final cleaning of spaces, contractors requiring access into spaces to perform work, inclusive of punchlist work, will be required to wear "booties" to help protect finished spaces, provided at contractor's own expense. This will be a zero-tolerance policy, any contractor's forces which fail to comply will be removed from site and respective Contractor is then responsible for all costs with re-cleaning of room(s) as necessary to Owner satisfaction, inclusive of removal of furniture and furnishing(s) if need be.

M. SCHEDULE

- 1. The Construction Manager has issued with the bid a "Preliminary Schedule" to assist Contractors in evaluating when they can be expected to be onsite and the associated duration to complete their work. After award, the Construction Manager will solicit major trades' input on the schedule in regards to sequencing and durations. In the event a Contractor wishes for more time, they will be given an opportunity to submit a request on a first come first serve basis, and if the overall schedule allows, duration changes may be accommodated. **Despite** any reference to the contrary, the Construction Manager is the sole and final judge of durations necessary to complete the work. The Construction Manager will then publish a Construction Schedule with input from the Contractors after the bid, which will be the Project's Baseline Schedule to measure acceptable progress. The Construction Manager will make monthly updates to the Baseline schedule as the job progresses and issue to all trades for their use. If a Contractor fails to maintain scheduled progress, the Construction Manager will issue a notice to cure. In the event the Contractor fails to get back on schedule, or issue a recovery schedule to the Construction Manager within five (5) days, the Construction Manager and or Owner reserves the right to supplement the Contractor's forces with others and deduct all costs from the Contractor's contract balance. Only one (1) notice is required to be issued. Contractor acknowledges The Preliminary Schedule is not the Construction Schedule and is subject to revisions at the sole discretion of the Construction Manager.
- 2. This work shall be performed in accordance with the schedule as updated irrespective of the amount of overtime or level of manpower, equipment, and supervision required. The Contractor shall not be entitled to any damages or other compensation from the Owner or Construction Manager by reason of delay or interruption of its work caused by other Contractors working on the project, weather impact, plan approval and/or permit issuance, or Owner delays, other than a time extension. Incorporated into the project schedule are days for inclement weather based on the last five-year average for the area. Neither the Owner nor Construction Manager will be charged for any incidental stand-by-time by the Contractor, or any of its agents, subsubcontractors, suppliers, vendors, or deliveries.
- 3. Contractor shall maintain at all times sufficient manpower levels to meet scheduling requirements and avoid delay to other phases and or trades work. The Construction Manager shall determine whether the Contractor's manpower level is sufficient to diligently execute the work.
- 4. Contractor shall be responsible for coordinating his work with the other trades so that conflicts are avoided and that the expeditious progress of the project is not hampered. Any Contractor who believes that a potential conflict may exist shall notify the Construction Manager immediately and follow-up in writing within three (3) days.

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- 5. The Contractor agrees that if, in the good faith judgment of the Construction Manager, the Contract completion date will not be met, the Contractor shall immediately, without any further direction, take any and / or all of the following actions and any other additional actions as otherwise directed by the Construction Manager, necessary to insure timely completion, at no additional cost to the Construction Manager and / or Owner:
 - Increase the Contractor's resources, equipment and manpower in such quantities and crafts that
 will insure, in the good faith judgment of the Construction Manager, timely completion of the
 Contract completion dates.
 - Increase the number of working hours per shift, shifts working per day, working days per week, the amount of construction equipment, and/or any combination thereof, that will insure, in the good faith judgment of the Construction Manager, timely completion of the Contract completion dates
 - Reschedule activities to achieve maximum practical concurrency of accomplishment of activities
 that will insure, in the good faith judgment of the Construction Manager, timely completion of the
 Contract completion dates
- 6. The 02A, 03A, 04A, 05A, 06A, 07A, 09A, 15A, 15B, 16A Contractors shall be required to work Monday through Saturday as part of the base bid costs. All other Contractors must work Monday through Friday, forty (40) hours minimum work week, as part of the base bid. Jobsite hours are as follows:

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Monday – Thursday – 6:30am to 4pm
Friday- 6:30am – 3:30pm
Saturday – 6:30am – 3:30pm
Sunday – As required, coordinated no later than Wednesday prior
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In the event a trade such as a mason wants to work over the weekend, regardless of losing or not losing hours during the work week, the MEP trades should adjust manpower accordingly during the week to avoid unneeded overtime. This overtime will not be paid by Owner or Construction Manager.

In addition, if any hours for any trade is lost during the typical Monday through Friday work week due to weather, Saturday(s) will be the mandatory makeup day(s) until lost weather hours during the week are made whole. Lost weather is viewed on a per project basis, not a per week or month basis.

- 7. Contractor is aware of and will comply with all required noise ordinances and levels as prescribed by any and all Authorities Having Jurisdiction (AHJs), including but not limited to the Town of Walkersville, Frederick County, and the State of Maryland.
 - Decibel (db) levels are measured at the project's property line. In the event a fine is issued for failure to comply, the offending contractor, as determined by Construction Manager, will be backcharged same amount. Contractors which will knowingly exceed these decibel levels must apply for a temporary exemption with the appropriate AHJ.
- 8. Multiple mobilizations may be required and are included within this Contractor's work as needed.
- 9. This contractor understands that other contractors may be on site during the work of this contract. Contractor agrees to make every effort to cooperate and coordinate the schedule of the work with that of the other Contractors as to not delay the project. Contractor shall coordinate on a daily basis with other Contractors and Construction Manager to avoid conflicts in installation. Correction or re-installation of work due to lack of coordination will be done at no cost to the Owner or Construction Manager.
- 10. Notwithstanding any other provision of the Contract Documents, Contractor agrees that in no event shall it make a claim or other demand for any delay, disruption or hindrance to the prosecution of the Work, unless Contractor is subjected to a complete and full work stoppage resulting in a continuous delay, disruption or hindrance in the prosecution of critical path Work of five (5) days or longer due to causes beyond its fault or control, in whole or in part.

N. PAY APPLICATIONS

- 1. The Contractor shall provide a Schedule of Values with a detailed breakdown per building area within 10 days of award. General conditions shall include cost of bond(s), general cleanup, and contract closeout cost stipulations only. All mobilization, material, equipment and installation costs shall be included in each line item.
- 2. The Owner and Construction Manager shall have the right to access and audit the Contractor's project records and documents as necessary to verify that Contractor has complied with all the terms and conditions of the contract. In the event of a claim by the contractor against the Owner, the Owner and Construction Manager shall have the right to access and audit all of the Contractor's records, books, estimates, correspondence, instructions, drawings, receipts, vouchers, memoranda, and similar data relating to the claim. All change order cost paid to the Contractor on a cost reimbursable basis shall be subject to audit by the Owner and Construction Manager. Audit of change orders cost may require access to the supporting documentation of the lump sum contract. The Owner shall also have the right to audit all the related records of subcontractors who are paid on a cost reimbursable basis. Contractor shall include a clause to this effect in its contract with subcontractors. Contractor and subcontractors shall preserve all project documents for a period of three (3) years after final acceptance of the project by the Owner.
- 3. Notwithstanding anything to the contrary elsewhere in the contract documents, the Owner will pay the Contractor cost only (no markup) for materials stored onsite or at an approved offsite location. The Contractor shall provide manufacturer/supplier invoices to validate amounts requested. Stored materials must be onsite or at the approved offsite location at the time the Contractors draft requisition is submitted to the Construction Manager. In addition to supplier invoice(s), bill of sale and insurance certificates must be attached to the draft requisition. Approval of stored materials are also subject to inspection at offsite facility by Owner and/or Construction Manager. Contractor includes all costs related to travel expenses in the event the Owner and/or Construction Manager wish to verify stored materials offsite. Failure to comply with any or all of these requirements will result in the billing of stored materials being rejected
- 4. Pay applications are due as follows:
 - No later than the 20th of each month, projecting to the end of the month, Contractor to submit draft application to Construction Manager via pdf/email.
 - No later than the 25th of each month, the Owner, Architect and Construction Manager to review and make comments on draft applications, and return comments via pdf/email back to the Contractor for revision
 - No later than the 28th of each month, Contractor to submit final pdf for confirmation by Construction Manager, at which time Construction Manager will advise final hard copy to be sent to main
 - No later than the 30th of each month, Contractor to have mail final hard copy to Construction Manager's main office for processing and subsequent payment

O. POTENTIAL CHANGE ORDERS

- 1. Change order rates shall be based upon the wage scale (minimum) as issued as part of the Contract Documents in section 004343-Prevailing Wage Requirements.
- 2. Contractor is responsible for the review of the complete Contract Documents for their scope of work and coordination with contiguous work. All drawings and specifications must be read in conjunction with each other. Contractor recognizes that the plans and specifications are not necessarily complete, refined or detailed for construction of the Project. Contractor represents it is experienced in the construction of similar projects and realizes that refinement, detailing and final completion of design will occur <u>at no cost increase unless there is a major change in scope issued by the Owner, Architect, or Construction Manager. Contractor agrees that his Trade Contract Price anticipates and includes the cost for the refinement, detailing, and completion of the final design. Contractor further understands and agrees to</u>

no change in the Trade Contract Price is to result therefrom, unless scope of this work is changed due to an Owner change. Contractor further agrees it has included in its price those contingencies, by its expert view and its understanding of similar projects, necessary to provide a complete project as anticipated by the Design guidelines and per all Contract Documents issued. Additionally, Contractor shall work with Construction Manager and the Designers to assure the work is not altered, modified or transformed from the Design Intent. Contractor agrees that in no event will it seek additional monies or compensation for changes required by the Contract Documents to meet the initial RFP and/or code requirements, unless the change is Owner initiated and Owner paid. 3

- 3. All costs for proposed changes in work must be submitted within fifteen (15) calendar days from the date of written request (letter, meeting minutes, fax, email, etc). In the event the Contractor fails to submit a complete itemized proposal within the timeframe Contractor will be contractually bound to accept the following:
 - I. Additions Contractor will proceed at no cost change or time extension and will perform the work at once or when required in order to avoid any impact to the Project's schedule as directed by the Construction Manager.
 - II. Credits The construction Manager will estimate the cost of the credit and the Contractor will be bound to accept a deduct change order for the amount as estimated by the Construction Manager
 - III. **T&M** In the event the Contractor is directed to proceed with extra work on a time and material (T&M) basis, Costs for this work must be submitted as an itemized proposal within ten (10) calendar days from the date the work was actually performed and verified. Any T&M tickets not signed by the Construction Manager or Owner on the date(s) the work was performed will be rejected and any payment denied.
 - a. A complete itemized proposal includes but is not limited to:
 - b. A copy of the document which initiated the change
 - c. Change request format sheets as found in the specifications or as provided by the Construction Manager
 - d. Contractor's itemized breakdown take off
 - e. Subcontractor's itemized breakdown take off (as necessary)
 - f. Rental ticket invoices, material invoices, vendor invoices
 - g. Any other backup as requested by the Construction Manager or Owner.

P. MISCELLANEOUS SCOPE

- 1. CM's field office facilities, telephones and facsimiles are not for Contractor use.
- Smoking, Vaping and use of tobacco products onsite or within the building shall not be permitted.
 Smoking/Vaping areas shall be located no closer than 20 ft. from the property line. Compliance shall be in accordance with LEED and the Drug Free School Zone Policy.
- 3. Contractor agrees to bind every Sub-Contractor and Vendor by the terms of the Contract Documents and this Agreement; however, it shall not be construed as creating any contractual relations between any of the Sub-Contractors or Vendors and the Construction Manager.
- 4. Contractor shall be required to store material in an area designated and agreed upon by the Construction Manager's Superintendent. Contractor acknowledges specified laydown, staging, etc. areas may have to be

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adjusted/relocated during the course of construction, Contractor agrees to be in compliance at no additional cost to Construction Manager or the Owner

- 5. The Contractor will provide full-time, onsite, competent, English speaking supervision and adequate facilities in order to coordinate and supervise the work. The onsite representative is to be authorized to make decisions on the contractor's behalf. The onsite supervisor is not to be utilized to operate equipment. This supervisor is to be a full-time employee of the Contractor. Utilization of a subcontractor or lower tiered subcontractor as the Contractor's representative will not be tolerated. Contractor will be backcharged \$250/day for each day there is lack of competent, English speaking, Contractor full time employed supervision.
- 6. The Contractor shall attend weekly Foreman's Meetings as scheduled by the Construction Manager. The Meeting Agenda shall include general site issues and detailed discussion of work to be performed for the following two (2) weeks. Failure to attend foreman's meeting will result in a \$250 backcharge for each unattended meeting starting 2 weeks prior to mobilization through punchlist completion.
- 7. The Contractor's assigned Project Manager shall attend a Project Manager's Meeting, initially every six to eight weeks, as the job progresses they will be monthly. Agenda to include status of submittals, RFI's, change requests by Owner or Design Team, procurement issues, manpower, inspections, testing, closeout documents, etc. Failure to attend a scheduled Project Manager's Meeting will result in a \$250 backcharge for each unattended meeting starting 2 weeks prior to mobilization through punchlist completion. This is for Project Manager's, not superintendents, foreman, lead foreman etc.
- 8. The Contractor's assigned Project Manager and onsite supervisor must have the physical capabilities to exit their vehicles and walk the jobsite on a day to day basis. No special accommodations will be made by the Construction Manager.
- 9. Contractor will provide field reports for its own forces and all of its Subcontractors' to the Construction Manager's field Superintendent on a daily basis. These reports must include at a minimum, manpower (detailed by classification of workers), activities performed (detailed by Area of the building or site), and equipment utilized. This is considered a prerequisite for release of payments to the contractor.
- 10. The Contractor is advised that surrounding facilities will remain operational throughout the entire duration of the contract. The Contractor shall conduct his operations in such manner to avoid any disruption to the surrounding facilities.
- 11. The Construction Manager will establish building control lines (one north-south and one east-west) and an elevation benchmark. All Contractors shall provide any additional layout and survey work required for work installed under their respective Contract Packages.
- 12. Contractor shall perform its own survey of existing conditions and notify the Construction Manager of any discrepancy prior to the start of the Contractor's work. Start of work shall constitute this Contractor's acceptance of the existing conditions.
- 13. Contractor shall provide all material and labor associated with the fiber work inside of the existing Walkersville Middle School to bring back the conditions to their original condition or better after the 16A Contractor has finished their work. 06A Contractor shall be responsible for any selective demolition work and all other trades are responsible for their respective trade work.
- 14. Contractor is responsible for providing a complete and operational scope of work in accordance with the Contract Documents and all state, county, and local authority having jurisdiction over the work.
- 15. Contractor has a full understanding and knowledge of contract documents and takes full responsibility for their implementation and coordination.

- 16. Contractor is responsible for dewatering any and all excavations created by this Contractor caused by any means including rain water, run-off from perimeter properties, underground water, leeching water, underground streams, and the like. Contractor is responsible for cleaning of substrate which Contractor's work is to be applied to, i.e. cleaning of footings in order to start masonry.
- 17. If there are Owner, Construction Manager, or other trade furnished items that are to be installed by the Contractor, the Contractor must provide a minimum of forty five (45) day written notice to the Construction Manager prior to the installation date of each item. The Contractor shall be liable for costs associated with delay should this Contractor fail to meet this requirement. This Contractor shall schedule, receive, inspect, inventory, store, rig, and install all items furnished by others that are to be installed by this Contractor. Contractor is responsible at the time of delivery for the verification of these items for correctness, and shall report any discrepancies in writing to the Construction Manager within forty-eight (48) hours. If discrepancies are not reported within that time frame, the Contactor shall be responsible for those items in its charge.
- 18. Contractor shall schedule all material and equipment deliveries through the Construction Manager. Contractor shall phase, sequence, deliver, and store its materials and equipment in a manner which provides full and continual access for all trades. Contractor to coordinate night work as required keeping continual access to the site with the Construction Manager.
- 19. Contractor shall be responsible for the site / building in its charge. It shall protect adjacent and its own work and materials from soiling or damage.
- 20. Contractor shall furnish all access doors and frames in all walls, floors, and ceilings as required for its work under this contract whether they are indicated in the contract documents or not. Contractor shall coordinate the locations of all access doors with the Construction Manager. Installation of all trades access doors is by the 09A Contractor.
- 21. Contractor includes all fire/smoke stopping, stuffing with rockwool, firecaulking, sound and/or weather sealants etc at all penetrations required for own work. This is to be at both sides of walls, floors, etc., as applicable
- 22. Contractor is responsible for contacting and coordinating with Miss Utility and or a private utility locating company for locating and marking existing utilities if required to perform this work
- 23. Contractor to submit a truck route plan within 30 days of notice of award. Strict adherence to approved plan will be enforced. Complaints by the neighborhood will not be tolerated, contractor will be held accountable via backcharge of \$250 per complaint.
- 24. It is recommended Contractor submit a 3rd party detailed preconstruction survey of access, roadways, sidewalks, existing facility, etc prior to mobilization (in the form of video, photos, etc.). In the event it is determined access points and roadways to the site are damaged and must be replaced, all contractors will share in the cost as determined by the Construction Manager if a 3rd party preconstruction survey cannot prove otherwise.
- 25. Contractor includes any and all temporary utilities, i.e. water and power, to perform its work as permanent utilities may not be available for use. Construction Manager will provide temporary toilets for Contractors use.
- 26. Contractor shall coordinate with all other trades regarding built-in and embedded items required by the Contract Documents
- 27. Contractor shall furnish and install covering and protection for all equipment provided or installed by this Contractor.
- 28. Contractor shall provide for all its material deliveries, hoist equipment with operators, hot / cold weather protection (including tenting, heaters, and enclosures), scaffolding, and related items needed for work to proceed expeditiously, and without interruption.

- 29. Contractor shall furnish and install all waterproofing and counter-flashing of its work when it penetrates the completed roof system, walls, and any other weather barrier surfaces. Any work performed by other contractor's in having to go behind and make this contractor's penetrations weather-tight will be back-charged to this contractor.
- 30. Contractor shall include material and labor cost increases for the duration of the project. Unless specifically noted otherwise in contractor's specific scope of work, no escalation will be entertained. All material, labor and equipment escalation costs are inclusive with the Trade Contract and therefore have been fully priced according to the baseline completion dates.
- 31. This project will utilize 3D Building Information Model (BIM). A base model will be provided by the design team, and shall be used to develop a more detailed model for construction purposes. The Construction Manager will hire a third-party BIM Information Manager. The 05A, 09A, 11A, 15A, 15B and 16A Contractors are responsible for the development of a 3D model to BIM LEVEL 300 for all components of work installed under their respective contract packages. This model will be used as the basis to produce shop drawings and as-builts, as well as for coordination, fabrication, and installation. All models are required to be developed utilizing software that is compatible with Navisworks and Revit. 3D models provided by the Contractors, will be integrated into and coordinated with the base model, by the Construction Manager. The 05A, 09A, 11A, 15A, 15B and 16A Contractors will be required to attend weekly online "GoTo meetings" for the purpose of coordination and conflict resolution. All Contractors are responsible for the timely submission of hard copies of shop drawings for work installed under their contract package. Failure, by a Contractor, to submit a 3D model in a timely manner will result in that Contractor being responsible for any and all costs incurred by others for necessary modifications. Failure to properly coordinate work will be corrected in the field at no additional cost.
- 32. Contractors are reminded that the project site is a school first and a construction site second. Contractors cannot disrupt instruction and learning at any time. All deliveries must be scheduled through the Construction Manager 48 hours prior to delivery.
- 33. Every effort has been made by the Construction Manager to correctly make all numerical references. In the event a Specific Scope item incorrectly numerically references another Specific Scope item within own package and or other trade package, and or Specification Section, Contractor includes intent of Specific Scope item as if numerical reference was correct.
- 34. Contractor includes all provisions and labor necessary to construct all mockups listed throughout the construction documents and specifications.

Q. SPECIAL CONSIDERATIONS

- 1. Strict adherence to all Noise Ordinances. Trucks will not be able to stage prior to normal working hours in accordance with the Ordinance. Please note, backup alarms and idling diesel engine's exceed noise ordinance limitations prior to 7am.
- 2. Excavation and/or drilling work under this contract is unclassified to design sub-grade, and includes but not limited to, excavation and removal of soil, shale, rock, fill, abandoned utilities, abandoned tanks, abandoned wells, abandoned structures, and any and all other subsurface conditions encountered in the contract area to each respective trade's lowest design elevation in same area. The Contractor shall make his own soil and subsurface investigations, examination, tests, and exploratory borings of existing subsurface conditions to determine the nature of the soil conditions underlying the project site and thereby assuming all responsibility in excavating for this project without recourse to subsurface information obtained from the engineer, or indirectly from the Owner. The risk of unanticipated soil conditions from current elevations to this trade's lowest design elevation in same area is solely the Contractor's. No extra or additional compensation for excavation or claim otherwise will be made or paid under this contract until added excavations below this trades lowest

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design elevation in same area are required. Contractor is responsible for furnishing and placing any import fill material that may be required to complete the work.

- 3. Specific scopes of work apply to the main building scope as well as any indicated outbuildings located within the sites limit of disturbance and requiring similar work being performed under this contract
- 4. Minimal parking will be allowed onsite due to space restrictions. It is strongly recommended contractors try to carpool or utilize public transportation as much as possible. Workers personal vehicles will not be permitted to park onsite or adjacent to the building pad. Foreman or Superintendent parking will be restricted to a small designated parking area which is on a first come, first serve basis.
- 5. Contractor includes cost and filing for Federal Aviation Authority Permit as required. This permit is required for all buildings, structures (permanent and otherwise), equipment, scaffolds, cranes, pumps, etc which are over 39'-11" in height.
- 6. Daily food trucks will not be permitted on site. Eating within the building footprint will not be tolerated at any time during construction. Contractors are to consume food either off site or within personal vehicles. All trades are to properly dispose of food trash either offsite or to Construction Manager provided dumpster(s). In the event food trash needs to be collected from the grounds of the site, there will be zero warning to trades and all trades onsite will be backcharged cost plus 15% equally, despite respective quantity of workers onsite for the first offense. Second offense will be cost plus 20%. Third offense will be cost plus 25%, and so on.

END OF GENERAL SCOPE OF WORK SECTION

PART 2 - SPECIFIC SCOPE OF WORK

- 1. Contractor has reviewed and understands the Contract Package / Specification Cross Reference listed under Section 002413.
- 2. Contractor includes General Scope of Work listed under Part 1 of Section 002416.
- 3. Contractor shall provide all labor, material, equipment, and supervision necessary for and reasonably incidental to the completion of the Site work in accordance with the complete set of Contract Documents.
- 4. The Contractor shall perform at least 30% of this Package by cost with the Contractors own, in-house work forces. Subcontracting or brokering more than 70% of the work shall not be permitted.

Earthwork and Site Demolition Specific Scope:

- The 02A Contractor will assume all responsibility for the M.D.E. Storm Water Management discharge permit from
 notice to proceed to substantial completion as necessary. The Owner will transfer the permit to the 2A Contractor
 when received. After substantial completion, the 02A Contractor will transfer the permit back to the Owner as
 necessary.
- 2. The 02A Contractor shall remove trees, shrubs, grass, and other vegetation, improvements, or obstructions, as required, to permit installation of new construction. Site clearing and grubbing, including removal and disposal, shall be as indicated on the plans. The contractor will acknowledge locations of all protected foliage per the plans and specifications prior to the start of any work, and will be responsible for installation, root pruning, signage, etc and maintenance of this protection while contractor is on the project. This Contractor includes dressing up and stabilization around Construction Manager and Owner trailers and removal and restoration of area at project completion.
- 3. The 02A Contractor will provide all required fill material in accordance with Contract Documents to bring site to final design elevations. The 02A Contractor shall carefully examine site prior to commencing operations. The site is unclassified. The 2A Contractor will be responsible for all excavation down to design subgrade elevation regardless of material being excavated, including rock, at no cost to the Owner. If material excavated exceeds the optimum moisture content, the 02A Contractor shall dry the material prior to reuse and/or stockpile and spread for reuse in another area. If drying cannot be achieved in a timeframe within schedule constraints or within coordination of work with other trades, the 02A Contractor shall remove and legally dispose of offsite and haul in suitable material as part of base bid cost. In the event the material excavated to design subgrade elevation is found to be unsuitable, the 2A Contractor shall remove and legally dispose of unsuitable material offsite and haul in suitable material as part of base bid cost. Proof roll the area prior to placing fill to verify acceptability of substrate.
- 4. Despite any reference to the contrary, blasting is not allowed.
- 5. The 02A Contractor includes demolition and removal of masonry mockup panel(s) and foundation as directed by Construction Manager.
- 6. The 02A Contractor shall furnish, install, maintain and remove at the direction of the Construction Manager and/or any governing agency all temporary sediment and erosion control measures and devices, and stabilized construction entrances. For all permanent storm water management areas & permanent sediment traps required by the Contract Documents, the 02A Contractor is responsible for bulk excavation, grading, shaping, safety fencing, stabilization, and pipework. At temporary traps, the same scope as permanent applies, and the 02A Contractor has mucking, backfill, fill and compaction, back to subgrade. Permanent landscaping is by the 02A Contractor. The 02A Contractor is also responsible for any and all temporary erosion and sediment control measures as specified in Specification Section 015000.
- 7. The 02A Contractor is responsible for all snow and ice removal onsite throughout duration of project at all construction areas. Contractor should anticipate normal inclement weather conditions as defined by the 5 year

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average. The 02A Contractor shall grade all ruts on jobsite before any rain/snow events to maintain positive drainage.

- 8. The 02A Contractor is responsible for all temporary seed required for the site stabilization including maintenance and watering as required per the specifications.
- 9. The 02A Contractor is responsible for removal of multiple centrally located spoil stockpiles generated by utilities, footings, walls, electrical excavations, plumbing excavations, pits, etc. provided there will be no design grade / elevation changes from the contract documents.
- 10. The 02A Contractor is responsible for own dust control on site until project completion. This is limited to dust control created by the 02A package and various site activities (all vehicles and equipment maneuvering throughout the construction area). The 02A package is not responsible for controlling dust generated from within the building or building pad, or from cutting/mixing operations unless dust is created from a direct operation of the 02A contractor.
- 11. The 02A Contractor is to provide watering trucks for wet down of access roads, daily from April through November to eliminate Construction Activity Dust Pollutants for the duration of the project.
- 12. The 02A Contractor is responsible for all sheeting and shoring requirements to perform this scope of work if required. Contractor to coordinate final location with Construction Manager, 03A, 04A, and 05A contractors. Contractor is responsible to coordinate design loading of sheeting and shoring with live load operations adjacent to sheeting and shoring to allow all contractors to perform their work. Contractor to include temporary barriers, fences, wire rope railings and angles at all locations for safety reasons. Contractor to include jersey barriers at areas of construction traffic roadways. 02A Contractor shall furnish, install and maintain orange safety fence around the entire perimeter of all storm water management facilities. Orange safety fence shall be installed as required while the work is being performed or as directed by the Construction Manager. Orange fence is in addition to the required perimeter fencing.
- 13. The 02A Contractor shall provide for all site demolition shown or implied to include, not limited to, the complete demolition, removal, and disposal of all existing curb & gutter, asphalt paving & sub-base, concrete paving & sub-base, concrete sidewalks, concrete walls, concrete foundations, underground utilities, fences, gates, rails, ball hoops, signs, plants, lights, parking bumpers, backstops, courts, decks, wood ramps, monitoring wells, posts, nets, post footings, field equipment footings, walls (both permanent and temporary), and the like. The 02A Contractor shall be responsible for salvage, protection, storage and relocations of existing site items as indicated and/or specified. All demolished items shall be removed and legally disposed of by this Contractor.
- 14. The 02A Contractor understands that the construction entrance(s) may have to be removed, altered, repaired, and / or replaced in order for the permanent storm system, water system, and electrical system to be installed. It shall be the 02A Contractor's responsibility to remove, alter, repair and / or replace and consistently maintain any and all aspects of the construction entrance for these systems to be installed. The 02A Contractor shall coordinate and prioritize its work as to eliminate impact to site access and / or the project schedule.
- 15. The 02A Contractor shall establish rough grade to within ± 0.10' sub-grade, to include proper compaction and elevations for sidewalks, pavements, drives, curbs, landscape, and / or topsoil areas. Landscape, topsoil and other open areas (excluding ball fields and play areas) to be graded to within +/- 0.20' of design elevation. The 02A Contractor shall furnish and install the backfill for curbs, gutters, and sidewalks to re-establish rough grade.
- 16. The 02A Contractor shall establish rough grade to within \pm 0.10' sub-grade, to include proper compaction and elevations for building pad for acceptance by 03A Contractor.
- 17. The 02A Contractor shall establish rough grade for the installation of the pool Initial grade to be brought within +/-0.10' of the pool deck subgrade elevation. After final shop drawings are approved, this contractor is to coordinate with the 13A Contractor for requirements of needed excavation, and this contractor is to perform mass excavation and subsequent backfill of pool installation.

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- 18. Backfilling of all site walls, site foundations, and site slabs are the responsibility of the 02A Contractor.
- 19. The 02A Contractor shall will be responsible for any damage to existing roads, adjacent surfaces, curb and/or gutter damaged by the 02A operations.
- 20. The 02A Contractor shall prepare subgrade including furnishing and installing stone as required to tie in new asphalt and or concrete to existing at all required locations.
- 21. The 02A Contractor shall provide all fine grading and proof rolling as necessary prior to the installation of the subbase course at asphalt areas.
- 22. The 02A Contractor shall provide all fine grading and proof rolling as necessary prior to the installation of concrete curb, gutter and flatwork.
- 23. The 02A Contractor is responsible to protect sub-base for concrete and asphalt work from weather, to ensure construction activities proceed on schedule.
- 24. The 02A Contractor shall furnish and install all stone under all flatwork concrete. Stone to be installed immediately prior to placement of concrete.
- 25. The 02A Contractor shall excavate, furnish and install #57 stone under exterior doorways, a minimum of 3' out from door or longer if door leafs are longer than 3', by width of doorway plus 1', by 3' deep. Coordinate isolation of two slabs to align with concrete scoring patterns as practical. Dimensions listed herein are minimum dimensions. Should the Contract Documents show greater dimensions then they shall take precedence.
- 26. The 02A Contractor shall furnish and place stone subgrade as required to establish proper elevations prior to asphalt paving.
- 27. The 02A Contractor shall grade all backfill so that water runs away from any structure.
- 28. The 02A Contractor includes all required termite control as required per the Contract Drawings and Specification Section 313116. The 02A Contractor is also responsible for all pest control as specified in Section 015000.
- 29. The 02A Contractor shall install and maintain all stabilized trailer/sea cans area and staging areas as indicated on the Site Utilization plan. At the direction of the Construction Manager, the Contractor shall remove and restore areas to a finished condition. In the event that the stabilized trailer staging area is installed at, around, or near any existing or future utilities that may need to be removed, repaired, and / or installed, this Contractor shall remove, adjust, and / or repair sections of these stabilized areas as necessary. The intent is for the 02A Contractor to install the underground SWM area at the West side of the site, under the new parking lot, as soon as possible and then stone, curb and base pave this lot to use as a staging/laydown area. Subsequent to the majority of construction of the new building, this lot will then be cleared and final paved prior to school opening, anticipated in Spring of 2021.
- 30. The 02A Contactor shall furnish, install, and maintain suitable temporary construction access roads as shown on the Site Utilization plan. Suitable maintenance of the access roads is defined as continual focused effort of turning over of stone, adding stone as needed, to minimize and or eliminate tracking. It is 02A responsibility to add new stone and fabric to achieve this suitable maintenance. The 02A Contractor shall remove the temporary roads and perform all necessary re-grading and restoration upon receipt of direction from the Construction Manager. Roads shall be adequate to support all construction traffic and equipment. The roads at a minimum shall be 20' wide, constructed of stabilizing cloth and 8" of #2 stone. At crane pad locations, assume two (2) locations comprised of 18" of gabion stone, capped with 6" of #2 stone for a total section of 24". Damming of water will not be tolerated. Any temporary piping to allow drainage across roadways or crane pads is considered incidental and part of base bid costs. In the event that the stabilized area is installed at, around, or near any existing or future utilities that may need to be removed, repaired, and/or installed, this Contractor shall remove, adjust, and/or repair sections of these stabilized

Dustin Construction, Inc. 02416-02A-3 areas as necessary at no additional cost to Owner or Construction Manager. Asphalt millings and or "crusher run" will not be accepted at any roadways or crane pads.

- 31. Limits of new building pads shall extend a minimum of ten (10) feet beyond the building footprint where applicable around the entire perimeter of the building. Final grades shall be temporarily adjusted as necessary to meet this requirement. At the direction of the Construction Manager, the Contractor shall re-grade around the perimeter of the building to the final grades required by the Contract Documents inclusive of removal of temporary ring road(s) or parking areas. Backfilling of all building walls, foundations, and slabs shall be the responsibility of the 03A Concrete Contractor unless noted otherwise herein.
- 32. The 02A Contractor will close or cover all subgrade or excavation at the end of each work day unless exempted by Construction Manager's representative. Any unsuitable conditions caused as a result of contractor's failure to protect exposed subgrades will be remedied at contractor's sole expense and at no cost to the Owner or Construction Manager.
- 33. The 02A Contractor is responsible for removal of multiple centrally located spoil stockpile generated by all trades onsite, provided there will be no design and or grade and or elevation changes from the contract documents. For informational purposes only, this is anticipated to be approximately 4,500 cy, however this is in no way be interpreted as a stipulated sum, allowance or formal direction of quantity. Contractor is encouraged to perform own takeoff for this work as a full contract document set has been issued for use. Contractor is responsible for removal of any and all excess.
- 34. The 02A Contractor shall saw cut, remove, and dispose of existing asphalt as directed by Construction Manager. It is the intent to leave as much existing hard surface in place as long as practical.
- 35. Steel plates or other means need to be utilized to ensure traffic flow in and out of school site at all times as well as when working in public streets to allow continuous traffic flow.
- 36. The 02A Contractor shall install and maintain all wash rack(s) as directed by the Construction Manager. Contractor shall also be responsible for providing water to the wash rack(s) for respective trades own use. This system is to include water source, power source, pumps and hoses, and other necessary appurtenances. If hydrants are to be used, the 02A Contractor must procure, pay for, and utilize a water meter and backflow preventer. The 02A Contractor includes relocation and removal as necessary and directed by the Construction Manager.
- 37. During site grading operations, if contaminated soils are encountered, the 02A Contractor is to excavate and centrally locate a contaminated spoil stock pile onsite. The 02A Contractor will then be reimbursed via unit rates in the contract to either transfer suitable material onsite, or if directed, bring in new from offsite. All contaminated soil removal from site shall be by the 02A Contractor and reimbursed at cost per established unit prices in Specification 012200. Contractor acknowledges the difference between contaminated and unsuitable soils.
- 38. The 02A Contractor is responsible for keeping the streets clean of construction debris, mud, dirt etc. only if caused by this contractor's failure to properly maintain the construction entrance, stoned roadways, access roads, wash rack, etc. Maintenance of roadway debris caused by other contractor's general neglect to properly use the equipment and facilities provided by the 02A Contractor or Construction Manager, will be the respective contractor's debris to clean up and not the responsibility of the 02A Contractor.
- 39. The 02A Contractor is solely responsible for own fire protection and safety while onsite. This includes but is not limited to signage, barricades, fire extinguishers, covers, etc.
- 40. The 02A Contractor will engage the services of a private utility locating company and will test pit to further locate existing utilities prior to commencing with work under this contract package.
- 41. The 02A Contractor shall install and maintain two (2) 4" PVC sleeves under site access road and cap for temporary power/telephone/cable at three locations. This is to be buried a minimum of 3 feet below proposed existing grade or proposed grade whichever is lower.

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- 42. Stockpiling of topsoil onsite by the 02A Contractor will be extremely limited due to space restrictions. In the event there is a limited area available for 02A use, contractor shall strip, screen, stockpile, protect, test, amend and stabilize all topsoil as required by the contract documents and governing jurisdiction having authority requirements. The 02A Contractor shall re-spread topsoil in all areas provided the topsoil meets project standards as indicated on drawings. Topsoil on ball fields shall be motor graded to within plus/minus 1/10 of a foot of the design elevation. Maximum size of screen shall be ³/₄" sieve. Topsoil shall be a 4-8-inch layer, lightly compacted to minimum thickness of 4 inches. The 02A Contractor shall supply tested, screened, amended topsoil from offsite if and / or when the onsite quantities are insufficient.
- 43. The 02A Contractor to test and make all amendments to bring topsoil material within project specifications (topsoil amendments, sand (if required), organic matter, planting soil mix, anti-desiccant, tree paint, herbicide, etc). It is the contractor's responsibility to submit test results to Construction Manager for approval with required recommendations to bring material within project specifications, prior to the start of any topsoil work. This requires the Contractor to hire a third party independent testing agency for testing and soil amendment recommendations.
- 44. The 02A Contractor shall provide and install all forest conservation requirements to include, but is not limited to, all arborist reports, root and tree pruning, tree protection signs and fencing, deep-root fertilization, crown reduction, watering, vertical mulching, and all other items as required.
- 45. The 02A Contractor is to maintain grass cutting, tree and shrub trimming, and landscaping, throughout the duration of the construction project within the established LOD.
- 46. The 02A Contractor is to furnish, install, maintain and remove the temporary fencing as required. In general, the temporary fence shall mimic the Property Line, Limits of Disturbance, as well as Project Phasing. Contractor shall furnish, install, and maintain "No Trespassing" signs on all temporary construction fencing and gates at intervals of no greater than 100'.
- 47. 02A Contractor shall be required to mobilize and re-mobilize to the site at the Construction Manager's direction as part of base bid cost.

Site Utilities Specific Scope:

- 1. The 02A Contractor includes all bonds for Right of Way Work. Contractor shall comply with all MDOT rules and regulations for the work within Public Right of Way required for work being completed under this package.
- 2. The 02A Contractor will be responsible for entering into a Public Works Agreement on behalf of the Owner, as necessary. The cost for the work, permits, bonds, any estimates, and other administrative costs are to be included in base bid price inclusive of costs to obtain and install water meter⁴, despite any reference to the contrary. Once in service, monthly service fee for domestic water will be by Construction Manager until turned over to Owner at substantial completion.
- 3. The 02A Contractor shall furnish and install all storm water management facilities complete.
- 4. The 02A Contractor shall furnish, install, and maintain all structures, manholes, clean outs, and the like associated with its work as required by the Contract Documents for the entire duration of the project.
- 5. The 02A Contractor shall furnish, install, and maintain all concrete, reinforcing, rip-rap, stone and filter cloth related to this work for the entire duration of the project.
- 6. The 02A Contractor shall furnish and install all river rock, and level spreader gravel as indicated.4
- 7. The 02A Contractor shall furnish, install, and maintain all required protection of inlets, structures, and any other erosion and sediment control device that is shown, implied, or required for the entire duration of the project at the Construction Manager's and/or governing agency's direction. The 02A Contractor shall remove and properly

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dispose of all protection after site is stabilized with approvals of Local Authorities, Owner and Construction Manager.

- 8. The 02A Contractor shall supply and install all plugs shown or required at all utilities that are removed.
- 9. The 02A Contractor shall, with the assistance of the CM, coordinate with all public utilities for the removal of the underground existing services. With approval of the Utility Company(s) it is the 02A Contractor's responsibility to either abandon in place (after grouting) or remove from the site as indicated. Cutting, capping, and or filling when abandoning in place as directed by the contract documents, is the responsibility of the 02A Contractor.
- 10. The 02A Contractor includes steel plates or other means need to be utilized to ensure traffic flow in and out of school site at all times as well as when working in public streets to allow continuous traffic flow. The 02A Contractor includes any and all Maintenance of Traffic as necessary for the work including submission of MOT Plan to the AHJ.
- 11. The 02A Contractor shall furnish and install a complete storm water drainage system including, but not limited to, all pipes, inlets, manholes, laterals, cleanouts, rip rap, geotextile fabric, observation wells, granite blocks, pipe anchors, gratings, bedding materials, foundations, cut off walls with rip rap outlets, storm trap systems, underdrains at the play areas & other locations as indicated, temporary fence at ponds, storm filters, flow splitters, sand filters, underground quantity control facilities, trash racks, and all related devices as required. The 02A Contractor shall flush the entire storm water drainage system at the direction of the Construction Manager and/or any governing agency, if required. All layout and surveying for this work is the responsibility of the 02A contractor. All as-builts of system must be performed during the course of construction. The 02A Contractor to include costs to perform this service with base bid and include all submission fees. As-builts are to include line and grade.
- 12. The 02A Contractor is to furnish and install all trench drains and area drains exterior to the building, and to coordinate installation with site concrete and asphalt.
- 13. The 02A Contractor shall furnish and install all storm work including but not limited to inlets, piping, trench drains etc. at the Courtyard/Outdoor Learning Areas.
- 14. The 02A Contractor shall furnish and install all micro-bioretention areas and storm water management areas complete. This includes any and all mulch, seed and plantings.
- 15. The 02A Contractor shall furnish and install complete sanitary sewer systems in accordance with local codes consisting of all piping, manholes, laterals, cleanouts, and all related devices as required. All layout and surveying for this work is the responsibility of the 02A Contractor. All as-builts of system must be during course of construction. The 02A Contractor to include costs to perform this service with base bid.
- 16. The 02A Contractor shall furnish and install a complete water system for potable water service and fire protection service outside the building in accordance with local codes consisting of all piping, manholes, laterals, valves, vaults, cleanouts, thrust blocks, hydrants, standpipes and all related fittings as required. The 02A Contractor to coordinate all inspections with Authority Having Jurisdiction (AHJ) during installation prior to backfill. All layout and surveying for this work is the responsibility of the 02A contractor. All as-builts of system must be performed during the course of construction. The 02A Contractor to include costs to perform this service with base bid.
- 17. The 02A Contractor is responsible to bring both the domestic and fire protection service to a point within 5' of the building exterior as shown. The 15A Contractor is then responsible to bring both services into the building from five feet outside of the building. Once into the building the 15A Contractor is responsible for the pipe, fittings, flanges up to and including the backflow preventer for the sprinkler service. The 15B Contractor will be responsible to begin work at the building side flange of the backflow preventer. The 15A Contractor is responsible for certification of backflow preventer.

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- 18. The 02A Contractor is responsible for protection of utility piping, manholes, manhole covers, cleanouts, drains, trench drains, inlets, etc. being furnished and installed under this package. Protection to be either steel plates or adequate wood dunnage.
- 19. The 02A Contractor shall furnish and install all outside site utilities systems completely including all testing and proper connection to the appropriate system outside the building. Contractor shall extend its piping from the indicated utility connection to a point five (5) feet from the building line or to a point farther and / or than five (5) feet from the building if it is specifically indicated as such in the contract documents.
- 20. The 02A Contractor will close or cover all utility excavation at the end of each work day unless exempted by Construction Manager's representative. Any unsuitable conditions caused as a result of contractor's failure to protect trenches or exposed subgrades will be remedied at contractor's sole expense and at no cost to the Owner or Construction Manager.
- 21. The 02A Contractor shall saw cut, remove, and dispose of existing asphalt to complete work under this package. Contractor shall provide all temporary protection requirements of these areas (steel plates, temporary patch, etc.) as required by the governing authority until the permanent infill can be completed.
- 22. The 02A Contractor shall provide temporary patching of existing asphalt and or concrete in existing roads and sidewalks as needed for the connection of utilities. The 02A Contractor shall saw cut, remove, and dispose of temporary patches for the utilities when necessary and furnish and install the permanent concrete or asphalt requirements at these location at the time and direction provided by the Construction Manager and approved by AHJ.
- 23. Prior to commencing with work, the 02A Contractor shall video scope all existing storm and sanitary lines scheduled to remain and report to the Construction Manager if they are clear and in good working condition or if any obstruction is discovered. If an obstruction is encountered, the Contractor will provide specific location to Construction Manager as part of base bid costs. Contractor shall, include in base bid costs to provide jet blast/vacuum services and any other equipment required for removal and disposal of debris and silt. Costs shall be for equipment, labor, disposal, and all incidentals for twenty (20) hours. After 02A work is substantially complete, 02A Contractor will video scope all pipe work including existing to remain piping and, if necessary, remove any obstruction at no cost change as inlet protection and continued maintenance is the 02A Contractor's responsibility during the course of construction.

Site Concrete & Retaining Wall Specific Scope:

- 1. The 02A Contractor shall provide all necessary permits, fees, and coordination with inspections that may be required. This includes wall building permits.
- 2. The 02A Contractor shall provide all saw cutting, to connect with existing curbing and concrete as required by the Contract Documents.
- 3. The 02A Contractor shall patch and repair any damage to existing roads, adjacent surfaces, and curb and gutter damaged by the 02A operations.
- 4. The 02A Contractor shall provide layout and surveying to allow furnishing and installation of all concrete, reinforcing, formwork, excavation, backfilling, fine grading, fill, gravel(including granular backfill where called out), weep holes, water stops, perforated PVC under drains/drain tile at its work (including stone and filter fabric), bio-barriers (where called out), fence sleeves, waterproofing, support chairs, concrete pumping, control joints, expansion joints (zip cap type), expansion filler, welded wire mesh, scoring joints, hot/cold weather protection and the like for all of the following site concrete items:
 - a) curb and gutter
 - b) sidewalks (regular and heavy duty) including all the way up to the face of building / face of door and the like
 - c) turn down slab details with all associated stone

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- d) platforms / stoops
- e) concrete paving
- f) integrally colored concrete at Outdoor Learning
- g) concrete collars at exterior cleanouts in greenspaces
- h) exterior reinforced concrete pad(s) (not including generator or transformer pads which are by 03A)
- i) concrete stairs, landings, and pads at the exterior
- j) concrete at exterior ramps
- k) mow strip(s) at fencing
- 1) mow strip at building if indicated
- m) concrete site walls, including formliner walls as indicated
- n) concrete at and installation of exterior site bollards (bollards to be furnished by 05A)
- o) concrete curbs at dissimilar material such as grass to mulch, planting area to stabilized gravel path, etc.
- p) concrete storm drain bypass swales
- q) and any other site concrete item called out within the drawings and specifications unless noted otherwise
- 5. The 02A Contractor shall seal all exterior concrete called out to be sealed per the contract documents. The 02A Contractor shall provide one additional coat which will be applied just prior to substantial completion as directed by the Construction Manager. In regards to the kitchen health inspection, the 02A Contractor includes sealing of the dumpster pad location per the health inspector's requirements.
- 6. The 02A Contractor shall install and protect threaded and / or embedded items to prevent bending, deformation and corrosion. The 02A Contractor shall repair or restore all damaged threaded and / or embedded items prior to commencement of installation on these embedded items.
- 7. The 02A Contractor shall receive, unload, inventory, sign for and accept all embedded items furnished by other Contractors for installation within the 02A Contractor's work. The 02A Contractor shall properly store and protect items furnished by others.
- 8. The 02A Contractor to protect concrete, CMU, brick and stone walls and / or adjacent finishes from splashing caused by concrete placement. If concrete splashes on walls and / or adjacent finishes, then the 02A Contractor shall be responsible for the removal of the splashed concrete.
- 9. The 02A Contractor shall furnish and install all moisture retaining covers and curing compounds as required to complete own work.
- 10. The 02A Contractor includes installation of zip cap expansion joint material, and all associated caulking of own work, inclusive of removing plastic cap and proper preparation prior to application of sealant.
- 11. The 02A Contractor will provide all winter and summer concrete measures, if necessary, for concrete for this scope of work.
- 12. The 02A Contractor shall provide and install all curb and gutter "inlet throats" as required.
- 13. The 02A Contractor includes broom sweep and power washing as necessary within one week prior to substantial completion of all concrete installed under this package.
- 14. The 02A Contractor shall furnish and install cast in place Tile detectable warning surfaces at all handicap ramps. Color shall be safety yellow if not specified.
- 15. <u>The 02A Contractor shall furnish and install all segmental retaining walls as required per Specification Section 323223.</u>⁴
- 16. In the event rail, chainlink or decorative the top of a <u>segmental retaining</u>⁴ wall, the 02A contractor is to coordinate and install sleeving requirements as core drilling will not be acceptable in this situation.

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17. It is the intent of the CM to curb and base pave the west parking lot of Rock Creek in the Fall of 2019 and utilize it as suitable laydown area for the duration of the project. Contractor to assume replacement of 10% of the curbline and 10% base asphalt repair will be required and is included in base contract work, prior to being able to final pave this area which is anticipated in Spring of 2021. As the new Rock Creek will be occupied NLT than April 2021, this area will also need to be temporarily striped, and redone in a permanent fashion once final paving occurs, all as part of base bid costs.

Site Asphalt Paving Specific Scope:

- 1. The 02A Contractor shall provide all necessary permits, fees, and coordination with inspections that may be required.
- 2. The 02A Contractor shall clean off all utility covers, curbs, sidewalks, and any other installed items of asphalt products in the paved areas.
- 3. The 02A Contractor shall furnish and install all asphalt base (binder) courses, tack coats, overlay binder coats, overlay protective membranes, overlay protective membrane strips, asphalt surface courses, bitumastic sealants and/or rubber sealants.
- 4. The 02A Contractor includes all milling as required.
- 5. The 02A Contractor shall provide all saw cutting, wedging, and leveling to connect with existing paving as required by the Contract Documents.
- 6. The 02A Contractor shall patch and repair any damage to existing roads, adjacent surfaces, and curb and gutter damaged by the 02A operations.
- 7. Construction Manager reserves the right to schedule the installation of the base course of asphalt paving and then the surface course of asphalt paving as two separate construction events.
- 8. It is the intent of the CM to curb and base pave the west parking lot of Rock Creek in the Fall of 2019 and utilize it as suitable laydown area for the duration of the project. Contractor to assume replacement of 10% of the curbline and 10% base asphalt repair will be required and is included in base contract work, prior to being able to final pave this area which is anticipated in Spring of 2021. As the new Rock Creek will be occupied NLT than April 2021, this area will also need to be temporarily striped, and redone in a permanent fashion once final paving occurs, all as par of base bid costs.
- 9. Asphalt Binder Escalation: An adjustment will be made to the final Contract Sum if the price of asphalt binder fluctuates from the prevailing price as quoted here to the actual price on the date of placement. The Contract Sum will be adjusted if asphalt binder fluctuation is above 10% or below negative 10%. Only the differential percent change beyond the above noted 10% will be used.

For the purpose of making these calculations, a monthly price index is maintained by the MD State Highway Administration. This index is the average FOB selling price of asphalt binder at the supplier's terminal in the State of Maryland.

Contract price adjustment will be computed monthly by using the following formula:

F = (PP-Pb)/Pb

Where:

F = price increase/decrease of asphalt binder, expressed as a decimal

PP = index price of asphalt binder per ton at placement date

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Pb = the prevailing index price of asphalt binder per ton in September 2015, as specified by MDSHA.

Contract Price adjustment due to Contractor or Owner when price of asphalt binder does not increase or decrease significantly

(i.e.: -0.10 > F > 0.10) - Zero Dollars

Contract price adjustment is due to Contractor as a cost to Owner when price of asphalt binder increases significantly

(i.e. F>0.10) – A= [(F-0.10) x T x Pb] x Tons

Contract price adjustment is due to Owner as a credit to Contractor when price of asphalt binder decreases significantly

(i.e. F < -0.10) – $A = [(F-0.10) \times T \times Pb] \times Tons$

Where:

A = Addition / Deduction to Contract Sum

F = price increase/decrease of asphalt binder, expressed as a decimal

T = design target asphalt content as stated in the asphalt manufacturer's mix design for base or

surface course expressed as a decimal

Pb = the prevailing index price of asphalt binder per ton in June 2019 as specified by MDSHA

Tons = ACTUAL Tonnage of Hot Mix Asphalt Base or Surface (Base & Surface Mix cost

increase/decrease will be calculated separately using the design target asphalt contents for each per "T" above), as documented by certified, dated, weighted tickets furnished by the

asphalt manufacturer.

Please note that the Contract Price Adjustment does NOT include Overhead & Profit markup, which will not be allowed or required on adjustments due the Contractor or Owner. The Contract Price Adjustment also does not include a state sales tax or bond markup, but these markups/markdowns will be allowed/required on both adjustments due the Contractor and Owner.

Road and Parking Accessories Specific Scope:

- 1. The 2A Contractor shall adhere to all Maryland Department of Transportation State Highway Administration's current Standard Specifications for Construction Materials and the ANSI D6.1-1971 Manual on Uniform Traffic Control Devices for Streets and Highways.
- 2. The 2A Contractor shall adhere to the product delivery, storage, handling, project conditions, products/materials, surface preparation, application, protection, and restoration requirements outlined within the project specifications and drawings.
- 3. The 2A Contractor shall coordinate and work with the Construction Manager with regard to the Fire Marshall's requirements in regards to fire lane striping, signage and the like.
- 4. The 2A Contractor shall adhere to the sign location and installation requirements outlined within the project specifications and drawings.
- 5. The 2A Contractor shall layout and paint all parking lot striping to include, but is not limited to all parking spaces, regular handicapped spaces, van accessible spaces, parahatch areas at handicapped spaces, bus spaces, traffic arrows, center lines, stop bars, hard play surface markings, pedestrian crosswalks etc.
- 6. The 2A Contractor shall furnish and install all concrete wheel stops and fire lane curbing paint and associated stenciling.
- 7. The 2A Contractor shall layout and paint all site stenciled markings, including those at the hard play surfaces.

02416-02A-10 Specific Scope

Original Issue Date: 7/1/2019

Revised per Addendum #3: 7/18/19

Revised per Addendum #4: 7/25/19

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8. The 2A Contractor shall furnish and install all posts and signs for site including but not limited to handicapped signs, van handicapped signs, drug free school zone signs, do not enter signs, student drop off signs, fire lane signs, no parking anytime signs, buses only signs, staff parking signs, high efficiency vehicle signs, one way signs, no Uturn signs, reserved only signs, inclusive of required concrete and or pourable fill, etc.

9. The 02A Contractor includes any and all thermoplastic markings as required. The 02A Contractor shall provide all traffic control for their work.

10. The 02A Contractor shall perform any existing striping removal as required.

11. It is the intent of the CM to curb and base pave the west parking lot of Rock Creek in the Fall of 2019 and utilize it as suitable laydown area for the duration of the project. Contractor to assume replacement of 10% of the curbline and 10% base asphalt repair will be required and is included in base contract work, prior to being able to final pave this area which is anticipated in Spring of 2021. As the new Rock Creek will be occupied NLT than April 2021, this area will also need to be temporarily striped, and redone in a permanent fashion once final paving occurs, all as part of base bid costs.

Fencing, Guardrail and Gates Specific Scope:

 The 02A Contractor shall provide all necessary permits, fees, and coordination with inspections that may be required.

2. The 02A Contractor shall furnish and install all chain link type site fencing related items to include, but is not limited to, posts, rails, braces, bracing assemblies, galvanizing, powder coating, high performance coatings, bottom tension wire, continuous top rails, continuous bottom rails, continuous mid rails, fabric, terminal posts, line posts, gate posts, hinge posts, terminal & gate post bracing assemblies, stretcher bars, sleeves, non-shrink grout, gates, hardware, accessories, tie wire, grounding, padlocks, knox boxes and/or knox locks, excavation for posts, concrete formwork/sonatubes, concrete for posts, fence line grading, and the like for a complete scope of work.

3. The 02A Contractor shall furnish and install, access gates and / or man gate assemblies to include, but is not limited to, the following locations: play areas, yards, drive lanes, and parking lots.

4. The 02A Contractor shall furnish, provide layout, and installation for the sleeves needed for the fence posts located on top of concrete walls.

5. The 02A Contractor shall furnish and install all vehicular guardrails as indicated.4

6. In the event a decorative rail by the 05A contractor is within the top of a <u>segmental retaining</u>⁴ wall, the 02A contractor is to coordinate and install sleeving requirements of the 05A contractor

5. The 02A Contractor to include one lock with two keys for each gate; locks to be per specifications. All locks shall be keyed alike.

6. The 02A Contractor to provide warranty for fifteen years for all coated fencing against peeling, cracking and corrosion, if not specified otherwise elsewhere.

7. The 02A Contractor shall furnish and install all timber guardrails per Contract Documents.4

Landscaping Specific Scope:

1. The 02A Contractor shall provide all necessary permits, fees, and coordination with inspections that may be required.

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02416-02A-11 Specific Scope

Revised per Addendum #4: 7/25/19

- 2. The 02A Contractor includes all bonds for Right of Way Work. Contractor shall comply with all MDOT rules and regulations for the work within Public Right of Way required for work being completed under this package.
- 3. The 02A Contractor shall layout all landscaping with flagging and receive approval from the landscape architect prior to installation.
- 4. The 02A Contractor shall provide and install all landscape plantings to include, but not limited to, all guarantees, certificates, submittals, delivery, storage, plants, trees, shrubs, stakes for supporting trees, wires for guying trees, mulch, and the like to complete all landscape plantings shown or as reasonably implied within the drawings and specifications.
- 5. The 02A Contractor shall furnish water and necessary temporary irrigation equipment as required for healthy plant growth.
- 6. The 02A Contractor shall provide and install all seeding and sod to include, but is not limited to, guarantees, certificates, submittals, delivery, seed mixtures, sod types, mulch, hydraulic seeding, sod stakes, water, protection, restoration, cleaning, maintenance, turf inspections / reviews by a qualified turf agronomist, and the like to complete all seeding and sod shown or reasonably implied within the drawings and specifications.
- 7. The 02A Contractor shall excavate for, backfill and furnish and install and set in place all boulders as indicated.
- 8. The 02A Contractor shall provide and install all forest conservation requirements to include, but is not limited to, all arborist reports, supervision and monitoring, root and tree pruning, tree protection signs and fencing, deep-root fertilization, crown reduction, watering, vertical mulching, wood chip and moisture monitoring, and all other items as required.
- 9. The 02A Contractor shall provide and install all maintenance requirements to include, but is not limited to, maintaining all plants and turf in a healthy condition. Contractor shall provide for all pruning, cutting, watering, fertilizing, cultivating, weeding, mulching, tightening / repairing of staking, setting plants to proper grades or upright in position, restoration of the planting saucer, and furnishing / applying sprays and other items as necessary to keep the plantings free of insects and disease and in a thriving condition. Maintenance shall begin immediately after each planting is completed and shall continue as required per the project specifications.
- 10. The 02A Contractor includes all mulching, pretreatment of mulched areas, inclusive of mulch walkways, mulch at planting areas, play areas, raised planter areas, maintenance of mulching etc.
- 11. The 02A Contractor includes all portable drip irrigation bags, and edging as required.
- 12. The 02A Contractor shall furnish and install permanent seed and sod with stabilization as required including curlex or erosion control matting at severely sloped areas.
- 13. The 02A Contractor shall furnish and install all brick pavers per Contract Documents.

Site Furnishings Specific Scope of Work:

- 1. Contractor shall furnish and install all site amenities, to include but limited to bike racks, benches, trash receptacles, etc. inclusive of required accessories. Contractor shall provide all drilling/core drilling, anchoring materials, and the like to complete the installation of the items. Contractor to coordinate, furnish and install foundations required for these items. Concrete for flagpole installation is the responsibility of 06A. All other concrete required for installation of the site furnishings, i.e. sidewalks, footings etc., is by the 02A Contractor.
- 2. All furnishings are to be installed level, plumb and true and securely anchored or positioned at locations as indicated on drawings.

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Playground Equipment and Surfacing Scope:

- 1. The 02A Contractor shall provide all necessary permits, fees, and coordination with inspections that may be required.
- 2. The 02A Contractor to furnish and install all playground structures, complete with associated layout, surveying, excavation, backfill, grading, shaping of soils, concrete, play components, fasteners, supports, footings, ground cover, edging and all final surfacing etc., located per the drawings and specifications.
- 3. The 02A Contractor to furnish and install all shade structures, pavilions and canopies at Outdoor Learning. Aluminum canopies and walkway covers at the Bus Loop shall be by <u>\$\theta 64.05A</u>\$ Contractor.
- 4. The 02A Contractor to furnish and install underdrain systems with connections to storm sewer system, as well as proper grading of subgrade and installation of concrete boarders and edging of play areas for playground surfacing.
- 5. The 02A Contractor to furnish and install all playground surfacing and subbase as required.
- 6. The 02A Contractor to furnish and install all synthetic turf as located at Outdoor Learning.
- 7. The 02A Contractor shall furnish and install all stone subbase at Outdoor Learning per Contract Documents.
- 8. The 02A Contractor shall furnish and install all raised planters, planter boxes with associated planting media, bridges, pavers, concrete including stamped concrete, boulders, stepping stones, picnic tables, benches, "step-up with handrails", etc. at Outdoor Learning.

Exterior Court Athletic Equipment:

- 1. The 02A Contractor to furnish and install all exterior athletic equipment including, but not limited to, basketball hoops per Specification Sections 116823.
- 2. All foundations for exterior gymnasium equipment are to be installed by the 02A Contractor.
- 3. The 02A Contractor includes all excavation, backfill and concrete for all equipment being provided by this scope.
- 4. The 02A Contractor includes coordination with other contractors for placement of all sleeves, inserts, anchors etc. for items furnished and installed under this scope of work.

Miscellaneous Scope / Scope Coordination with other trades:

- 1. All site demolition is by the 02A Contractor.
- 2. The 02A Contractor shall, with the assistance of the CM, coordinate with all public utilities for the removal of the underground existing services. With approval of the Utility Company(s) it is the 02A Contractor's responsibility to either abandon in place or remove from the site as indicated. Cutting, capping, and or filling when abandoning in place as directed by the contract documents, is the responsibility of the 02A Contractor.
- 3. The 16A Contractor is responsible to coordinate removal or relocation of all overhead and underground utilities such as power, cable, telephone, data, street lighting, etc. in direct conflict with new entrance ways or final structure. All actual cost of physical removal (as indicated) for both overhead and underground utilities, including conduits, pipes, poles, foundations, etc. are the responsibility of the 02A contractor and is considered base bid.
- 4. The 02A Contractor shall supply and install all plugs shown or required at all utilities that are removed.
- 5. At utility trenches, if contaminated soils are encountered, the 02A Contractor is to excavate and centrally locate a contaminated spoil stock pile onsite. The 02A Contractor will then be reimbursed via unit rates in the contract to

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either transfer suitable material onsite, or if directed, bring in new from offsite. All contaminated soil removal from site shall be reimbursed at cost per established unit prices in Specification 012200 by the 02A Contractor.

- 6. Concrete, waterproofing of concrete, and below grade insulation at building concrete walls is the responsibility of the 03A Contractor. All stone and drain tile system for the entire building inclusive of excavation and backfill is the responsibility of the 03A contractor. CMU, waterproofing of CMU and below grade insulation at new CMU foundations for the entire building is the responsibility of the 04A Contractor. The 04A Contractor does not excavate or backfill; 03A to excavate and backfill at CMU walls below grade.
- 7. The 02A Contractor is responsible for fire hydrant flushing. Fire pump testing is the responsibility of the 15B contractor.
- 8. The 02A Contractor is only responsible for the flushing of the domestic water line to achieve a passing test for chlorination. The 02A contractor is not responsible for a flow test if required by the Fire Marshall; this will be the 15B contractor's responsibility.
- 9. The 03A package includes any building or site concrete footing, wall, slab, ramp, or stairs, which connect to the building or overhanging structure. Generator(s), transformer/transfer switch pad(s), grease trap and or interceptor pads and/or flotation collar and building concrete retaining walls are part of the 03A Package. All footings and piers for canopies, protective covers, etc. are part of 03A scope of work. All footings and piers required for play areas, site athletic equipment, site furnishings, are by the Contractors installing these items. Any concrete stairs, walls and ramps outside of the building footprint not shown on the building structural plans are by the 02A Contractor, including backfill to proposed subgrade for areas that receive sidewalks and ramps. Sidewalks and mow strips at the exterior building perimeter are included in the 02A package.

PART 3 – ALTERNATE SCOPE OF WORK

- 1. Contractor has reviewed the Alternates scope of work listed elsewhere within the specifications and has included all costs in the event the Owner elects to proceed in whole or in part.
- 2. Contractor has reviewed the Unit Prices scope of work listed elsewhere within the specifications and has included all costs in the event the Owner elects to proceed in whole or in part.

PART 4 – ALLOWANCES

- 1. In the event a sink hole or other soil related concern is discovered while performing this scope of work, this contractor has included an allowance of \$50,000 to be used at the Owner's for remediation. In the event the cost of this work exceeds this allowance an additive change order will be issued. In the event all monies in this allowance is not exhausted, a deduct change order will be issued for any unused portion.
- 2. In the event unsuitable soils are discovered while performing this scope of work, this contractor has included an allowance of \$25,000 to be used at the Owner's discretion for remediation. In the event the cost of this work exceeds this allowance an additive change order will be issued. In the event all monies in this allowance is not exhausted, a deduct change order will be issued for any unused portion.
- 3. In the event contaminated soils are discovered while performing this scope of work, this contractor has included an allowance of \$15,000 to be used at the Owner's discretion for remediation. In the event the cost of this work exceeds this allowance an additive change order will be issued. In the event all monies in this allowance is not exhausted, a deduct change order will be issued for any unused portion.

END OF 02A SECTION

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Specific Source

ROCK CREEK SCHOOL Frederick County Public Schools

PART 2 – SPECIFIC SCOPE OF WORK

- 1. Contractor has reviewed and understands the Contract Package / Specification Cross Reference listed under Section 002413.
- 2. Contractor includes General Scope of Work listed under Part 1 of Section 002416.
- 3. Contractor shall provide all labor, material, equipment, and supervision necessary for and reasonably incidental to the completion of the Site work in accordance with the complete set of Contract Documents.
- 4. The Contractor shall perform at least 30% of this Package by cost with the Contractors own, in-house work forces. Subcontracting or brokering more than 70% of the work shall not be permitted.

Concrete Specific Scope of Work:

- 1. Contractor shall provide all labor, material, equipment, and supervision necessary for and reasonably incidental to the completion of the Concrete work in accordance with the complete set of Contract Documents.
- 2. Site Concrete and any concrete outside the building(s) perimeter and at the Outdoor Learning is typically part of the 02A package, i.e. sidewalks, curb and gutter, exterior site stairs, etc. unless specifically called out in this package. 03A has reviewed other bid packages for a complete understanding of the work involved in all packages.
- 3. The 03A package includes any building or concrete footing, wall, slab, ramp, or stairs, which connect to the building or overhanging structure. Generator(s), transformer/transfer switch pad(s), grease trap and or interceptor pads and or flotation collar and building concrete retaining walls are part of the 03A Package. All footings and piers for canopies, protective covers, etc. are part of 03A scope of work. All footings and piers required for play areas, site athletic equipment, site furnishings, are by the Contractors installing these items. Concrete stairs, walls and ramps outside of the building are by the 02A Contractor, (with the exception of the walls, stairs and ramps, etc. shown on the Structural Drawings, which are by 03A) including backfill to proposed subgrade for areas that receive sidewalks and ramps. Sidewalks and mow strips at the exterior building perimeter are included in the 02A package.
- 4. The 02A Contractor shall establish rough grade to within ± 0.10'sub-grade, to include proper compaction and elevations for building pad for acceptance by 03A Contractor. It is this contractor's responsibility to achieve subgrade in each area.
- 5. 13A Contractor shall furnish and install the 5" perimeter deck drain, angles, rebar anchors, continuous sealant etc. for a complete system. Coordinate with the 03A Contractor who is responsible for furnishing and installing all concrete and stone work for the pool deck. Plumbing connections to the drain shall be by 15A Contractor.
- 6. Depth markers and signage along the perimeter gutter system shall be furnish by 13A to the 03A contractor for installation
- 7. Contractor to include excavation, concrete, rebar, and labor to pour temporary foundation for mockup panel(s).
- 8. Contractor shall seal and or apply hardener for all concrete called out to be sealed and or hardened per the contract documents. Contractor shall provide one additional coat and cleaning of surface prior to application, which will be applied just prior to substantial completion as directed by the Construction Manager.
- 9. Contractor shall design, engineer, furnish and install all shoring as required and called out on structural drawings in regards to new work, i.e. shoring of metal deck or new structure until concrete is cured. Submit calculations for review by the Structural Engineer. In addition, Contractor shall furnish and install all temporary shoring and bracing required to support the load imposed by the Contractor's work and to prevent excess deflection of the structure where indicated. All deck and/or wall shoring must be designed by a Professional Engineer registered in the State of Maryland. Shoring to remain in place until required upper floors are poured and Engineer of Record states shoring can be removed.

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- 10. Contractor shall form all openings through decks and slabs as shown on the drawings and as required by others, layout is performed by the contractor requiring the opening. Contractor shall provide its own layout for any of its openings being formed. Contractor shall patch and fill all openings in existing structure after demolition is complete as required.
- 11. Contractor shall furnish and install all perimeter rigid insulation under slab on grade.
- 12. Contractor shall coordinate, layout and protect threaded embedded items to prevent bending, deformation and corrosion. Contractor shall repair or restore all damaged threaded embed items prior to commencement of steel erection. The Contractor shall install 2x4's, plywood covers, and vertical warning posts over the anchor bolts until steel erection in same area begins.
- 13. Contractor shall form and pour all locker bases, including embedded treated wood sleepers, as required.
- 14. 03A Contractor shall form and pour all interior housekeeping pads as well as roof top unit concrete as required. Layout is by requiring MEP contractor. Coordinate with 15A, 15B and 16A Contractors and MEP drawings for locations.
- 15. 03A Contractor shall receive, unload, inventory, sign for and accept all embedded items furnished by other Contractors for installation by this Contractor. 03A Contractor shall properly store and protect items furnished by others.
- 16. 03A Contractor shall install all anchor bolts, base plates, leveling plates, bearing plates, inserts, sleeves, clips, reglets, stair nosings, expansion joints, and misc. items furnished by others inset into concrete as required by the Contract Documents. 03A Contractor to include grouting of base plates.
- 17. 03A Contractor shall coordinate with 15A Mechanical and 16A Electrical Contractors to ensure all rough-ins are complete prior to slab, deck, and wall pours. 03A Contractor shall coordinate with the Construction Manager regarding scheduling of all concrete pours. 03A Contractor shall submit each week to the Construction Manager, in writing, a two (2) week pour schedule for coordination with other trades.
- 18. 03A Contractor shall be responsible for all excavation and backfill work required for the installation of concrete foundations, walls, and slabs unless noted as by others elsewhere. 03A Contractor shall provide all pumping, dewatering, temporary bracing and shoring for its concrete work and temporary protection necessary to complete its work, and as required by the Contract Documents. 03A Contractor shall maintain foundations free of water, mud, and the like until masonry operations have commenced, at which time it becomes the 04A Contractor's responsibility until backfill operations commence in each area. 03A Contractor shall be responsible for backfilling to sub-grade and compacting of interior and exterior foundations, slabs, and walls. 03A Contractor shall be responsible for all fine grading required to perform all its work. The 03A Contractor shall stockpile his excavation and/or grading spoils in a central location as directed by Construction Manager.
- 19. Contractor includes all reinforcing bar, wire, chairs, etc. for this work.
- 20. Contractor shall slope slabs to floor drains as required. Failure to have the finished slab comply with ADA regulations will result in all costs to repair/replace, chip, grind, patch, plumbing, flooring, etc. being back charged to this contractor
- 21. Contractor shall furnish and install all concrete, reinforcing, formwork, excavation, backfilling, fine grading, fill, gravel (including granular backfill where called out), weep holes, water stops, sleeves, support chairs, concrete pumping, hot / cold weather protection and the like for all of the following:
 - a) footings / foundations,
 - b) slabs-on-grade,
 - c) elevated slabs / slabs-on-metal deck,
 - d) interior walls,

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- e) piers,
- f) grade beams,
- g) slab haunches,
- h) housekeeping / equipment pads / curbs,
- i) pits
- j) electrical or other pits
- k) interior stairs/ramps
- l) platforms and or stage
- m) concrete retaining walls (building related as well as site walls as scoped)
- n) loading dock ramps and walls
- o) screen wall footings
- p) site sign footings
- q) slab depressions
- r) penthouses
- s) and any other building concrete item called out within the drawings and specifications.
- 22. Contractor shall furnish and install the fine grading, gravel, geofabric, vapor barrier and retarders, floor slopes, expansion joints, galvanized steel construction joints, control joints, including any and all required scoring patterns.
- 23. Contractor shall furnish and install all concrete and reinforcing steel for all pipe penetrations that penetrate its work per structural details. Contractor acknowledges steel sleeves for pipe penetrations through floor slabs are to extend above finish floor elevation a minimum of two inches, and includes all costs associated with properly hand finishing around said sleeves.
- 24. Contractor to protect walls and/or adjacent finishes from splashing caused by concrete placement. If concrete splashes on walls and/or adjacent finishes, then the Contractor shall be responsible for the removal of the splashed concrete.
- 25. Contractor shall provide as-built elevations shots of the slabs, platforms, ramps, and any other item installed by this Contactor. Contractor shall provide as-built elevations of all top of footing elevations. Contractor shall provide this as-built information within forty-eight (48) hours after concrete has been poured.
- 26. Contractor shall provide all hoisting required for its work.
- 27. Contractor is responsible for any and all access needed in order to place concrete for their work.
- 28. Contractor shall supply and install all concrete and reinforcing meshes at all metal pan stairs and metal stair landings. Contractor to remove all overpour on underside of stairs to allow for painting. Include washdown of cleaning or protecting agents to allow painting operation to begin.
- 29. Contractor shall complete the installation of all anchor bolts and leveling plates promptly upon completion of supporting foundations in each building area.
- 30. Contractor shall provide for all floor slabs to be level and ready to receive specified floor finish which includes any grinding of high spots. Contractor shall coordinate with finish schedule to achieve this. This includes any compounds being applied by 03A are to be coordinated and compatible with future floor finishes. In the event they are not, any cost to remediate is the responsibility of this contractor.
- 31. Contractor shall provide finish surfaces to the ll values of flatness F(F) and of levelness F(L) per specifications, with the exception of the athletic and or resinous floors which will need to exceed the F(F) and F(L) standards.
- 32. Contractor shall ensure at new slabs at athletic floor and/or resinous flooring areas are provided to produce a maximum 1/8-inch deviation in any direction in 10 foot when checked with a 10-foot straight edge. This is above and beyond typical concrete slab work and is required for installation of athletic flooring and/or resinous flooring. Failure to comply with this requirement will result in all grinding and or patching to achieve this standard to then be

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this contractor's responsibility. Should the specifications require more stringent requirements then they shall take precedence.

- 33. Contractor shall grade all backfill so that water runs away from any structure.
- 34. Contractor shall furnish and install all necessary formwork, construction joints, diamond joints, control joints, isolation joints, expansion joints, waterproof seals, welded wire fabric, removable plastic or hardboard pre-formed strips, roofing felts, and vapor barriers. Contractor to carefully layout construction joints and control joints with finish schedule to allow for patterns to match architectural layout.
- 35. Contractor shall furnish and install all moisture retaining covers and curing compounds as required to complete its work.
- 36. Contractor shall rub and finish all exposed concrete walls installed by this contractor.
- 37. Contractor shall provide for all excavation and backfill of own work unless stipulated otherwise elsewhere.
- 38. Despite any reference to the contrary, in the event any backfill being performed under this package in which the material exceeds optimum moisture content, 03A will then be responsible for haul off and dispose of material and replace suitable material within specifications. Drying onsite will not be permitted due to limited available space. Therefore, it is highly recommended any stockpiled material by this contractor is adequately protected from weather.
- 39. 03A Contractor shall install all interior pipe bollards supplied by 05A. Contractor to include concrete in pipe bollards. Contractor to include multiple mobilizations for this scope of work.
- 40. 03A Contractor includes installation and maintenance of fall protection at slab block outs and diamonds. Contractor to coordinate with 04A and 05A Contractors for removal of protection to allow for installation of their work.
- 41. Contractor includes all damproofing and waterproofing of slabs, concrete walls and foundations per specification sections 071113, 071326, and 071416 as it applies.
- 41. Concrete, waterproofing of concrete, and below grade insulation at foundations and or concrete walls is the responsibility of the 03A Contractor. All stone and drain tile system for the entire building inclusive of excavation and backfill is the responsibility of the 03A contractor, inclusive to connection to closed storm line or structure. CMU, waterproofing, damproofing, and below grade insulation at CMU walls for the entire building is the responsibility of the 04A Contractor. The 04A Contractor does not excavate or backfill; in order to waterproof and install drain tile, 03A Contractor to excavate and backfill at foundations, concrete walls and cmu walls.
- 42. Drain tile and piping is to be tied into the closest available storm drainpipe, which allows positive flow unless otherwise indicated. This drain tile and piping is to be furnished and installed by the 03A Contractor. If required by code, the 15A Contractor will furnish and install a backflow preventer at the area where the drain tile ties into the storm drain as well as providing access provisions as necessary for valve maintenance. In addition, the 15A Contractor will provide final fitting and connection.
- 43. Contractor includes caulking of own work, inclusive of plastic "zip cap" type expansion material for clean sealant joint. Contractor includes any fire caulking related to its work.
- 44. The Owner will furnish testing services. 03A Contractor shall provide a curing box with heat or ice, whichever is appropriate for the weather conditions, for use by the testing agency. Contractor shall immediately submit all concrete delivery tickets and proportion certificates to the Testing Agency at time of delivery
- 45. Contractor shall furnish and install all stone fill, pea gravel, gravel, and related work, including excavation and subbase materials as required by the Contract Documents.
- 46. The Contractor will be responsible for all winter concrete and hot weather concrete costs, charges, and provisions

including temporary heat and enclosures.

- 47. Contractor will be responsible to regrade and compact subgrade when disturbed by 03A work. If subgrade is made unsuitable by this Contractor's work, 03A will undercut and replace at no-cost change.
- 48. 03A Contractor is to provide and maintain plywood covers per MOSH/OSHA standards at all slab diamonds until infill with concrete.
- 49. The 03A is responsible to cap and maintain rebar caps on rebar the 03A Contractor initially sets, until the hazard no longer exists or the 04A Contractor physically removes caps in order to lay block in same area, at which time the responsibility becomes that of the 04A Contractor to cap and maintain until hazard no longer exists. 03A Contractor to perform a daily walk to replace any missing rebar caps, regardless of how they came to be removed, until 04A Contractor takes responsibility for each area.
- 50. Any fall hazard created by this Contractor's installation of own work, will be immediately protected, maintained, and removed by this contractor until the permanent fall protection system is in place.
- 51. 03A Contractor will assist the 06A Contractor in installing any built-in place expansion joints and accessories provided by the 05A or 06A Contractor.
- 52. Contractor to include slab depressions as required at food service areas, walk in boxes etc. as well as the Gymnasium floor and other areas as indicated. Contractor to also include blockout of areas for floor sinks and or troughs, contractor includes infill as necessary after sink/trough is set to final elevation.
- 53. 03. Contractor to include 4x4 block out, 3' deep in lower level(s) prior to and after pour of slab on grade, excavation for temporary sump pit, pump, power and or generator, hose, labor as needed, demucking, backfill and secondary slab patch when no longer needed. Sump pit to be utilized after rain event(s) to remove water from lower level areas in order for all trades to keep working efficiently. 03.4 Contractor includes temporary rails, toe boards, etc. for fall protection at sump pit areas. Once 06.4 contractor has daily presence onsite, all pumps, hoses, power, and daily maintenance is then the 06.4's responsibility until building is dried in and sump can be climinated and turned back over to 03.4 for completion of slab. Temporary sump to be located by Construction Manager.⁴
- 54. The 03A Contractor is to include "shooting" of all stone required at the majority of under slab on grade, as bobcat placement will not be allowed as it is anticipated majority of electrical rough in will be placed below slab on grade, below the stone. As shooting of stone does have limitations, this contractor does include in limited areas, scratching of conduits into the stone layer in the event "shooting" of stone is not practical or cannot be accomplished.
- 55. The 03A Contractor is responsible to furnish and install all concrete associated with grade beams as indicated, inclusive of all related embeds furnished by others.
- 56. Any wall penetration required by other trades which has a diameter or horizontal dimension greater than 12" shall require a lintel or sleeve be installed. Locations which are to be steel beam or hung plate which are clearly called out on the structural drawings and will be furnished by 05A, and depending on connection, installed by either 04A or 05A. Both the 15A, 15B and 16A contractors are to furnish pipe sleeves regardless of pipe size, installed by 04A or 09A. For all duct/damper openings above ceiling, 15A is to provide steel angles, installed by 04A. For all duct/damper openings below ceiling and exposed, it is assumed to be a concrete U lintel, precast lintel or bond beam, where allowed by the structural drawings, by 04A. All openings in fire walls are to have either a precast lintel, concrete U lintel or concrete portal. Steel is not permitted in fire wall openings. In the event it is a concrete portal, all reinforcing and concrete is by 03A. If detailed as a precast lintel or concrete U lintel, they are furnished and installed by 04A
- 57. 03A Contractor shall include all concrete portals and associated formwork and rebar. 04A Contractor is responsible for surrounding masonry as indicated.

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Specific Scope

Miscellaneous Scope and Scope Coordination with other trades:

- 1. The 02A Contractor shall establish rough grade to within ± 0.10' sub-grade, to include proper compaction and elevations for building pads, sidewalks, pavements, drives, curbs, landscape, and / or topsoil areas. Landscape, topsoil and other open areas (excluding ball fields and play areas) to be graded to within +/- 0.20' of design elevation. The 02A Contractor shall furnish and install the backfill for curbs, gutters, and sidewalks to re-establish rough grade. Once the building pad elevation is accepted for compaction and elevation by the 03A Contractor, it is then the 03A Contractor's responsibility to return to proper grade prior to slab pours.
- 2. The 02A Contractor will provide all required fill material in accordance with Contract Documents to bring site to final design elevations. Both the 02A and 03A Contractors shall carefully examine site prior to commencing operations. The 03A Contractor will be responsible for installation down to design subgrade elevation regardless of material being encountered or excavated, including rock, at no cost to the Owner.
- 3. The 02A Contractor is responsible for all snow and ice removal onsite throughout duration of project at all construction areas. The 03A Contractor should anticipate inclement weather conditions as defined by the specification.
- 4. If contaminated soils are encountered during foundation installation, the 03A Contractor is to excavate and centrally locate a contaminated spoil stock pile onsite, per established unit rates. The 02A Contractor will then be reimbursed via unit rates in the contract to either transfer suitable material onsite, or if directed, bring in new from offsite. All contaminated soil removal from site shall be reimbursed at cost per established unit prices in Specification 012200 by the 02A Contractor.

PART 3 – ALTERNATE SCOPE OF WORK

1. Contractor has reviewed the Alternates scope of work listed elsewhere within the specifications and has included all costs in the event the Owner elects to proceed in whole or in part.

PART 4 – ALLOWANCES

1. Contractor to include an allowance of \$10,000 for potential modification required for installation of foundations and slabs associated with the Greenhouse add alternate #3. In the event the greenhouse is accepted, the final foundation and slab design will be provided by the 06A contractor to the 03A and 04A Contractors to finalize pricing as the final design is expected to vary from what is currently in the bid documents. The intent of this allowance is to cover any potential add due to the final design. In the event the cost is more than this allowance, an additive change order will be issued. In the event the final design is less than what is currently shown in the bid documents, a deduct will be issued as well as a deduct for this unused allowance..

END OF 03A SECTION

Dustin Construction Inc. 002416-03A6
Specific Scope

ROCK CREEK SCHOOL Frederick County Public Schools

PART 2 - SPECIFIC SCOPE OF WORK

- 1. Contractor has reviewed and understands the Contract Package / Specification Cross Reference listed under Section 002413.
- 2. Contractor includes General Scope of Work listed under Part 1 of Section 002416.
- 3. Contractor shall provide all labor, material, equipment, and supervision necessary for and reasonably incidental to the completion of <u>the Site</u> <u>Masonry</u>⁴ work in accordance with the complete set of Contract Documents.
- 4. The Contractor shall perform at least 30% of this Package by cost with the Contractors own, in-house work forces. Subcontracting or brokering more than 70% of the work shall not be permitted.

Masonry Specific Scope or Work:

- 1. The 04A Contractor shall provide all labor, material, equipment, and supervision necessary for and reasonably incidental to the completion of the Masonry work in accordance with the complete set of Contract Documents.
- 2. The 04A Contractor includes full mockup panel for craftsmanship for Architect/Owner review and approval. Once approved, the mockup will be the standard for installation.
- 3. The 04A Contractor shall furnish and install all masonry work required by the Contract Documents, including, but not limited to, all block, brick, decorative cmu, manufactured stone masonry, architectural pre-cast concrete, cast stone, soap blocks, corner stones, date stones, special shapes, mortar, grout, masonry fill, pea gravel fill, perlite fill, parging, mortar washes, masonry reinforcement (vertical and horizontal inclusive of couplers), masonry and cast stone steel reinforcement bars, joint reinforcement, masonry lintels (precast, concrete U lintels, bond beams and the like), ties and masonry anchors, point up, insulation (spray, neoprene, compressible, rigid, perlite, and the like for sound and or R ratings) contiguous to this Contractor's work, masonry fire walls, masonry portal frame columns, steel column isolation, isolation strips, building paper, flashing, pre-molded control joints, weeps, cavity flashings, drip edge, drip cap, mortar netting, samples, mock-ups, masonry cleaners, sealers, and damproofing and/or waterproofing on CMU walls, spray applied vapor barrier/air barrier (*inclusive of all angle stops as necessary for the spray foam system)*⁴, blue skin, head of cmu wall smoke and or fireproofing, elevated slab edge to masonry wall fireproofing, and or smoke barriers, interior and exterior control and expansion joint caulking, caulking of louvers in masonry, final cleaning and washdown inclusive of louver, window, curtainwall, storefront frame and glass protection and all other items required for a complete Masonry scope of work.
- 4. The 04A Contractor shall furnish and install all masonry work associated with the site screen walls, walls at loading dock, site sign *(including installation of standoffs to be furnished by 05A Contractor)*⁴ etc.
- 5. The 04A Contractor includes all damproofing and waterproofing of CMU walls per specification sections 071113, 071326, and 071416 as it applies.
- 6. The 04A Contractor includes all integral water repellents as required.
- 7. The 04A Contractor includes all masonry cell fill as required.
- 10. Concrete, waterproofing of concrete, and below grade insulation at foundations and or concrete walls is the responsibility of the 03A Contractor. All stone and drain tile system for the entire building inclusive of excavation and backfill is the responsibility of the 03A contractor, inclusive to connection to closed storm line or structure. CMU, waterproofing, damproofing, and below grade insulation at CMU walls for the entire building is the responsibility of the 04A Contractor. The 04A Contractor does not excavate or backfill; in order to waterproof and install drain tile, 03A Contractor to excavate and backfill at foundations, concrete walls and cmu walls.

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- 11. 03A Contractor shall include all concrete portals and associated rebar as indicated. 04A Contractor is responsible for surrounding masonry as indicated.
- 12. 04A Contractor shall install only all loose and or bolted steel members, such as angles, beam lintels, anchor bolts (embedded in masonry), structural angles, structural tubing attached to masonry, and the like that are supplied by others. Contractor shall grout all bearing / leveling plates at all CMU walls. If a steel member has a welded connection, and or requires a crane or boom truck (more than the masons lull) to set, 5A to set and connect.
- 13. Contractor shall install all through wall flashing as required by the Contract Documents. The 07A Contractor will furnish for installation by 04A, the 07A will solder joints of stainless-steel flashings as required. Masonry will be left out at each flashing joint until inspected and authorized by the Construction Manager to be enclosed.
- 14. Contractor shall coordinate the install of all hollow metal frames located within masonry walls furnished and set by the 06A contractor. This contractor shall ensure hollow metal frames remain installed plumb, level, square, and true to line until the frame is completely enclosed in masonry and accepted by the 06A contractor. 04A Contractor shall be responsible for any repair or damage costs to the hollow metal frames.
- 15. In the event frames are not available, or are damaged prior to installation by 06A, this contractor includes in base bid to provide additional lintels, and subsequent infill with CMU with grout as required to facilitate wall construction in (15) single door frames, (10) double door frames, and (3) hollow metal window frames.
- 16. Contractor shall furnish and install all build in place expansion joints (rated, non-rated, expand-o flash joint covers, and the like) and accessories located at and within masonry walls.
- 17. 04A Contractor includes cut out and patching at all Knox boxes located within masonry walls. Contractor to assume two (2) locations. Knox Boxes are provided by 06A Contractor.
- 18. Contractor shall be responsible for installation of all openings within masonry walls where required by other trades.
- 19. Any wall penetration required by other trades which has a diameter or horizontal dimension greater than 12" shall require a lintel or sleeve be installed. Locations which are to be steel beam or hung plate which are clearly called out on the structural drawings and will be furnished by 05A, and depending on connection, installed by either 04A or 05A. Both the 15A, 15B and 16A contractors are to furnish pipe sleeves regardless of pipe size, installed by 04A or 09A. For all duct/damper openings above ceiling, 15A is to provide steel angles, installed by 04A. For all duct/damper openings below ceiling and exposed, it is assumed to be a concrete U lintel, precast lintel or bond beam, where allowed by the structural drawings, by 04A. All openings in fire walls are to have either a precast lintel, concrete U lintel or concrete portal. Steel is not permitted in fire wall openings. In the event it is a concrete portal, all reinforcing and concrete is by 03A. If detailed as a precast lintel or concrete U lintel, they are furnished and installed by 04A.
- 20. In the event an opening is required in a masonry wall and is not properly coordinated by other trades it is the other trades sole responsibility to implement the required fix. All costs to either saw-cut, or tooth CMU to allow for the opening is the responsibility of the other trades. In the event this contractor has missed the indicated opening, or has mis-sized the opening, the costs required for the fix is the responsibility of this contractor.
- 21. Contractor shall furnish and install all grouting where required for hollow metal frames, bearing plates, sills, bond beams, wall reinforcing, handrail anchoring and other areas that are required.
- 22. Contractor shall fill all openings, including top of wall conditions, at full height masonry walls and provide all fire-safing and/or fire stopping, and / or insulation and / or fire resistive joint systems as required, inclusive of elevated slab edge conditions short of masonry walls.
- 23. Contractor shall provide several mixing stations and / or staging areas as needed for the phasing of the project. Contractor includes relocation(s) of mixing station(s) and staging areas as required for construction sequencing /

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logistics per the direction of the Construction Manager. Contractor to locate mixing station at positive drainage locations only.

- 24. Contractor will furnish and install all temporary walls bracing of masonry walls inclusive of braces and footings in accordance Masonry Construction standards and/or good safe practices, ie gymnasium, auditorium or cafeteria walls over 12' in height.
- 25. Contractor shall perform all dewatering and mucking out as required to perform its work, including cleaning of footers.
- 26. Contractor shall coordinate with other trades to allow them to properly set items to be embedded in masonry.
- 27. Contractor shall scrape, rub and wash-down all walls and floors of excess materials generated by it work. Rub down is to progress as practical but in no way delay the finish contractors.
- 28. Contractor shall furnish and install all waterproofing and/or dampproofing that is applied to its work.
- 29. Contractor includes in base bid for installation of an additional 250 LF of steel lintels, angles and or plates that may not be shown on the drawings, but may be required during construction.
- 30. The 04A Contractor shall layout all CMU foundations and walls, elevations, and the like to complete its scope of work.
- 31. Contractor shall point up around all mechanical openings, electrical openings, sleeves, and the like located in masonry walls.
- 32. Contractor shall provide and maintain all new and existing to remain stone, brick, architectural pre-cast concrete etc. protection.
- 33. Contractor includes daily covering of head of wall conditions to prevent infiltration. This includes areas which receive precast caps are set and not yet caulked due to weather conditions.
- 34. Contractor includes complete additional washdown prior to substantial completion to eliminate any efflorescence at no cost to the owner.
- 35. Contractor to include all temporary heating measures to perform all of own work. This is to include all required tenting, fuel, hoses and heaters required to efficiently work per the schedule despite exterior weather conditions. Selectively working areas due to temperatures will not be tolerated or acceptable.
- 36. Contractor to furnish and install all Cast Stone and Manufactured Stone Masonry per Specifications Sections 047200 and 047300. Contractor includes engineered shop drawings and calculations. Contractor includes all inserts, attachment and anchorage devices / hardware, clips, angles, welding, and caulking for a complete installation of APC and Cast stone.
- 37. 04A Contractor to coordinate with 06A, 09A, 11A, 15A, 15B, and 16A contractor for installation of access doors furnished and installed by other contractors. The 04A contractor to include cutting of all masonry to allow for installation of access doors by others.
- 38. 04A Contractor to furnish and install all air barrier and transition membranes per Specification Sections 072726 and 072736 and rigid insulation as detailed, including but not limited to behind brick, precast, cast stone, finish block, metal panel and soffit areas and all other exterior envelope regardless of backup material. Contractor to coordinate with 05A, 06A, 07A, 08A, 09A, 15A, 15B and 16A for exterior façade elements prior to start of application. 04A Contractor shall furnish and install all components to provide a complete and continuous air barrier assembly. This includes all Air/Vapor Barrier assemblies at the aquatics, locker rooms and kitchen areas identified on A522.

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- 39. 04A Contractor to include joint firestopping per Specification Section 078443 at masonry partitions. 15A, 15B, 16A Contractors are responsible for firestopping at their own penetrations.
- 40. In the event the contractor wishes to feed scaffolding without slabs being poured and the subgrade is disturbed, destroyed, rutted, becomes unsuitable, etc. subgrade will be reestablished either by this contractor, or at this contractor's expense.
- 41. 04A Contractor will provide 3/4" plywood over 2" thick rigid insulation board roof protection while working on any roof surface including just metal decking, and will perform a complete cleaning of substrate once completed. Any damage to substrate, regardless of protection measures is the responsibility of this contractor.
- 42. Contractor shall fill all voids at all full height masonry walls. If CMU wall terminates under beam, 04A shall be responsible for non-combustible material above/below beam. In the event a CMU wall terminates and runs parallel to a beam or joist, it will be the 09A contractor's responsibility to wrap beam or joist with studs, insulation and drywall to obtain particular wall rating.
- 43. Contractors will include cost in base bid price to fill CMU solid at ten (10) locations for solid anchorage by others. Locations to be determined and will be coordinated between the Construction Manager and the 04A Contractor. The pricing is intended to represent cost while 04A Contractor is working on wall, not to return to area or patch after wall is complete.
- 44. The 03A is responsible to cap and maintain rebar caps on rebar the 03A Contractor initially sets, until the hazard no longer exists, or the 04A physically removes caps in order to lay block in same area, at which time the responsibility becomes that of the 04A Contractor to cap and maintain until hazard no longer exists. Once 04A Contractor has assumed responsibility for an area, they are to perform a daily walk to replace any missing rebar caps, regardless of how they came to be removed, until the hazard no longer exists.
- 45. The 04A Contractor is to coordinate with the 07A Contractor with installation and or supplied flashings, and other contractors which are to have items embedded in Masonry.
- 46. 06A Contractor is to furnish, install, maintain, and remove all safety rails and toe boards at all floors, roof, expansion joints, stairs, slab penetrations, pits, deck edges and openings. Provide one (1) 8' wide by 10' high access point for Trade access at perimeter of building to each level. Associated infill after removal is by respective trade to establish finished facade.
- 47. Contractor shall perform point up of masonry prior to start of pirming operation by the painting contractor. Any costs due to excessive re-point at masonry walls after the initial primer coat is applied by the painting contractor will be charged to this contractor.
- 48. In the event the masonry cannot be extended to the intended elevation due to conflicts with framing or other reasons, the Contractor shall furnish a credit for work not performed.
- 49. 04A Contractor to include caulking of all hollow metal frames and louvers, interior and exterior, to adjacent brick, precast, split face, ground face, finish masonry, etc. Color is to be as selected by Architect. Caulking to be at jamb(s), head and sill. Caulking of hollow metal frames and louvers to painted CMU is by the 09F Painting Contractor.
- 50. With respect to work in existing to remain areas of the building, the 05A contractor is responsible for coordination of all required beam and or joist pockets. The 04A contractor is to perform all cutting, setting of embeds and patching of masonry. 05A contractor is to produce embed drawings for 04A use, similar to new construction areas.
- 51. In addition to the requirement of providing daily cleanup of self-generated debris from work and or workers, the 04A, 06A, 09A, 15A and 16A contractors are to include 1 man per every 15 men contractor has onsite, with a mandatory minimum of one man if contractor has less than 15 men onsite. This requirement will be utilized for contractors to participate in a composite cleanup crew. Composite cleanup days will be every Wednesday from 7am

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to 2pm. Construction Manager will provide trash carts, dumpsters and sweeping compounds, all other equipment, PPE or otherwise, i.e. brooms, shovels, etc., are to be contractor provided.

- 52. The 15A and 15B contractors will be required to pretest any piping concealed in masonry chases ahead of remaining piping in that same area, as to allow for quick close in of chases. It is the intent that the 15A and 15B contractor will test the concealed piping and leave stubbed out of chases for connection to latter piping and latter retesting as necessary.
- 53. The 04A Contractor will be required to liberally shake out sand to base of all walls to save labor and time needed with future scrape down at base of walls. In addition, 04A shall liberally apply "baby oil" or equal product to all hollow metal frames immediately prior to laying masonry, again to save labor and time with future clean up.

PART 3 – ALTERNATE SCOPE OF WORK

1. Contractor has reviewed the Alternates scope of work listed elsewhere within the specifications and has included all costs in the event the Owner elects to proceed in whole or in part.

PART 4 – ALLOWANCES

1. Contractor to include an allowance of \$10,000 for potential modification required for installation of masonry and flashing associated with the Greenhouse add alternate #3. In the event the greenhouse is accepted, the final foundation and slab design will be provided by the 06A contractor to the 03A and 04A Contractors to finalize pricing as the final design is expected to vary from what is currently in the bid documents. The intent of this allowance is to cover any potential add due to the final design. In the event the cost is more than this allowance, an additive change order will be issued. In the event the final design is less than what is currently shown in the bid documents, a deduct will be issued as well as a deduct for this unused allowance.

END OF 04A SECTION

PART 2 – SPECIFIC SCOPE OF WORK

- 1. Contractor has reviewed and understands the Contract Package / Specification Cross Reference listed under Section 002413.
- 2. Contractor includes General Scope of Work listed under Part 1 of Section 002416.
- 3. Contractor shall provide all labor, material, equipment, and supervision necessary for and reasonably incidental to the completion of the Site work in accordance with the complete set of Contract Documents.
- 4. The Contractor shall perform at least 30% of this Package by cost with the Contractors own, in-house work forces. Subcontracting or brokering more than 70% of the work shall not be permitted.

Steel Specific Scope of Work:

- 1. Contractor shall provide all labor, material, equipment, and supervision necessary for and reasonably incidental to the completion of the Steel work in accordance with the complete set of Contract Documents.
- 2. Contractor shall furnish and install all interior and exterior structural steel, steel joists, metal decking, and framing for all roof openings and roof screen framing.
- 3. Contractor shall furnish and install all architectural and miscellaneous metal fabrications including, but not limited to, all gratings, ladders, rails, steel stairs, metal pan stairs, circular stairs, removable pre-engineered platform and stairs, stair nosings (furnish only), bollards (furnish only), galvanized metal pour stops, wall bracing, overhead door jamb channels, angles, steel angle fasteners, sump pump frames / grates, bent plates, security gates, swing gates, pipe gates, racks, swivel hooks, tracks, bracing, nelson studs, closures, hangers, hooks, yokes at spaces, ships ladders, alternating tread ladders, roof ladders includes serrated grab bars, decorative ornamental metal, angles at elevator door sills, aluminum and stainless steel at trench drains, and all other miscellaneous and ornamental items that are required as indicated. Note that the bollards and embedded nosings will be installed by the 03A Concrete Contractor.
- 4. Contractor shall furnish only all anchor bolts, nuts, washings, leveling plates, interior and exterior bollards, bearing plates, bent plates, pads, straps, ties, bridging, deck plates, gauge plates, fabricated lintels and hung plates, loose lintels, bent plates, angles, <u>standoffs</u> and all other embedded steel for the entire project in which other trades are installing. 15A or 15B is to provide own steel lintels or sleeves for all openings in walls for 04A to install for duct or pipe openings not called out on structural plans.
- 5. 04A Contractor shall install only all loose and or bolted horizontal steel members, such as angles, beam lintels, anchor bolts (embedded in masonry), structural angles, structural tubing attached to masonry, stainless steel pipe standoffs at the site sign⁴ and the like that are supplied by others. Contractor shall grout all bearing / leveling plates at all CMU walls. If a steel member has a welded connection, and or requires a crane or boom truck (more than the masons lull) to set, 5A to set and connect.
- 6. Contractor to furnish and install all interior and exterior as well as site, stainless steel, aluminum, galvanized and/or painted steel decorative railings, typical railings handrails and guardrail systems complete, as indicated.
- 7. The 05A Contractor shall furnish and install all interior and exterior railings, handrails, guardrails etc. All railing or post sleeves will be core drilled by this Contractor if in concrete or masonry (if acceptable, otherwise sleeving requirements are to be furnished and coordinated by this contractor). In the event they are within the top of a segmental wall, this contractor to closely coordinate sleeving requirements with the 02A Contractor. Contractor shall ensure that railing posts are set in non-expansive materials. Exterior chain link type site fences and vehicular guardrails are by 02A.
- 8. Contractor shall furnish and install galvanized window well grates and frames if required.

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- 9. The 05A Contractor shall furnish and install all steel work associated site monument signs, with the exception of steel pipe standoffs, which are to be furnished to the 04A Contractor for installation.
- 10. All exposed steel must be of a finished quality, without defects or numbering. For marking of steel, use only markers that will not bleed through paint.
- 11. Contractor will provide caulk or metal plate as necessary to provide a tight closure between stringer and wall
- 12. Site access will only be provided per Contract Package descriptions. Crane size and material deliveries must be coordinated accordingly. In the event 05A finds the storage area/access inadequate, 05A to bear cost to modify to their satisfaction as part of base bid cost to comply with OSHA requirements.
- 13. Contractor includes furnish and install of miscellaneous metals for support of toilet compartments, clinic curtains, projection screens, stage curtains, athletic equipment, roof top equipment, metal framed walls, *patient care equipment*⁴, mat hoists, etc. as indicated.
- 14. Contractor to provide prime shop coating, field painting, and touch up as required for all structural steel, joists, and miscellaneous metals. 05A Contractor will install bitumastic paint on columns if required below grade.
- 15. 05A Contractor to include all work as required per Specification Section 072163 Fluid Applied Insulative Coatings at the locations indicated.
- 16. Unless specified as stainless steel, contractor to shop galvanize any metals which remain exposed to exterior elements per the specifications.
- 17. Contractor shall provide all masonry anchors attached to steel. Contractor to coordinate each of the trades as necessary to determine the exact type of anchor required. Contractor shall furnish all anchor bolts for the parapet wood blocking and any other wood shown to be anchor with anchor bolts.
- 18. Contractor shall furnish and install all epoxy bolts/nuts/washers as necessary (including the epoxy).
- 19. Contractor shall furnish and install all swing hooks including, but not limited to, all angle steel, tube steel, steel plate, threaded holes, and stainless-steel threaded hooks.
- 20. Contractor shall coordinate with each of the trades to provide all steel framing, supports, openings, sleeves, and bracing that is required.
- 21. Contractor shall furnish and install all metal deck and framing patch and infill required at existing openings after demolition of rooftop equipment or penetrations. Contractor also includes all deck and framing at slab infill locations.
- 22. Contractor shall immediately provide and maintain MOSH compliant temporary handrails at all steel pan stairs, safety rails at all slab edges, stairwells, roof edges, slab openings, roof openings, elevator openings, and penthouses. Handrails shall be maintained and removed by this Contractor at the direction of the Construction Manager. Contractor also has installation and maintenance of safety cables at all slab edges and openings created after completion of the demolition at areas are to remain. Contractor includes removal of safety cables and angles ground below concrete prior to the start of finishes.
- 23. Contractor shall touch up and paint / field galvanize all welds including, but not limited to, those welds at all joists, beams, columns, moment connections, metal decking, and any other steel or miscellaneous metals item supplied by this Contractor. For galvanized material, contractor to minimize field welding on galvanized metals. Galvanized materials should be fabricated in the longest practical lengths to avoid field repairs to the galvanized coating. All galvanizing holes are to be plugged and touched up at shop prior to field installation.
- 24. Contractor shall provide field beam penetrations where approved by the structural engineer.

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- 25. 05A Contractor shall coordinate the joist and beam layout with the 15A, 15B and 16A Contractors and shift the layout as necessary to accommodate the work of these contractors prior to fabrication and at no additional cost to the Owner, given structural engineer approval. 05A Contractor includes coordination of x-bracing to accommodate ductwork in joist space where necessary. Where duct is required to be installed within joist bays, contractor to modify bridging as required to allow for installation of duct at no cost.
- 26. Contractor shall furnish and install all lintels and hung plates attached to steel and shall, by use of instrument or other accurate device, ensure that all lintels and hung plates are set to proper line and grade and measured from established control points.
- 27. Contractor to coordinate hung plate length(s) with masonry opening size to ensure end gaps of plate are not more than 1/4" so caulking contractor can provide adequate seal.
- 28. Contractor shall provide anchor bolt drawings and templates to both the Construction Manager and the Concrete Contractor within thirty (30) days of receiving a Letter of Intent, Notice of Award or the Contract, whichever is issued first.
- 29. Contractor shall provide a complete survey and verify anchor bolts locations. Survey to be completed at foundation completion but no later than two (2) weeks prior to erection of steel and must be submitted within two weeks of completion of survey. Contractor will notify the Construction Manager of any discrepancies or variations. If the Contractor does not advise the Construction Manager prior to the erection of steel, then the cost of the correcting any discrepancies or variations shall be the sole responsibility of this Contractor. The survey results shall include only those bolts/plates that are out of tolerance. Results shall be presented in 8-1/2" x 11" format (one (1) page per location) and shall show actual location/elevation of bolts/plates referenced from appropriate grid line/datum.
- 30. Contractor shall furnish, install, reconfigure, maintain, and remove all OSHA specified protection required in relation to its work at the direction of the Construction Manager. Contractor shall cover and provide fall protection for all openings in metal deck created by this Contractor.
- 31. Contractor shall furnish, install, reconfigure, maintain, and remove barriers in areas where steel is being installed and around the entire perimeter of elevated floors and roofs. Contractor shall provide the proper barriers to prevent people from entering areas steel is passing over.
- 32. Contractor shall review all documents for locations of openings in the Roof System that will be required by others. Contractor shall furnish and install all structural supports, angle, and safety rails for these openings. Contractor will be responsible for all openings shown on all drawings in its work.
- 33. Contractor shall protect all adjacent work and structures from welding sparks, slag, or any other results of this Contractor's work. Contractor to include all necessary fire watches.
- 34. Contractor shall coordinate with all other trades to properly set items supplied by this contractor and embedded or otherwise installed by others.
- 35. Contractor shall coordinate with all other trades which require access through structural elements.
- 36. Contractor shall coordinate with the 04A Contractor and confirm in the field to assure that wall mounted handrail connections on masonry walls are fastened through solid grouted CMU.
- 37. Contractor has reviewed existing site conditions and access roads for confirmation of delivery of long span items. In the event deliveries cannot be made, contractor to field splice items on site as necessary at no added cost to the Owner or Construction Manager. Design and engineering of field splices are considered base bid.
- 38. Initial testing and inspection costs are by Owner. In the event of a failed inspection due to a result of negligence, poor workmanship, or failure of work to meet the requirement of the documents, all re-inspection fees will be back charged to this contractor.

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- 39. Installation of embeds and anchor bolts are by others. This contractor responsible for any subsequent welding of joists, beams, angles, lintels, hung plates etc. to embed set by others.
- 40. Grouting of base plates is by others.
- 41. Final field painting unless noted as included in above scope is by others.
- 42. Contractor will provide 5/8" plywood protection, with welding blankets while working in/or around finishes spaces such as roofs, casework, VCT, carpeting, wood flooring, or flooring to remain etc. Any damage to other trades work caused by this contractor will be charged accordingly to this contractor.
- 43. This contractor includes all snow removal from roof deck so the installation of roof decking is not impeded. This removal is to commence no later than 24 hours after snow event.
- 44. Contractor to include angle frame, ladder and grating at all sump pits capable of supporting no less than 300 lbs.
- 45. Any wall penetration required by other trades which has a diameter or horizontal dimension greater than 12" shall require a lintel or sleeve be installed. Locations which are to be steel beam or hung plate which are clearly called out on the structural drawings and will be furnished by 05A, and depending on connection, installed by either 04A or 05A. Both the 15A, 15B and 16A contractors are to furnish pipe sleeves regardless of pipe size, installed by 04A or 09A. For all duct/damper openings above ceiling, 15A is to provide steel angles, installed by 04A. For all duct/damper openings below ceiling and exposed, it is assumed to be a concrete U lintel, precast lintel or bond beam, where allowed by the structural drawings, by 04A. All openings in fire walls are to have either a precast lintel, concrete U lintel or concrete portal. Steel is not permitted in fire wall openings. In the event it is a concrete portal, all reinforcing and concrete is by 03A. If detailed as a precast lintel or concrete U lintel, they are furnished and installed by 04A.
- 46. As this is an aggressive schedule, fabrication and delivery of material is key to making this schedule. Contractor has reviewed the Preliminary Schedule fabrication durations and acknowledges to meet or improve the durations listed by any and all means necessary; inclusive of second and or third shift operations during fabrication as well as multiple dedicated shipments to the site each week.

Metal Walkway Covers Specific Scope:

- Contractor shall design, furnish and install all metal canopies and walkway covers complete including, but not limited to all aluminum members, fasteners, installation accessories, protective coatings, grout, gaskets, aluminum flashing, columns, beams, deck, fascias, closures, and finishes as required per the Contract Documents and Specification Section 107326.13
- 2. All concrete footing design and installation is to be by the 03A Contractor. This contractor is responsible for all coordination as required, including, but not limited to furnishing all embedded items.

PART 3 – ALTERNATE SCOPE OF WORK

1. Contractor has reviewed the Alternates scope of work listed elsewhere within the specifications and has included all costs in the event the Owner elects to proceed in whole or in part.

PART 4 – ALLOWANCES

1. There are no allowances with this scope of work.

END OF 05A SECTION

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PART 2 - SPECIFIC SCOPE OF WORK

- 1. Contractor has reviewed and understands the Contract Package / Specification Cross Reference listed under Section 002413.
- 2. Contractor includes General Scope of Work listed under Part 1 of Section 002416.
- 3. Contractor shall provide all labor, material, equipment, and supervision necessary for and reasonably incidental to the completion of the *Site General Trades* ³ work in accordance with the complete set of Contract Documents.
- 4. The Contractor shall perform at least 20% of this Package by cost with the Contractors own, in-house work forces. Subcontracting or brokering more than 80% of the work shall not be permitted.

General Carpentry, Rough Carpentry Scope:

- 1. Contractor shall furnish and install all rough carpentry work as required by the Contract Documents and Specification Section 061053, including but not limited to concealed or temporary wood work, blocking, in-wall blocking, roof blocking, wood furring, grounds, bucks, wood plates, plywood, plywood sheathing, plywood wainscoting, trimming and working of wood or wood fibered materials, nailers, compressible fillers, isolation pads, and all other rough carpentry and accessories including but not limited to anchor bolts, fasteners of any type, glue, adhesive, etc. Contractor shall furnish and install all other general carpentry work and wood blocking required by job conditions.
- 2. Contractor shall furnish and install all wall concealed and exposed wood blocking for all items furnished by this and other Contract Packages, (Fire Treated (FRT)), as required. Contractor is not responsible for metal strapping in metal stud walls or for any 09A work. 09A Contractor to provide continuous 20-gauge metal strapping (two (2) rows per elevation) at all metal stud walls for cabinets, visual display boards, (i.e., chalk, tack, marker), lockers, handrails, etc. for any item which is surface-mounted.
- 3. Contractor shall furnish and install solid wood blocking behind all wall hung cabinets, display boards, televisions, etc. even if these items are designated "NIC" or, "future", or "by others". This blocking is not required behind base cabinets unless specifically required or shown. This is in addition to any strapping requirements.
- 4. Contractor shall furnish and install all plywood backing and backboards required for Mechanical, Electrical, Telephone and Data installations, Contractor to assume all walls of each room unless specifically detailed otherwise, 8'-0" high, starting 8" AFF. Contractor to mask off FRT label prior to painting of plywood by painter.
- 5. Contractor shall infill/cover, maintain, and remove as necessary all stair treads (concrete, steel, or any other material) with wood. Construction Manager will advise when protection may be removed. Any patching required as a result of installation or removal of this protection is the responsibility of 06A Contractor.
- 6. Contractor shall furnish, install, maintain, and remove all wood safety rails and toe boards at all floors, roof, expansion joints, stairs, slab penetrations, pits, deck edges and openings. Any patching if required to structure due to installation is by 06A. Rails must be wood and in compliance with all MOSH/OSHA standards. Steel safety cables are by 05A.
- 7. Contractor includes horizontal wood handrail at all openings with sills less than 42" in height which could be a fall hazard per MOSH/OSHA standards. Wood rail to be installed per all MOSH/OSHA standards. Contractor includes removal immediately before opening is filled in with final material such as louver, window, etc.
- 8. In the event of pending weather, the 06A Contractor is to protect exterior blocking as practical from exposure to weather. 06A Contractor shall be responsible for replacing material if it is deemed unacceptable due to exposure to the elements.

- 9. 06A is to furnish and install temporary doors at all electric, telephone, data and machine rooms. 06A to include hinges, hasps, and temporary closer as necessary. Construction Manager to provide lock.
- 10. <u>06A contractor is to furnish and install both the bridge and "Step Up Decking" complete as per L-2.4 and 7,8/L-2.6. This includes all handrails, pickets, caps, stringers, decking, etc. as required.⁴</u>

Expansion Joint Cover Assemblies Scope:

- 1. 06A Contractor shall furnish and install all floor and wall expansion joint cover assemblies complete as required by the Contract Documents and Specification Section 079513.13. Expansion joint cover assemblies at drywall or acoustical ceiling locations to be furnished and installed by the 09A package. If caulking is required at 06A assembly in 09A work, 09A is to provide caulk as well. In the event control or expansion joints are not shown but required to control cracking/expansion per manufacturers recommended installation procedure or if specified in Division 9, 09A is to furnish and install these assemblies complete.
- 2. Contractor includes all coordination with Concrete, Masonry and Steel Contractors for required blockouts. Contractor includes all incidentals with installation inclusive of grout, flash patching, minor chipping and prep work for a complete installation.

Frames, Doors, and Hardware Scope:

- 1. Contractor to furnish and install all FRP, hollow metal frames, borrowed lite frames, wood doors, steel doors, fiberglass doors & aluminum frames, metal sound control door assemblies, and hardware complete per Specification Sections 081113, 081416, 081613, 083473.13, and 087100.
- 2. Contractor includes storage at offsite location of all doors and hardware as space is extremely limited. Contractor to coordinate with construction manager and other trades for shipment of hollow metal frames. Contractor can assume no less than 3 shipments. No wood doors will be allowed onsite until conditioned air is available and without written approval of construction manager.
- 3. Contractor to provide (1) 3' x 7' hollow metal frame for installation within masonry mockup panel.
- 4. With the exception of Automatic Door Operators at Aluminum entrances, which are furnished and installed by 08A, all other electrified hardware is furnished and install by 06A. For further clarity, 06A is to furnish and install automatic door operators per specification section 087100 at hollow metal frames. 06A is to furnish and install magnetic hold opens as indicated with 16A making connection to the fire alarm system. 06A is to furnish and install magnetic locks, with assistance from 16A for required conduit rough-in. The 06A Contractor shall provide controls, power wiring, junction boxes, rectifiers, and transformers and connection with electrified hardwired being provided in their package. The 06A, 08A and 16A Contractor shall coordinate required conduit or pathways being furnished by 16A for 06A or 08A use. The 06A, 08A and 16A contractor to ensure proper power requirements are brought to each location as well as required interaction with security and fire alarm system. With respect to any electrified hardware, it is the 16A contractor's responsibility to bring power to each door location, and install required power pack (furnished by others) at each door location (central locations will not be utilized due to length of run limitations on provided low voltage wiring); actual electrified door hardware is installed by 06A (or 08A at aluminum entrances) then 16A has power wiring and verification of wiring and final connections. 06A and 08A would then have associated respective adjustments. Security card readers are 16A to furnish and install with coordination from both 06A and 08A depending on location.
- 5. Contractor to include final keying of all cylinders furnished under this scope as well as storefront and overhead doors scope per Owner/CM direction. All hardware is to be shipped with "construction cores", keyed identically for ease of construction and installation as well as controlled access of other trades by Construction Manager. After final cleaning is performed, all construction cores are to be replaced with final keyed cores. Contractor to provide to Construction Manager six (6) complete sets of construction use keys for CM use and distribution as necessary to other trades.

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- 6. 06A Contractor to furnish all required door hardware to the 08A contractor for installation by the 08A contractor for all aluminum doors and frames. This hardware is to be procured, collected, and palletized by the 06A contractor and shipped by the 06A Contractor to the 08A Contractor direct and free of charge. Use of templates will not be permitted when the 08A Contractor is producing final aluminum doors and frames.
- 7. Contractor shall include all costs to deliver hollow-metal frames in sufficient time to avoid delay to masonry construction. In the event delivery dates are not met, this contractor will be responsible for any and all costs, as well as repair of frames that have to be installed in "toothed" openings if damaged or moved during installation.
- 8. Contractor shall coordinate with Masonry and Drywall Contractors to ensure timely installation of hollow metal work. 06A Contractor shall install all hollow metal work plumb, level, square, and true to line and shall be responsible for properly bracing, maintaining and repairing the work until the Masonry Contractor's acceptance. The 09A, Drywall Contractor, is to set hollow metal frames in metal stud partitions. Frames are furnished by 06A.
- 9. Contractor shall review all door and hardware schedules for correctness and compatibility.
- 10. Contractor to protect wood and fiberglass doors from damage. This, at a minimum, will be ¼" cardboard on both sides of door from floor to 6' above floor and maintained as necessary until substantial completion. This is to be part of base bid cost.
- 11. 06A Contractor includes infill of all hollow metal window, side light, borrowed light, etc. openings with plywood supported at 2'-0" OC as necessary as masonry progresses and frames are blocked in on lower floor(s) This is for security as well as weather protection. Removal of this material is by 06A to allow for painting of frames by 09F prior to installation of permanent glass by 08A. If 08A contractor installs glass prior to painting of frame, it will be the 08A contractor's responsibility to remove and reinstall after paint at no charge.
- 12. Contractor shall allow for a minimum of two coordination meetings with the Owner to determine how the final keying of the building will be performed.
- 13. Contractor includes final key cabinet furnish and installation, location to be determined by Owner. This is to include complete full setup of key cabinet inclusive of all necessary tagging inside cabinet and stamped on each key provided.
- 14. Immediately prior to substantial completion, the 06A contractor to verify installation of all hardware provided and installed under this scope of work, as well as verification of proper installation at all aluminum doorways installed by the 08A Contractor to ensure proper installation and function of all hardware. <u>06A Contractor is responsible for repairs/corrections to hardware installed by 06A Contractor.</u> <u>08A Contractor is responsible for repairs/corrections to hardware installed by 08A Contractor.</u> <u>08A Contractor is responsible for repairs/corrections to hardware installed by 08A Contractor.</u> <u>08A Contractor is responsible for repairs/corrections to hardware installed by 08A Contractor.</u> <u>08A Contractor is responsible for repairs/corrections to hardware installed by 08A Contractor."</u>
- 15. Manufacturer's Representative to review installation of all hardware provided under this package. Each Manufacturer Representative is to make final adjustment on all door hardware, inclusive of all hardware supplied to other Contractors for installation, two weeks prior to substantial completion, at six months later after substantial completion, and at the end of the installation warranty period if need be.
- 16. Provide 20 additional cylinders and cores keyed to building master key system for gym equipment, overhead doors, and all key switches.
- 17. As required, at wood, metal and/or fiberglass (FRP) doors, 06A shall furnish doors with metal frame vision kits. 08A Contractor will set glazing and secure glazing in position after painting.

Coiling Counter Doors scope:

1. Contractor shall furnish and install all coiling counter doors complete, required by the Contract Documents including access panels as necessary to service equipment per Specification Section 083313.

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2. Contractor includes cost of factory-authorized service representative to perform startup and training of owner's personnel.

3. Contractor includes cost of 24 months full maintenance by a skilled employee per specifications in base bid.

Overhead Coiling Doors scope:

1. All overhead coiling doors required by the Contract Documents including access panels as necessary to service

equipment per Specification Section 083323.

2. The electrical contractor shall provide all power wiring, junction boxes, conduit, as shown on contract documents up to the disconnect. This contractor is to provide any required disconnects, electric motor, remote controls, rectifiers, and transformers as well as provide assistance to electrical contractor for final connection of power. Any conduit, wiring, boxes after the disconnect is the responsibility of this contractor. Contractor to coordinate with Electrical contractor to ensure proper power requirements are brought to each disconnect, as well as required interaction with

security and fire alarm system.

3. Contractor includes furnish and installation of electric door operator with means of disconnect, electric motors, limit

switches, sensors, control stations, audible and visual signals, etc.

4. Contractor includes cost of factory-authorized service representative to perform startup and training of owner's

personnel.

5. Contractor includes cost of 24 months full maintenance by a skilled employee per specifications in base bid.

Display Cases and Boards Specific Scope of Work:

1. Contractor shall provide all labor, material, equipment, and supervision necessary for and reasonably incidental to

the completion of the display work in accordance with the complete set of Contract Documents.

2. Contractor shall furnish and install all bulletin boards, display cases, visual display boards, markerboards, tackboards, display strips, trays, aluminum frames and trim, and accessories as required by the Contract Documents and as referenced in Specification Sections 101100 and 101200. For all cork material, contractor to install only after material has acclimated to building conditions for a minimum of 7 days, or as per manufacturers recommendations,

whichever is more stringent.

3. Contractor shall provide locks, display rails, end stops, and any other accessory required by the Contract

Documents.

4. Contractor shall furnish and install all tackboard panels, glazed sliding doors, shelves, standards and supports, back

panels, illumination and all other accessories required by the Contract Documents at display cases.

5. Contractor to caulk or provide fillers a necessary to provide a finished appearance where this Contractor's work

abuts other materials.

6. Contractor shall provide daily cleanup of all trash and debris generated by the work and place in dumpster furnished by the Construction Manager. Upon completion of each phase of work in any given area, the Contractor shall leave

the area in broom clean condition. Should the Contractor's cleanup be unsatisfactory, the Construction Manager

shall perform the work at the Contractor's expense.

7. Contractor to coordinate any electrical requirements for materials being provided under this package with the 16A

contractor prior to wall rough in, or any costs to change wall rough in will be at this Contractor's expense.

Signage Specific Scope:

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1. Contractor to furnish and install all interior signage, panel signage, die-cut vinyl graphics, plaques, exterior and interior stainless-steel letters, signage accessories and the like inclusive of fasteners and or mastics(s) per Specification Sections 101416, 101423, 101463 and 101419.

Contractor shall furnish and install all in-wall blocking required for this work, prior to wall close-in by 08A and 09A contractors.

3. Contractor includes all incidental caulking of own work for a complete installation.

4. Contractor shall silicone all sign perimeters to mounting surface to deter student removal.

5. Room identification signage to be mounted at latch side of door, 48" AFF to bottom of sign, and 9" from edge of door frame to center of sign, and to have a clear perimeter sealant. Note, no tactile characters can be less than 48" AFF or more than 60" AFF. In the event a sign is taller than 12", mounting location needs to be confirmed by design team. In the event a sign cannot be mounted as stated, contractor to immediately notify Construction Manager as this is a potential ADA concern.

6. Contractor shall include Life Safety Signs per bid documents.

7. Contractor includes back panel on all signage mounted on glass.

8. Contractor shall furnish and install all 24" tall dimensional characters to say "ROCK CREEK SCHOOL" and include the mounting to the exterior of the building.

9. Contractor shall furnish and install all 12" tall stainless-steel letters to say "55B" and include the mounting to the exterior of the building.

10. Contractor shall furnish and install all 6" tall stainless-steel building address letters/numbers to say "55B" (@RCS) and "55" (@WMS) and include the mounting at the new Rock Creek School site sign and the new Walkersville Middle School site sign respectively as per A407.

11. Contractor shall furnish and install all other dimensional characters, both interior and exterior, as identified in the Contract Documents.

12. Contractor to furnish and install all LED Signboards per Specification Section 101463. Conduit rough in, feeders and disconnect are by 16A, line side wiring to sign by 06A. 06A to coordinate roughin location with 16A.

13. Furnish and Install one (1) Project Construction Sign to be placed at a location determined by Construction Manager. Sign can be obtained from Maryland Correctional Enterprises; Contact: Charles Behnke 410-799-5102.

14. Provide all attic stock as required.

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15. All street and or parking signage is provided and installed by the 02A Contractor, with the exception of the Site Project Sign.

Cubicle Curtains & Track Specific Scope:

1. Contractor to furnish and install all cubicles complete including but not limited to, track, curtain, track accessories, curtain carriers, exposed fasteners, concealed fasteners, etc. as indicated on the contract documents and Specification Section 102123.

2. Contractor includes field measuring of spaces prior to fabrication.

Toilet Partitions and Accessories Specific Scope of Work:

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- 1. Contractor shall provide all labor, material, equipment, and supervision necessary for and reasonably incidental to the completion of the Toilet Partitions and Accessories work in accordance with the complete set of Contract Documents.
- 2. Contractor shall furnish and install all toilet, bath and laundry accessories, toilet compartments, urinal screens and wardrobe accessories as required by the Contract Documents including, but not limited to, toilet tissue dispensers, paper towel dispensers³ grab bars, mirrors, sanitary napkin disposals, shower seats, robe hooks, shower grab bars, shower curtain rods, shower curtains and hooks, privacy curtains, underlavatory guards, chemical dispensing systems, and mop and broom holders. This includes any accessories required in classrooms, kitchen, or other common areas (i.e., paper towel/soap dispensers) or as indicated. This includes all work indicated per Specification Section 102113.19 and 102800.
- 3. Contractor shall provide installation for Owner Furnished, Contractor Installed items <u>per Contract Documents. per Specification Section 102800, including, but not limited to all toilet tissue dispensers, liquid soap dispensers, paper towel dispensers.</u>
- 4. Contractor shall be responsible for field measuring prior to release of materials.
- 5. Contractor shall coordinate with Construction Manager regarding all locations and mounting heights for toilet accessories. The Contractor's shop drawings shall show specific size and location of all blocking required by the work included in this Contract Package. Contractor shall be responsible for adherence to all ADA and handicapped regulations, with special attention to sheet A401.
- 6. Contractor incudes all incidentals to this work inclusive of caulking for a complete installation
- 7. Contractor will cut, reinforce and trim toilet partitions if necessary to install items common between two (2) stalls and shown as a thru wall accessory.
- 8. Contractors shall provide daily cleanup of all trash and debris generated by the work and place in dumpster furnished by the Construction Manager. Upon completion of each phase of work in any given area, the Contractor shall leave the area in broom clean condition. Should the Contractor's cleanup be unsatisfactory, the Construction Manager shall perform the work at the Contractor's expense.
- 9. Contractor to coordinate with floor and wall finish contractor for installation of fasteners as applicable. Any damaged finishes which occurs during installation of work under this scope, will be the responsibility of this contractor.
- 10. Contractor responsible for final adjustment of hardware per the specification immediately prior to substantial completion.

Lockers and Shelving Specific Scope of Work:

Dustin Construction Inc.

- 1. Contractor shall provide all labor, material, equipment, and supervision necessary for and reasonably incidental to the completion of the Lockers and Shelving work per Specification Sections 105113 and 105613, in accordance with the complete set of Contract Documents.
- Contractor shall furnish and install all solid plastic lockers including staff lockers, corridor lockers, aquatics lockers, locker accessories, continuous piano hinges, handles, identification plates, hooks, final cleaning and lubrication prior to substantial completion, and as required by the Contract Drawings and Specification Section 105126 Plastic Lockers
- 3. Contractor shall furnish and install all fixed locker room benches with backs as per Specification Section 105153. Contractor shall coordinate with 03A for locations of thickened slab and floor sleeves if applicable.
- 4. Contractor to furnish and install all metal storage shelving including but not limited to four post metal storage

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shelving, inclusive of posts, bracing, solid type shelves, shelf-to-post connectors, bases and tops, and anchors, as required by the Contract Drawings and Specification Section 105613 Metal Storage Shelving.

- 5. Contractor to submit numbered layout drawing for all lockers, prior to fabrication, and use of ordering locker number plaques for approval, as some lockers may be deleted during this process.
- Contractor will provide fillers and caulk as required to provide a finished appearance where lockers abut other materials.
- 7. Contractor shall provide daily cleanup of all trash and debris generated by the work and place in dumpster furnished by the Construction Manager. Upon completion of each phase of work in any given area, the Contractor shall leave the area in broom clean condition. Should the Contractor's cleanup be unsatisfactory, the Construction Manager shall perform the work at the Contractor's expense.
- 8. Contractor acknowledges no metal shelving will be set until after floor final waxing has occurred and contractor will be working over completely finished floors and spaces during installation, and will perform 100% cleanup to leave space in condition ready for Owner use.

Projection Screen Specific Scope:

- 1. Contractor shall furnish and install all projection screens and accessories as required by the Contract Documents and as referenced in Specification Section 115213.19.
- 2. Contractor shall include cost to train Owner's personnel in base bid.
- 3. Contractor will provide all necessary supports, mounting brackets and support hardware for projection screens. Ceiling hung projection screens shall be supported from structural steel above. Support from the ceiling grid will not be permitted. Contractor to advise during structural steel coordination any need for supplemental steel support; in the event this is not coordinated, the need for supplemental steel is then this Contractor's responsibility. In the event structural steel is not immediately above projection screen elevation, Contractor includes beam clamps, all thread, hangers, kendorff etc. to utilize structural steel at above floor or roof level and no additional structural steel will be provided immediately above ceiling elevation.
- 4. Contractor to coordinate any electrical requirements for materials being provided under this package with the 16A contractor prior to wall rough in, or any costs to change wall rough in will be at this Contractor's expense.
- All items within this Contract Package, which are specified or required to have electrical service or electrical outlets, shall be furnished with complete integral wiring by this Contractor, for single connection at a junction box or disconnect by the 16A Electrical Contractor.
- 6. Key switch operation is to be on building master key system.

Stage Curtains Specific Scope:

Dustin Construction Inc.

- 1. Contractor to furnish and install all video studio curtains, stage curtains, and tracks complete per Specification Section 116143.
- 2. Contractor to include stage curtains, scrims, drops, draw-curtain tracks and curtain rigging, per contract documents.
- 3. Contractor shall include cost to train Owner's personnel in base bid.
- 4. Contractor to coordinate any electrical requirements for materials being provided under this package with the 16A contractor prior to wall rough in, or any costs to change wall rough in will be at this contractor's expense.

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5. All items within this Contract Package, which are specified or required to have electrical service or electrical outlets, shall be furnished with complete integral wiring by this Contractor, for single connection at a junction box or disconnect by the 16A Electrical Contractor.

Exercise Equipment, Gymnasium Equipment and Dividers Specific Scope:

1. Contractor to furnish and install all Exercise Equipment, Gymnasium Equipment and Gymnasium Dividers complete per Specification Sections 116613, 116623 and 116653.

2. Furnish and install all warranties as specified.

3. Contractor to include all pull up bars, climbing walls, dance barres, basketball equipment, volleyball equipment, exercise equipment, and safety pads, per contract documents.

4. Furnish and install basketball equipment by a specified manufacturer, including overhead supported and wall mounted backstops, with the specified backboards, safety devices, safety pads, safety devices, height adjusters, winches, electric operators, goals, and nets.

5. 06A Contractor shall furnish, core drill and install volleyball floor sleeves. Coordinate with 09D Contractor. 09D Contractor to layout and cut to install inserts in floor only.

6. Furnish and install electrically operated, top-roll divider system complete with all accessories as required.

7. This Contractor is responsible for protection of all adjacent finished work and will be responsible to clean, repair or replace any finished material damaged due to work by this trade damaging finished materials.

8. All items within this Contract Package, which are specified or required to have electrical service or electrical outlets, shall be furnished with complete integral wiring, including control wiring, by this Contractor, for single connection at a junction box or disconnect by the 16A Electrical Contractor.

9. Contractor shall include cost to train Owner's personnel in base bid.

10. Key switch operation is to be on the building master key system.

Patient Care Equipment Specific Scope:

1. Contractor shall furnish and install all patient care equipment complete per Specification Section 117300.

2. Contractor includes furnishing and installing all ceiling mounted patient lifts, with fixed ceiling tracks, ceiling tracks with transverse rails, lift units, straps, and carry bars as required per the Contract Documents.

3. Contractor includes furnishing and installing all changing tables as required per the Contract Documents.

Roller Shades Specific Scope:

Dustin Construction Inc.

1. Contractor to furnish and install all roller shades complete per Specification Section 122413.

2. Contractor to coordinate with HM Frame and Aluminum Frame suppliers for method of attachment.

3. Whether indicated or not, the 06A Contractor will be required to furnish extension wands as necessary to operate shades.

4. Contractor will be responsible for final adjustment, cleaning and touch up immediately prior to substantial completion.

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- 5. Contractor to include own labor and equipment for unloading of deliveries, deliveries which arrive without contractor forces onsite will be immediately denied access to the site.
- 6. Contractor acknowledges no materials can be released until mandatory preorder conference has occurred. Contractor to schedule conference through Construction Manager.

Millwork & Casework Scope:

- 1. Contractor to furnish and install all millwork, finish carpentry for 062000 Finish Carpentry, casework for 123216 Manufactured Plastic-Laminate-Faced Casework and 123550 Media Center Casework including but not limited to adjustable wood shelving, wood benches (including those in the corridor spaces), associated cabinet hardware and accessories, interior wood frames and jambs, wood caps at low walls, custom changing table cabinets, workstations, PLAM benches, casework, reception desks, book shelving units, circulation desks, book trucks, display tables, magazine shelving, wood railings, shop finishing, PLAM countertops, solid surface countertops, solid surface sills and aprons, integral bowls in solid surface tops, emergency showers or stations, countertops cauling fillers and grommets, etc. or as detailed on the construction documents. Any final plumbing related connections are to be by 15A.
- 2. Contractor will be required to modify casework as necessary to allow for MEP trade rough in, as well as provide cutouts for outlets, switches, devices, sinks and fixtures installed in Casework by others, cutouts are to be field performed.
- 3. Contractor to include all hardware including keying requirements for all work provided within this scope of work, in accordance with respective specification section. No hardware will be provided by other trades to make this scope of work complete
- 4. Contractor to provide all glass and glazing required for a complete installation of work provided under this contract. No glass or glazing will be provided by other trades to make this scope of work complete.
- 5. Contractor is responsible for all hardware necessary to anchor or affix its work in a permanent location.
- 6. Contractor to protect casework being furnished and installed under this package from damage. Casework protection shall be, at a minimum, 1/4" Masonite blue taped to the countertops. Contractor responsible for replacement of damaged casework and or countertops. This is part of base bid cost.
- 7. All items within this Contract Package, which are specified or required to have electrical service or electrical outlets, shall be furnished with complete integral wiring by this Contractor, for connection at a junction box by the 16A Electrical Contractor. This requirement does not include receptacles, which may be shown in casework. This Contractor shall provide cutouts for outlets, switches, devices and fixtures installed in Casework by other Trades.

Greenhouse Specific Scope (Add Alternate #3)

- 1. 06A Contractor to furnish and install a complete greenhouse per Specification Section 133413.13 to include but not limited to glazing, structural steel members, ventilation, heating, shading systems, lighting, watering system(s), environmental control system, and benches. The 06A Contractor shall provide a signed and sealed design for the foundation, footings and slab per the Contract Documents. Furnishing and installation of foundations, footings, slabs and masonry will be respective trade contractor if add alternate is accepted.
- 2. Contractor includes any incidental caulking of this work for a complete installation.
- 3. Contractor to include own labor and equipment for unloading of deliveries, deliveries which arrive without contractor forces onsite will be immediately denied access to the site.

Miscellaneous Scope Items for General Trades Package:

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- Contractor shall furnish and install all wall coverings complete per Specification Section 097200. Contactor to
 furnish and install all custom vinyl wall graphics and plexi covers as indicated in the Contract Documents.³
- 2. Contractor shall furnish and install all wall and door protection, mechanically fastened with tamper resistant screws per Specification Section 102600 and as detailed on drawings.
- 3. Contractor shall furnish and install all Fire Protection Cabinets and Fire Extinguishers per Specification Sections 104413 and 104416, including all blocking and accessories as required for complete installation.
- 4. Contractor shall furnish and install all Defibrillator Cabinets per Specification Section 104313.
- 5. Contractor shall furnish and install all flagpoles and required footings per Specification Section 107300.
- 6. Contractor shall furnish and install all commercial laundry equipment per Specification Section 112173. Final connections to be made by 15A and 16A contractors as required.
- 7. Contractor shall furnish and install all loading dock bumpers and accessories per Specification Section 111313.
- 8. Contractor shall furnish and install all office equipment, including, but not limited to all literature racks and mail sorters as required per Specification Section 112800 Office Equipment.
- Contractor shall furnish and install all residential appliances, including, but not limited to all electric cooktops, ranges, microwave ovens, exhaust hoods, refrigerator/freezers, icemakers, dishwashers, and clothes washers and dryers as required per Specification Section 113013.
- 10. Contractor shall furnish all kilns and related accessories complete per Specification Section 119513.
- 11. Contractor shall furnish <u>a minimum of</u> one knox box, installation is by 04A. <u>Quantities and locations to be as</u> <u>shown on the drawings.</u> Knox Box is to be authorized by local fire marshal prior to release.
- 12. Contractor shall furnish and install all floor hatches as identified in the Contract Documents.
- 13. Contractor shall install all wall mounted adjustable arm monitor brackets furnished by the Owner per Contract Documents.
- 14. 06A is to furnish, install, and maintain fire extinguishers onsite and in building per MOSH/OSHA requirements for general building protection during construction. All Trades are to provide fire extinguishers, blankets, and any other provisions for burning, welding, soldering, braising, or any hot/fire work performed by the Contractor in performance of their work in any area as specifically necessary.
- 15. 06.4 Contractor includes in his bid temporary electric power, pumps and sufficient length of hose to discharge water away from the building footprint and continual maintenance for dewatering of all below grade pits. The 03.4 Contractor to include 4x4 block out, 3' deep in lower level(s) prior to and after pour of slab on grade, excavation for temporary sump pit, pump, power and or generator, hose, labor as needed, demucking, backfill and secondary slab patch when no longer needed. Sump pit to be utilized after rain event(s) to remove water from lower level areas in order for all trades to keep working efficiently. The 03.4 Contractor includes temporary rails, toe boards, etc. for fall protection at sump pit areas. Once 06.4 contractor has daily presence onsite, all pumps, hoses, power, and daily maintenance is then the 06.4's responsibility until building is dried in and sump can be eliminated and turned back over to 03.4 for completion of slab. Temporary sump(s) to be located by Construction Manager, but 03.4 and 06.4 can assume one location. In the event temporary power is not available to run required pumps, 06.4 is to then provide generator as required as the 03.4 Contractor is no longer responsible for this requirement.4
- 16. In addition to the requirement of providing daily cleanup of self-generated debris from work and or workers, the 04A, 06A, 09A, 15A and 16A contractors are to include 1 man per every 15 men contractor has onsite, with a

mandatory minimum of one man if contractor has less than 15 men onsite. This requirement will be utilized for contractors to participate in a composite cleanup crew. Composite cleanup days will be every Wednesday from 7am to 2pm. Construction Manager will provide trash carts, dumpsters and sweeping compounds, all other equipment, PPE or otherwise, i.e. brooms, shovels, etc., are to be contractor provided.

- 17. Provide one (1) 8'-0" wide temporary scaffold stairs with access to roof level for Trade access at perimeter of building (Location TBD by CM).
- 18. 06A Contractor to furnish, install, and maintain temporary exit signs as necessary in compliance with MOSH/OSHA standards during construction. Signs are to be removed at Construction Manager's direction. Any patching as necessary is to be included as part of base bid cost.

Resinous Matrix Terrazzo Specific Scope of Work (Add Alternate #6)

- Contractor shall provide all labor, material, equipment, and supervision necessary for and reasonably incidental to the completion of the Resinous Matrix Terrazzo work in accordance with section 096623 and the complete set of Contract Documents.
- 2. Contractor shall furnish and install all Resinous Matrix Terrazzo at Commons 002 including all divider strips, control joint strips, cleaners, epoxy grouts, sealers and all other accessories, as required by the Contract Documents, as part of the Alternate #6.
- 3. Contractor to provide floor preparation as necessary to install work under this package.
- 4. The 03A Contractor is obligated to finish slabs in compliance with Specification Section 033000. <u>@9E_06A^3</u> Contractor to include floor prep and flash patching as necessary for their work and installation of material, no exclusion, all costs are part of base bid. Grinding of concrete is not part of this package and is to be assumed by the 03A Contractor provided this contractor gives proper notice of unacceptable conditions two weeks prior the start of work.
- 5. <u>09E_06A³</u> Contractor shall provide all layout and survey work necessary to complete their work as required by the Contract Documents.
- 6. <u>09E</u> <u>06A³</u> Contractor shall coordinate with the Construction Manager regarding layout of flooring prior to commencement of the work.
- 7. $\theta \Phi \Phi = 06A^3$ Contractor includes all cleaning, sealing and polishing as required.
- 8. <u>69£</u> <u>06A³</u> Contractor shall provide temporary protection of finished work in place. At a minimum, Contractor shall protect finished flooring with Kraft paper reinforced by nylon strings which is to be taped at all joints. Contractor includes maintenance and replacement as necessary.
- 9. Contractors shall provide daily cleanup of all trash and debris generated by the work and place in dumpster furnished by the Construction Manager. Upon completion of each phase of work in any given area, the Contractor shall leave the area in broom clean condition. Should the Contractor's cleanup be unsatisfactory, the Construction Manager shall perform the work at the Contractor's expense.
- 10. <u>\textit{\textit{09E}} \textit{\textit{06A}}^3</u> Contractor to caulk or provide trim as necessary where flooring meets other material (i.e., floor drains, equipment pads, boxes, walls).
- 11. **OPE 06A**³ Contractor to coordinate slab depressions with 03A Concrete Contractor.

PART 3 – ALTERNATE SCOPE OF WORK

Original Issue Date: 7/1/2019

Revised per Addendum #3: 07/18/19

Revised per Addendum #4: 07/25/19

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1. Contractor has reviewed the Alternates scope of work listed elsewhere within the specifications and has included all costs in the event the Owner elects to proceed in whole or in part.

PART 4 – ALLOWANCES

1. In addition to the composite clean-up crew requirements listed above, contractor to include an additional 500 general laborer hours to be used at Construction Manager or Owner discretion. Hourly cost to be based on wage scale. Hours are to be tracked on a ticket, in the event the cost exceeds this allowance, an additive change order will be issued based on wage scale, in the event it is less, a deductive change order will be issued.

END OF 06A SECTION

