## BALTIMORE COUNTY PUBLIC SCHOOLS

S. Dallas Dance, Ph.D., Superintendent

6901 Charles Street Towson, MD • 21204-3711

#### **ADDENDUM NUMBER 3**

DATE: December 5, 2016

BID NAME: REPLACEMENT OF VICTORY VILLA ELEMENTARY SCHOOL

BID NUMBER: ARA-209-17

DUE DATE: **DECEMBER 21, 2016 – REVISED** 

DUE TIME: **2:00 P.M.** 

TOTAL PAGES: 115 (to include 12 full size drawings and 45 sketches) Drawings to

be delivered 12/5/16

The following revisions and responses to questions are made to the original bid document. This addendum forms a part of the Contract Documents and modifies the Original Solicitation Documents accordingly and as noted below. Acknowledge receipt of this Addendum in the space provided on the "Addenda" form within the Form of Proposal.

## **SPECIFICATIONS**

\*\* Specification Section 0100 – Notice to Contractors:

MODIFY: Change the bid due date from Thursday, December 15, 2016 1:00 P.M. to Wednesday, December 21, 2016 2:00 P.M.

**REVISE:** Table of Contents See attached updated Table of Contents with Addendum #3 revisions shown in bold text and a corresponding (Addendum. No.3) in bold text. References from changes per Addendum #1 remain as (Addendum. No.1).

#### **REVISE: Section 00200 INSTRUCTION TO BIDDERS**

**REPLACE** item 14.1.1 TBD in Paragraph 14.0 INFORMATION PRICES with the following list:

- 1. Teacher's Wardrobe
- Low Bookshelves, Mobile
- 3. Metal Shelving
- 4. Range
- 5. Hood
- 6. Under counter Refrigerator
- 7. Refrigerator
- 8. Dishwasher
- 9. Food Transport Cart
- 10. Shelving, Mobile

- 11. Shelving
- 12. Dunnage Rack, Mobile
- 13. Shelving, Mobile
- 14. Pot and Pan Shelving, Mobile
- 15. Worktable
- 16. Convection Oven
- 17. Heated Transport Cabinet, Mobile
- 18. Pan Rack Cart, Mobile
- 19. Pass-Thru refrigerator, Mobile
- 20. Pass-Thru warming cabinet, Mobile
- 21. Ice Cream Cabinet, Mobile
- 22. Milk Cooler, Mobile
- 23. Cashier Stand
- 24. Cash Register
- 25. Condiment Counter, Mobile
- 26. Utility Cart, Mobile
- 27. Bulk Milk Cooler, Mobile
- 28. Media Shelving, Mobile
- 29. Display and Poster Cases
- 30. Health Room Cubicle Curtains
- 31. Platform Curtains and Tracks
- 32. Safety Pads
- 33. Horizontal Louver Blinds
- 34. Window Shade Systems

### REVISE: Section 01 10 00 SUMMARY as follows:

Under Paragraph 1.7 WORK RESTRICTIONS, **DELETE** subparagraph B. On-Site Work Hours. Refer to specification Section 00200 page 4 Paragraph 9.2.3.

## REVISE: Section 01 30 00 as follows:

**REVISE** the title of Specification Section 01 30 00 – ADD ALTERNATES to 01 23 00 – ADD ALTERNATES.

**CHANGE** the title of the footer at bottom of pages from ALTERNATES to ADD ALTERNATES.

## ADD: Section 01 25 00 SUBSTITUTIONS.

## **DELETE:** the following duplicate Section:

There are duplicate sections of section 01 50 00 TEMPORARY FACILITIES AND CONTROLS included in the specifications. **DELETE** one section.

#### REVISE: Section 05 50 00 METAL FABRICATIONS as follows:

**REVISE** the footer to add "AND STEEL STAIRS" to match the title.

# REVISE: Section 07 33 63 – VEGETATED ROOF ASSEMBLY: PRE-VEGETATED MODULAR as follows:

Under Paragraph 2.1.SYSTEM SUPPLIER After paragraph A.1 **REVISE** the following:

2. Standard 4 1/4" Standard Live Roof System by Live Roof, LLC.

### Or Approved Equal

### REVISE: Section 08 33 22 OVERHEAD COILING SERVICE DOORS as follows:

On page 7 **CHANGE** "END OF SECTION 08 33 23" to "END OF SECTION 08 33 22".

#### REVISE: Section 10 10 00 VISUAL DISPLAY BOARDS as follows:

**ADD:** Paragraph 2.1.A Products 4. Corridor Tackable Surfaces to be Koroseal Interior Products, Walltalkers, Tac-Wall, Linoleum Resilient Tackable Wall Surface, 48" Wide, ¼" Gauge, +/- 95 lineal feet, Burlap Backing, Limited 5 Year Warranty, Basis of Design. Or Equal products: Claridge Products and Equipment, Inc., Bulletin Board Cork & Forbo Industries, Bulletin Board.

## ADD: 3.2.D. INSTALLATION OF WALLTALKERS: DIRECT WALL APPLICATION

- A. Comply with manufacturer's printed installation instructions.
- B. Cut sheets to size including 2 to 3 inches of overage. Allow sheets to lay flat for at least 24 hours prior to the application. Mark roll direct on the backside of each sheet. Hang sheets in sequence as cut from the roll, do not reverse every other sheet.
- C. Permanent HVAC system should be set to 68° F (20° C) for at least 72 hours prior to, during, and after the installation.
- D. Back roll each sheet prior to the installation to release curl memory.
- E. For seamed applications, using a seam and strip cutter remove the factory edge of one sheet. Using the same tool, overlap and trace cut the mating edge of the second sheet. Repeat this step for as many sheets as required for the job.
- F. Scribe, cut, and fit material to butt tightly to adjacent surfaces, built-in casework, and permanent fixtures and pipes.
- G. Apply adhesive (only enough to hang one sheet at a time) with a 1/16 inch trowel to the area to receiving the sheet.
- H. Work from top to bottom then side to side. Roll sheet firmly into adhesive for positive contact and to remove air bubbles.
- I. Remove adhesive residue immediately, using methods and materials recommended by manufacturer.

## REVISE: Section 10 26 60 CORNER GUARDS as follows:

**REVISE** the footers at the bottoms of pages 10 26 60 -1 through and including 10 26 60 - 4 of specification section 10 26 60 CORNER GUARDS, CHAIR RAILS AND RUB STRIPS to "10 26 60 CORNER GUARDS".

REVISE: Section 10 28 00 TOILET ACCESSORIES, SHOWER ENCLOSURES & RECYCLING RECEPTACLES as follows:

REVISE END OF SECTION 10 28 13 to read END OF SECTION 10 28 00.

REVISE: Section 11 54 13 KILNS as follows:

**REVISE** Title to be KILNS (NOT IN CONTRACT)

**ADD** the page numbers to the bottom of the pages of specification section 11 54 13 KILNS (pages 11 54 13 – 1 through 6)

ADD "END OF SECTION 11 54 13" to page 6.

REVISE: Section 11 66 20 GYMNASIUM EQUIPMENT as follows:

**REVISE** "END OF SECTION 11 66 23" (on page 116620-11) of specification section 11 66 20 GYMNASIUM EQUIPMENT to "END OF SECTION 11 66 20".

ADD: Section 12 22 00 Cubicle Curtains (for curtains in the following locations: Resting 102D and Video Production 103D).

REVISE: Section 12 35 00 LIBRARY SHELVING as follows:

**REVISE** the title of the specification at the top of the page to: 12 35 00 LIBRARY FURNITURE

CHANGE the title of the specification at the footer to: 12 35 00 LIBRARY FURNITURE

**REVISE: Section 14 24 00 HOLELESS HYDRAULIC ELEVATORS** 

**REVISE** the title of the specification at the footer to: 14 24 00 HOLELESS HYDRAULIC ELEVATORS.

**REVISE** the page numbers to  $14\ 24\ 00-1$  through  $14\ 21\ 00-13$ .

REVISE: Section 23 6419 POSITIVE DISPLACEMENT CHILLERS, Item 2.01:

ADD: "4. Petra and 5. Carrier" as acceptable manufacturers.

REVISE: Section 23 7200 ENERGY RECOVERY AND DEDICATED OUTDOOR AIR UNITS, Item 2.01 as follows:

ADD: "7. Petra" as an acceptable manufacturer.

REVISE: Section 23 7413 PACKAGED ROOFTOP AIR-CONDITIONING UNITS, Item 2.31, A as follows:

**ADD**: "4. Petra, 5. Carrier, and 6. Johnson Controls" as acceptable manufacturers.

**REVISE**: **Section 23 8128 VARIABLE-REFRIGERANT-VOLUME MULTIZONE SYSTEM**, Item 2.01 as follows:

**ADD**: "4. Samsung, 5. Toshiba, 6. Carrier, 7. Hitachi, 8. Johnson Controls and 9. LG" as acceptable manufacturers.

REVISE: Section 23 8137 DUCTLESS SPLIT-SYSTEM UNITS, Item 2.01, A as follows:

**DELETE**: "2. Sanyo and 4 Panasonic air Conditioning Group" from acceptable manufacturers list.

**ADD**: "5. Samsung, 6. Carrier, 7. Hitachi, 8. Johnson Controls, 9. LG, 10. Trane, and 11. York" as acceptable manufacturers.

## REVISE: Section 23 8219 FAN-COIL UNITS, Item 2.01, A as follows:

**DELETE:** "1. Airtherm Manufacturing Company, 2. American Air Filter, 6. Rittling, and 8. Williams" from the acceptable manufacturers list.

**ADD**: "9. Superior Rex, 10. Johnson Controls, and 11. Titus" as acceptable manufacturers.

## REVISE: Section 23 8239 UNIT HEATERS, Item 2.01, A, 1 as follows:

**DELETE:** "b. American Air Filter and d. Rittling" from the list of acceptable manufacturers.

**ADD**: "h. Sigma, i. Superior REX, j. Marley, k. Modine, and I. Qmark" as acceptable manufacturers.

## REVISE: Section 23 8239 UNIT HEATERS, Item 2.01, A, 2 as follows:

**DELETE:** "b. American Air Filter, c. Dunham-Bush and e. Rittling" from the list of acceptable manufacturers.

**ADD**: "i. Sigma, J. Modine, k. Marley, and I. Qmark" as acceptable manufacturers.

## REVISE: Section 23 3400 FANS, Item 2.34, A as follows:

**DELETE:** "4. Jenco" from the list of acceptable manufacturers.

#### REVISE: Section 23 2123 PUMPS, Item 2.01, B as follows:

**DELETE:** "2. Aurora Pumps, 4. Paco Pumps; Grundfos Group and 5. Patterson Pump Co" from the list of acceptable manufacturers.

## REVISE: Section 23 0901 ATC SYSTEM, Item 2.01, A as follows:

**DELETE:** All manufacturers from the list of acceptable manufacturers.

**ADD**: "1. Honeywell Inc. – Comfort Point, 2. Johnson Controls Inc. – Metasys and 3. Siemens - DESIGO" as acceptable manufacturers.

## REVISE: Section 23 0519 METERS AND GAGES FOR HVAC PIPING, Item 2.01, A as follows:

**DELETE:** "1. AMETEK, U.S. Gage, 2. Ashcroft; Dresser Instrument, 3. Milijoco Corporation, 4. Taco Inc. and 5. H.O. Trerice Co." from the list of acceptable manufacturers.

**ADD**: "8. Dwyer Instruments and 9. Palmer Wahl" as acceptable manufacturers.

## REVISE: Section 23 0519 METERS AND GAGES FOR PLUMBING PIPING, Item 2.01, A as follows:

**DELETE:** "1. AMETEK, U.S. Gage, 2. Ashcroft; Dresser Instrument, 3. Milijoco Corporation, 4. Taco Inc. and 5. H.O. Trerice Co." from the list of acceptable manufacturers.

ADD: "8. Dwyer Instruments and 9. Palmer Wahl" as acceptable manufacturers.

## REVISE: Section 23 7322 AIR HANDLING UNITS WITH COILS, Item 2.01,A, 1 as follows:

**ADD**: "e. Petra" as an acceptable manufacturer.

## REVISE: Section 23 82 33 Convectors, Items 2.01, A, 1 as follows:

**ADD:** "7. Daikin, 8. Marley, 9. JCI, 10. Magic Aire, and 11. York." Acceptable manufacturers

### REVISE: Section 26 0519 WIRES AND CABLES as follows:

**ADD:** Article 1.11.C to read: "C. Type MC cable is not permitted."

DELETE: Article 2.26 TYPE MC CABLE in its entirety.

**DELETE:** Article 2.29 DIRECT BURIAL CABLE, TYPE USE in its entirety.

**DELETE:** Article 3.26 INSTALLING MC CABLE in its entirety.

## REVISE: Section 26 0526 GROUNDING AND BONDING as follows:

**DELETE:** Paragraph 3.23.D (for isolated grounding receptacle circuits) in its entirety.

**ADD:** Paragraph 3.23.E: Change "ANSI/TIA/EIA J-STD-607-A" to "ANSI/TIA/EIA J-STD-607-C".

**DELETE:** Subparagraph 3.23.E.1 in its entirety.

**DELETE:** Subparagraph 3.23.E.2 in its entirety.

#### REVISE: Section 26 0533 CONDUITS as follows:

**ADD:** Revise paragraph 3.29.E to read: "E. Where underground nonmetallic conduit runs penetrate floor slabs, exterior walls, or bearing walls, penetrations shall be made with metallic elbows. Coat metallic elbows with bituminous protective coating."

**ADD:** Revise subparagraph 3.90.A.4 to read: "4. Elbows penetrating floor slabs, exterior walls, or bearing walls."

**ADD:** Add subparagraph 3.90.B.3 to read: "3. Conduits in boiler room, for fire alarm system, and for security systems."

### REVISE: Section 26 0534 BOXES as follows:

**ADD:** Paragraph 2.23.A: Change "Wiremold RFB Series" to "Wiremold EFB Evolution Series".

## REVISE: Section 26 0553 IDENTIFICATION FOR ELECTRICAL SYSTEMS as follows:

**DELETE:** Article 2.11 RACEWAY IDENTIFICATION in its entirety.

**DELETE:** Paragraph 3.20.G in its entirety. **DELETE:** Paragraph 3.30.C in its entirety.

#### REVISE: Section 26 0936 MODULAR DIMMING CONTROLS as follows:

**ADD:** Revise paragraph 2.26.D to read: "D. Time clock: Astronomic, 7-day programmable, capable of communicating directly with lighting relay room controller."

#### REVISE: Section 26 2416 PANELBOARDS as follows:

**DELETE:** Delete Article 2.32 FUSIBLE DISTRIBUTION PANELBOARDS in its entirety.

ADD: Article 2.33 FUSIBLE BRANCH CIRCUIT PANELBOARDS to read:

#### "2.33 FUSIBLE BRANCH CIRCUIT PANELBOARDS

- A. Fusible branch circuit panelboards shall be as indicated in the panelboard schedule and provided where shown on the drawings.
  - 1. Emergency (life-safety) branch shall utilize fusible panelboards.
- B. Construction: Panelboard circuits 100-ampere and less shall incorporate fused overcurrent protection and disconnection means into a single integrated component.
  - 1. Panelboard shall be equipped with spare fuse compartment for storing replacement branch circuit fuses. Provide spare 20-ampere, single-phase fuses unless otherwise noted.
- C. Type: Deadfront, NEMA 1 panelboard with top or bottom feed, equipped with quick make, quick break fusible main and branch switch devices.
- D. Bus structure and main lugs or main switch: Current ratings as shown on the panelboard schedule. The bus structure shall accommodate plug-on bus connectors, sizes and ratings as indicated in the panelboard schedule.
- E. Fusible branch switches:
  - 1. Device shall be finer-safe, and incorporate dual-element, time-delay UL class CF power fuse with Class J performance.
  - 2. Device shall have visible circuit 'On' and 'Off' indication positions.
  - 3. Device shall have open fuse indicating light.
  - 4. Shall provide fuse amp rating. Device shall have interlocked fuse and disconnect so as not to allow fuse removal while fuse terminals are energized.
  - 5. Device shall have means to lockout in the 'On' or 'Off' position.
  - 6. Provide a circuit identification cardholder for each branch switch.
- F. Panelboard overcurrent protective devices shall be UL listed for use on a system capable of delivering not more than 200,000 rms symmetrical A at 600 V ac maximum when all main and branch switches are equipped with rated Class J fuses.
- G. Where panelboard main fuses are installed, fuses in panelboard branch circuits shall selectively coordinate with main fuses."

REVISE: Section 26 2923 VARIABLE FREQUENCY DRIVES as follows:

**ADD:** Revise subparagraph 2.20.C.1 to read: "1. Enclosure: UL (NEMA 250) Type 12 (indoors) and Type 1 (within HVAC units) according to UL 508; as scheduled on the drawings.

**ADD:** Revise article 2.22 to read: "2.22 DRIVE ISOLATION AND BYPASS (INDOORS ONLY)"

#### REVISE: Section 26 3600 TRANSFER SWITCHES as follows:

**ADD:** Replace Article 3.60 FIELD QUALITY CONTROL in its entirety with the following:

#### "3.60 FIELD QUALITY CONTROL

- A. Perform tests and inspection and prepare test reports.
- 1. Manufacturer's field service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections; and to assist the Contractor in testing.
- B. Tests and inspections:
- 1. After installing equipment and after electrical circuitry has been energized, test for compliance with requirements.
- 2. Perform tests recommended by manufacturer. Perform electrical tests and visual and mechanical inspection for both automatic transfer switches and generator docking station described under "Emergency Systems, Automatic Transfer Switches" specified in NETA Acceptance Testing Specification except perform automatic transfer switch specific tests for automatic transfer switches only. Certify compliance with test parameters.
  - a. Check for electrical continuity of circuits and for short circuits.
  - b. Inspect for physical damage, proper installation and connection, and integrity of barriers, covers, and safety features.
  - c. Verify that manual transfer warnings are properly placed.
  - d. Perform manual transfer operation.
- 3. After energizing circuits, demonstrate interlocking sequence and operational function for each switch at least three times.
  - a. Simulate power failures of normal source to automatic transfer switches and of emergency source with normal source available.
  - b. Simulate loss of phase-to-ground voltage for each phase of normal source.
  - c. Verify time-delay settings.
  - d. Verify pickup and dropout voltages by data readout or inspection of control settings.
  - e. Verify proper sequence and correct timing of automatic engine starting, transfer time delay, retransfer time delay on restoration of normal power, and engine cool-down and shutdown.
- C. Coordinate automatic transfer switch tests with tests of generator and run them concurrently.
- D. Utilize mobile industrial towable generator set for generator docking station tests.

- E. Report results of tests and inspections in writing. Record adjustable relay settings and time delays. Attach a label or tag to each tested component indicating satisfactory completion of tests.
- F. Remove and replace malfunctioning units and retest as specified above.
- G. Prepare test and inspection reports."

#### REVISE: Section 26 4113 LIGHTNING PROTECTION FOR STRUCTURES as follows:

**DELETE:** Paragraph 3.60.B (for LPI certification) in its entirety.

#### REVISE: Section 28 1600 INTRUSION DETECTION SYSTEM as follows:

**ADD:** Revise sub-paragraph 1.5.B.1.a.3) to read:

"3) HP Secure Inc. 2615A Willow Lane Baltimore, MD 21227 Tod Connor tod.connor@hpsecure.net 443-568-0180"

**ADD:** Revise sub-paragraph 1.5.B.1.a.4) to read:

"4) Kratos Public Safety & Security Solutions, Inc. 7020 Troy Hill Drive Elkridge, MD 21075 Tobe Henry Tobe.Henry@kratospss.com 410-379-2748 ext. 1206 Alt. Email: Tobe.Henry@kratos-hbe.com"

## REVISE: Specification Section 31 66 13 AGGREGATE PIER SOIL REINFORCEMENT as follows:

**REPLACE** Section 31 66 13/1.4/C/1 with: Provide a report of test data verifying aggregate pier design parameters for each soil capacity requirement

## REVISE: Specification Section 31 66 13 AGGREGATE PIER SOIL REINFORCEMENT as follows:

**REPLACE** specification section 31 66 13/3.3/B with: A modulus test shall be performed to verify each of the parameter values selected for design (2 tests total).

## REVISE: Specification Section 32 31 13 CHAIN LINK FENCES AND GATES as follows:

**ADD** page numbers to 32 31 13 – 1 through 32 31 13 – 5.

## REVISE: Specification Section 32 31 19 ORNAMENTAL PICKET FENCES as follows:

**CHANGE** page numbers 32 20 00 – 1 through 32 20 00 to 32 31 19 – 1 through 32 31 19 – 3.

## **REVISE: Specification Section 32 92 00 LAWNS AND GRASSES**

**ADD**: Under 2.1 B, Use of K-31 Tall Fescue will not be allowed on this project in order to comply with Maryland Department of the Environment and U.S. Army Corps of Engineers general permit requirements.

## **DRAWINGS**

#### **REVISE SHEET CS-2**

REPLACE with CS-2 Sheet attached with this Addendum

#### **REVISE SHEET C0.01**

**DELETE**: Sheets C4.02 and C4.04, contractor is only responsible for striping on site.

Baltimore County Roads Department handles all striping in the right of way.

**DELETE:** Drawing title for sheet C4.13.

ADD: New sheet title is Compass Road Storm Drain Plan.

**DELETE**: Drawing title for sheet C4.14.

ADD: New sheet title is Honeycomb Road Storm Drain Plan.

**DELETE:** In title, delete June 3, 2016.

**ADD:** November 10, 2016.

**DELETE:** Owner/developer address.

ADD: 6901 Charles Street, Towson, MD. 21204.

## **REVISE SHEET C0.02**

**DELETE:** General note #5.

ADD: Change note #6 to #5.

### **REVISE SHEET C1.01**

**DELETE:** General note #5.

**DELETE:** Note D-8 adjacent to multipurpose courts.

**DELETE:** Note D-4 to existing school sign.

**ADD:** Note D-7 to existing school sign.

**ADD:** Limit of disturbance to sheet legend.

## **REVISE SHEET C1.02**

**DELETE:** Construction note references:

C-9 on concrete steps to multipurpose court.

C-31 on southwest corner of building.

C-37 in kindergarten playground.

C-31 on southeast corner of building.

C-39 on southeast corner of building.

C-14 along Compass Road ROW.

C-27 along bus loop curb.

C-27 along parent drop off curb.

C-24 in dumpster area.

C-37 in construction notes.

#### ADD:

C-9 in dumpster area.

C-27 in kindergarten playground.

C-3 in dumpster area.

With mow table after note C-29 in construction notes.

Detail #4- C2.03: Temporary traffic control typical application

12" deep gabions for all stone protection in SWM facilities and drainage coridors.

## **REVISE SHEET C1.04**

**ADD:** Spot elevation in upper parking lot.

#### **REVISE SHEET C1.05**

**DELETE:** Storm drain system from I-104 up to I-101. I-101 to remain.

**ADJUST:** Locations of proposed fire hydrants on Compass and Honeycomb Roads.

ADJUST: locations of two light poles to behind sidewalk on east side of bus loop.

**ADD:** Inlet I-135 and 12" RCP storm drain along curb lines connected to I-134. Increase outfall from I-134 from 10" HDPE to 12" RCP.

## **REVISE SHEET C1.06**

**DELETE:** All ST-1 and ST-2 striping in ROW. Baltimore County Roads Department will provide.

**ADD:** One S-4 sign adjacent to Honeycomb Road entrance into parking area at southeast corner of site.

#### **REVISE SHEET C2.01**

**ADD:** Epoxy coating to all welded wire, fabric, steel dowels, any rebar, noted in details # 1,4,5,9, and 11.

#### **REVISE SHEET C2.02**

**ADD:** Note to detail #3: Sleeve-It, foundation system or an approved equal.

**ADD:** Note to detail #5: All fence fabric shall have a black vinyl coating. All fence rails, posts, and hardware shall have a black powder coat finish.

**ADD:** Note to detail #4, keystone structure retaining wall system, product type Keysystem II Straight face block, or approved equal. Final color selection to be approved by owner from manufacturer's standard selection.

#### **REVISE SHEET C2.03**

Delete: Detail #4.

ADD: Temporary traffic control typical application. Maryland Department of

Transportation State Highway Administration standards detail MD 104.02-10.

**DELETE:** ADD-ALT from detail #5.

**ADD:** Base bid to detail #5.

**DELETE:** Base bid from detail #6.

ADD: ADD-ALT #10 to detail #6.

**DELETE:** ADD-ALT from detail #7.

**ADD:** Base bid to detail #7.

ADD: ADD-ALT #12 and seamless play surface detail to detail #10.

### **REVISE SHEET C3.01**

**ADD:** To profile #9 add inlet I-135 and connect to I-134 with 12" RCP. Increase outfall from I-134 from 10" HDPE to 12" RCP.

#### **REVISE SHEET C3.02**

**DELETE:** Standard grate on I-130.

ADD: Dome grate on I-130.

### **REVISE SHEET C3.03**

**DELETE:** Entire sheet dated 11/10/16.

**ADD:** New sheet with 4" and 8" water lines.

### **REVISE SHEET C4.01**

**DELETE:** Entire sheet dated 11/10/16

ADD: Revised sheet with county comments addressed.

## **REVISE SHEET C4.02**

**DELETE:** Entire sheet.

## **REVISE SHEET C4.03**

**DELETE:** Entire sheet dated 11/10/16

ADD: Revised sheet with county comments addressed.

**REVISE SHEET C4.04** 

**DELETE:** Entire sheet.

**REVISE SHEET C4.13** 

**DELETE:** Entire sheet dated 11/10/16

**ADD:** Revised sheet with county comments addressed.

**REVISE SHEET C4.14** 

**DELETE:** Entire sheet dated 11/10/16

**ADD:** Revised sheet with county comments addressed.

**REVISE SHEET C5.01** 

**DELETE:** Entire sheet dated 11/10/16

**ADD:** Revised sheet with county comments addressed.

**REVISE SHEET ESC 2.01** 

**ADD:** Use of K-31 Tall Fescue will not be allowed on this project in order to comply with Maryland Department of the Environment and U.S. Army Corps of Engineers general permit requirements.

**REVISE SHEET SWM 2.01** 

ADD: Gabions to details 5 and 6.

**REVISE: SHEET L1.01** 

**ADD:** 17-ILH and 13-CAH in bus loop island.

**DELETE:** Proposed river stone in legend.

**ADD:** Proposed class "0" rip rap in 12" deep gabion basket.

**REVISE SHEET L1.02** 

**ADD:** 17-ILH and 13-CAH to plant list for a total of 191 ILH and 185 CAH.

**REVISE SHEET CS-2 SHEET LIST** 

**REVISE** DRAWING LIST per the revisions attached with this Addendum.

REVISE SHEET A1.00 ARCHITECTURAL/LEED SITE PLAN AS FOLLOWS:

**REPLACE** The notes for the insulating glass units with the following:

**INSULATING-GLASS TYPES** 

GLASS TYPE 1: LOW-E COATED CLEAR INSULATING GLASS (ALL LOCATIONS OTHER THAN TYPE 2 AND TYPE 3 BELOW):

GLASS TYPE 2: LOW-E COATED (PPG SOLARBAN 70XL) CLEAR INSULATING GLASS WITH SILK SCREEN APPLIED CERAMIC FRIT DOTS WHITE DOTS TYPE D - #3. (VESTIBULE AND TWO STORY LOBBY ON SOUTH SIDE OF BUILDING):

GLASS TYPE 3: LAMINATED AND CLEAR INSULATING GLASS. (CLERESTORY AT GYMNASIUM):

**REVISE: SHEET A2.01** 

**REVISE** Note "SOLAR ARRAY (ADD ALTERNATE #1); SEE SHEET A5.05" to "PHOTOVOLTAIC INSTALLATION ON GREEN ROOF (ADD ALTERNATE); SEE SHEET A5.04"

**REVISE: SHEET A2.04** 

**REVISE** Note "SOLAR ARRAY (ADD ALTERNATE #1); SEE SHEET A5.05" on to "PHOTOVOLTAIC INSTALLATION ON GREEN ROOF (ADD ALTERNATE); SEE SHEET A5.04"

**REVISE: SHEET A4.02.2** 

**ADD** Keynote Legend – Sheet 4.02.2 per sketch attached to this Addendum.

**REVISE: SHEET NAME A5.04** 

**REVISE** SHEET name from SOLAR ARRAY DETAILS (ADD ALTERNATE #1) to PHOTOVOLTAIC INSTALLATION ON GREEN ROOF – ADD ALTERNATE

REVISE: SHEET A5.08 ROOF SCREEN (ADD ALTERNATE)

**REVISE** sheet name from ROOF SCREEN (ADD ALTERNATE) to MECHANICAL SCREEN WALL – ADD ALTERNATE

**REVISE: SHEET A5.09 ROOF SCREEN (ADD ALTERNATE #6)** 

**REVISE** sheet name from ROOF SCREEN (ADD ALTERNATE #6) to MECHANICAL SCREEN WALL – ADD ALTERNATE

**REVISE: SHEET A6.02** 

ADD Door 001C to the Door Schedule

**REVISE: SHEET A8.01 FIRST FLOOR FURNITURE PLAN** 

**ADD** GENERAL NOTE: FURNITURE PLANS FOR REFERENCE ONLY. LOOSE FURNISHINGS ARE N.I.C. OTHER THAN AS SHOWN IN SKETCHES "MEDIA CENTER FLOOR PLAN", "TYPICAL CLASSROOM LAYOUT", AND "TYPICAL KINDERGARTEN CLASSROOM LAYOUT" INCLUDED WITH ADDENDUM #3.

**REVISE: SHEET 8.02 SECOND FLOOR FURNITURE PLAN** 

**ADD** GENERAL NOTE: FURNITURE PLANS FOR REFERENCE ONLY. LOOSE FURNISHINGS ARE N.I.C. OTHER THAN AS SHOWN IN SKETCHES "MEDIA CENTER FLOOR PLAN", "TYPICAL CLASSROOM LAYOUT", AND "TYPICAL KINDERGARTEN CLASSROOM LAYOUT" INCLUDED WITH ADDENDUM #3.

REPLACE: SHEET A8.03 FIRST FLOOR FINISH PLAN with A8.03 FIRST FLOOR FINISH PLAN – A

**REPLACE: SHEET A8.04** SECOND FLOOR FINISH PLAN with A8.04 FIRST FLOOR FINISH PLAN - C

ADD: SHEET A8.05 SECOND FLOOR FINISH PLAN - A

ADD: SHEET A8.06 FINISH FLOOR PLANS - B

REVISE: SHEET \$1.01 FOUNDATION AND FIRST FLOOR PLAN - A

**REPLACE**: FOUNDATION SYSTEM NOTE with:

FOUNDATION SYSTEM NOTE: FOUNDATION SOILS SHALL CONSIST OF FOOTINGS OVER RAMMED AGGREGATE PIER IMPROVED SOILS OR CONTROLLED MODULUS COLUMN IMPROVED SOIL. WALL FOOTING DESIGNED FOR 2.5 KSF ALLOWABLE SOIL BEARING AND SPREAD FOOTINGS DESIGNED FOR 5 KSF ALLOWABLE SOIL BEARING PRESSURE. REFER TO THE GEOTECHNICAL REPORT ADDENDUM 15228.D. BY D.W. KOZERA, INC. DATED NOVEMBER 1, 2016 FOR FOUNDATION SYSTEM REQUIREMENTS AND SPECIFICATION SECTION 31 66 13.

**REVISE** FOUNDATION NOTE 1 as follows (Changes are in bold text):

1. SLAB ON GRADE SHALL CONSIST OF 5" CONCRETE SLAB REINFORCED WITH 6x6-W2.9xW2.9 WWF POURED OVER 10 MIL POLY VAPOR BARRIER OVER 12" GRANULAR FILL.INSTALL SLAB SUBGRADE PER THE FOLLOWING CONSTRUCTION SEQUENCE AND REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION:

### SITUATIONS REQUIRING CUT:

- a) EXCAVATE TO WITHIN 12 INCHES ABOVE THE PROPOSED FINISHED FLOOR UNDERSLAB STONE SUBGRADE ELEVATION TO ALLOW INSTALLATION OF FOOTINGS ANDUTILITIES.
- b) IMMEDIATELY PRIOR TO POURING THE FLOOR SLAB, EXCAVATE TO 12 INCHES BELOW THE PROPOSED FLOOR SLAB STONE SUBGRADE AND COVER WITH A LAYER OF POLYETHYLENE SHEETING HAVING A MINIMUM THICKNESS OF 10 MIL.
- c) PLACE A MINIMUM OF 12 INCHES OF GRANULAR COMPACTED STRUCTURAL FILL OR CRUSHED STONE TO REACH THE ELEVATION OF THE OPEN-GRADED STONE SUBGRADE BENEATH THE FLOOR SLAB.
  d) PLACE 4 INCHES OF OPEN GRADED STONE (No. 57 SIZE) AS A CAPILLARY BREAK, PLACE FLOOR REINFORCING STEEL, AND POUR THE CONCRETE FLOOR SLAB.

#### SITUATIONS REQUIRING SUITABLE FILL:

- A) REFER TO DRAWING C1.01 EXISTING CONDITIONS, FOR APPROXIMATE ELEVATIONS OF EXISTING GRADES AS THEY WILL LEFT TO BY THE DEMOLITION CONTRACTOR.
- B) EXISTING GRADES UNDER THE NEW BUILDING FOOTPRINT WILL RANGE BETWEEN EL. 41 TO EL 46.

REVISE: SHEET \$1.02 FOUNDATION AND FIRST FLOOR PLAN - B

**REPLACE**: FOUNDATION SYSTEM NOTE with:

FOUNDATION SYSTEM NOTE: FOUNDATION SOILS SHALL CONSIST OF FOOTINGS OVER RAMMED AGGREGATE PIER IMPROVED SOILS OR CONTROLLED MODULUS COLUMN IMPROVED SOIL. WALL FOOTING DESIGNED FOR 2.5 KSF ALLOWABLE SOIL BEARING AND SPREAD FOOTINGS DESIGNED FOR 5 KSF ALLOWABLE SOIL BEARING PRESSURE. REFER TO THE GEOTECHNICAL REPORT ADDENDUM 15228.D. BY D.W. KOZERA, INC. DATED NOVEMBER 1, 2016 FOR FOUNDATION SYSTEM REQUIREMENTS AND SPECIFICATION SECTION 31 66 13.

REVISE: SHEET S2.01 GENERAL NOTES AND SCHEDULES

**REPLACE**: S2.01 GENERAL NOTES/FOUNDATION/NOTE 1 with:

ALL FOOTINGS SHALL BEAR ON AGGREGATE PIER REINFORCED SOIL, HAVING A MINIMUM SAFE BEARING CAPACITY OF 5,000 PSF FOR SPREAD FOOTINGS AND 2,500 PSF FOR WALL FOOTINGS. ALL FOOTINGS SHALL PROJECT AT LEAST 1'-0" INTO SOIL HAVING SUCH MINIMUM BEARING VALUES.

## **GENERAL**

The solicitation received prior to the issuance of this addendum are as follows:

(1) INQUIRY: I have just started to go through the specs and have noticed that many spec sections are missing from Vol. 1. All of Div. 1, 10 (except 101100 & 101200), 11, 12 & 14 & spec section 088000 are all missing from the specs. Please provide the missing spec sections at your earliest convenience.

We have notice that there is no Division 1 – General Requirements Specifications in the specification booklet. Can you please let me know if this is a mistake on Gardens Reprographics or if they will be issued in an addenda.

RESPONSE: All of Div. 1, Div. 10 (except 101100 & 101200) and Divisions 11, 12 & 14 and spec section 088000 were added via Addendum No. 1

**(2) INQUIRY:** There are several notes on interior elevations that pertain to glazed CMU (example: details 2 & 3 on A4.08.2) and polished CMU (example detail 3 on A4.10.1). The wall types on the drawings do not reference the glazed or polished CMU, nor there is no specification for these items. Please clarify.

RESPONSE: There is no glazed CMU. All references to glazed CMU are to be polished ground faced CMU (see Specification Section 04 20 00 Unit Masonry Assemblies for polished ground faced CMU).

(3) **INQUIRY:** There is no door number assigned to the pair of doors next to door 158 which leads to the outdoor play area. Please advise.

RESPONSE: Door is to be 001C. Height: 7'-0"; Width: 6'-0"; Thickness: 0'-1-3/4"; Door Type: D8; Door Material: Aluminum; Frame Type: F1; Frame Material: Aluminum; Head: H3; Jamb: J5; Sill: S3

**(4) INQUIRY:** There are many conflicts between Head Details and Frame Types - one will reference a 4" head and one a 2" head. Please clarify.

RESPONSE: 4" Heads are to be used at masonry openings. 2" Heads are to be used at all other opening locations.

**(5) INQUIRY:** Head and Jamb details H1 and J2 do not show the door frame wrapping the drywall. The frame type called out in the spec is Curries "C" series which is made to wrap drywall. Please clarify.

RESPONSE: Head and Jamb details H1 and J2 and J11 shall have frames made to wrap drywall.

**(6) INQUIRY:** Are doors 111-B and ST1-B Hollow Metal or Aluminum? There is a conflict between the Frame material and head/jamb details.

RESPONSE: Both doors 111-B and ST1-B are to be Aluminum.

(7) **INQUIRY:** What are the door and frame materials for openings 136C, 141D-A, 141D-B, 147B?

RESPONSE: Door 136C is to be 3'-0" W x 7'-0" Ht. Wood Door with HM Frame; Door 141D-A and 141D-B are to be 6'-0" W x 7'-0" Ht. HM Door and Frame; Door 147B is to be Wood Door and HM Frame.

(8) INQUIRY: Where is the soffit plan for the entrance canopy in Area B 2/A1.14?

**RESPONSE:** See SK-1 provided with this Addendum.

**(9) INQUIRY:** We are interested in bidding the ACM panels on this project as a fabricator/supplier. The specification (section 074230) currently lists 2 approved fabricators under 2.2 A.3. I could not locate a substitution procedures section in the specifications. Are you allowing additional fabricators to bid this project? Please advise. Thanks.

RESPONSE: Delete the list of pre-qualified fabricators and are substituting the requirement that fabricators must have completed a minimum of five (5) projects in the size range of the fabricator's scope on this project and must be certified by the approved manufacturers to install their products.

**(10) INQUIRY:** Spec Section 101200 Display Cases: Paragraph 2.2 B. 1. Calls for an aluminum box. I assume this is supposed to call for a wood box. Please confirm this should be a wood box and also provide the wood species for the veneer.

RESPONSE: Provide wood box with HPL laminated veneer.

(11) INQUIRY: Drawing A4.07.6: Detail 3 shows the display cases semi-recessed in the wall, but detail 4 shows them fully recessed. The specs also call for them to be fully recessed. Please confirm they should be fully recessed.

RESPONSE: Provide fully recessed display cases. The display details show them recessed in a combination CMU/metal stud furring opening. See Sketch "Typical Trophy Display Plan Detail Revised" and "Typical Trophy Display Wall Elevation Revised" attached with this Addendum.

(12) INQUIRY: Spec Section 102800 Toilet Accessories: Please consider removing the shower enclosures from this spec section. These are typically included in the plumbing fixtures specs. They would have to be installed by the plumber anyway. Please also consider removing the under-lavatory guards as these are typically handled by the plumber as well.

RESPONSE: Delete shower enclosure from 10 28 00 Toilet Accessories. See specification section 22 42 00 Institutional Plumbing Fixtures for shower enclosure. Underlayatory guards will remain under 10 28 00 but may be bid by plumber.

**(13) INQUIRY:** Alternate #14 calls for tackable surface in the corridors. Is this part of section 101000 Visual Display Boards, or is this by one of the Div. 9 sections?

RESPONSE: REVISE: Specification 10 10 00 Visual Display Boards as follows:

ADD: Add paragraph 2.1.A Products 4. Corridor Tackable Surfaces to be Koroseal Interior Products, Walltalkers, Tac-Wall, Linoleum Resilient Tackable Wall Surface, 48" Wide, ¼" Gauge, +/- 95 lineal feet, Burlap Backing, Limited 5 Year Warranty, Basis of Design. Or Equal products: Claridge Products and Equipment, Inc., Bulletin Board Cork & Forbo Industries, Bulletin Board.

(14) **INQUIRY:** Please clarify the allowance for unsatisfactory soils. Spec Section 012100-3 lists the amount as \$20,000 and the Bid Form lists \$10,000.

RESPONSE: \$10,000 is correct.

(15) INQUIRY: Please consider waiving the requirement for an AISC-certified plant and AISC-certified erector of structural steel. Most plants and erectors have programs that comply with AISC requirements but are not certified.

RESPONSE: DELETE requirements for AISC Certification and ADD the following requirements:

- A. Installer Qualifications: A qualified installer who has a minimum of five (5) years of successful experience with projects of similar size and complexity.
- B. Fabricator Qualifications: A qualified fabricator who has a minimum of five (5) years of successful experience with projects of similar size and complexity.
- (16) INQUIRY: Is there available an elevation and/or detail drawing for the Plastic Laminate Walk-Up/Shelf Check Out Stations (Section 12 35 00 Library Shelving, Page 6, 2.3 Products, C., Walk-Up terminals)?

RESPONSE: See Sketch "Details - Check-out Station" attached with Addendum #3.

(17) INQUIRY: Please review the attached information from Weston Solutions and advise if this is considered an acceptable product for the green roof work.

RESPONSE: Contractor shall bid the project with manufacturers identified in the contract documents. At this time, Weston Solutions is not an approved manufacturer for this product. Substitution requests may be considered after the contractor has received Notice to Proceed, as identified in Specification Section 00 20 00, paragraph 16.

(18) INQUIRY: Detail 5/C2.03 is noted as Alt #10, and detail 6/C2.03 as Base Bid. From the information on drawing C1.02 (notes C-17 & C-18) it appears that the Base Bid and Alt #10 designations should be reversed on details 5,6/C2.03. Please advise.

RESPONSE: Detail 5/C2.03 change to base bid, detail 6/C2.03 change to Add- Alt. #10

(19) INQUIRY: For Note C-18 on drawing C1.02, confirm that Fibar should be figured for the Base Bid play surface (detail 7/C2.03), and seamless surface figured as Add Alt #12 (detail 10/C2.03).

RESPONSE: Use Fibar for Base Bid play surface. Use seamless play surface as specified in 32 18 16 13 section 2.1 A-C and detail 10/C2.03 for Add Alt.

**(20) INQUIRY:** Energy Recovery Unit & Dedicated Outside Air System – Please add Petra to the list of acceptable manufactures for ERU spec section 237200.2.01.A

RESPONSE: Petra will be added to the list of approved manufacturers for Energy Recovery Unit and Dedicated Outside Air Systems.

(21) INQUIRY: Energy Recovery Unit & Dedicated Outside Air System – Please add Addison to the list of acceptable manufactures for ERU spec section 237200.2.01.A

RESPONSE: Addison will not be added to the list of approved manufacturers for Energy Recovery Unit and Dedicated Outside Air Systems as they are not an approved BCPS manufacturer. Contractor shall bid the project with equipment manufacturers identified in the contract documents. Substitution requests may be considered after the contractor has received Notice to Proceed, as identified in Specification section 002000, paragraph 16.

**(22) INQUIRY:** Air Cooled Chiller: Please add Petra to the list of acceptable manufactures for Air Cooled chiller spec section 236400.2.01.B

RESPONSE: Petra will be added to the list of approved manufacturers for Air Cooled Chillers.

(23) INQUIRY: Air Cooled Chiller: Please add ClimaVenta to the list of acceptable manufactures for Air Cooled chiller spec section 236400.2.01.B

RESPONSE: ClimaVenta will not be added to the list of approved manufacturers for Air Cooled Chillers as they are not an approved BCPS manufacturer. Contractor shall bid the project with equipment manufacturers identified in the contract documents. Substitution requests may be considered after the contractor has received Notice to Proceed, as identified in Specification section 002000, paragraph 16.

**(24) INQUIRY:** Air Handling Units: Please add Petra to the list of acceptable manufactures for Air handling chiller spec section 237322.2.01.A

RESPONSE: Petra will be added to the list of approved manufacturers for Air Handling Units.

**(25) INQUIRY:** Air Handling Units: Please add Ventus VTS to the list of acceptable manufactures for Air handling chiller spec section 237322.2.01.A

RESPONSE: Ventus VTS will not be added to the list of approved manufacturers for Air Handling Units as they are not an approved BCPS manufacturer. Contractor shall bid the project with equipment manufacturers identified in the contract documents. Substitution requests may be considered after the contractor has received Notice to Proceed, as identified in Specification section 002000, paragraph 16.

**(26) INQUIRY:** Rooftop Unit: Please add Petra to the list of acceptable manufactures for RTU spec section 237413.2.31.A

RESPONSE: Petra will be added to the list of approved manufacturers for Packaged Rooftop Air Conditioning Units.

(27) INQUIRY: Rooftop Unit: Please add Addison to the list of acceptable manufactures for RTU spec section 237413.2.31.A

RESPONSE: Addison will not be added to the list of approved manufacturers for Packaged Rooftop Air Conditioning Units as they are not an approved BCPS manufacturer. Contractor shall bid the project with equipment manufacturers identified in the contract documents. Substitution requests may be considered after

the contractor has received Notice to Proceed, as identified in Specification section 002000, paragraph 16.

(28) INQUIRY: Variable Refrigerant Volume Multizone System: Please add Samsung to the list of acceptable manufactures for VRF spec section 238128.2.01.A

RESPONSE: Samsung will be added to the list of approved manufacturers for Variable Refrigerant Multizone Systems.

**(29) INQUIRY:** Ductless Split System units: Please add Samsung to the list of acceptable manufactures for DFS spec section 238127.2.01.A

RESPONSE: Samsung will be added to the list of approved manufacturers for Ductless Split Systems

(30) INQUIRY: Fan Coil Units: Please add Magicaire to the list of acceptable manufactures for FCU spec section 238219.2.01.A

RESPONSE: Magicaire will not be added to the list of approved manufacturers for Fan Coil Units as they are not an approved BCPS manufacturer. Contractor shall bid the project with equipment manufacturers identified in the contract documents. Substitution requests may be considered after the contractor has received Notice to Proceed, as identified in Specification section 002000, paragraph 16.

(31) INQUIRY: Hot Water Unit Heaters: Please add Sigma to the list of acceptable manufactures for Hot Water Unit Heaters specs 238233.2.01.A

RESPONSE: Sigma will be added to the list of approved manufacturers for Hot Water unit Heaters.

**(32) INQUIRY:** Is the demolition contractor responsible for salvaging, including storing, the maple flooring and the lettering that is to be reinstall? Refer to detail 5/A4.10.1

RESPONSE: The wood flooring and signage lettering are being salvaged and safely stored under a separate contract.

(33) INQUIRY: BCPS has awarded the demolition work under a separate package. Please clarify what their scope of work consist of. Will BCPS be responsible for managing this contractor?

RESPONSE: Demolition of the existing building is being performed under a separate contract and will be completed prior to notice to proceed on this project.

(34) INQUIRY: Please confirm if the smartboards section 11 54 00 are N.I.C as there is contradicting information. Refer to detail 6/A4.09 and 8/A4.09 which is typical throughout. Furthermore, a specification for section 11 54 00 was not including in the bid documents. I believe the smartboards are included in specification section 10 10 00 – Visual Display Boards?

RESPONSE: Smartboards (Keynote 11 54 00 on the Contract Drawings) are Not in Contract (N.I.C.) and will be provided and installed by the owner. Contractor shall provide blocking in wall as required to mount the smartboards. Section 10 10 00

Visual Display Boards specifies magnetic markerboards. Add Keynote Legend per attached sketch "Keynote Legend – Sheet 4.02.2".

**(35) INQUIRY:** Please provide a specification section for the glazed CMU referenced throughout the building Refer to 3/A4.04 and 2/A4.08.1.

**RESPONSE:** See response to Inquiry #2.

**(36) INQUIRY:** Please provide a specification section for the terrazzo treads referenced at Stair 3 on A4.13

RESPONSE: Provide Precast Terrazzo Stair Tread: Basis of Design Wausau S-30 (Tectura Designs. Wausau Tile Inc. Wausau, WI 54402-1520). Provide three (3)  $\frac{1}{2}$ " abrasive strips per tread.

Or equal products by:

Concord Terrazzo Company, 1818 University Commercial Place, Charlotte, NC 28213 Precast Terrazzo Enterprises, Inc.1107 N New Hope Rd, Raleigh, NC 27610.

**(37) INQUIRY:** Please confirm the TV's are N.I.C and the GC is responsible for bringing power/data to each location only.

RESPONSE: TV's are N.I.C. The GC is responsible for providing wood blocking in walls for mounting purposes and for bringing required power/data to each location.

(38) INQUIRY: Openings 136C, 141D-A, 141D-B and 147B do not reference their door or frame material. Please provide.

**RESPONSE:** See response to Inquiry #7.

**(39) INQUIRY:** Specification Section 074230 Metal Composite Material Wall Panels, 3.2, B. 1. and 2. Are in conflict. Item 1. indicates a wet sealed panel system and item 3. Indicates a dryset panel system. The details appear to illustrate a dry-set system. Please clarify.

RESPONSE: Provide a wet sealed panel system with sealant backing and sealant in joints. Sealant shall be held back from the face of the metal panels so that the individual panels are expressed.

**(40) INQUIRY:** Typical composite panel details similar to wall section 4/A3.10 indicates 092955, ½" Densdeck inboard and outboard of the rigid insulation. Please clarify whether or not the detail should reflect only one layer of Densdeck on the studs, weather membrane, insulation and panels (typical rainscreen?)

RESPONSE: Provide  $\frac{1}{2}$ " Densdeck sheathing on the steel studs. Delete  $\frac{1}{2}$ " Densdeck sheathing over the insulation. A wet sealed panel system is to be provided.

**(41) INQUIRY:** Please refer to wall section 3/A4.12 and detail M, A/6.07. There is no slab edge fire-safing or smoke seal indicated at the second floor line. Please verify if slab edge fire-safing and smoke seal are required at this location.

RESPONSE: The landing at top of (second floor) Stair ST-2 shall be part of the stair framing and is contained within the CMU walls of the stair enclosure.

(42) INQUIRY: Specification section 123500 – Library Casework and Furniture calls for the shelving to be Plastic Laminate Finish, However the list of manufacturers is Spec. Section 2.1.A.1 appear to be manufacturers of either wood veneer shelving or metal shelving. Since the specification is laminate, would Stevens Industries be an approved manufacturer?

RESPONSE: These manufacturers also have resources for laminate.

**(43) INQUIRY:** Thought that you might like to know that the plans and specifications for this new school are calling for telephones connected to the intercom system rather than the VOIP phones you are installing in the other new buildings.

RESPONSE: Specification section 27 10 00 – Low-Voltage Structured Cabling Systems will be replaced with specification section 27 1500 – Data, Voice, & Video Systems, the current BCPS standard, in Addendum #3.

**(44) INQUIRY:** Please provide a specification section for 07 33 65 – Concrete Roof Paver System.

RESPONSE: Provide concrete paver system with built-in pedestals for rooftop installation. Paver Size: 2'x2'x4" tall. Provide chamfered edges, with integral water conducting standoff system. Integrates with WindDisc. Base consists of 95% post-industrial polypropylene. Concrete paver compressive strength = 5000+ psi at 28 days. Representative product: LiveRoof Brand Integrated Paver (Roof Stone) for Rooftop Patios and Walkways. Provide in 2 colors.

Equal products: Hanover Pedestal Pavers by Hanover® Architectural Products, 5000 Hanover Road, Hanover, PA 17331.

**(45) INQUIRY:** A few of the wall sections at the parapet wall seem incomplete as no flashing, cant strips, coping, etc. are called out and/or referenced. Details include, but not limited to 1/A3.06, 2/A3.06, 3/A3.06.

RESPONSE: Details will be included with Addendum #4.

**(46) INQUIRY:** Specification Section 08800 Glass and Glazing is missing from volume 1 of the specification. Will this be issued via addendum?

RESPONSE: Specification Section 08800 Glass and Glazing has been issued as part of Addendum No. 1.

(47) INQUIRY: Insulated metal panels glazed into the storefront framing and curtainwall framing are designated as specification section 074225 "Insulated Metal Panels in Curtainwall" per the Keynote Legend on A1.03, and the spandrel panels are indicated per wall section 1/A3.11 as specification section 074224. Neither of these specification sections are in Volume 1 of the specifications. Please furnish a specification for the glazed in panels designated as "C" as shown on A6.04 and A6.07.

RESPONSE: Delete the list of pre-qualified fabricators and are substituting the requirement that fabricators must have completed a minimum of five (5) projects in the size range of the fabricator's scope on this project and must be certified by the approved manufacturers to install their products.

(48) INQUIRY: Does specification section 074600 pertain to all soffits typical of 3/A3.05?

RESPONSE: Yes typical of 2 and 3/A3.05. Finish to match composite metal wall panel system Alucobond Anodic Clear Mica PVDF 2.

(49) INQUIRY: Are the soffit panels for the Alternate #7 canopy per 074600?

**RESPONSE:** Yes.

**(50) INQUIRY:** Does the fascia on the Alternate #7 canopy have the wood grain finish similar to the soffit?

RESPONSE: Finish shall be as specified (Wood Grain Light Ash 1402/02-716).

**(51) INQUIRY:** Please reference the door schedule A6.02. Doors type D2 (similar to door 138) indicate "Smoke" under the fire rating column. Are these doors to have fire rated glazing? If so is it 20 min., 30 min., 60 min. etc?

RESPONSE: Doors do not have fire rated glazing.

**(52) INQUIRY:** Hollow metal frames F2 (similar to door 146) indicate "Smoke" under the fire rating column. Please indicate if glazing is fire rated and what level is required.

**RESPONSE:** Glazing is not fire rated.

**(53) INQUIRY**: Specification 074230 Metal Composite Panels: Section 074320, 2.5 Finishes, A. 2., calls for "Colors: two (2) colors. There is no indication on the documents that indicate where this may occur. Please clarify.

RESPONSE: Provide one (1) color. Change specified finish from "Silver Metallic PVDF-3/Gloss30/SRI 58" to "Alucobond Anodic Clear Mica PVDF 2".

**(54) INQUIRY:** Specification 074230 Metal Composite Panels: Section 074320, A. 1. and 2. Are in conflict. 1. Calls for PE core and 2. States FR core. Please clarify.

**RESPONSE:** Provide Alucobond PE or equal.

**(55) INQUIRY:** Details 2 and 5 on Drawing C2.01 indicate soil cement under bituminous paving and heavy duty concrete respectively. Specification Section 31 20 00, Earthwork, Part 1.2C, indicate to undercut all slabs and pavements to a depth of 12". Is it acceptable to utilize either methods?

**RESPONSE: Yes** 

**(56) INQUIRY:** Is temporary fencing required around the perimeter of the project site? None are shown on the contract documents.

RESPONSE: Provide 8ft high temporary chain link fencing and gate on LOD. Locate Fencing with super silt fence along Compass and Honeycomb Roads.

**(57) INQUIRY:** Bid form indicates to include \$10,000 of allowance for removal of unsatisfactory soil and replacement with satisfactory soil material. However, Specification Section 01 21 00, Allowances, issued via Addendum #1, indicates allowance of \$20,000 for same scope of work. Please clarify which allowance amount to use.

**RESPONSE:** See response to Inquiry #14.

(58) INQUIRY: With the existing building being demolished under a separate contract, will the project site be turned over to the low bidder as indicated on Drawing C0.02, Overall Existing Conditions Plan? Please verify/confirm.

**RESPONSE: Yes.** 

**(59) INQUIRY:** With the existing building being demolished under a separate contract, are we only responsible for site demolition as shown on Drawing C1.01? Please verify/confirm.

**RESPONSE: Yes.** 

**(60) INQUIRY:** With the existing building being demolished under a separate contract, will the preceding building demolition contractor remove the existing building footings and backfill? Please verify/confirm.

RESPONSE: Yes.

**(61) INQUIRY**: With the existing building being demolished under a separate contract, will the building demolition contractor grade the building site to the new slab on grade subgrade elevation after the existing building demolition? If so, will they be protecting the subgrade? If not, what elevation will they be leaving the building site after the existing building demolition?

RESPONSE: The building demolition contractor will be grading the site as shown on C1.01; this isn't the new slab on grade subgrade.

**(62) INQUIRY:** Specification Section 31 20 00, Earthwork, Part 1.2C, indicates to undercut all slabs and pavements to a depth of 12". Does this include all sidewalks as well?

RESPONSE: Yes.

**(63) INQUIRY**: Specification Section 31 20 00, Earthwork, Part 1.2C, indicates that exterior of the footings to be backfilled with flowable fill. Please indicate the depth of this backfill.

**RESPONSE:** Within 12" of final exterior grades.

**(64) INQUIRY:** Specification Section 31 20 00, Earthwork, Part 1.2C, indicates that backfill for utility pipes entering the building will require flowable fill backfill. Is this for the entire length of the utility pipe or only to a certain distance away from the building? Also, please clarify the depth of this backfill.

RESPONSE: For utilities connecting to the building use flowable fill backfill in trenches within 10ft of the building

**(65) INQUIRY:** Specification Section 31 20 00, Earthwork, Part 1.2C, indicate to undercut all slabs and pavements to a depth of 12". Can soil cementing be utilized in lieu of undercutting for the same depth?

**RESPONSE: Yes** 

**(66) INQUIRY:** Specification section 088560 Metal Column Covers, 1.02 Materials, A.2. and 3. Are in conflict. Item 2. Refers to "Aluminum Sheet" and item 3. Refers to "Stainless Steel Sheet". Please clarify the material to be provided.

#### RESPONSE: Aluminum Sheet is correct. Delete references to stainless steel.

**(67) INQUIRY:** On Drawing C1.02, it appears there is an existing steps connecting the existing asphalt multi use courts to the new sidewalk. There is a note, C-9, pointing to it which is for metal stairs at dumpster pad. Is this correct?

RESPONSE: No, existing concrete steps are to remain.

**(68) INQUIRY:** Please clarify the height, width, and length of the metal stair in the dumpster pad area.

RESPONSE: Height 28 ", width 4ft plus space for railing on three sides of upper plat form and each side of steps. Step risers each 7", treads each 12" between risers. Shop drawings will be required.

**(69) INQUIRY:** Per Specification Section 230506 – Curbs and Flashing for HVAC Piping and Equipment, Part 3.20B, calls for HVAC equipment curbs to be attached to roof construction with a 6-inch wide wood frame the thickness of the roof insulation. However, when you refer to the typical curb details on 8/M5.04 it does not show any wood blocking for curbs. Please advise which is correct.

RESPONSE: The specification section is correct, wood framing is required. Detail 8 on M 504 is not intended to show the full details of curb installation, but, rather, the details of installation of the required acoustical treatment.

(70) **INQUIRY:** Please advise what the door number is for door 158 which leads to the outdoor play area.

RESPONSE: We believe this inquiry refers to the door adjacent to Door 158. See response to Inquiry #3.

(71) **INQUIRY:** Please clarify Head Details and Frame Types, some reference a 4" and one a 2" head.

**RESPONSE:** See response to Inquiry #4.

**(72) INQUIRY:** Head and Jamb details H1 and J2 do not show the door frame wrapping the drywall. The frame type called out in the spec is Curries "C" series, which is made to wrap drywall. Please Clarify.

**RESPONSE:** See response to Inquiry #5.

(73) **INQUIRY:** What are the door and frame materials for openings 136C, 141D-A, 141D-B, and 147B?

**RESPONSE:** See response to Inquiry #7.

**(74) INQUIRY:** Drawing page A4.01.1 shows the refrigerator elevation and refers to Specification section 11 31 20 but we do not have that specification section. Please provide.

RESPONSE: Refrigerators will be provided and installed by the owner.

(75) INQUIRY: Will the requirement of the AISC Cert for Fabricator be waived for this project?

RESPONSE: DELETE requirements for AISC Certification and ADD the following requirements:

- C. Installer Qualifications: A qualified installer who has a minimum of five (5) years of successful experience with projects of similar size and complexity.
- D. Fabricator Qualifications: A qualified fabricator who has a minimum of five (5) years of successful experience with projects of similar size and complexity.

(76) INQUIRY: Specification 074230-2.2-A-3, Metal Panel Fabricators. This specification only has two fabricators listed. Will Baltimore County Public Schools accept others? What is the process to get other installers/fabricators approved?

**RESPONSE:** See response to Inquiry #9.

(77) INQUIRY: Foundation note 1 on S1.01 states that you leave unexcavated soils to 12" above bottom of the underslab stone elevation while foundation piers, footers and MEP underground is being installed. Once these are complete, you remove the 12" bringing you to the bottom of stone elevation. Then remove another 12" of soils. Once the removal of soils is complete, you are 24" below the bottom of underslab stone elevation. This notes states that you place 12" of compacted structural fill and then 4" of stone, Thus leaving us 8" below the bottom of slab. What type of material should be place in the missing 8" not called for in this note?

RESPONSE: Compacted structural fill using the material type specified in the earthwork specification.

(78) **INQUIRY:** Please confirm that this note should be used for all asphalt paving, concrete paving and sidewalk sections?

**RESPONSE: Yes** 

(79) INQUIRY: Specification Section 31 66 13-2 – Aggregate Pier Soil Reinforcement - C3 requires a 30% area ratio. Industry standard is for the Geopier designer of record to determine the required number and size of the Geopier elements, including the area ratio. Will the project team accept a lower area ratio provided that the Geopier design meets the settlement criteria provided in the specification?

RESPONSE: The Aggregate Pier Engineer should provide design calculations which show that the total settlement of any footings is less than one inch and that the distortional settlements between adjacent footings is less than 0.002 in/in. These calculations should indicate all the design assumptions as well as use standard engineering settlement analysis methods both of which are clearly presented in the calculations and are acceptable to the Geotechnical Engineer of Record. Calculations should clearly indicate settlements from: upper zone, lower zone, and adjacent footings.

(80) INQUIRY: According to the Foundation System Note on Sheets S1.01 and S1.02 and the geotechnical engineering report, column footings have been designed for 5,000 psf bearing

pressure using a Geopier ground improvement system. However, Foundation Note 8 on Sheets S1.01 and S1.02 states that an assumed bearing value for design of foundations is 2,500 psf. Please confirm which number is correct.

RESPONSE: The bearing capacity for the column footings is 5,000 PSF and the bearing capacity for the wall footings is 2.500 PSF.

**(81) INQUIRY:** In addition to providing the required bearing capacity, the Geopier system utilizes a settlement based design, in which actual column and wall loads are necessary. While the Geopier designer is able to back-calculate approximate loads using the bearing capacity and footing size, these loads are typically not exactly the same as the actual loads calculated in the structural model. It is with this understanding that we ask that the actual loading for these areas requiring Geopier support (i.e., kips for column footings, and kip/ft for wall footings).

RESPONSE: The geopier designer shall use the size of the footings shown on the foundation plan to determine the loads.

**(82) INQUIRY:** According to Specifications Section 31 66 13-2 – Aggregate Pier Soil Reinforcement – C1, "The Aggregate Pier elements shall be designed for an Aggregate Pier stiffness modulus of 200 pci. The stiffness modulus value shall be verified by the results of the Aggregate Pier modulus test described in this specification." Typically, this is a design/build criteria that is referenced in the Rammed Aggregate Pier design submittal and decided by the Professional Engineer that is the Rammed Aggregate Pier designer of record. Please consider removing this from the specifications.

RESPONSE: The Aggregate Pier Engineer should provide design calculations which show that the total settlement of any footings is less than one inch and that the distortional settlements between adjacent footings is less than 0.002 in/in. These calculations should indicate all the design assumptions as well as use standard engineering settlement analysis methods both of which are clearly presented in the calculations and are acceptable to the Geotechnical Engineer of Record. Calculations should clearly indicate settlements from: upper zone, lower zone, and adjacent footings.

**(83) INQUIRY:** We respectfully submit for your consideration a request to approve Icynene ProSeal MD-C-200 v3spray foam insulation as an accepted substitute on Victory Villa Elementary School (Replacement).

RESPONSE: Icynene ProSeal MD-C-200 v3spray foam insulation appears to be an acceptable equal but will need to be submitted as a substitution after the bidding per BCPS.

**(84) INQUIRY:** Will BCPS hire the agency to provide the construction testing and inspection services for the referenced project or will that be the responsibility of the general contractor?

RESPONSE: Refer to Specification 00200 Section 21.0 on Page 8.

(85) INQUIRY: I wanted to submit a formal question in regards to the bid date for Victory Villa and Lansdowne Elementary. With the addendum that was issued for Victory Villa yesterday they are both now bidding on 12/15 at 1pm and 2pm. With these being due on the same day it is going to be very difficult for us to bid both projects and I'm sure it will be difficult for the other GC's as well. Was your intention to have both projects bidding on the same day? We have never really seen this done especially by the same owner. We feel that Lansdowne should now

be pushed a week in order to have enough time to properly review everything and to allow us to submit bids for both projects.

RESPONSE: See Bid Date Change on first page of Addendum #3.

**(86) INQUIRY:** Section 064023, 2.3, SwanStone is specified. May we offer DuPont Corian in place of SwanStone?

**RESPONSE:** DuPont Corian is an acceptable product.

**(87) INQUIRY:** Drawing A4.01.1, section views 8 through 12 are noted for wood interiors of casework and plastic laminate fronts. Is this wood grain laminate? Or is this Maple wood veneer over plywood? particleboard? MDF? If Maple veneer, is the Maple random species when semi-concealed and concealed? What is the finish of exposed ends, tops and bottoms of wall cases, and tops of tall cases? P Lam or Wood?

RESPONSE: Replace "Wood Interiors" with plastic laminate. See Specification Section 06 40 23.

**(88) INQUIRY:** Drawing A4.02.3, section views 15 through 18 are noted to have wood laminate over plywood core and with hardwood edgebanding (typ.). Is this correct? Or should this be Maple Wood Veneer over plywood core?

RESPONSE: Replace Wood Laminate with Maple Veneer over Fire Retardant Treated Particleboard Core. Use 3/4" thick Duraflake fire-rated particleboard with a GRADE 1, Flat Cut (Plain Sliced) White Maple Veneer. AWI System #TR-4, Conversion Varnish with clear natural finish. Class A Flame Spread, Class 1 Finish Fire Rating. Use solid maple rounded edge trim at corner of seat and riser.

**(89) INQUIRY:** Ref: Spec Section 123500 - Will the architect allow Cabinets By Design Inc <a href="https://www.cabinetsbydesigninc.com">www.cabinetsbydesigninc.com</a> to be listed as an acceptable manufacturer? Providing as specified construction and ten year warranty is within our capabilities.

RESPONSE: Contractor shall bid the project with manufacturers identified in the contract documents. Substitution requests may be considered after the contractor has received Notice to Proceed, as identified in Specification Section 00 20 00, paragraph 16.

**(90) INQUIRY:** Recommendation – Drawing A4.02.3, At Laminate Type 1 transaction ledge, use solid surface material for the top of the ledge to allow an as seamless installation as possible where the vertical steel column intersects this assembly.

RESPONSE: Drawing is to be as shown on A4.02.3.

**(91) INQUIRY:** According to the finish schedule (A6.01) and finish plans (A8.03), the Gymnasium is scheduled to receive Resilient Tile flooring. According to the specifications, the resilient tile flooring could either be Vinyl Composition Tile, High Performance Vinyl Plank Tile, or Quartz Tile. These are all commercial products and are not suited to be used as sports flooring. Does the owner/architect intend to use commercial flooring for the gymnasium? Or was this an oversight?

RESPONSE: Flooring in the gymnasium is to be Resilient Tile Flooring as noted. See Finish Schedule

(92) INQUIRY: Are shadow box panels required as listed in 089110 2.2.J?

RESPONSE: No. Delete paragraph J. Shadowbox Panels.

**(93) INQUIRY:** A 20 year finish warranty is listed in 089110 but the maximum warranty offered for the specified finish is 10 years. Please confirm this is acceptable.

RESPONSE: 10 years is acceptable.

**(94) INQUIRY:** Please confirm there are no blast requirements for the project as listed in 089110.

**RESPONSE:** There are no blast requirements.

**(95) INQUIRY:** Is SB70XL required at the south elevation and SB60 at the remainder? Glass types 1-3 only note SB70XL, but SB60 is listed elsewhere in the specification.

RESPONSE: Yes SB70XL per specification section 08 80 00 GLAZING Paragraph 2.9 INSULATING-GLASS TYPES. Delete references to SB60 from the specification and drawings. See Drawing revision #1 above.

(96) INQUIRY: Please confirm glass type 3 is not applicable to this project.

RESPONSE: Glass type 3: laminated and clear insulating glass is to be installed in the clearstory at gymnasium.

**(97) INQUIRY:** Is the panel makeup listed in 089110 2.6 to be used for all panels on the project? Are Mapes and Laminators acceptable manufacturers for this panel?

RESPONSE: Panels must be equal to specified panels in construction and aluminum sheet quality/gauge and finish must match curtainwall or storefront. Substitution requests will be reviewed after the bid phase per BCPS requirements.

**(98) INQUIRY:** Doors ST2-B and 001A-A are listed as both fire rated and storefront. Fire rated storefront is a very expensive product that is not typical for BCPS. Are these doors possibly intended to be hollow metal? Or do not actually require a fire rating?

RESPONSE: These doors are not to be fire-rated.

(99) INQUIRY: What is the door number for frame SE-14?

RESPONSE: See response to inquiry 3.

(100) INQUIRY: One of the interior frames is labeled as SI-25, which does not exist on the schedule. Should this label be changed to SI-24?

RESPONSE: See Sketch attached with Addendum #3.

(101) INQUIRY: Can you please ask the Architect whether they will allow a substitution request for the vegetative roof assembly? I've attached the appropriate specs for our modular trays (from Green Grid Roofs).

RESPONSE: Contractor shall bid the project with manufacturers identified in the contract documents. Substitution requests may be considered after the contractor has received Notice to Proceed, as identified in Specification Section 00 20 00, paragraph 16.

(102) INQUIRY: Detail 5/A4.07.5 and elevations 7 & 8/A4.07.5 show four (4) groups of lockers yet plan detail 1/A4.04 indicates two (2) additional locker groups, one at either side of column line 4. Please clarify as to which view is correct.

RESPONSE: There are to be no lockers on either side of column line 4 at this location. Detail 5/A4.07.5 and 7&8/A4.07.5 are correct.

(103) INQUIRY: Detail plan 2/A4.12 seems to indicate a group of lockers at the wall adjoining stair ST2, but is not noted on plan detail 1/A4.07.3, nor on elevation 5/A4.07.3. Please clarify.

RESPONSE: There are to be no lockers at the wall adjoining ST2. Drawings 1/A4.07.3 and 5/A4.07.3 are correct.

(104) INQUIRY: The prints show CCTV and Card Access but there are no spec sections to cover this.

RESPONSE: Specification sections 28 1300 – Access Controls and 28 2300 – Video Surveillance will be added under Addendum #4.

**(105) INQUIRY:** There is a reference to spec section 113120 on the plans for the Refrigerators, but this spec section is not included in the specs. Please provide the missing spec section 113120.

**RESPONSE:** See response to Inquiry #74.

(106) INQUIRY: There are (2) Dumpsters shown on Drawing C1.02, Item #C-4. Are the dumpsters to be provided by the Owner or by the GC?

**RESPONSE:** Dumpsters are to be provided by owner.

(107) INQUIRY: There are some Segmental Retaining Block walls on this project, but there are no specs provided. Please provide the missing spec section for the Segmental Retaining Block walls.

RESPONSE: Contractor to provide final design using a keystone structural retaining wall system, product type Keysystem II straight face block or approved equal. Final color selection to be approved by owner from manufacturer's standard selections.

**(108) INQUIRY:** There are Cubicle Curtains and Tracks shown on Drawing A4.01.1, but there are no specs provided. Please provide the missing spec section for the Cubicle Curtains.

RESPONSE: ADD specification section 12 22 00 CUBICLE CURTAINS. This Section includes hospital style curtains and tracks to be installed in Resting 102D and Video Production 103D.

**(109) INQUIRY:** There are Photovoltaic panels shown on the plans, but there are no specs for them. Please provide the missing spec section for the Photovoltaic panels.

RESPONSE: Specs will be provided with Addendum #4.

(110) INQUIRY: There is Architectural Precast Concrete shown on the plans for Alternate No. 7 – Canopy and spec section 034501 is listed in the legend, but this spec section is not included in the specs. Please provide the missing spec section 034501.

RESPONSE: See specification section 04 72 00 CAST STONE MASONRY – WET CAST.

(111) INQUIRY: There is a spec for Projection Screens, Spec Section 115213, but I did not see any on the plans. Are there projection screens on this project? All of the screens are labeled as 115400 – Smartboards, which are NIC.

RESPONSE: There is one (1) 11'x18' ceiling mounted motorized "flexible operable rear projection screen" at Platform 141A. See Drawing A4.08.3. DELETE all references to "rigid rear projection screen" from specification section 11 52 13 PROJECTION SCREENS

(112) INQUIRY: Specification Section 110610, Article 2.04, Paragraph "A.1" states to fabricate the curtain batten from Black galvanized 1-1/4" steel pipe. We propose to use 1-1/2" Schedule 40 black steel pipe in lieu of 1-1/4" Black galvanized pipe as this is in concert with industry standards for this application. Is this acceptable?

RESPONSE: This is acceptable.

(113) INQUIRY: On Drawing A4.01.1 there is a room labeled Room 101L – Coats/Safe. Do we need to provide a safe or is it by the owner? If yet, we will need a spec for the safe.

RESPONSE: Safe is to be provided and installed by BCPS. Contractor is to provide small block CMU pedestal (approx. 2'-0" W. x 2'-0" D. x 2'-0" Ht.) within closet on which to bolt the safe.

(114) INQUIRY: According to the ACM spec (section 074230) there are two colors. However, the drawings (elevations) do not differentiate the colors. Are we to assume that there is one color here?

**RESPONSE:** Only one color

(115) INQUIRY: We're interested in quoting the Victory Villa ES project to furnish and deliver the green roof system. Are you currently accepting substitution requests? We have installed over 5,000,000 square feet nation-wide and would appreciate the opportunity to bid on this project.

RESPONSE: Contractor shall bid the project with manufacturers identified in the contract documents. Substitution requests may be considered after the contractor has received Notice to Proceed, as identified in Specification Section 00 20 00, paragraph 16.

(116) INQUIRY: This letter is to request our inclusion as an acceptable substitute for the Extruded Aluminum products within our scope on the Victory Villas Elementary Replacement project. It is our intent to meet or exceed the specifications for this project.

RESPONSE: Contractor shall bid the project with manufacturers identified in the contract documents. Substitution requests may be considered after the contractor has received Notice to Proceed, as identified in Specification Section 00 20 00, paragraph 16.

All other specifications and terms remain as stated in original document. This addendum is hereby made a part of the Contract Documents, on which the contract is based and is intended to modify, explain, correct and/or add to the original Contract Documents.

#### **END OF ADDENDUM NUMBER 3**

Anita Randall
Purchasing Agent
Baltimore County Public Schools - Office of Purchasing

Katy Angstadt, Project Manager Bid file

## BALTIMORE COUNTY PUBLIC SCHOOLS

S. Dallas Dance, Ph.D. Superintendent

6901 Charles Street

Towson, Maryland 21204-3711

## SECTION 00 1000 - NOTICE TO CONTRACTORS - REVISED

The Board of Education of Baltimore County invites Trade Contractors to bid on the **REPLACEMENT OF**VICTORY VILLA ELEMENTARY SCHOOL, Solicitation Number ARA-209-17 (PSCP#03.057.17 LP).

Procurement questions can be emailed to Anita Randall at <u>arandall@bcps.org</u>. Verbal questions will not be taken.

Contractors proposing to bid may obtain solicitation documents beginning at 2:00 pm on Thursday, November 10, 2016. Visit website: <a href="http://www.bcps.org/offices/purchasing/">http://www.bcps.org/offices/purchasing/</a> and click onto "Invitation to Bid". Solicitation documents can be ordered electronically or picked-up in person from Gardens Reprographics (419 Saint Paul Place, Baltimore, MD 21202. Hours: Monday through Friday 8 – 5. Phone: 410-539-2763).

A pre-bid meeting is scheduled for <u>November 16, 2016 at 3:00 P.M. at BCPS Office of Engineering and</u> Construction, 9610 Pulaski Park Drive, Suite 204, Baltimore, Maryland 21220.

Sealed bids will be received until 2:00 P.M. Wednesday, December 21, 2016 in the Office of Purchasing at Baltimore County Public Schools, located at 6901 Charles Street, Building "E", 1st Floor, Towson, Maryland 21204. A public bid opening will take place approximately 10 minutes after the due date and time for this solicitation.

All bidders shall be pre-qualified by Baltimore County Department of Public Works (BCDPW), Contracts Division. Category "I" Buildings, Classification Number 1 (Construction), prior to the date of bid opening.

Certified Minority Business Enterprises are encouraged to respond to this solicitation notice. The contractor or supplier who provides materials, supplies, equipment and/or services for this construction project shall attempt to achieve the specific overall MBE goal of 30 percent established for this project. All prime contractors, including certified MBE firms, when submitting bids or proposals as general or prime contractors, are required to attempt to achieve this goal from certified MBE firms. The subgoals established for this project are 7 percent from African American-owned businesses and 4 percent from Asian American-owned businesses. Any MBE firms bidding should review the provisions in COMAR 21.11.03.12-1 for counting a portion of self-performance toward meeting the stated goals. The bidder or offeror is required to submit with its bid or proposal a completed Attachment A - Certified MBE Utilization and Fair Solicitation Affidavit and Attachment B - MBE Participation Schedule, as described in the solicitation documents.

This project is subject to State of Maryland Prevailing Wage Rates as determined by the Department of Labor, Licensing & Regulation - Division of Labor & Industry.

The Baltimore County Department of Public Works' cost group for this project is H: Over \$15 Million. Commodity Code: 909-67

The Board of Education of Baltimore County reserves the right to reject any or all proposals and to waive informalities.

By Order of the Board of Education of Baltimore County Office of Purchasing

END OF SECTION

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**FOR** 

## Victory Villa Elementary School

500 Compass Road, Maryland 21220

## **SPECIFICATIONS**

## **BID SET**

November 10, 2016 (Rev. 12-02-2016 Addm.No.3)

PSCP #03.057.17 LP ARA-209-17

(Addm. No.1) = Addendum No.1 dated 11-15-2016 (Addm. No.3) = Addendum No.3 dated 12-02-2016

The arrangement of the Project Manual has been established on the MASTERFORMAT (2009 version) of the CONSTRUCTION SPECIFICATIONS INSTITUTE. The following Table of Contents lists certain Bidding and Contract Documents which are made part of this Project Manual by reference.

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### SECTION 01 25 00 - SUBSTITUTION PROCEDURES (Addm. #3)

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

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

### 1.2 SUMMARY

- A. Section includes administrative and procedural requirements for substitutions.
- B. Related Requirements:
  - 1. Part I: General Terms and Conditions, paragraph 43, Substitutions.
  - 2. Section 012100 "Allowances" for products selected under an allowance.
  - 3. Section 012300 "Alternates" for products selected under an alternate.
  - 4. Section 016000 "Product Requirements" for requirements for submitting comparable product submittals for products by listed manufacturers.

### 1.3 DEFINITIONS

- A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.
  - 1. Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
  - 2. Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required in order to meet other Project requirements but may offer advantage to Contractor or Owner.

### 1.4 ACTION SUBMITTALS

- A. Substitution Requests: Submit three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
  - 1. Substitution Request Form: Use CSI Form 13.1A or facsimile of form provided in Project Manual.
  - 2. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
    - a. Statement indicating why specified product or fabrication or installation cannot be provided, if applicable.
    - b. Coordination information, including a list of changes or revisions needed to other parts of the Work and to construction performed by Owner and separate contractors, that will be necessary to accommodate proposed substitution.

- c. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Include annotated copy of applicable Specification Section. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.
- d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
- e. Samples, where applicable or requested.
- f. Certificates and qualification data, where applicable or requested.
- g. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners.
- h. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
- Research reports evidencing compliance with building code in effect for Project, from ICC-ES.
- j. Detailed comparison of Contractor's construction schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.
- k. Cost information, including a proposal of change, if any, in the Contract Sum.
- I. Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated.
- m. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
- 3. Architect's Action: Architect will notify contractor of acceptance or rejection of proposed substitution within 10 days of receipt of request
  - a. Forms of Acceptance: Change Order, Construction Change Directive, or Architect's Supplemental Instructions for minor changes in the Work.
  - b. Use product specified if Architect does not issue a decision on use of a proposed substitution within time allocated.

### 1.5 QUALITY ASSURANCE

A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

### 1.6 PROCEDURES

A. Coordination: Revise or adjust affected work as necessary to integrate work of the approved substitutions.

### PART 2 - PRODUCTS

### 2.1 SUBSTITUTIONS

- A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than **10** days prior to time required for preparation and review of related submittals.
  - 1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
    - Requested substitution is consistent with the Contract Documents and will produce indicated results.
    - b. Substitution request is fully documented and properly submitted.
    - c. Requested substitution will not adversely affect Contractor's construction schedule.
    - d. Requested substitution has received necessary approvals of authorities having jurisdiction.
    - e. Requested substitution is compatible with other portions of the Work.
    - f. Requested substitution has been coordinated with other portions of the Work.
    - g. Requested substitution provides specified warranty.
    - h. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.
- B. Substitutions for Convenience: Will be subject to the same conditions as Substitutions for Cause and will be allowed only at the discretion of BCPS.

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 25 00

### SECTION 12 22 00 - CUBICLE CURTAINS (Addm. #3)

### PART 1 - GENERAL

### 1.1 SUMMARY

- A. This Section includes hospital style curtains and tracks to be installed in **Resting 102D and Video Production 103D.**
- B. Additional Wire hangers to provide additional support to metal ceiling grids that support curtain tracks.

### 1.2 SUBMITTALS

- A. Product Data: For the following:
  - 1. Tracks: Include maximum weights of draperies that can be supported.
    - a. Type: Surface mounted to ceiling.
  - 2. Fabrics: 100% FR Polyester in designer pattern.
- B. Shop Drawings: For tracks. Show installation and anchorage details, locations of components and controls, and field measurements.
  - 1. Curtains: Show sizes, locations, and details of installation.
- C. Coordination Drawings: For track installation; reflected ceiling plans drawn to scale and coordinating track installation with openings and ceiling-mounted items.
- D. Samples: For each drapery and for each fabric color and texture required.
- E. Product Schedule: Use same designations indicated on Drawings.
- F. Product Certificates: For each fabric treated with flame retardant, signed by fabric supplier.
- G. Maintenance data.

### 1.3 QUALITY ASSURANCE

- A. Installer Qualifications: For draperies and tracks, fabricator of draperies.
- B. Source Limitations: For draperies, obtain each color and pattern of fabric and trim from one dye lot.
- C. Fire-Test-Response Characteristics: For fabrics treated with fire retardants, provide products that pass NFPA 701 as determined by testing of fabrics that were treated using treatment-

application method intended for use for this Project by a testing and inspecting agency acceptable to authorities having jurisdiction.

- D. Mockups: Install mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
  - 1. Install mockup for each type of product and combination of products indicated.
  - 2. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

### 1.4 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Track Carriers: For each size indicated, equal to **5** percent of amount installed, but no fewer than **10** of each size.
  - 2. Fabrics: For each fabric, color, and pattern indicated, full-width lengths equal to **5** percent of amount installed, but no fewer than **10** yards of each fabric, color, and pattern.

### PART 2 - PRODUCTS

### 2.1 DRAPERY TRACKS

- A. Manually Operated Track
  - 1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
  - 2. Products: Subject to compliance with requirements, provide one of the following:
    - a. General Cubicle No. 6062 Track with a Clear Anodized finish.
  - 3. Construction: Extruded aluminum and bendable to radii indicated.
    - a. Lengths and Configurations: As indicated on Drawings.
    - b. Support Capability: 45 lb mounted on track length indicated.
    - c. Finish: Clear anodic coating.
  - 4. Mounting Brackets: Aluminum, of type suitable for fastening track to surface indicated and designed to support weight of track assembly and drapery plus force applied to operate track.
    - a. Mounting Surface: Ceiling- metal T ceiling grid.
  - 5. Installation Fasteners: Sized to support track assembly and drapery, and fabricated from metal compatible with track, brackets, and supporting construction. Provide two fasteners to fasten each bracket to supporting construction.
  - 6. Operation: Baton.
  - 7. Carriers: Rollers with hooks.

8. Accessories: Spacers for tegular tile lay-in ceiling.

### 2.2 CURTAINS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. General Cubicle Company, Inc., 114 West Broad Street, Telford PA.
  - 2. Tel: (215) 723-8931. (800) 869-4606.
  - 3. Equal Manufacturers:

Cubicle Curtain Factory, 425 West Kanuga Drive, West Palm Beach, Florida 33401. Tel: 561-838-5259. Toll free: 1-800-588-9296.

- C. Curtain Fabric: Cubicle manufacturer's standard, as follows:
  - 1. Color: As selected from Designer pattern fabric range.
  - 2. Fabric: Designer pattern fabric by:
    - a) Interspec
    - b) Maharem
    - 3. Fiber Content: 100 percent FR polyester, inherently and permanently flame resistant.
- D. Mesh Top (Resting 102D only): No. 40 nylon mesh
  - 1. Curtain Grommets: Two-piece, rolled-edge, rustproof, nickel-plated brass; spaced not more than 6 inches (152 mm) o.c.; machined into top hem. Provide an integral webbing is provided, inside the framing along the top hem, to insure the gripping strength of the grommets.
  - 2. Standard nylon mesh to be 21" high, to allow ventilation and light flow. Mesh tops other than 21" wide may be used to accommodate ceilings higher than 8'9".
  - 3. The nylon mesh will be sewn to the body of the curtain with an overlapping operation performed by a double needle interlocked stitch. This procedure insures that the curtain will have a finished look on both sides where the mesh is added to the body of the curtain
  - 4. The sides of the mesh will be completely bound with the same fabric as the body of the curtain.
- E. Curtain Tieback: Nickel-plated brass chain; one at each curtain termination.

### 2.3 CURTAIN FABRICATION

- A. Fabricate curtains to comply with the following requirements:
  - 1. Width: Equal to track length from which curtain is hung plus 10 percent added fullness, but not less than 12 inches (305 mm) added fullness.
  - 2. Length: Equal to floor-to-ceiling height minus 21 inches (460 mm) from finished ceiling at top, and minus distance above finished floor at bottom as follows:
    - a. Cubicle Curtains: 12 inches (305 mm)
    - b. Dressing Area Curtains: 6 inches (152 mm)
  - 3. Mesh Top: Top hem not less than 1 inch (25.4 mm) and not more than 1-1/2 inches (38 mm) wide, triple thickness, reinforced with integral web, and double lock stitched. Double lock stitch bottom of mesh directly to 1/2 inch (12.7 mm) triple thickness, top hem of curtain fabric.
  - 4. Bottom Hem: Not less than 1 inch (25.4 mm) and not more than 1-1/2 inches (38 mm) wide, double thickness and single lock stitched. The side and bottom hems will be 1" wide with triple thickness of material. No crooked or selvedge edges will be used in place of side or bottom hems. Bottom hem sewing will be turned vertically at each corner to prevent unraveling of sewing thread.
  - 5. Side Hems: Not less than 1/2 inch (12.7 mm) and not more than 1-1/4 inches (31.8 mm) wide, with double turned edges, and single lock stitched
  - 6. Vertical Seams: Not less than 1/2 inch (12.7 mm) wide, double turned and double stitched. All vertical seams will be overlapped and sewn with double needle, interlocked stitch to insure straightness and strength of seams.
  - 7. Sewing: All sewing will be performed with lock stitch machines in a quality workmanship manner.

### PART 3 - EXECUTION

### 3.1 DRAPERY TRACK INSTALLATION

- A. Install track systems according to manufacturer's written instructions, level and plumb, and at height and location in relation to adjoining openings as indicated on Drawings.
- B. Isolate metal parts of tracks and brackets from concrete, masonry, and mortar to prevent galvanic action. Use tape or another method recommended in writing by track manufacturer.
- C. Install spacers designed for use with tegular lay-in ceiling tiles when installing track.
- D. Provide and install additional lay-in ceiling wire hangers to provide additional support to metal ceiling grids that support curtain tracks.
- E. Curtain track is designed to be mounted directly onto finished ceiling or recessed into the ceiling.

- F. Fastening of the track is to be made no less than 3' on center with a #8 pan head screw or toggle bolt. Fastening must occur in center of raceway to insure that the carrier bypasses the head of the screw. Where flush mounting is required the opening is to be taped to insure against gypsum plaster entering the track.
- G. Track will be continuous L shaped sections 8'3" x 8'3" wherever possible. Spliced will be used only where one piece sections cannot apply.
- H. Special degreed bends shall be used where necessary. All bends will be 12" radius.

### 3.2 DRAPERY INSTALLATION

- A. Where curtains abut overhead construction, hang draperies so that clearance between headings and overhead construction is 1/4 inch.
- B. Where curtains extend to floor, install so that bottom hems clear finished floor by not more than 12 inchs.
- C. Curtains be at least 10% wider than the track upon which they run

### 3.3 ADJUSTING

- A. After hanging draperies, test and adjust each track to produce unencumbered, smooth operation.
- B. Steam and dress down draperies as required to produce crease- and wrinkle-free installation.
- C. Remove and replace draperies that are stained or soiled.

END OF SECTION 12 22 00

### SECTION 32 92 00 - LAWNS AND GRASSES

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

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

### 1.2 SUMMARY

### A. Section Includes:

- 1. Seeding.
- 2. Sodding.

### B. Related Sections:

- 1. Division 31 Section "Site Clearing" for topsoil stripping and stockpiling.
- 2. Division 31 Section "Earthwork" for excavation, filling and backfilling, and rough grading.
- 3. Division 32 Section "Landscaping" for border edgings.

### 1.3 DEFINITIONS

- A. Finish Grade: Elevation of finished surface of planting soil.
- B. Manufactured Soil: Soil produced off-site by homogeneously blending mineral soils or sand with stabilized organic soil amendments to produce topsoil or planting soil.
- C. Planting Soil: Native or imported topsoil, manufactured topsoil, or surface soil modified to become topsoil; mixed with soil amendments.
- D. Subgrade: Surface or elevation of subsoil remaining after completing excavation, or top surface of a fill or backfill immediately beneath planting soil.
- E. Subsoil: All soil beneath the topsoil layer of the soil profile, and typified by the lack of organic matter and soil organisms.

### 1.4 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Certification of Grass Seed: From seed vendor for each grass-seed monostand or mixture stating the botanical and common name and percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the year of production and date of packaging.

- 1. Certification of each seed mixture for turfgrass sod, identifying source, including name and telephone number of supplier.
- C. Qualification Data: For qualified landscape Installer.
- D. Product Certificates: For soil amendments and fertilizers, from manufacturer.
- E. Material Test Reports: For existing surface soil and imported topsoil.
- F. Planting Schedule: Indicating anticipated planting dates for each type of planting.
- G. Maintenance Instructions: Recommended procedures to be established by Owner for maintenance of lawns during a calendar year. Submit before expiration of required initial maintenance periods.

### 1.5 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified landscape installer whose work has resulted in successful lawn establishment.
  - 1. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when planting is in progress.
  - 2. Maintenance Proximity: Not more than two hours' normal travel time from Installer's place of business to Project site.
- B. Soil-Testing Laboratory Qualifications: An independent laboratory, recognized by the State Department of Agriculture, with the experience and capability to conduct the testing indicated and that specializes in types of tests to be performed.
- C. Topsoil Analysis: Furnish soil analysis by a qualified soil-testing laboratory stating percentages of organic matter; gradation of sand, silt, and clay content; cation exchange capacity; deleterious material; pH; and mineral and plant-nutrient content of topsoil.
  - Report suitability of topsoil for lawn growth. State-recommended quantities of nitrogen, phosphorus, and potash nutrients and soil amendments to be added to produce satisfactory topsoil.
- D. Preinstallation Conference: Conduct conference at Project site.

### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Seed: Deliver seed in original sealed, labeled, and undamaged containers.
- B. Sod: Harvest, deliver, store, and handle sod according to requirements in TPI's "Specifications for Turfgrass Sod Materials" and "Specifications for Turfgrass Sod Transplanting and Installation" in its "Guideline Specifications to Turfgrass Sodding." Deliver sod in time for planting within 24 hours of harvesting. Protect sod from breakage and drying.

### 1.7 PROJECT CONDITIONS

- A. Planting Restrictions: Plant during one of the following periods. Coordinate planting periods with initial maintenance periods to provide required maintenance from date of Substantial Completion.
  - 1. Spring Planting: March 1 through May 15.
  - 2. Fall Planting: August 15 through October 15.
- B. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit.

### 1.8 MAINTENANCE SERVICE

- A. Initial Lawn Maintenance Service: Provide full maintenance by skilled employees of landscape Installer. Maintain as required in Part 3. Begin maintenance immediately after each area is planted and continue until acceptable lawn is established, but for not less than the following periods:
  - 1. Seeded Lawns: 60 days from date of Substantial Completion.
    - a. When initial maintenance period has not elapsed before end of planting season, or if lawn is not fully established, continue maintenance during next planting season.
  - 2. Sodded Lawns: 60 days from date of Substantial Completion.

### PART 2- PRODUCTS

### 2.1 SEED

A. Grass Seed: Fresh, clean, dry, new-crop seed complying with AOSA's "Journal of Seed Technology; Rules for Testing Seeds" for purity and germination tolerances.



Grass Seed Mix: Blend of three varieties of Improved Tall Fescue as recommended by the Maryland Extension Service. Seed shall be Maryland Certified with seed certification tags provided to and approved by the Architect prior to installation. Use of K-31 Tall Fescue will not be allowed on this project in order to comply with the Maryland Department of the Environment and the U.S. Army Corps of Engineers general permit requirements.

### 2.2 TURFGRASS SOD

- A. Turfgrass Sod: Certified, complying with TPI's "Specifications for Turfgrass Sod Materials" in its "Guideline Specifications to Turfgrass Sodding." Furnish viable sod of uniform density, color, and texture, strongly rooted, and capable of vigorous growth and development when planted.
- B. Turfgrass Species: Sod of grass species as follows, with not less than 95 percent germination, not less than 85 percent pure seed, and not more than 0.5 percent weed seed:
  - 1. Sun and Partial Shade: blend of three varieties of Improved Tall Fescue as recommended by the Maryland Extension Service from Maryland Certified seed.

### 2.3 TOPSOIL

- A. Topsoil: ASTM D 5268, pH range of 5.5 to 7, a minimum of 6 percent organic material content; free of stones 1 inch or larger in any dimension and other extraneous materials harmful to plant growth.
  - 1. Topsoil Source: Reuse surface soil stockpiled on-site. Verify suitability of stockpiled surface soil to produce topsoil. Clean surface soil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful to plant growth.
    - a. Supplement with imported or manufactured topsoil from off-site sources when quantities are insufficient. Obtain topsoil displaced from naturally well-drained construction or mining sites where topsoil occurs at least 4 inches deep; do not obtain frombogs or marshes.
  - 2. Topsoil Source: Import topsoil or manufactured topsoil from off-site sources. Obtain topsoil displaced from naturally well-drained construction or mining sites where topsoil occurs at least 4 inches deep; do not obtain frombogs or marshes.
  - 3. Topsoil Source: Amend existing in-place surface soil to produce topsoil. Verify suitability of surface soil to produce topsoil. Clean surface soil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful to plant growth.
    - a. Surface soil may be supplemented with imported or manufactured topsoil from offsite sources. Obtain topsoil displaced from naturally well-drained construction or mining sites where topsoil occurs at least 4 inches deep; do not obtain frombogs or marshes.

### 2.4 INORGANIC SOIL AMENDMENTS

- A. Lime: ASTM C 602, agricultural limestone containing a minimum of 80 percent calcium carbonate equivalent and as follows:
  - 1. Class: T, with a minimum of 99 percent passing through No. 8 sieve and a minimum of 75 percent passing through No. 60 sieve.
  - 2. Class: O, with a minimum of 95 percent passing through No. 8 sieve and a minimum of 55 percent passing through No. 60 sieve.
  - 3. Provide lime in form of dolomitic limestone.
- B. Sulfur: Granular, biodegradable, containing a minimum of 90 percent sulfur, with a minimum of 99 percent passing through No. 6 sieve and a maximum of 10 percent passing through No. 40 sieve.
- C. Iron Sulfate: Granulated ferrous sulfate containing a minimum of 20 percent iron and 10 percent sulfur.
- D. Aluminum Sulfate: Commercial grade, unadulterated.
- E. Perlite: Horticultural perlite, soil amendment grade.
- F. Agricultural Gypsum: Finely ground, containing a minimum of 90 percent calcium sulfate.
- G. Sand: Clean, washed, natural or manufactured, free of toxic materials.

- H. Diatomaceous Earth: Calcined, diatomaceous earth, 90 percent silica, with approximately 140 percent water absorption capacity by weight.
- I. Zeolites: Mineral clinoptilolite with at least 60 percent water absorption by weight.

### 2.5 ORGANIC SOIL AMENDMENTS

- A. Compost: Well-composted, stable, and weed-free organic matter, pH range of 5.5 to 8; moisture content 35 to 55 percent by weight; 100 percent passing through 3/4-inch sieve; soluble salt content of 5 to 10 decisiemens/m; not exceeding 0.5 percent inert contaminants and free of substances toxic to plantings; and as follows:
  - 1. Organic Matter Content: 50 to 60 percent of dry weight.
  - 2. Feedstock: Agricultural, food, or industrial residuals; biosolids; yard trimmings; or source-separated or compostable mixed solid waste.
- B. Peat: Sphagnum peat moss, partially decomposed, finely divided or granular texture, with a pH range of 3.4 to 4.8.
- C. Peat: Finely divided or granular texture, with a pH range of 6 to 7.5, containing partially decomposed moss peat, native peat, or reed-sedge peat and having a water-absorbing capacity of 1100 to 2000 percent.
- D. Wood Derivatives: Decomposed, nitrogen-treated sawdust, ground bark, or wood waste; of uniform texture, free of chips, stones, sticks, soil, or toxic materials.
  - 1. In lieu of decomposed wood derivatives, mix partially decomposed wood derivatives with ammonium nitrate at a minimum rate of 0.15 lb/cu. ft. of loose sawdust or ground bark, or with ammonium sulfate at a minimum rate of 0.25 lb/cu. ft. of loose sawdust or ground bark.
- E. Manure: Well-rotted, unleached, stable or cattle manure containing not more than 25 percent by volume of straw, sawdust, or other bedding materials; free of toxic substances, stones, sticks, soil, weed seed, and material harmful to plant growth.

### 2.6 PLANTING ACCESSORIES

A. Selective Herbicides: EPA registered and approved, of type recommended by manufacturer for application.

### 2.7 FERTILIZER

- A. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea formal-dehyde, phosphorous, and potassium in the following composition:
  - 1. Composition: 1 lb/1000 sq. ft. of actual nitrogen, 4 percent phosphorous, and 2 percent potassium, by weight.
  - 2. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified soil-testing agency.

- B. Slow-Release Fertilizer: Granular or pelleted fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorus, and potassium in the following composition:
  - 1. Composition: 20 percent nitrogen, 10 percent phosphorous, and 10 percent potassium, by weight.
  - 2. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified soil-testing agency.

### 2.8 MULCHES

- A. Straw Mulch: Provide air-dry, clean, mildew- and seed-free, salt hay or threshed straw of wheat, rye, oats, or barley.
- B. Peat Mulch: Sphagnum peat moss, partially decomposed, finely divided or granular texture, with a pH range of 3.4 to 4.8.
- C. Peat Mulch: Finely divided or granular texture, with a pH range of 6 to 7.5, containing partially decomposed moss peat, native peat, or reed-sedge peat and having a water-absorbing capacity of 1100 to 2000 percent.
- D. Compost Mulch: Well-composted, stable, and weed-free organic matter, pH range of 5.5 to 8; moisture content 35 to 55 percent by weight; 100 percent passing through 1-inch sieve; soluble salt content of 2 to 5 decisiemens/m; not exceeding 0.5 percent inert contaminants and free of substances toxic to plantings; and as follows:
  - 1. Organic Matter Content: 50 to 60 percent of dry weight.
  - 2. Feedstock: Agricultural, food, or industrial residuals; biosolids; yard trimmings; or source-separated or compostable mixed solid waste.
- E. Fiber Mulch: Biodegradable, dyed-wood, cellulose-fiber mulch; nontoxic; free of plant-growth or germination inhibitors; with a maximum moisture content of 15 percent and a pH range of 4.5 to 6.5.
- F. Nonasphaltic Tackifier: Colloidal tackifier recommended by fiber-mulch manufacturer for slurry application; nontoxic and free of plant-growth or germination inhibitors.
- G. Asphalt Emulsion: ASTM D 977, Grade SS-1; nontoxic and free of plant-growth or germination inhibitors.

### PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine areas to receive lawns and grass for compliance with requirements and other conditions affecting performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities, trees, shrubs, and plantings from damage caused by planting operations.
  - Protect adjacent and adjoining areas from hydroseeding and hydromulching overspray.
  - 2. Protect grade stakes set by others until directed to remove them.
- B. Provide erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

### 3.3 LAWN PREPARATION

- A. Limit lawn subgrade preparation to areas to be planted.
- B. Newly Graded Subgrades: Loosen subgrade to a minimum depth of 6 inches. Remove stones larger than 1 inch in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off Owner's property.
  - 1. Apply fertilizer directly to subgrade before loosening.
  - 2. Thoroughly blend planting soil mix off-site before spreading or spread topsoil, apply soil amendments and fertilizer on surface, and thoroughly blend planting soil mix.
    - a. Delay mixing fertilizer with planting soil if planting will not proceed within a few days.
    - b. Mix lime with dry soil before mixing fertilizer.
  - 3. Spread topsoil to a depth of 4 inches but not less than required to meet finish grades after light rolling and natural settlement. Do not spread if planting soil or subgrade is frozen, muddy, or excessively wet.
- C. Unchanged Subgrades: If lawns are to be planted in areas unaltered or undisturbed by excavating, grading, or surface-soil stripping operations, prepare surface soil as follows:
  - 1. Remove existing grass, vegetation, and turf. Do not mix into surface soil.
  - 2. Loosen surface soil to a depth of at least 6 inches. Apply soil amendments and fertilizers according to planting soil mix proportions and mix thoroughly into top 6 inches of soil. Till soil to a homogeneous mixture of fine texture.
    - a. Apply fertilizer directly to surface soil before loosening.
  - 3. Remove stones larger than 1 inch in any dimension and sticks, roots, trash, and other extraneous matter.
  - 4. Legally dispose of waste material, including grass, vegetation, and turf, off Owner's property.
- D. Finish Grading: Grade planting areas to a smooth, uniform surface plane with loose, uniformly fine texture. Grade to within plus or minus 1/2 inch of finish elevation. Roll and rake, remove ridges, and fill depressions to meet finish grades. Limit finish grading to areas that can be planted in the immediate future.
- E. Moisten prepared lawn areas before planting if soil is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.

F. Before planting, restore areas if eroded or otherwise disturbed after finish grading.

### 3.4 SEEDING

- A. Sow seed with spreader or seeding machine. Do not broadcast or drop seed when wind velocity exceeds 5 mph. Evenly distribute seed by sowing equal quantities in two directions at right angles to each other.
  - 1. Do not use wet seed or seed that is moldy or otherwise damaged.
  - 2. Do not seed against existing trees. Limit extent of seed to outside edge of planting saucer.
- B. Sow seed at a total rate of 5 to 8 lb/1000 sq. ft.
- C. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with fine spray.
- D. Protect seeded areas with slopes exceeding installed and stapled according to manufacturer's written instructions.
- E. Protect seeded areas with erosion-control mats where shown, installed and anchored according to manufacturer's written instructions.
- F. Protect seeded areas with slopes not exceeding 1:6 by spreading straw mulch. Spread uniformly at a minimum rate of 2 tons/acre to form a continuous blanket 1-1/2 inches in loose depth over seeded areas. Spread by hand, blower, or other suitable equipment.
  - 1. Anchor straw mulch by crimping into soil with suitable mechanical equipment.
  - 2. Bond straw mulch by spraying with asphalt emulsion at a rate of 10 to 13 gal./1000 sq. ft. Take precautions to prevent damage or staining of structures or other plantings adjacent to mulched areas. Immediately clean damaged or stained areas.
- G. Protect seeded areas from hot, dry weather or drying winds by applying mulch within 24 hours after completing seeding operations. Soak areas, scatter mulch uniformly to a depth of 3/16 inch, and roll surface smooth.

### 3.5 HYDROSEEDING

- A. Hydroseeding: Mix specified seed, fertilizer, and fiber mulch in water, using equipment specifically designed for hydroseed application. Continue mixing until uniformly blended into homogeneous slurry suitable for hydraulic application.
  - 1. Mix slurry with fiber-mulch manufacturer's recommended tackifier.
  - 2. Apply slurry uniformly to all areas to be seeded in a one-step process. Apply slurry at a rate so that mulch component is deposited at not less than 1500-lb/acre dry weight, and seed component is deposited at not less than the specified seed-sowing rate.

### 3.6 SODDING

A. Lay sod within 24 hours of harvesting. Do not lay sod if dormant or if ground is frozen or muddy.

- B. Lay sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod; do not stretch or overlap. Stagger sod strips or pads to offset joints in adjacent courses. Avoid damage to subgrade or sod during installation. Tamp and roll lightly to ensure contact with subgrade, eliminate air pockets, and form a smooth surface. Work sifted soil or fine sand into minor cracks between pieces of sod; remove excess to avoid smothering sod and adjacent grass.
  - 1. Lay sod across angle of slopes exceeding 1:3.
  - 2. Anchor sod on slopes exceeding 1:6 with wood pegs spaced as recommended by sod manufacturer but not less than 2 anchors per sod strip to prevent slippage.
- C. Saturate sod with fine water spray within two hours of planting. During first two weeks after planting, water daily or more frequently as necessary to maintain moist soil to a minimum depth of 1-1/2 inches below sod.

### 3.7 LAWN MAINTENANCE

- A. Maintain and establish lawn by watering, fertilizing, weeding, mowing, trimming, replanting, and other operations. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth lawn. Provide materials and installation the same as those used in the original installation.
  - 1. In areas where mulch has been disturbed by wind or maintenance operations, add new mulch and anchor as required to prevent displacement.
- B. Watering: Provide and maintain temporary piping, hoses, and lawn-watering equipment to convey water from sources and to keep lawn uniformly moist to a depth of 4 inches.
  - Schedule watering to prevent wilting, puddling, erosion, and displacement of seed or mulch. Lay out temporary watering system to avoid walking over muddy or newly planted areas.
  - 2. Water lawn with fine spray at a minimum rate of 1 inch per week unless rainfall precipitation is adequate.
- C. Mow lawn as soon as top growth is tall enough to cut. Repeat mowing to maintain specified height without cutting more than 1/3 of grass height. Remove no more than 1/3 of grass-leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass is wet. Schedule initial and subsequent mowings to maintain the following grass height:
  - 1. Mow grass to a height of 1/2 inch or less.
  - 2. Mow grass to a height of 1/2 to 1 inch.
  - Mow grass to a height of 1 to 2 inches.
  - 4. Mow grass to a height of 1-1/2 to 2 inches.
  - 5. Mow grass to a height of 2 to 3 inches.

### 3.8 SATISFACTORY LAWNS

A. Lawn installations shall meet the following criteria as determined by Architect:

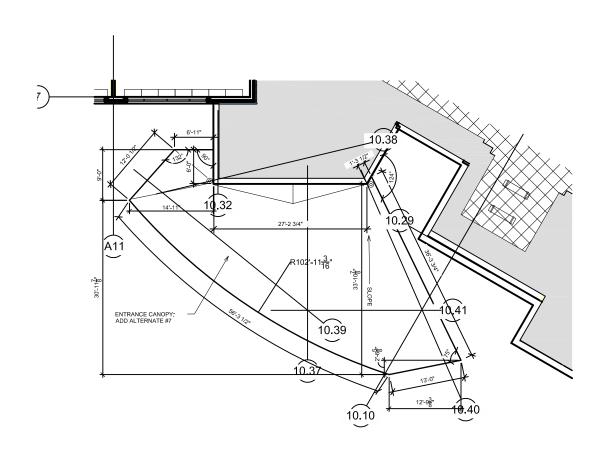
Victory Villa Elementary School Replacement School PSCP #03.057.17 LP ARA-209-17

- 1. Satisfactory Seeded Lawn: At end of maintenance period, a healthy, uniform, close stand of grass has been established, free of weeds and surface irregularities, with coverage exceeding 90 percent over any 10 sq. ft. and bare spots not exceeding 5 by 5 inches.
- 2. Satisfactory Sodded Lawn: At end of maintenance period, a healthy, well-rooted, even-colored, viable lawn has been established, free of weeds, open joints, bare areas, and surface irregularities.
- B. Use specified materials to reestablish lawns that do not comply with requirements and continue maintenance until lawns are satisfactory.

### 3.9 CLEANUP AND PROTECTION

- A. Promptly remove soil and debris, created by lawn work, from paved areas. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas.
- B. Erect temporary fencing or barricades and warning signs as required to protect newly planted areas from traffic. Maintain fencing and barricades throughout initial maintenance period and remove after lawn is established.
- C. Remove nondegradable erosion-control measures after grass establishment period.

END OF SECTION 32 92 00



BALTIMORE COUNTY PUBLIC SCHOOLS VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND

M&D Proj.#: Drawn By: Checked By: Date:

# COUNTY BOARD OF EDUCATION ELEMENTARY SCHOOL

DATE OF DRAWINGS: NOVEMBER 10, 2016





Murphy & Dittenhafer

BALTIMORE COUNTY PUBLIC SCHOOLS
VICTORY VILLA ELEMENTARY SCHOOL
BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

C0.01

M&D Proj.#: 15123

Drawn By: RSW

Checked By: FPB

Date: 12/1/16

1 OF 3

::\15\15098-BCPS Victory Villa ES\04-DWG\PH 2 C0.01 Cover Sheet.dwg-ADD 3-1 Dec 01, 2016 08:20am rsw

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C2.01	Site Details
C2.O2	Site Details
C2.03	Site Details
C3.01	Storm Drain Profiles
C3.02	Storm Drain Profiles
C3.03	Water Profiles
C3.04	Sanitary Profiles
C4.0I	Compass Road Plan
C4.03	Honeycomb Road Plan
C4.I3	Compass Road Storm Drain Plan
C4.I4	Honeycomb Road Storm Drain Plan
C4.I5	Public Roads DA Map
C5.OI	Public Water Plan
C6.0I	Supplemental Outfall Details
ESCI.01	ESC Existing Conditions Plan
E5C1.02	ESC Proposed Conditions Plan
E5C2.01	Erosion and Sediment Control Notes
ESC2.02	Erosion and Sediment Control Details
SWMI.01	Stormwater Management Plan
SMM2.01	Stormwater Management Details
SWM2.02	Stormwater Management Profiles
SMM2.03	Stormwater Management Profiles
SMM2.04	Stormwater Management Storage Profiles
SWM2.05	Stormwater Management Storage Profiles
SWM2.06	Stormwater Management Borings & Details
LI.OI	Final Planting Plan
L2.01	Final Planting Details and Notes

PLANS NO LONGER IN CONTRACT:
C4.02 Compass Striping Plan
C4.04 Honeycomb Striping Plan





Murphy & Dittenhafer

BALTIMORE COUNTY PUBLIC SCHOOLS
VICTORY VILLA ELEMENTARY SCHOOL
BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

C0.01

M&D Proj.#: 15123 Drawn By: RSW Checked By: FPB Date: 12/1/16

OWNER/DEVELOPER:

BOARD OF EDUCATION OF BALTIMORE

**EQUATY** 6901 CHARLES STREET JOMSON, MD 21204



PLAN PREPARED BY: SITE RESOURCES, INC.

14315 JARRETTSVILLE PIKE

PHOENIX, MD 21131

SITE LOCATION DATA:

STREET ADDRESS: 500 COMPASS ROAD a.

BALTIMORE, MD 21220

15TH ELECTION DISTRICT b.

6TH COUNCILMANIC DISTRICT С.

TAX MAP 0090, GRID 0004, PARCEL 0571 d.

TAX ACCT. NUMBER: 1502574061 e.

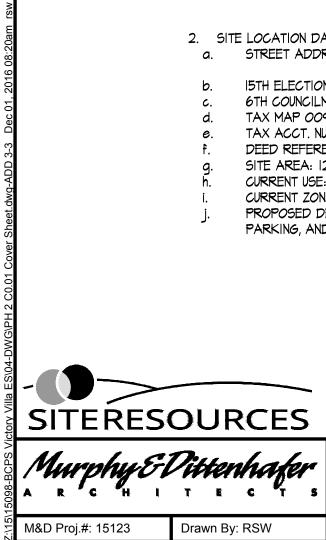
DEED REFERENCE: N/A f.

SITE AREA: 12.45 AC. +/q.

h. CURRENT USE: ELEMENTARY SCHOOL

CURRENT ZONING: DR 5.5

PROPOSED DEVELOPMENT: CONSTRUCT NEW BUILDING, PARKING, AND BUS LOOP.



BALTIMORE COUNTY PUBLIC SCHOOLS VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

C0.01

3 OF 3

M&D Proj.#: 15123

Drawn By: RSW

Checked By: FPB

Date: 12/1/16

# 2.\15\15098-BCPS Victory Villa ES\04-DWG\PH 2 C0.02 Overall Existing Conditions.dwg-ADD 3-1 Dec 01, 2016 08:26am rsw

## GENERAL NOTES

I. SITE ADDRESS: 500 COMPASS ROAD BALTIMORE, MD 21220

2. SITE AREA: 12.45 ACRES

3. PROPOSED PARKING 102 SPACES +/-

4. ZONING: DR5.5

5. PROPOSED SITE LAYOUT SHOWN ON THESE PLANS IS PRELIMINARY

5. EXISTING SCHOOL BUILDING REMOVED IN PHASE I.





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BALTIMORE COUNTY PUBLIC SCHOOLS
VICTORY VILLA ELEMENTARY SCHOOL
BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

C0.02

1 OF 1

M&D Proj.#: 15123

Drawn By: RSW

Checked By: FPB

Date: 12/1/16

I. SITE ADDRESS: 500 COMPASS ROAD BALTIMORE, MD 21220

2. SITE AREA: 12.45 ACRES

3. PROPOSED PARKING 102 SPACES +/-

DR5.5 4. ZONING:

5. PROPOSED SITE LAYOUT SHOWN ON THESE PLANS IS PRELIMINARY





BALTIMORE COUNTY PUBLIC SCHOOLS VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

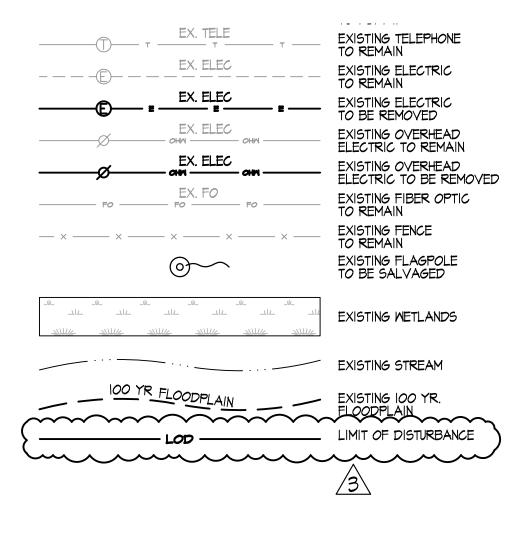
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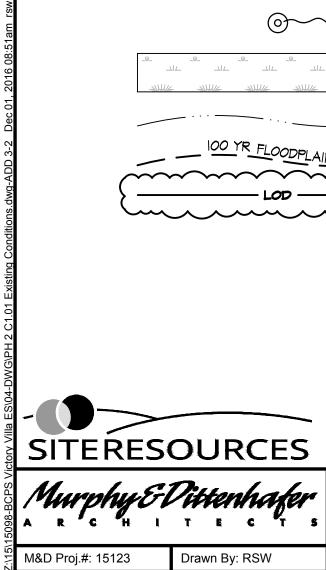
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Drawn By: RSW

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Date: 12/1/16





SUBMISSION: ADDENDUM #3

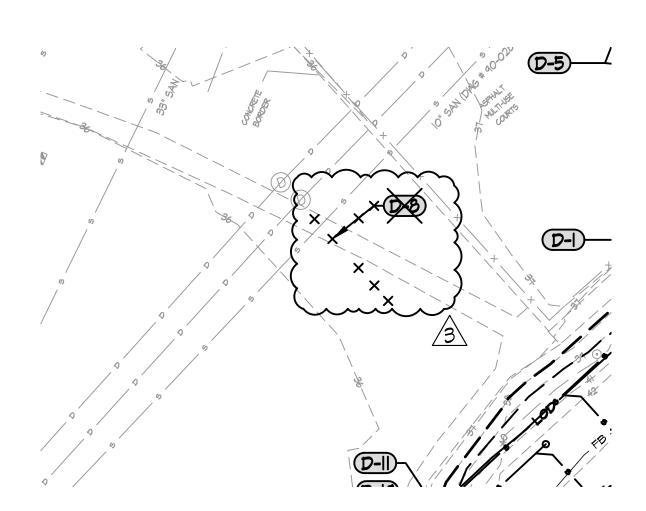
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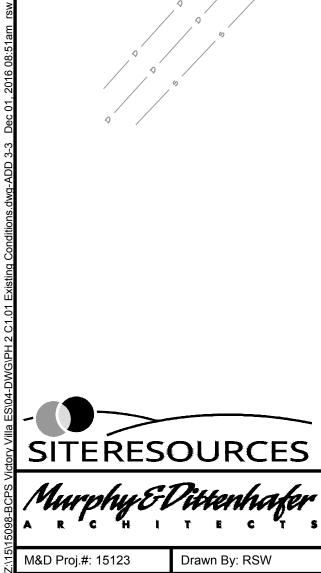
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Drawn By: RSW

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Date: 12/1/16





SUBMISSION: ADDENDUM #3

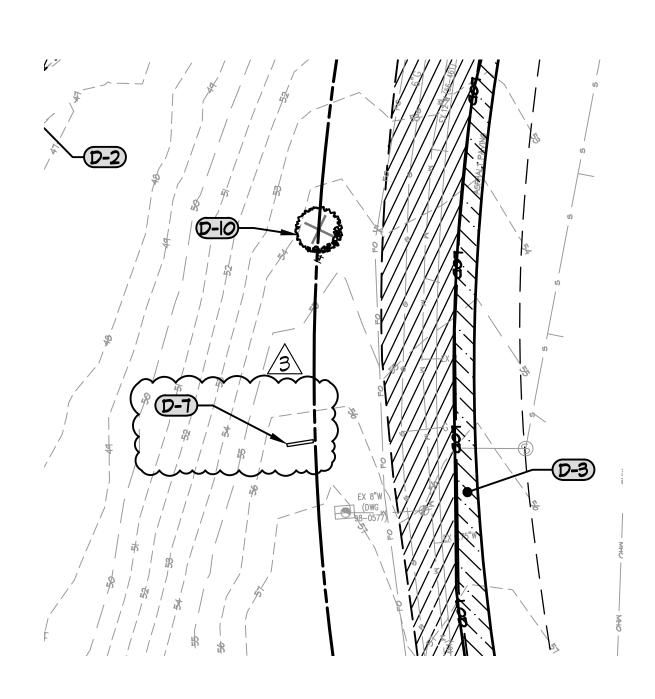
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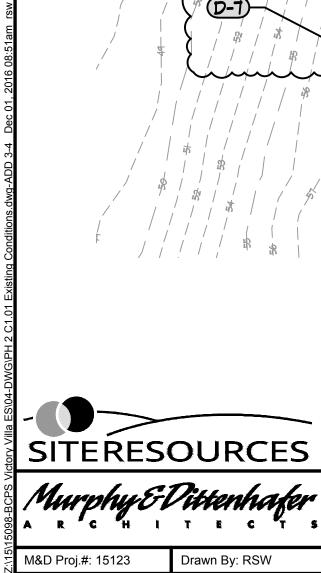
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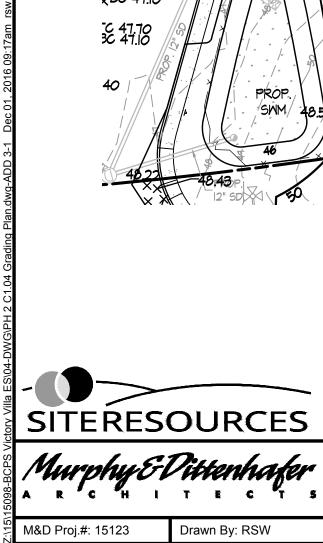
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Drawn By: RSW

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Date: 12/1/16



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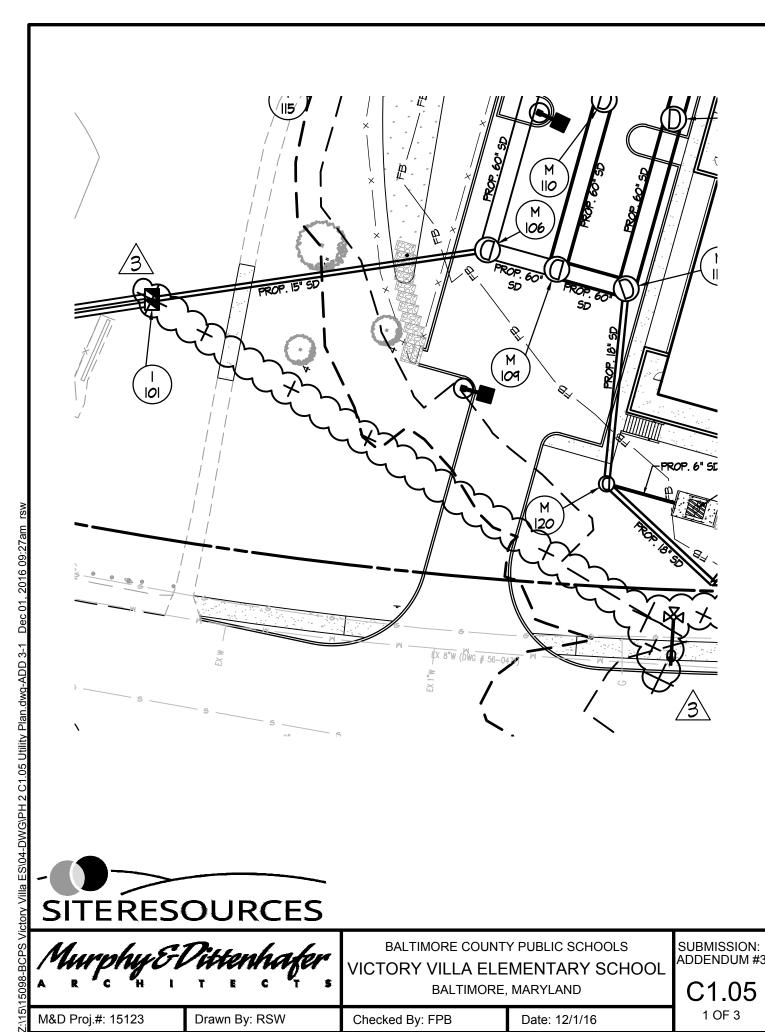
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Date: 12/1/16





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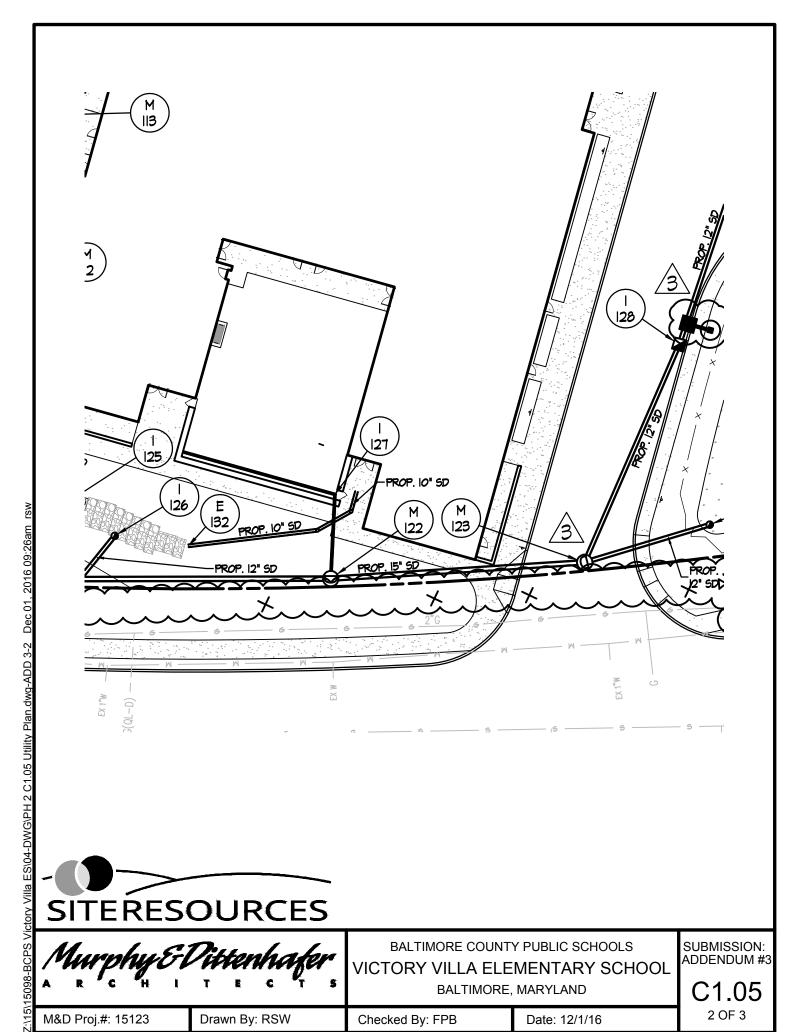
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Date: 12/1/16





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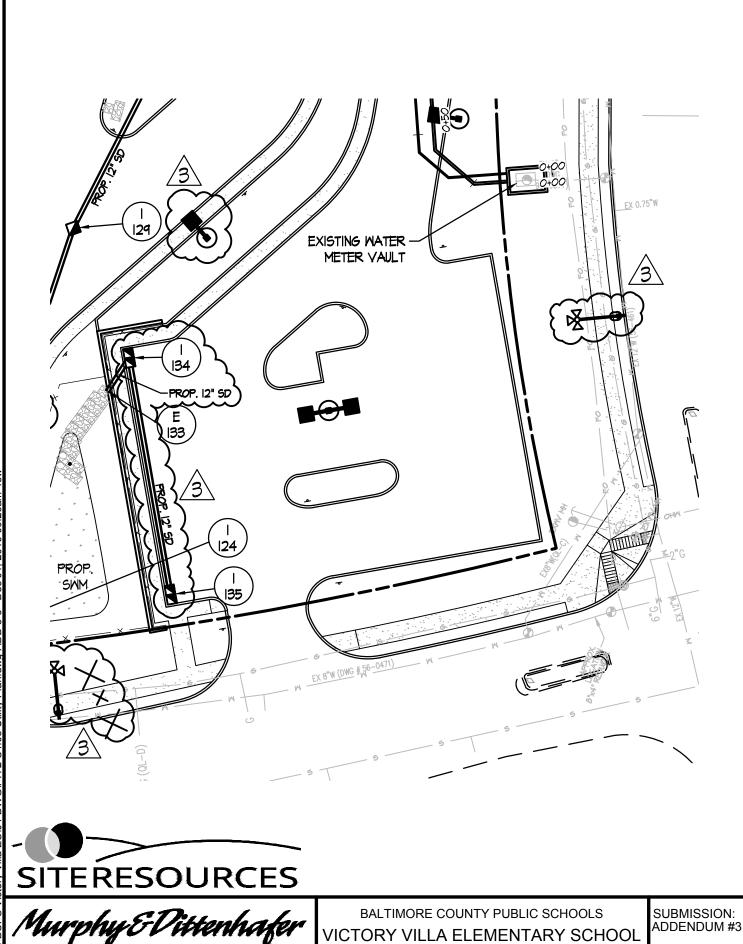
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Date: 12/1/16



Drawn By: RSW

VICTORY VILLA ELEMENTARY SCHOOL

BALTIMORE, MARYLAND

Date: 12/1/16

Checked By: FPB

C1.05

3 OF 3

2.\15\15098-BCPS Victory Villa ES\04-DWG\PH 2 C1.05 Utility Plan.dwg-ADD 3-3 Dec 01, 2016 09:26am rsw

M&D Proj.#: 15123

# ∵\Users\rsw\appdata\local\temp\AcPublish 4796\PH 2 C1.06 Signage Plan.dwg-ADD 3-1 Dec 01, 2016 09:43am rsw

### STRIPING NOTES

- (ST-1) PAINTED CROSSWALK PER MUTCD SECTION 3B.18 AND FIGURE 3B-19, a
- (ST-2) PAINTED STOP BAR PER MUTCD FIGURE 3B-19, b
- (ST-3) PAINTED DIRECTIONAL ARROW PER MUTCD FIGURE 3B-24
- **ST-4)** 3" WIDE CONTINUOUS YELLOW PAINTED LINE SET I FT. BEHIND BACK OF CURB
- (ST-5) PAINTED HANDICAPPED SYMBOL PER MUTCO FIGURE 3B-22
- STRIPING IN PUBLIC RIGHT OF WAY NOT IN CONTRACT. WORK TO E PERFORMED BY BALTIMORE COUNTY ROADS DEPARTMENT

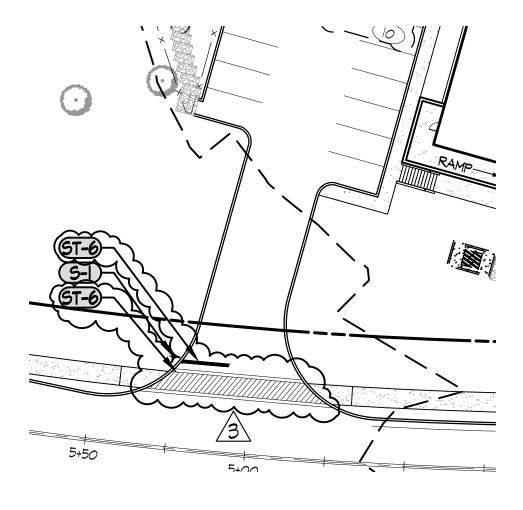


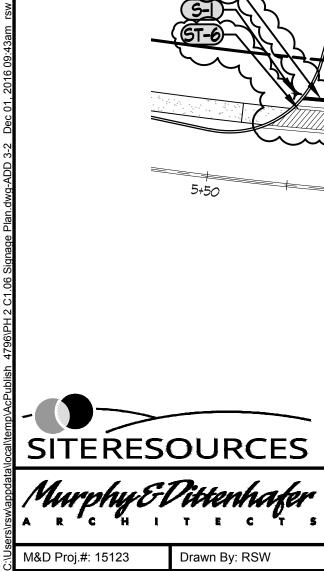
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VICTORY VILLA ELEMENTARY SCHOOL
BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

C1.06





**BALTIMORE COUNTY PUBLIC SCHOOLS** VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

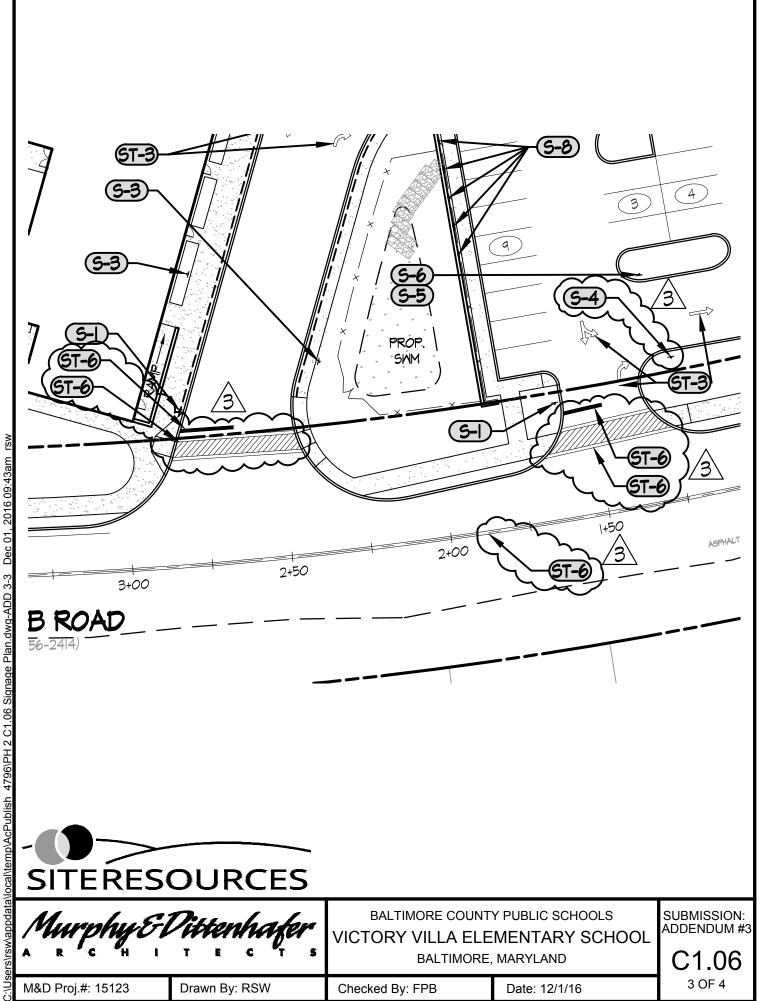
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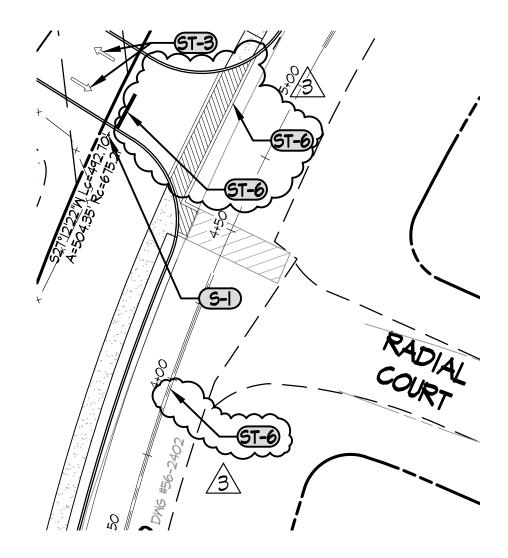
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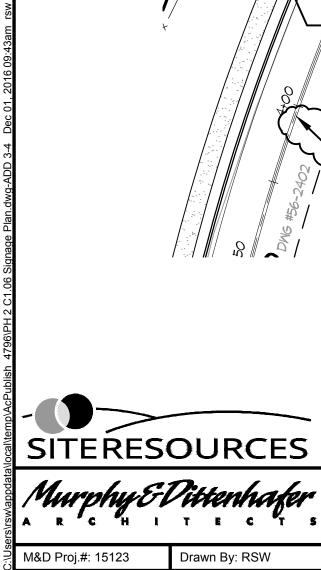
Date: 12/1/16

3 OF 4

M&D Proj.#: 15123

Drawn By: RSW





**BALTIMORE COUNTY PUBLIC SCHOOLS** VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

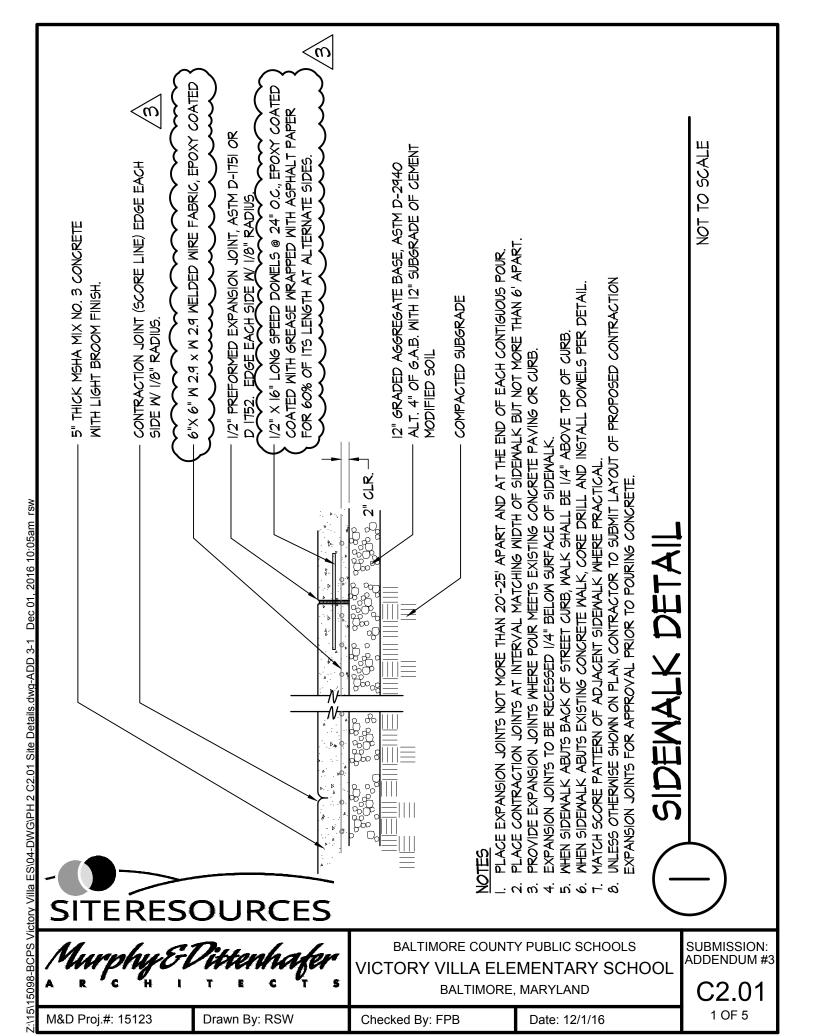
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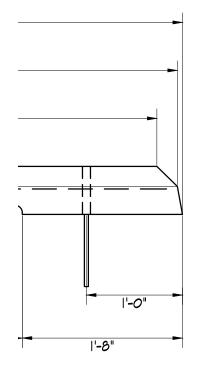
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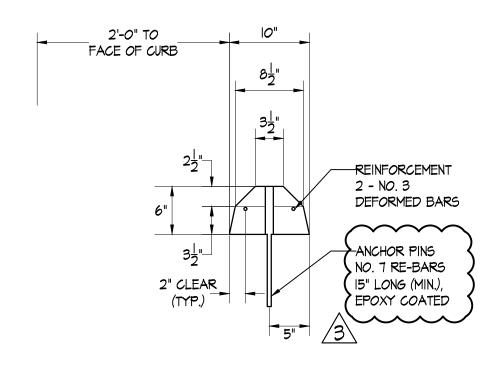
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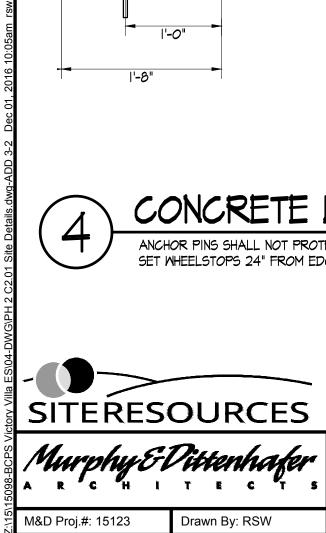
SECTION A-A (TYPICAL - TYPE I-II)



### CONCRETE WHEELSTOP DETAIL

ANCHOR PINS SHALL NOT PROTRUDE ABOVE TOP OF WHEELSTOP SET WHEELSTOPS 24" FROM EDGE OF PAVING.

NOT TO SCALE



**BALTIMORE COUNTY PUBLIC SCHOOLS** VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

C2.01

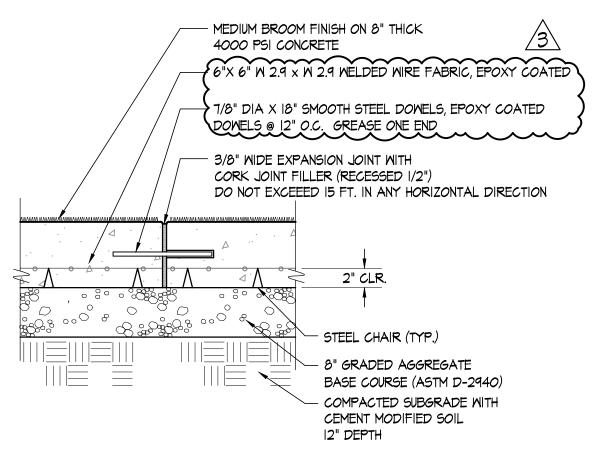
M&D Proj.#: 15123

Drawn By: RSW

Checked By: FPB

Date: 12/1/16

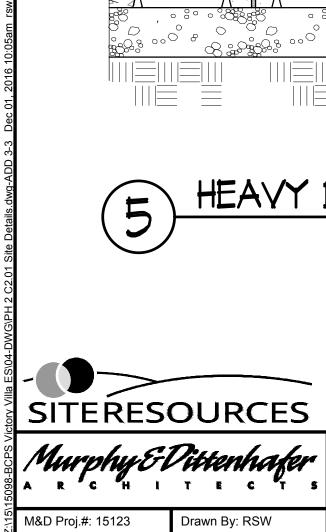
I. APPLY CURING/SEALING COMPOUND AS INDICATED IN THE SPECIFICATIONS.





HEAVY DUTY CONCRE

NOT TO SCALE



**BALTIMORE COUNTY PUBLIC SCHOOLS** VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

C2.01

M&D Proj.#: 15123

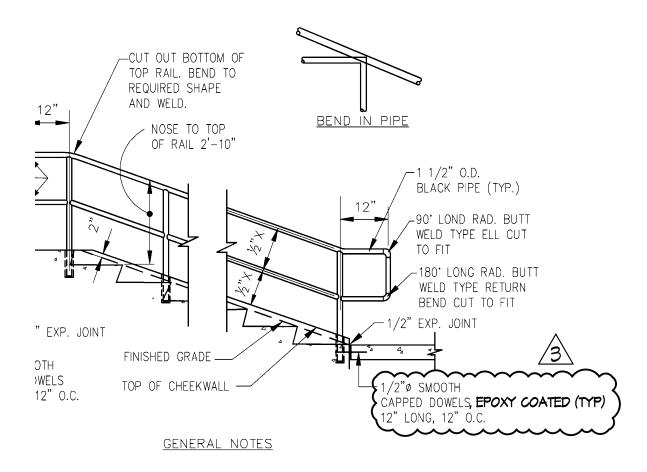
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Checked By: FPB

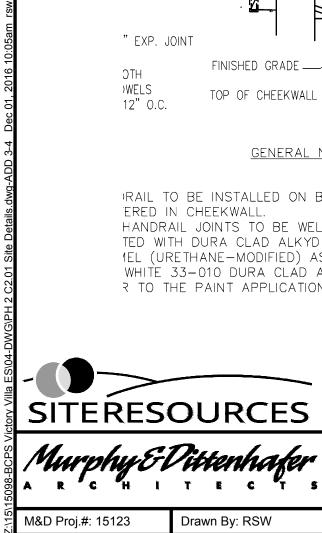
Date: 12/1/16

CRETE STEPS **DETAIL** 

NOT TO SCALE



PRAIL TO BE INSTALLED ON BOTH SIDES OF STEPS-ERED IN CHEEKWALL. HANDRAIL JOINTS TO BE WELDED, GROUND SMOOTH AND TED WITH DURA CLAD ALKYD "MORNING FOG" (#9456) 1EL (URETHANE-MODIFIED) AS MANUFACTURED BY DURON PAINTS. WHITE 33-010 DURA CLAD ALKYD WHITE METAL PRIMER R TO THE PAINT APPLICATION.



**BALTIMORE COUNTY PUBLIC SCHOOLS** VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

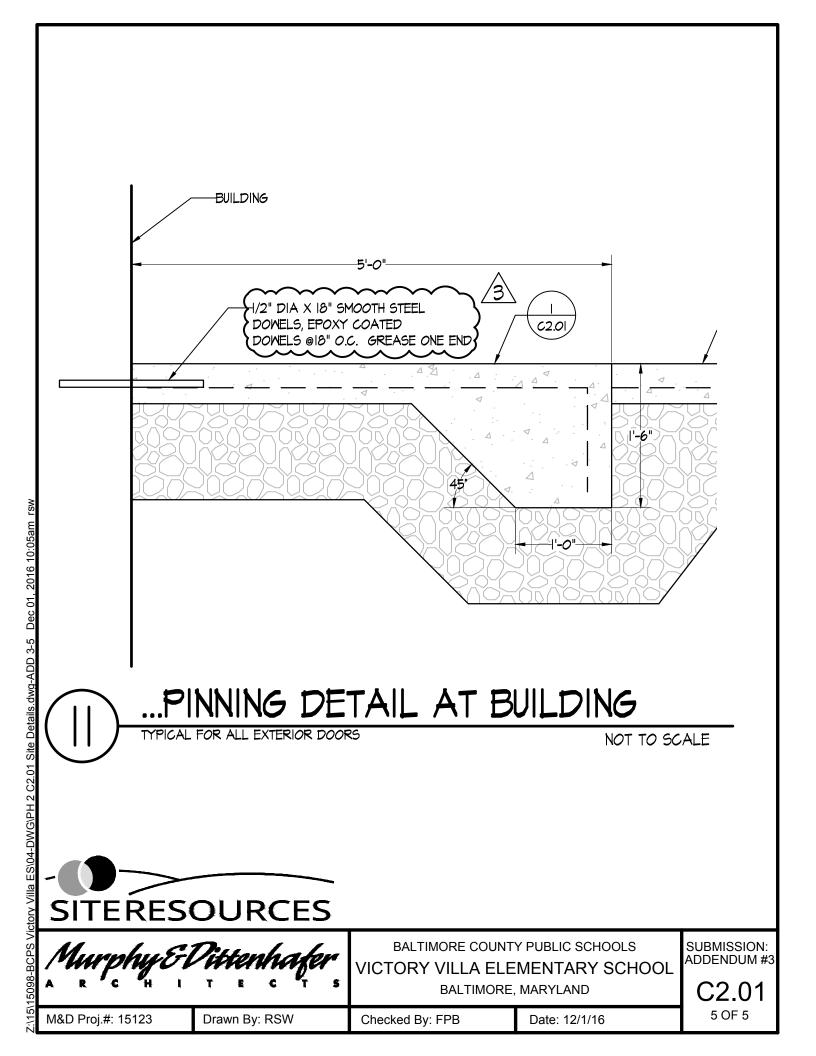
C2.01

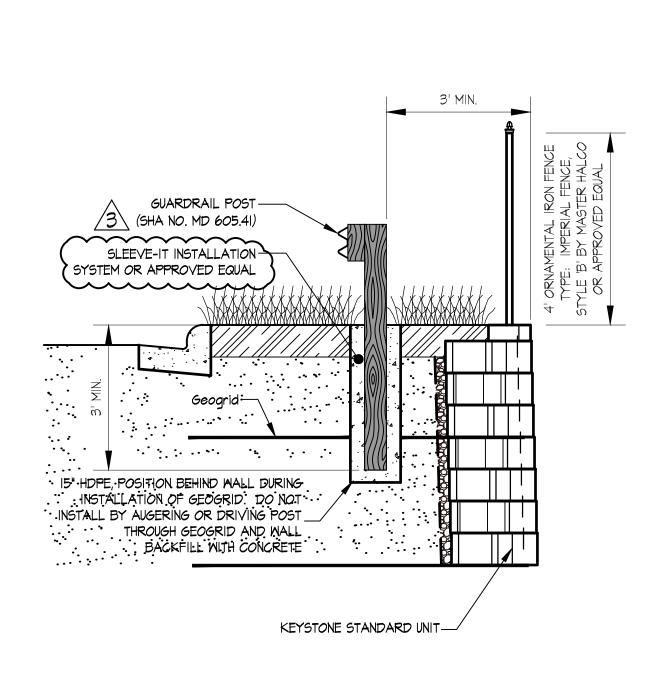
M&D Proj.#: 15123

Drawn By: RSW

Checked By: FPB

Date: 12/1/16







NOT TO SCALE



Murphy & Dittenhafer

BALTIMORE COUNTY PUBLIC SCHOOLS
VICTORY VILLA ELEMENTARY SCHOOL
BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

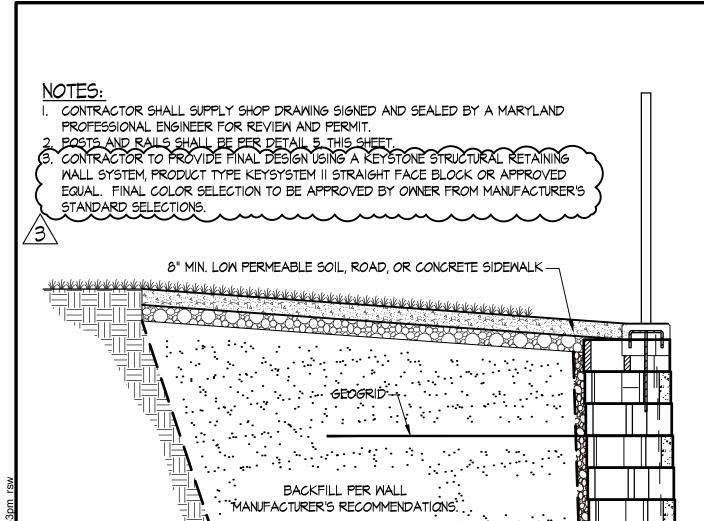
C2.02

M&D Proj.#: 15123 Drawn By: RSW Checked By: FPB

Date: 12/1/16

1 OF 3

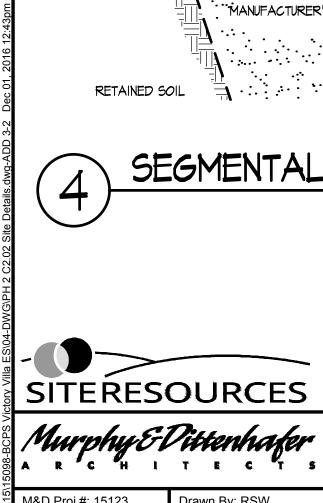
2./15/15098-BCPS Victory Villa ES/04-DWG\PH 2 C2.02 Site Details.dwg-ADD 3-1 Dec 01, 2016 12:42pm rsw





### SEGMENTAL BLOCK RETAINING WA!

NOT TO SCALE



RETAINED SOIL

**BALTIMORE COUNTY PUBLIC SCHOOLS** VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

C2.02

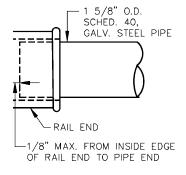
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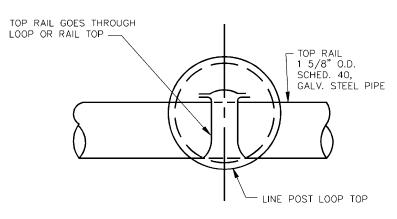
Drawn By: RSW

Checked By: FPB

Date: 12/1/16

'16" Ø GALVANIZED STEEL CARRIAGE BOLTS





ATTACHEMENT OF TOP RAIL TO LINE POST

TO GATE, PULL POSTS

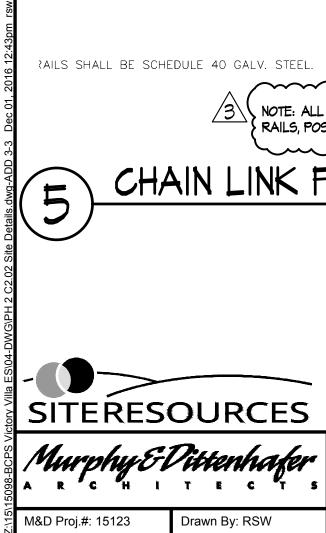
2 REV. FENCE DETAILS
1 REV. POST TOP DET 1/11 3/87 BOARD OF EDUCATION REV. POST TOP DET DESCRIPTION DATE **BALTIMORE COUNTY** REVISIONS DEPARTMENT OF ENGINEERING AND CONSTRUCTION

RAILS SHALL BE SCHEDULE 40 GALV. STEEL.

NOTE: ALL FENCE FABRIC SHALL HAVE A BLACK VINYL COATING. ALL FENCE RAILS, POSTS AND HARDWARE SHALL HAVE A BLACK POWDER COAT FINISH.



### CHAIN LINK FENCE DETAILS



**BALTIMORE COUNTY PUBLIC SCHOOLS** VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

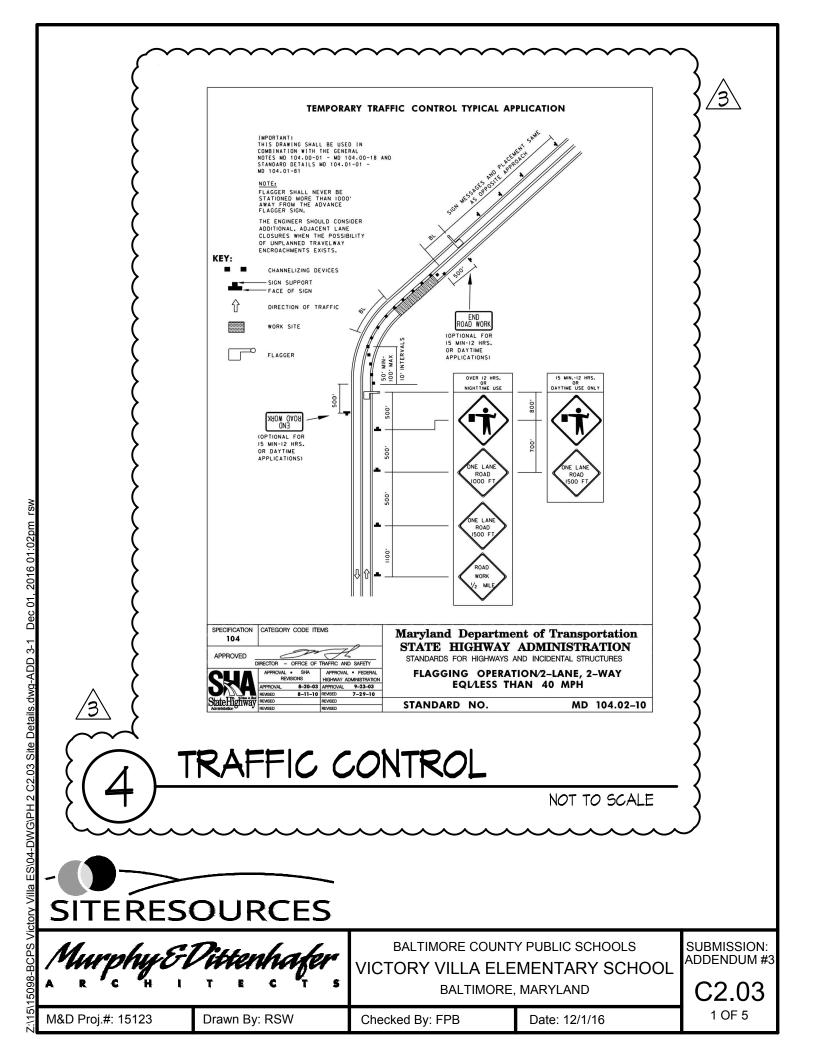
STAND!

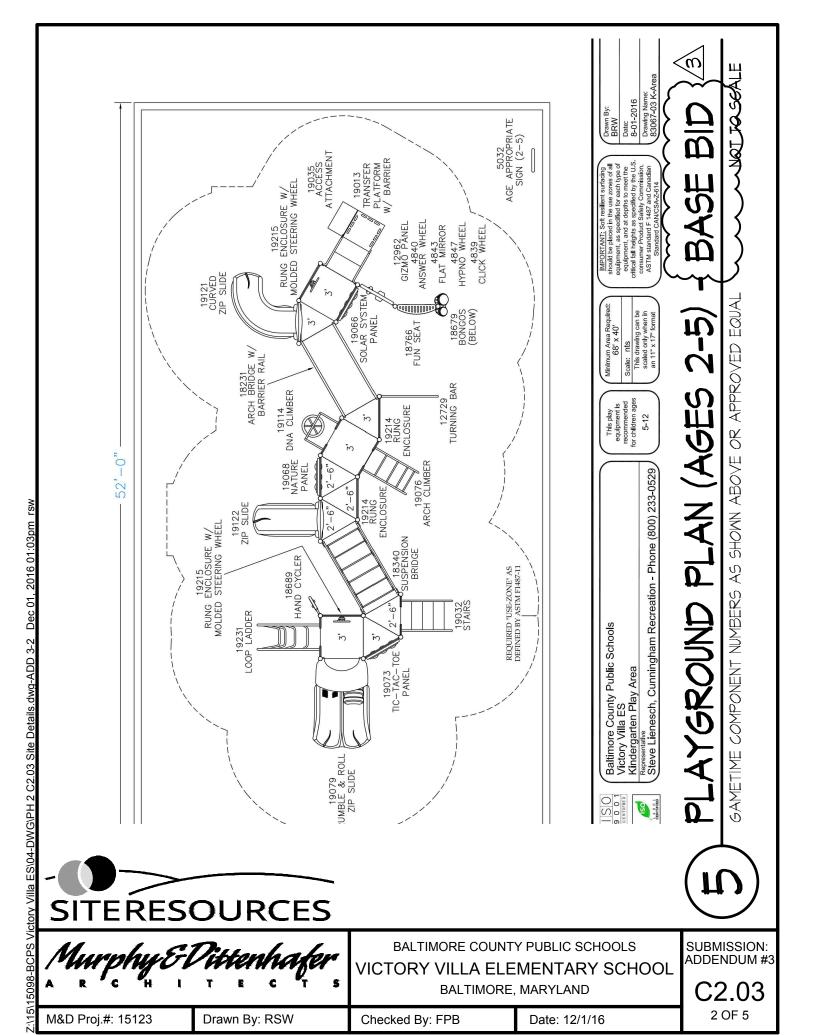
C2.02

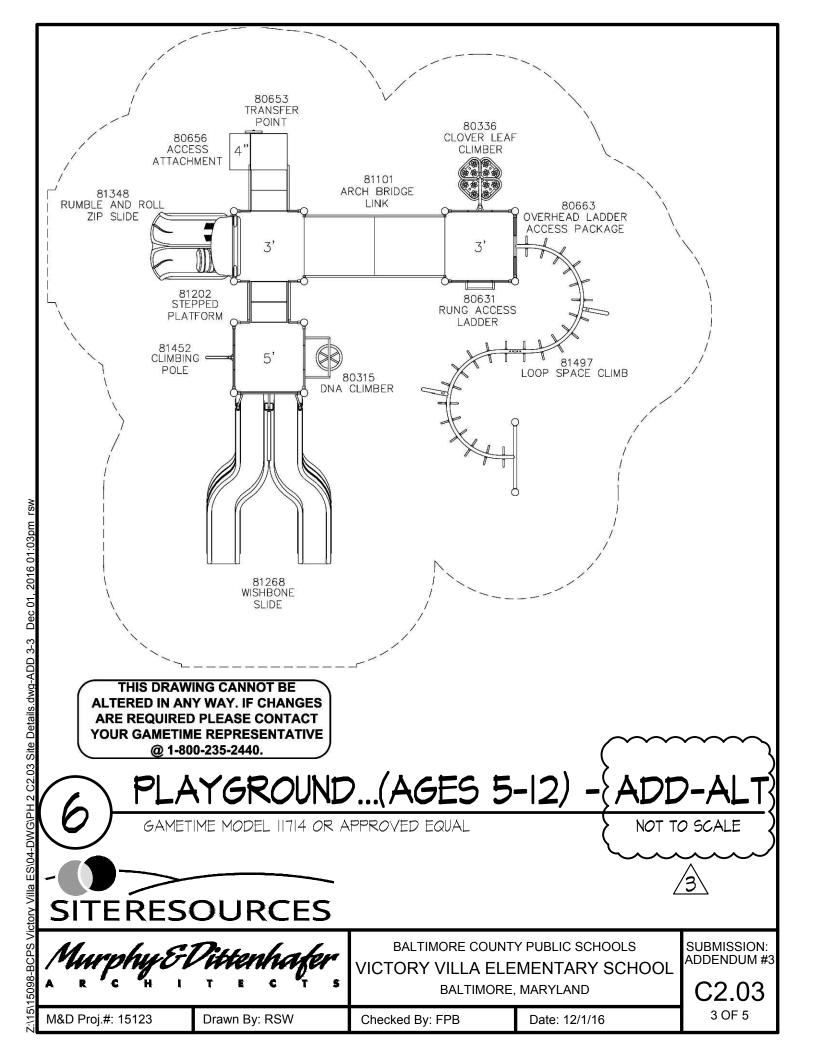
M&D Proj.#: 15123 Drawn By: RSW

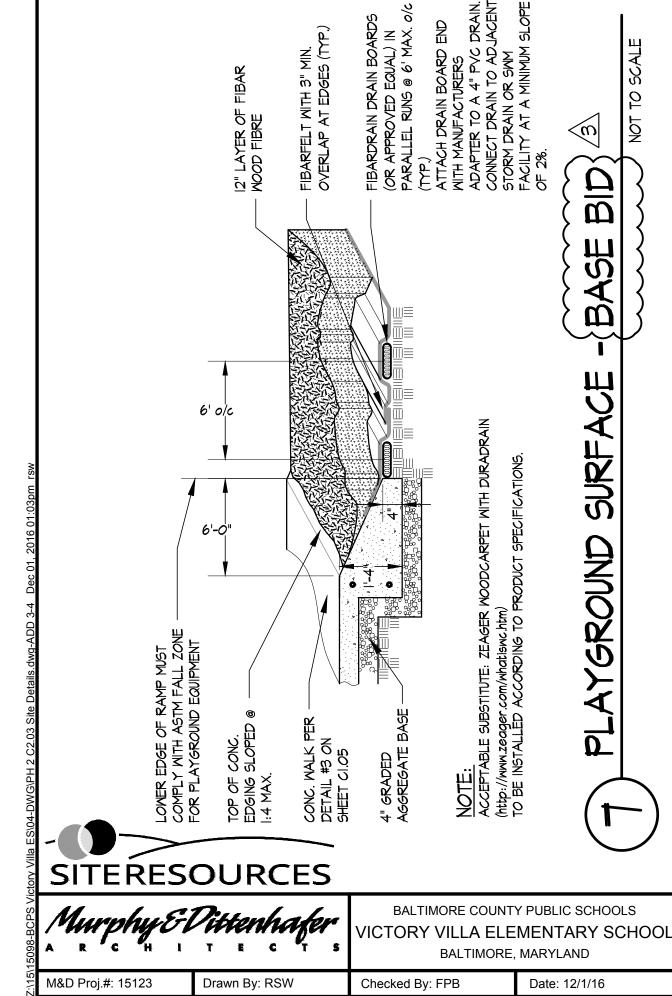
Checked By: FPB

Date: 12/1/16









PLAYGROUND SURFACE

NOT TO SCALE

SUBMISSION: ADDENDUM #3

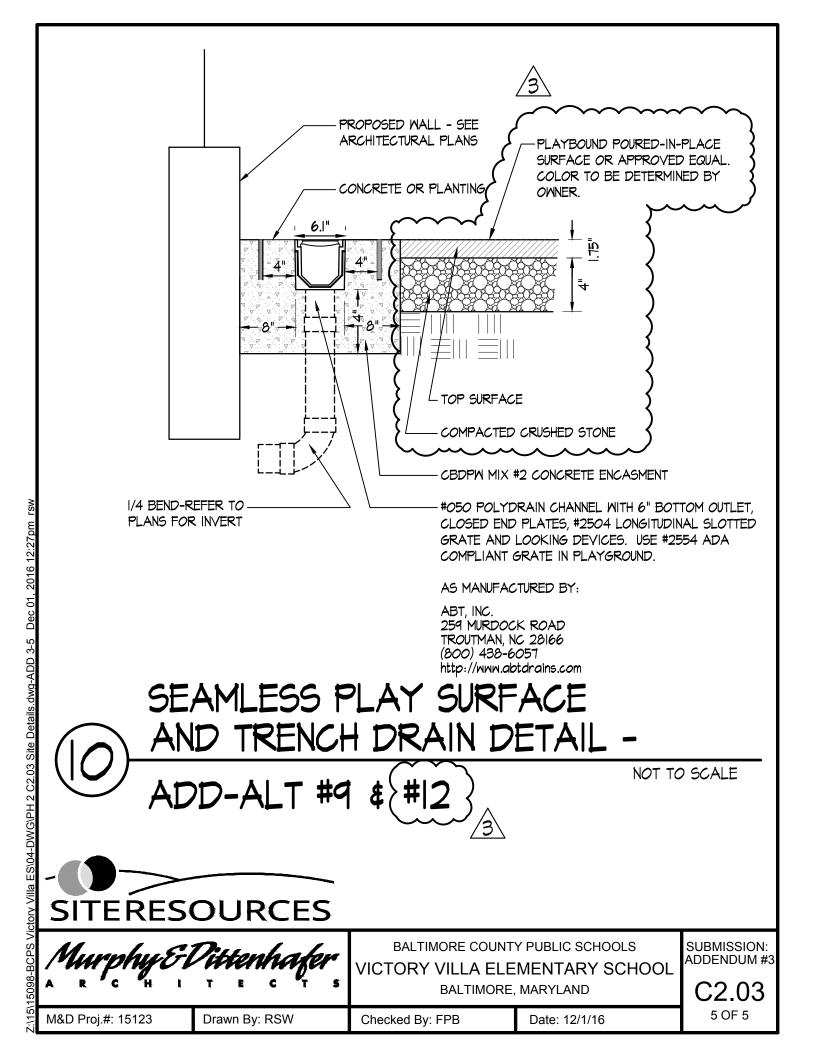
C2.03

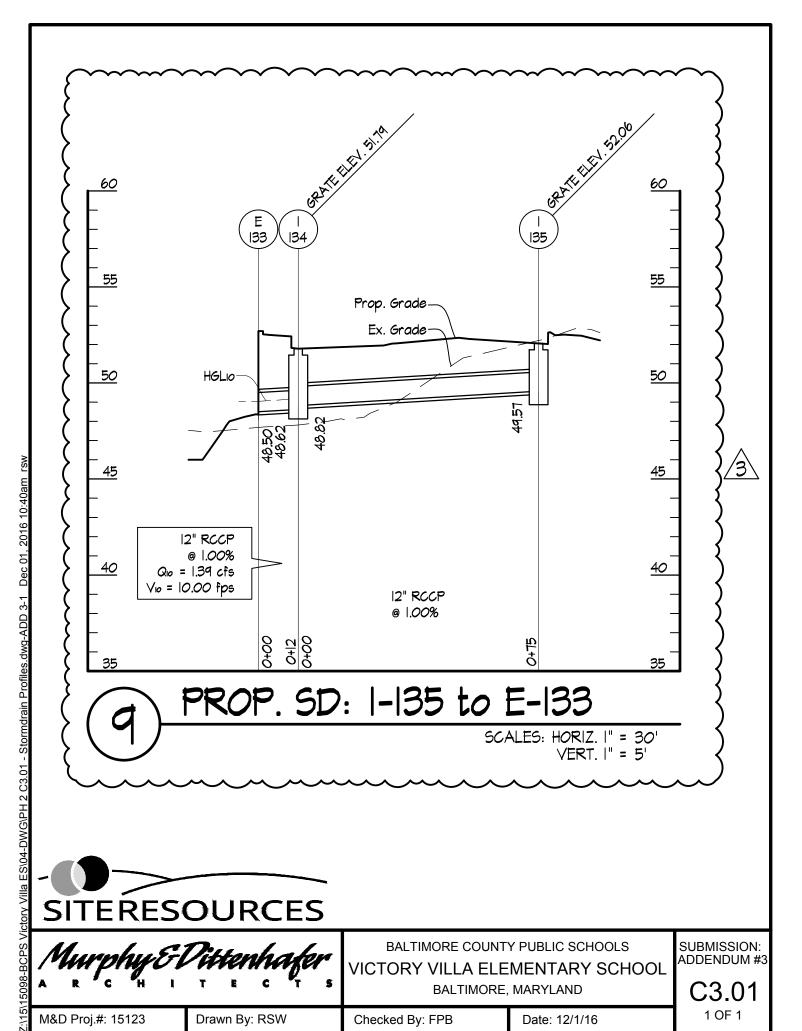
M&D Proj.#: 15123

Drawn By: RSW

Checked By: FPB

Date: 12/1/16







Murphy&Dittenhafer

**BALTIMORE COUNTY PUBLIC SCHOOLS** VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

C3.01

M&D Proj.#: 15123

Drawn By: RSW

Checked By: FPB

Date: 12/1/16

	BAL1. CO. D-3.01	46.23	15" HDME (E) 38.90
M-123	PRECAST TYPE A MANHOLE BALT. CO. D-3.01	RIM 47.61	12" HDPE (E) 41.76 12" HDPE (NE) 39.94
l-l24	24" NYLOPLAST DRAIN BASIN W/ DOME GRATE	GRATE 47.00	4" PVC (NE) 42.83
l-l25	FILTERA UNIT FT0713	SLAB 45.08	
I-I26	24" NYLOPLAST DRAIN BASIN W/ DOME GRATE	GRATE 45.00	
1-127	ABT 6" POLYDRAIN	GRATE 47.70	
1-128	TYPE S INLET SINGLE GRATE BALTIMORE CO. D-2.16A	GRATE 46.44	12" HDPE (NE) 40.78
1-129	TYPE S INLET SINGLE GRATE BALTIMORE CO. D-2.16A	GRATE 46.80	12" HDPE (NE) 41.56
1-130	24" NYLOPLAST DRAIN BASIN W DOME GRATE 3	<i>G</i> RATE 45.50	



Murphy & Dittenhafer

BALTIMORE COUNTY PUBLIC SCHOOLS
VICTORY VILLA ELEMENTARY SCHOOL
BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

C3.02

M&D Proj.#: 15123

Z./15/15098-BCPS Victory Villa ES/04-DWG\PH 2 C3.02 - Stormdrain Profiles.dwg-ADD 3-1 Dec 01, 2016 10:44am rsw

Drawn By: RSW

Checked By: FPB

Date: 12/1/16

- Seed Mixture No. 1 relatively flat areas (grade less than 4:1) subject to normal conditions and regular mowing (Application rate = 234 lbs PLS/acre);
- b. Seed Mixture No. 2 sloped areas (grade greater than 4:1) not subject to regular mowing (Application rate = 115 lbs PLS/acre); and
- c. Seed Mixture No. 3 wetlands and their associated buffer zones (Application rate = 131 lbs PLS/acre).

Seed Mixture No. 1: Relatively flat areas regularly mowed and exposed to normal conditions (Application rate = 234 lbs PLS/acre)

	* *		Application	
	Seed		(lbs of PLS/ac	16)
	85% Certified Turf-Type Tall Fescue		192	
	10% Certified Kentucky Bluegrass	29	28	
	5% Perennial Ryegrass	V 8	 14	
ž.			300	
	Supplemental Seed		10	

USE OF K-31 TALL FESCUE WILL NOT BE ALLOWED ON THIS PROJECT IN ORDER TO MEET MARYLAND DEPARTMENT OF THE ENVIRONMENT AND UNITED STATES ARMY CORPS OF ENGINEERS GENERAL PERMIT REQUIREMENTS.



25



BALTIMORE COUNTY PUBLIC SCHOOLS VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

ESC2.01

M&D Proj.#: 15123

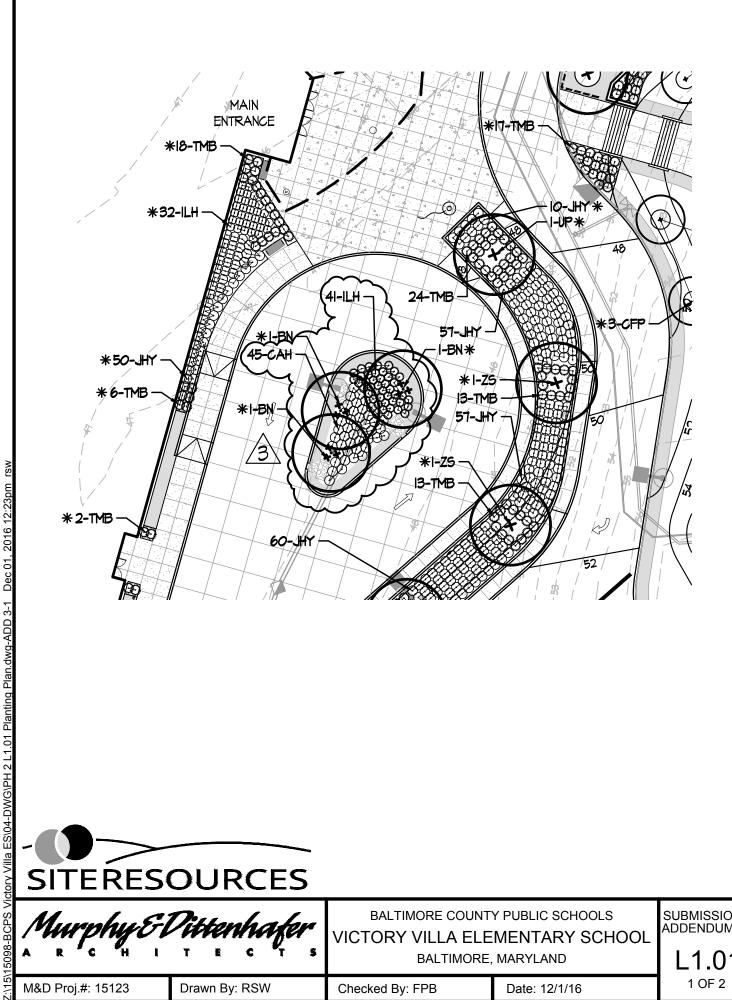
(15/15098-BCPS Victory Villa ES(04-DWG\PH 2 ESC 2.01-Sediment Control Notes.dwg-ADD 3-1 Dec 01, 2016 11:20am rsw

Drawn By: RSW

Annual Ryegrass

Checked By: FPB

Date: 12/1/16





Murphy&Dittenhafer

BALTIMORE COUNTY PUBLIC SCHOOLS VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3 L1.01

1 OF 2

M&D Proj.#: 15123

Drawn By: RSW

Checked By: FPB



**BALTIMORE COUNTY PUBLIC SCHOOLS** VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

L1.01

M&D Proj.#: 15123

Z:\15\15098-BCPS Victory Villa ES\04-DWG\PH 2 L1.01 Planting Plan.dwg-ADD 3-2 Dec 01, 2016 12:23pm rsw

Drawn By: RSW

Checked By: FPB

Date: 12/1/16

### PLANT SCHEDULE

QTY. KEY

**BOTANICAL NAME** 

### MAJOR DECIDUOUS TREES

17	AF	ACER X FREEMANII 'JEFFERSRED'
13	BN	BETULA NIGRA 'DURA HEAT'
18	PA	PLATANUS X ACERIFOLIA 'BLOODGOOD'
6	TD	TAXODIUM DISTICHUM
8	UP	ULMUS PARVIFOLIA 'BOSQUE' ('UPMTF')
16	ZS	ZELKOVA SERRATA 'GREEN VASE'

### MAJOR EVERGREEN TREES

TG THUJA 'GREEN GIANT'

### MINOR DECIDUOUS TREES

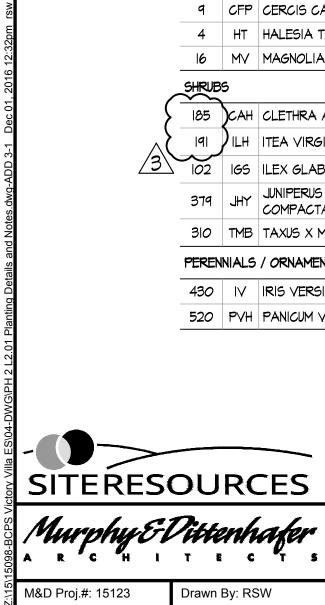
9	CFP	CERCIS CANADENSIS 'FOREST PANSY'
4	HT	HALESIA TETRAPTERA
16	MV	MAGNOLIA VIRGINIANA

### SHRUBS



### PERENNIALS / ORNAMENTAL GRASSES

430	IV	IRIS VERSICOLOR
520	PVH	PANICUM VIRGATUM 'HEAVY METAL'



**BALTIMORE COUNTY PUBLIC SCHOOLS** VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

L2.01

Drawn By: RSW

Checked By: FPB

Date: 12/1/16

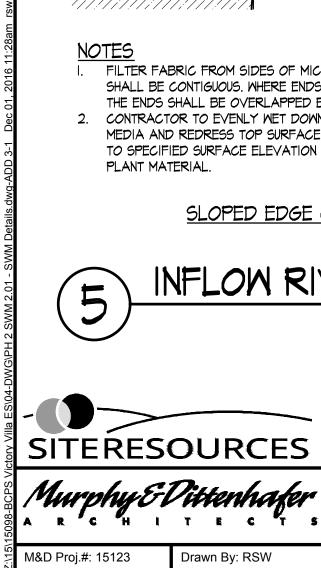
### NOTES

- FILTER FABRIC FROM SIDES OF MICRO-BIORETENTION THROUGH STONE SHALL BE CONTIGUOUS. WHERE ENDS OF THE FABRIC COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
- CONTRACTOR TO EVENLY MET DOWN FACILITY TO SETTLE PLANTING MEDIA AND REDRESS TOP SURFACE WITH ADDITIONAL PLANTING MEDIA TO SPECIFIED SURFACE ELEVATION PRIOR TO INSTALLING MULCH AND PLANT MATERIAL.

SLOPED EDGE OF FACILITY



### INFLOW RIVER ROCK DETAIL



**BALTIMORE COUNTY PUBLIC SCHOOLS** VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

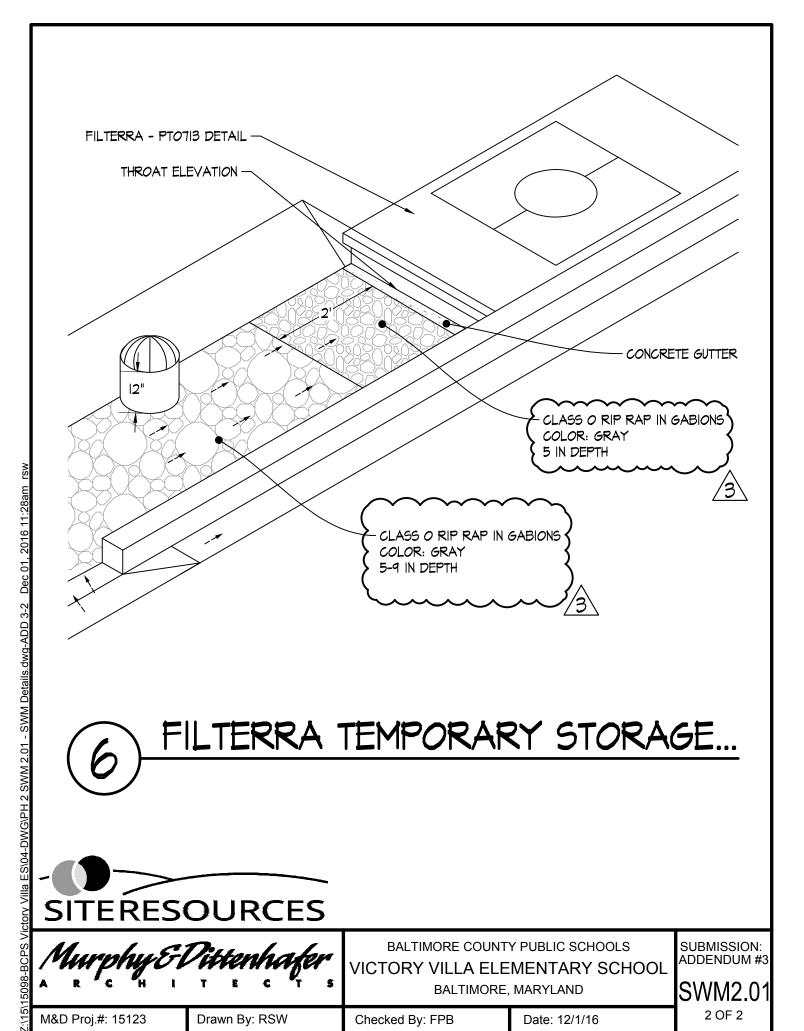
SWM2.01

M&D Proj.#: 15123

Drawn By: RSW

Checked By: FPB

Date: 12/1/16



### FILTERRA TEMPORARY STORAGE...



**BALTIMORE COUNTY PUBLIC SCHOOLS** VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

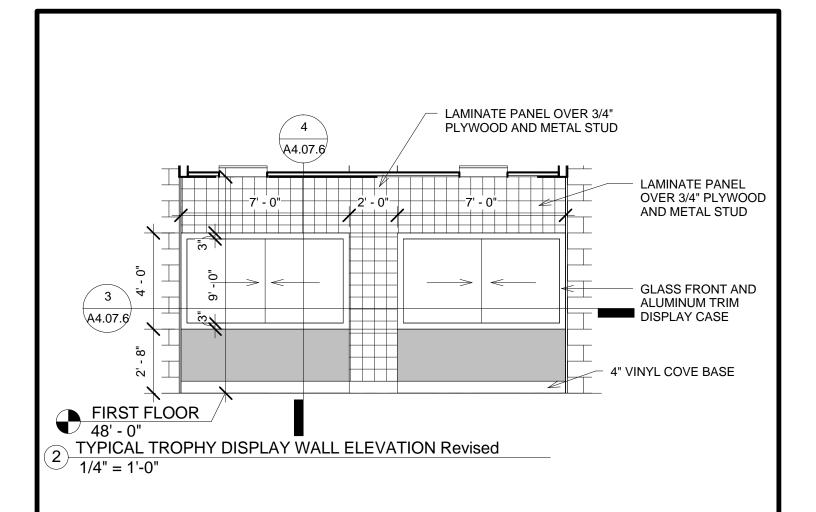
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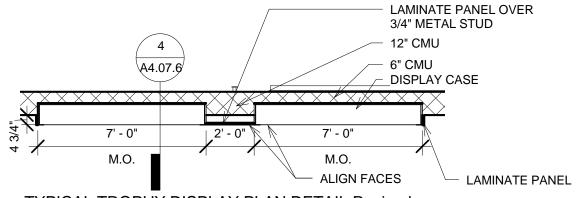
M&D Proj.#: 15123

Drawn By: RSW

Checked By: FPB

Date: 12/1/16





1) TYPICAL TROPHY DISPLAY PLAN DETAIL Revised 1/4" = 1'-0"

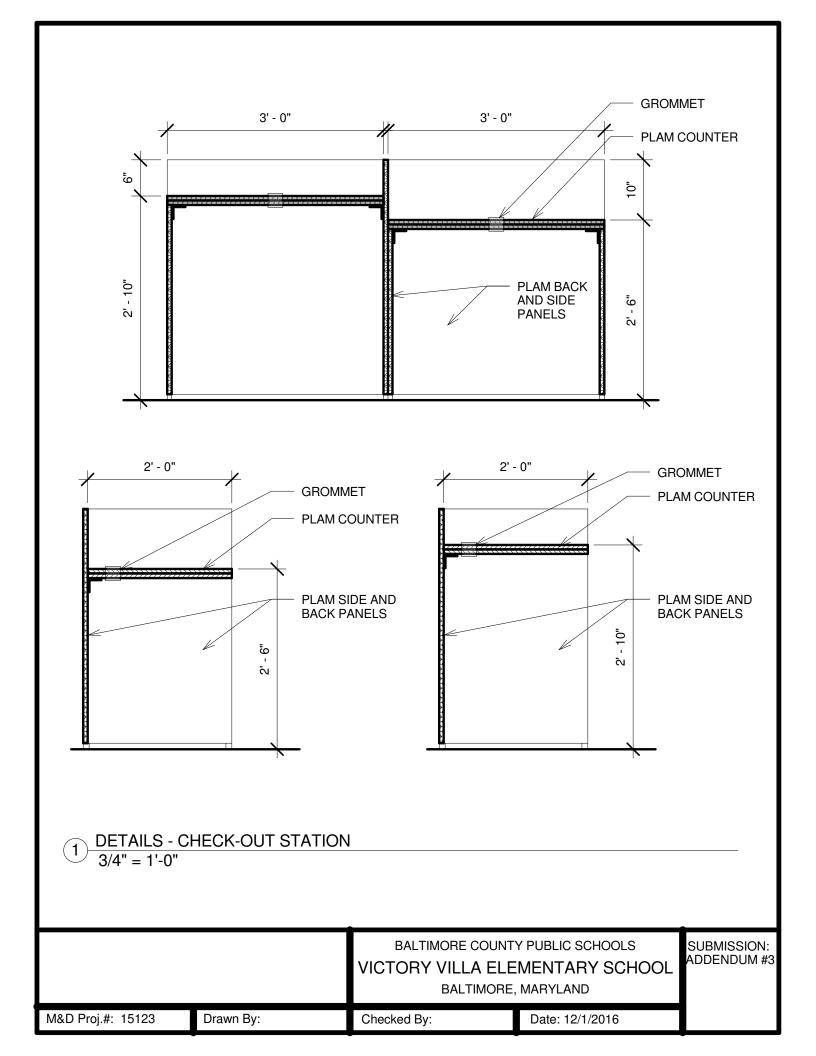
BALTIMORE COUNTY PUBLIC SCHOOLS
VICTORY VILLA ELEMENTARY SCHOOL
BALTIMORE, MARYLAND

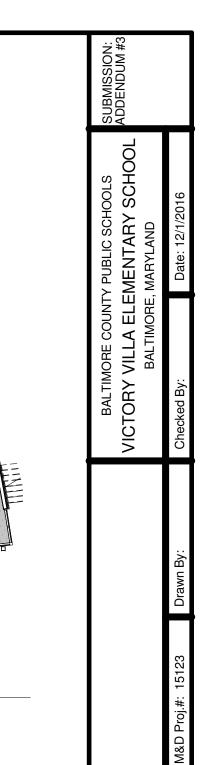
SUBMISSION: ADDENDUM #3

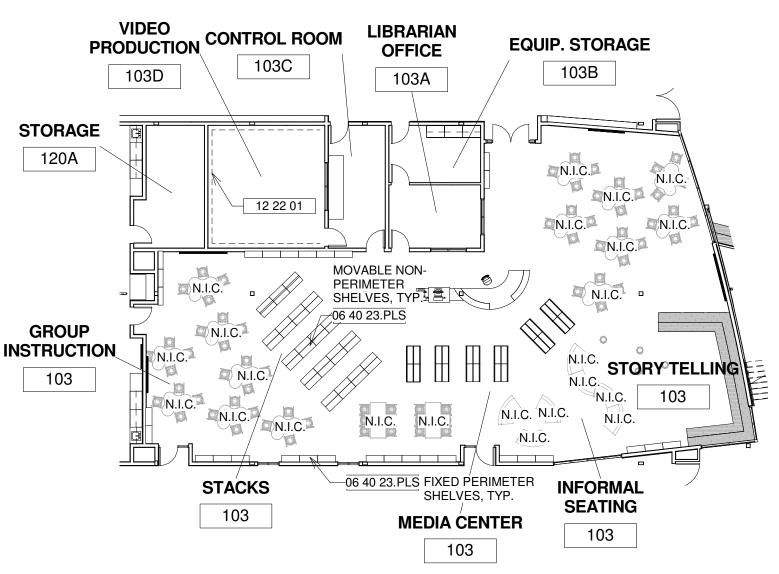
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Checked By:

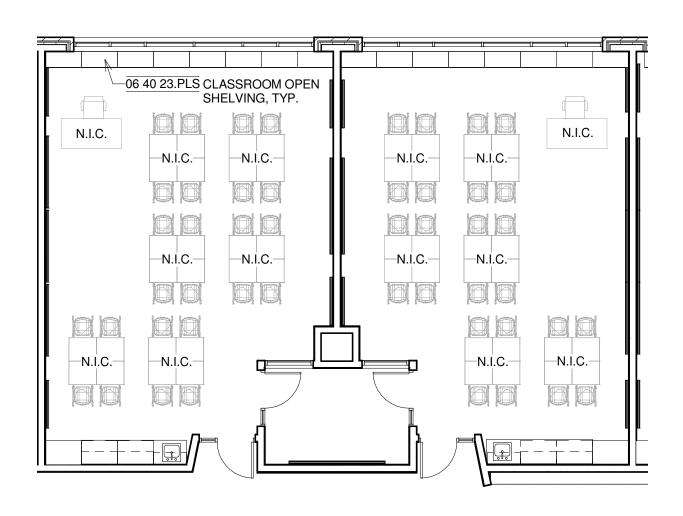






1 MEDIA CENTER FLOOR PLAN

1/16" = 1'-0"



1 TYPICAL CLASSROOM LAYOUT 1/8" = 1'-0"

BALTIMORE COUNTY PUBLIC SCHOOLS

VICTORY VILLA ELEMENTARY SCHOOL

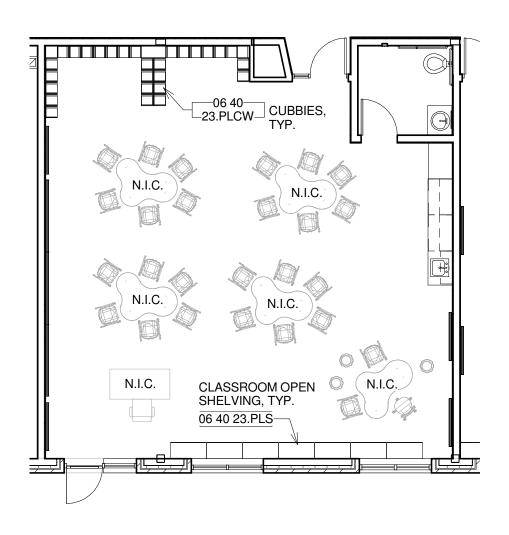
BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

M&D Proj.#: 15123

Drawn By:

Checked By:



1 TYPICAL KINDERGARTEN CLASSROOM LAYOUT 1/8" = 1'-0"

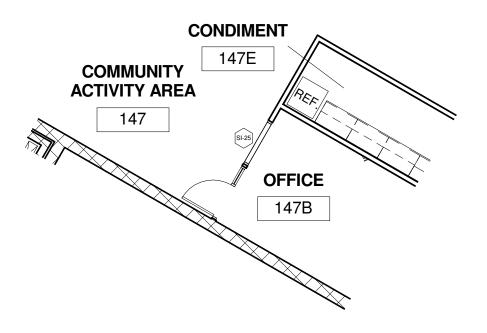
BALTIMORE COUNTY PUBLIC SCHOOLS
VICTORY VILLA ELEMENTARY SCHOOL
BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

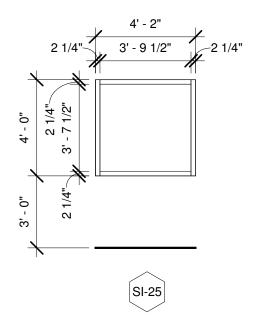
M&D Proj.#: 15123

Drawn By:

Checked By:



1) INTERIOR STOREFRONT TYPE 25 PLAN 1/8" = 1'-0"



2 INTERIOR STOREFRONT TYPE 25 1/4" = 1'-0"

BALTIMORE COUNTY PUBLIC SCHOOLS
VICTORY VILLA ELEMENTARY SCHOOL
BALTIMORE, MARYLAND

SUBMISSION: ADDENDUM #3

M&D Proj.#: 15123 D

Drawn By:

Checked By:

		KEYNOTE LEGEND		
Key Value		Keynote Text		
06 40 23.PLCT 06 40 23.PLCW 09 51 13.A1	PLASTIC LAMINATE COUNTERTOP PLASTIC LAMINATE CASEWORK 24" x 48" ACOUSTICAL PANEL CEILI	NGS		
09 65 20	VINYL COVE BASE	1140		
10 10 00.4	4' PORCELAIN STEEL MARKER BOA	ARD		
10 10 00.6	6' PORCELAIN STEEL MARKER BOA			
10 22 26	OPERABLE PARTITION			
11 54 00	SMARTBOARD - NIC			
22 00 01	PLUMBING EQUIPMENT - SEE PLUM	AB DRWGS		
1 KEYNO	TE LEGEND - SHEET 4.02.2			
		VICTORY VILLA ELE	Y PUBLIC SCHOOLS EMENTARY SCHOOL , MARYLAND	SUBMISSION: ADDENDUM #3
M&D Proj.#: 15	123 Drawn By:		Date: 12/1/2016	
IVIαD ΓΙΟJ.#. 15	Diawii by.	Checked By:	Date. 12/1/2010	

### BALTIMORE

6901 CHARLES STREET, BLDG "E" TOWSON, MARYLAND 21204

## COUNTY PUBLIC

OFFICE OF PURCHASING

**SCHOOLS** 

ORCHASING

TELEPHONE: (443) 809-4334 FAX: (410) 887-7831

PRE-BID MEETING SIGN-IN SHEET November 16, 2016 – 3:00 PM Office of Physical Facilities – Pulaski Park

Solicitation Number: ARA-209-17 Replacement of Victory Villa Elementary School

245-0281
410-583-0425
410-583-0425
Fax Number

### BALTIMORE

6901 CHARLES STREET, BLDG "E" TOWSON, MARYLAND 21204

## COUNTY PUBLIC

OFFICE OF PURCHASING

**SCHOOLS** 

TELEPHONE: (443) 809-4334 FAX: (410) 887-7831

PRE-BID MEETING SIGN-IN SHEET

November 16, 2016 – 3:00 PM Office of Physical Facilities – Pulaski Park

Solicitation Number: ARA-209-17 Replacement of Victory Villa Elementary School

Representative's Name	Company Name	Phone Number	Fax Number	E-Mail Address
Riley Johnson	Pushin Constiction	571-271-3143		I floor@dustinconstruction, com
Julianna. Ferrara.	Huntingto & HOPKINS.	0097 - 999-01h		Julianea Perrara @ Brawner Bullouis, Corn
Matt Bonzella	Tockmen-Borbec Construction Captre.	301-390-1700	301-390-1705	estimating@tockman.com
Conner Collison	DBI	410-781-8200		gunner, will son to durce brothers com
FRITZ BEHLIN	SRI	410-683-3388		F BEHLOW OSITE PERGUACES IN. COM
KEVIN MERLINAS	CEI	410-795-7423		CETENDINEED ON COLUMNICAL COLUMNICA COLUMNICAL COLUMNICAL COLUMNICAL COLUMNICAL COLUMNICAL COLUMNIC
PETER SCHWARS	B N+D	410 625 4823		pjse murphditanchicon
Tour Brotay	PtC	410 235-940		Tompbe Potts call Ahar con
Anita Randall, Purchasing Agent	Baltimore County Public Schools	443-809-4334	410-887-7831	arandall@bcps.org

### BALTIMORE

6901 CHARLES STREET, BLDG "E" TOWSON, MARYLAND 21204

## COUNTY

OFFICE OF PURCHASING

**SCHOOLS** 

TELEPHONE: (443) 809-4334 FAX: (410) 887-7831

PRE-BID MEETING SIGN-IN SHEET
November 16, 2016 – 3:00 PM Office of Physical Facilities – Pulaski Park

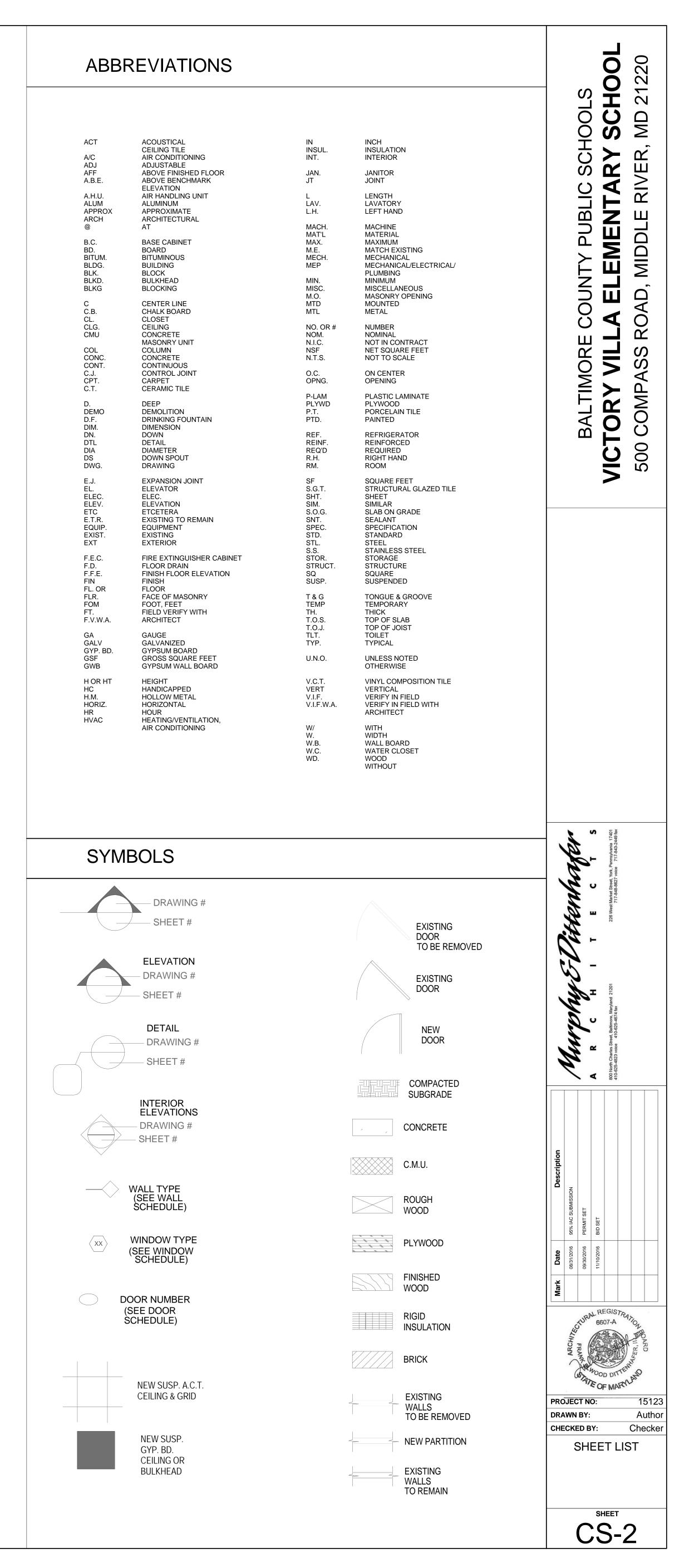
Solicitation Number: ARA-209-17 Replacement of Victory Villa Elementary School

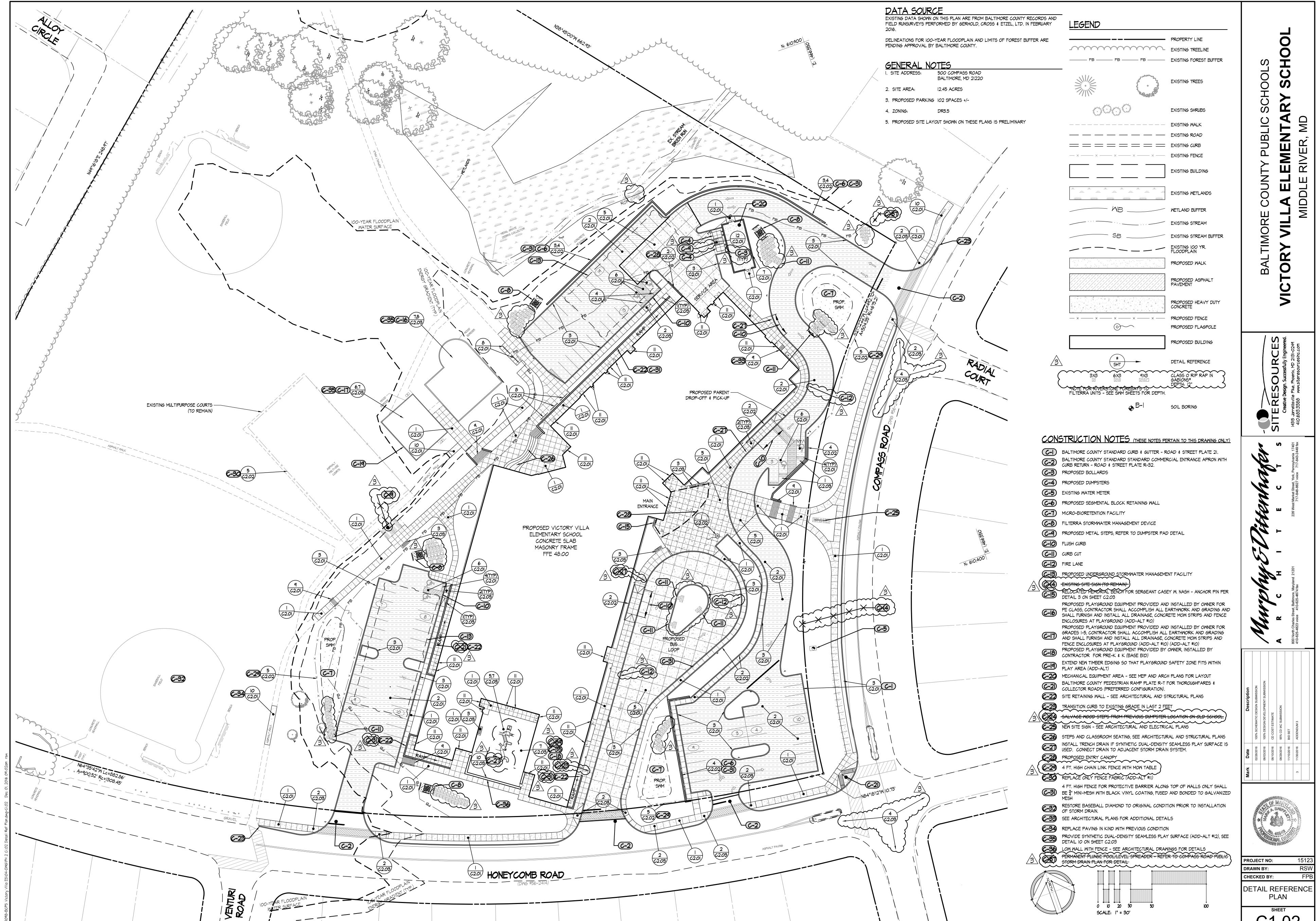
Anita Randall, Purchasing Agent A Schools		Dave Wilmoth 6 H Nitzel Inc 410-335-0200	MARK CAMPONESOM: BCPS	Mez Hernandez CAM Construction	Karty Angstadt BCPS	Davis Googas James Bear Asserves	>	Louven Myatt Murphy & Disturbation
443-809-4334		410-335-220	443.808-9077	410 560 28 28	413 809 907 5	0017- 52.01h		410.625.4823
410-887-7831		410-335-3477		410 560 1572				##
arandall@bcps.org		dave O.3/ nitzel. Com		Maxe camb vilds.com	kangstadt@bcps.org	Discourse James as ser can.		Immo murph diffarch. com

	DRAWING LIST		DRAWING LIST
Sheet	DRAWING LIST	Sheet	DRAWING LIST
Number	Sheet Name	Number	Sheet Name
CS-1	COVER SHEET	A5.05	MECHANICAL ENCLOSURE PLAN, ELEVATIONS AND SECTION
CS-2 CS-3	SHEET LIST CODE SUMMARY	A5.06 A5.07	NORTH PATIO NORTH PATIO DETAILS
CS-4	EGRESS PLANS	A5.08	ROOF SCREEN (ADD ALTERNATE #6)
C0.01 C0.02	CIVIL COVER SHEET & GENERAL NOTES  OVERALL EXISTING CONDITIONS PLAN	A5.09 A5.10	ROOF SCREEN (ADD ALTERNATE #6) RAMP
C1.01	EXISTING CONDITIONS & DEMOLITION PLAN	A5.11	RAMP CONT.
C1.02 C1.03	DETAIL REFERENCE PLAN SITE GEOMETRIC PLAN	A6.01 A6.02	ROOM FINISH SCHEDULE  DOOR SCHEDULE
C1.04	GRADING PLAN	A6.03	DOOR DETAILS
C1.05 C1.06	UTILITY PLAN SIGNAGE & STRIPING PLAN	A6.04 A6.05	EXTERIOR STOREFRONT TYPES INTERIOR STOREFRONT TYPES
C2.01	SITE DETAILS	A6.06	STOREFRONT DETAILS
C2.02 C2.03	SITE DETAILS SITE DETAILS	A6.07 A6.08	CURTAIN WALL TYPES AND DETAILS PARTITION TYPES
C3.01	STORMDRAIN PROFILES	A6.09	SIGNAGE TYPES 1-8
C3.02	STORMDRAIN PROFILES	A6.10	SIGNAGE TYPES 9-10
C3.03 C3.04	WATER PROFILES SANITARY PROFILES	A6.11 A8.01	SALVAGE DETAILS FIRST FLOOR FURNITURE PLAN
C4.01	COMPASS ROAD PLAN COMPASS STRIPING PLAN	A8.02	SECOND FLOOR FURNITURE PLAN FIRST FLOOR FINISH PLAN
C4.02 C4.03	HONEYCOMB ROAD PLAN	A8.03 A8.04	SECOND FLOOR FINISH PLAN
C4.04	HONEYCOMB STRIPING PLAN	S1.01	FOUNDATION AND FIRST FLOOR PLAN A
C4.13 C4.14	PUBLIC STORM DRAIN PLAN PUBLIC STORM DRAIN PLAN	\$1.02 \$1.03	FOUNDATION AND FIRST FLOOR PLAN B SECOND FLOOR FRAMING PLAN A
C4.15	PUBLIC ROADS DA MAP	S1.04	SECOND FLOOR FRAMING PLAN B
C5.01 C6.01	PUBLIC WATER PLAN SUPPLEMENTAL OUTFALL DETAILS	S1.05 S1.06	ROOF FRAMING PLAN A ROOF FRAMING PLAN B
ESC1.01	ESC EXISTING CONDITIONS PLAN	S1.07	PLATFORM FRAMING PLAN AND SECTIONS
ESC1.02 ESC2.01	ESC PROPOSED CONDITIONS PLAN EROSION & SEDIMENT CONTROL NOTES	S2.01 S3.01	GENERAL NOTES AND SCHEDULES TYPICAL DETAILS
ESC2.02	EROSION & SEDIMENT CONTROL DETAILS	S3.02	TYPICAL DETAILS
L1.01 L2.01	FINAL PLANTING PLAN FINAL PLANTING DETAILS AND NOTES	\$3.03 \$4.01	TYPICAL DETAILS SECTIONS
SWM1.01	STORMWATER MANAGEMENT PLAN	S4.02	SECTIONS
SWM2.01 SWM2.02	STORMWATER MANAGEMENT DETAILS STORMWATER MANAGEMENT PROFILES	\$4.03 \$4.04	SECTIONS SECTIONS
SWM2.03	STORMWATER MANAGEMENT PROFILES	S4.05	SECTIONS
SWM2.04 SWM2.05	STORMWATER MANAGEMENT PROFILES STORMWATER MANAGEMENT PROFILES	M0.01 ME0.01	SYMBOLS AND ABBREVIATIONS SITE PLAN - MECHANICAL & ELECTRICAL
SWM2.06	STORMWATER MANAGEMENT BORINGS & DETAILS	ME0.02	PART PLAN - MECHANICAL & ELECTRICAL
A0.01 A1.00	EDGE OF SLAB PLANS ARCHITECTURAL / LEED SITE PLAN	M1.01 M1.02	PART PLAN - FIRST FLOOR - AREA A PART PLAN - FIRST FLOOR - AREA B
A1.01	FIRST FLOOR PLAN	M1.03	PART PLAN - FIRST FLOOR - AREA C
A1.02 A1.03	SECOND FLOOR PLAN ROOF PLAN	M1.04 M1.05	PART PLAN - SECOND FLOOR HVAC- AREA A PART PLAN - SECOND FLOOR HVAC - AREA B
A1.04	ENLARGED FIRST FLOOR PLAN - A	M1.06	PART PLAN - SECOND FLOOR HVAC- AREA C
A1.05 A1.06	ENLARGED FIRST FLOOR PLAN - C ENLARGED SECOND FLOOR PLAN - A	M1.07 MP1.01	UPPER ROOF PLAN PART PLAN - FIRST FLOOR PIPING - AREA A
A1.07	ENLARGED SECOND FLOOR PLAN - C	MP1.02	PART PLAN - FIRST FLOOR PIPING - AREA B
A1.08 A1.09	ENLARGED FLOOR PLANS - B FIRST FLOOR REFLECTED CEILING PLAN	MP1.03 MP1.04	PART PLAN - FIRST FLOOR PIPING - AREA C PART PLAN - SECOND FLOOR PIPING - AREA A
A1.10	SECOND FLOOR REFLECTED CEILING PLAN	MP1.05	PART PLAN - SECOND FLOOR PIPING - AREA B
A1.11 A1.12	ENLARGED FIRST FLOOR RCP - A ENLARGED FIRST FLOOR RCP - C	M4.01 M4.02	PART PLAN - MECH ROOM PART PLANS
A1.12	ENLARGED FIRST FLOOK RCF - C  ENLARGED SECOND FLOOR RCP - A	M5.01	MECHANICAL DETAILS & DIAGRAMS
A1.14 A1.15	ENLARGED REFLECTED CEILING PLANS - B ENLARGED SECOND FLOOR RCP - C	M5.02 M5.03	DETAILS & DIAGRAMS DETAILS & DIAGRAMS
A1.15 A2.01	OVERALL BUILDING ELEVATIONS	M5.04	DETAILS & DIAGRAMS  DETAILS & DIAGRAMS
A2.02	TRUE ELEVATIONS	M6.01	SCHEDULES
A2.03 A2.04	TRUE ELEVATIONS TRUE ELEVATIONS	M6.02 M6.03	SCHEDULES SCHEDULES
A3.01	BUILDING SECTIONS	M6.04	SCHEDULES
A3.02 A3.03	BUILDING SECTIONS BUILDING SECTIONS	M7.01 M7.02	ATC SEQUENCES ATC SEQUENCES
A3.04	WALL SECTIONS	M7.03	ATC SEQUENCES
A3.05 A3.06	WALL SECTIONS WALL SECTIONS	M7.04 P1.01	ATC SEQUENCES PART PLAN - FIRST FLOOR - AREA A
A3.07	WALL SECTIONS	P1.02	PART PLAN - FIRST FLOOR - AREA B
A3.08 A3.09	WALL SECTIONS WALL SECTIONS	P1.03 P1.04	PART PLAN - FIRST FLOOR - AREA C PART PLAN - SECOND FLOOR - AREA A
A3.10	WALL SECTIONS	P1.05	PART PLAN - SECOND FLOOR - AREA B
A3.11 A3.12	WALL SECTIONS WALL SECTIONS	P1.06 P2.01	PART PLAN - SECOND FLOOR - AREA C PART PLANS
A3.13	WALL SECTIONS	P5.01	PLUMBING DETAILS & DIAGRAMS
A4.01.1 A4.01.2	ADMINISTRATION ENLARGED PLANS, ELEVATIONS, AND CASEWORK DETAILS ADMINISTRATION ENLARGED PLANS, ELEVATIONS, AND FRONT DESK DETAILS	P5.02 P6.01	PLUMBING DETAILS & DIAGRAMS SCHEDULES
A4.02.1	MEDIA CENTER ENLARGED PLAN, ELEVATIONS AND DETAILS	FP1.01	FIRST FLOOR PLAN FIRE PROTECTION
A4.02.2 A4.02.3	MEDIA CENTER INTERIOR ELEVATIONS  MEDIA CENTER CIRCULATION DESK AND STORYTELLING SEATING DETAILS	FP1.02 E0.01	SECOND FLOOR PLAN FIRE PROTECTION  ELECTRICAL SYMBOLS LIST AND ABBREVIATIONS
A4.03.1	GRADE LEVEL STORAGE ENLARGED PLANS AND ELEVATIONS	EL1.01	PART PLAN - FIRST FLOOR - AREA A - LIGHTING
A4.03.2 A4.04	GRADE LEVEL STORAGE ENLARGED PLANS, ELEVATIONS AND DETAILS ART ROOM ENLARGED PLAN AND ELEVATIONS	EL1.02 EL1.03	PART PLAN - FIRST FLOOR - AREA B - LIGHTING PART PLAN - FIRST FLOOR - AREA C - LIGHTING
A4.05.1	TOILET ROOMS ENLARGED PLANS AND ELEVATIONS	EL1.04	PART PLAN - SECOND FLOOR - AREA A - LIGHTING
A4.05.2 A4.05.3	TOILET ROOMS ENLARGED PLANS AND ELEVATIONS TOILET ROOMS ENLARGED PLANS AND ELEVATIONS	EL1.05 EP1.01	PART PLAN - SECOND FLOOR - AREA B - LIGHTING PART PLAN - FIRST FLOOR - AREA A - POWER
A4.05.3 A4.05.4	TOILET ROOMS ENLARGED PLANS AND ELEVATIONS  TOILET ROOMS ENLARGED PLANS AND ELEVATIONS	EP1.01 EP1.02	PART PLAN - FIRST FLOOR - AREA B - POWER  PART PLAN - FIRST FLOOR - AREA B - POWER
A4.06.1 A4.06.2	TYP. CLASSROOM AND REMEDIAL READING ENLARGED PLANS AND ELEVATIONS TYPICAL KINDERGARTEN CLASSROOM ENLARGED PLANS AND ELEVATIONS	EP1.03 EP1.04	PART PLAN - FIRST FLOOR - AREA C - POWER PART PLAN - SECOND FLOOR - AREA A - POWER
A4.06.2 A4.06.3	TYPICAL PRE-K CLASSROOM ENLARGED PLANS AND ELEVATIONS	EP1.04	PART PLAN - SECOND FLOOR - AREA B - POWER  PART PLAN - SECOND FLOOR - AREA B - POWER
A4.07.1	CORRIDOR PLAN AND ELEVATIONS CORRIDOR PLAN AND ELEVATIONS	EP1.06	ROOF PLAN - POWER  PART PLAN - FIRST FLOOR - AREA A - SYSTEMS
A4.07.2 A4.07.3	CORRIDOR PLAN AND ELEVATIONS  CORRIDOR PLAN AND ELEVATIONS	EY1.01 EY1.02	PART PLAN - FIRST FLOOR - AREA A - SYSTEMS PART PLAN - FIRST FLOOR - AREA B - SYSTEMS
A4.07.4	CORRIDOR PLAN AND ELEVATIONS	EY1.03	PART PLAN - FIRST FLOOR - AREA C - SYSTEMS
A4.07.5 A4.07.6	CORRIDOR PLAN AND ELEVATIONS  CORRIDOR PLAN AND ELEVATIONS	EY1.04 EY1.05	PART PLAN - SECOND FLOOR - AREA A - SYSTEMS PART PLAN - SECOND FLOOR - AREA B - SYSTEMS
A4.08.1	GYM/CAFETERIA PLAN AND ELEVATIONS	EF1.01	PART PLAN - FIRST FLOOR - AREA A - FIRE ALARM
A4.08.2 A4.08.3	GYM/CAFETERIA ELEVATIONS AND DETAILS STAGE/PLATFORM PLAN, ELEVATIONS AND DETAILS	EF1.02 EF1.03	PART PLAN - FIRST FLOOR - AREA B - FIRE ALARM  PART PLAN - FIRST FLOOR - AREA C - FIRE ALARM
A4.09	MUSIC AND FACULTY ROOMS ENLARGED PLANS AND ELEVATIONS	EF1.04	PART PLAN - SECOND FLOOR - AREA A - FIRE ALARM
A4.10.1 A4.10.2	LOBBY ENLARGED PLANS, ELEVATIONS AND DETAILS  LOBBY ENLARGED PLANS AND DETAILS	EF1.05 E4.01	PART PLAN - SECOND FLOOR - AREA B - FIRE ALARM ENLARGED PLANS
A4.11	STAIR 1 ENLARGED PLANS, SECTIONS AND DETAILS	E4.02	MECHANICAL ROOMS
A4.12 A4.13	STAIR 2 ENLARGED PLANS, SECTIONS AND DETAILS STAIR 3 ENLARGED PLANS, SECTIONS AND DETAILS	E5.01 E5.02	RISER DIAGRAM - POWER DISTRIBUTION RISER DIAGRAM - GROUNDING
A4.14	ELEVATOR PLANS, SECTIONS AND DETAILS	E5.03	RISER DIAGRAM - FIRE ALARM
A5.01 A5.02	ROOF DETAILS PLAN DETAILS	E5.04 E5.05	RISER DIAGRAM - LIGHTING CONTROL SYSTEM LIGHTING CONTROL DETAILS
A5.03	GREEN ROOF DETAILS (ADD ALTERNATE #3)	E5.06	DETAILS & DIAGRAMS
A5.04	SOLAR ARRAY DETAILS (ADD ALTERNATE #1)	E5.07	DETAILS & DIAGRAMS

Sheet Number	Sheet Name
E5.08	SYSTEMS DETAILS
E6.01	LIGHTING FIXTURE SCHEDULE
E6.02	PANEL SCHEDULES
E6.03	PANEL SCHEDULES
E6.04	PANEL SCHEDULES
K1.01	KITCHEN EQUIPMENT PLAN
K1.02	BUILDING CONDITIONS & VENTILATION PLAN
K1.03	PLUMBING ROUGH-IN PLAN
K1.04	ELECTRICAL ROUGH-IN PLAN
K5.01	FABRICATION DETAILS
K5.02	EXHAUST CANOPY DETAILS

DRAWING LIST





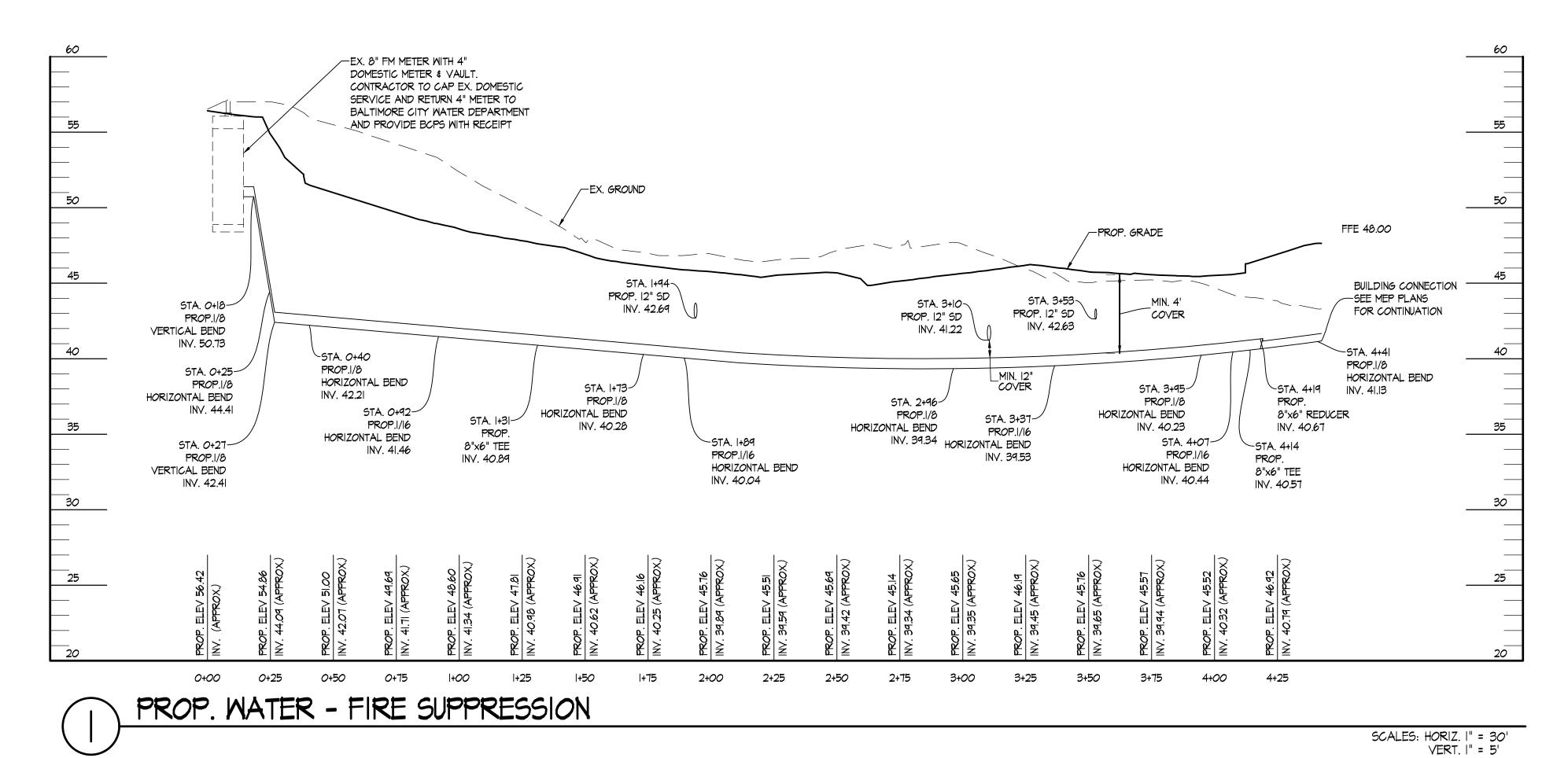
PROJECT NO: 15123

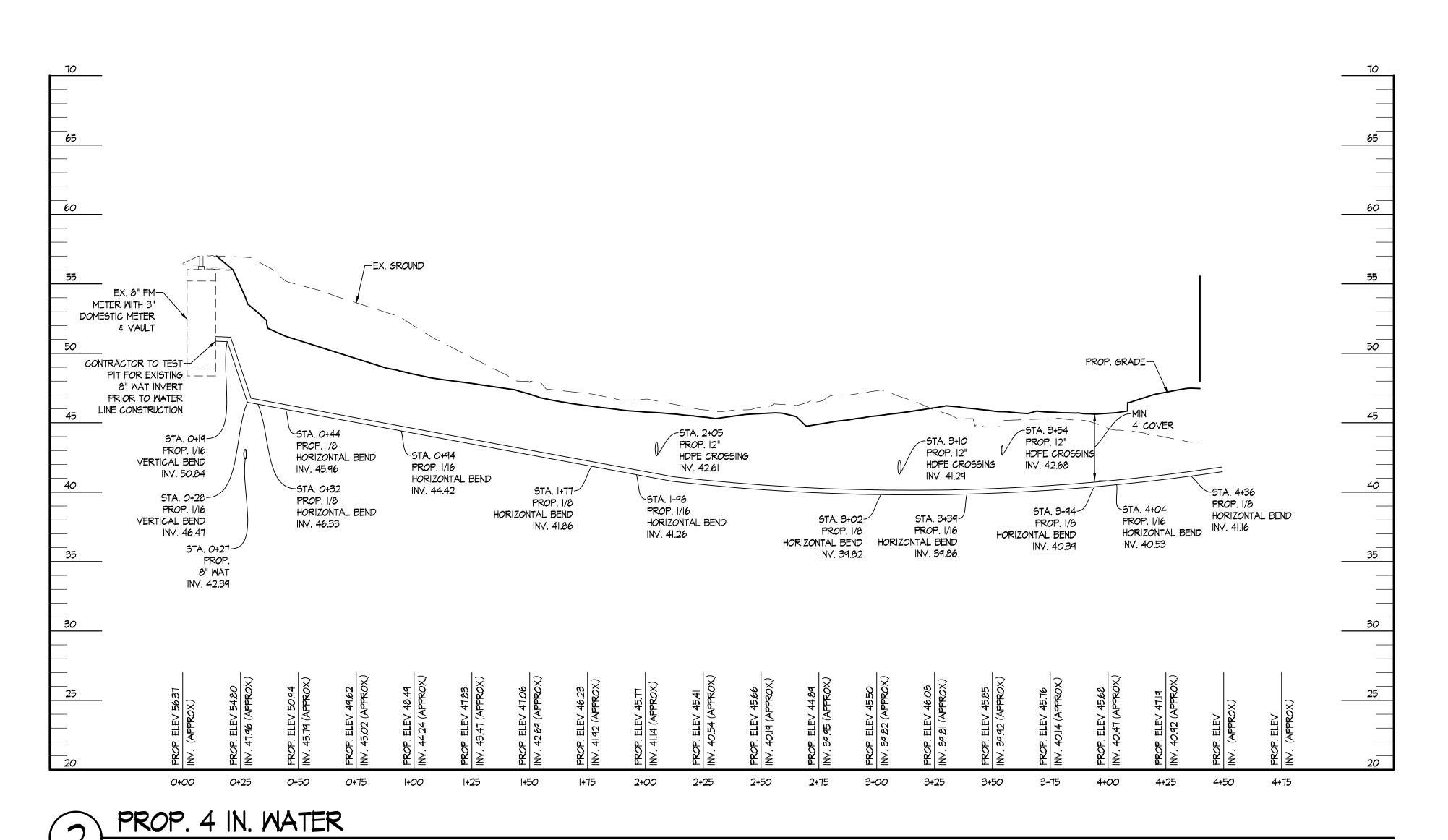
DRAWN BY: RSW

CHECKED BY: FPE

WATER

PROFILES





## FIRE MAIN NOTES

- THE OVERALL INSTALLATION AND DESIGN SHALL BE IN COMPLIANCE WITH NFPA 24, 2007 EDITION, "STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES"; THE BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS, "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION"; AND THE BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS "DESIGN MANUAL".
- 2. PIPELINES SUPPLYING BOTH FIRE AND DOMESTIC WATER SHALL BE INSTALLED UNDER BOTH A REQUIRED FIRE MAIN PERMIT AND A REQUIRED PLUMBING PERMIT.
- 3. ALL RODDING, CLAMPS, NUTS, BOLTS, AND OTHER RESTRAINING DEVICES EXCEPT THRUST BLOCKS, SHALL BE CLEANED AND COATED WITH BITUMINOUS OR ASPHALT. NEPA 24, 2007 EDITION, SECTION 10.8.3.5.
- 4. FERROUS METAL PIPING, IF UTILIZED, SHALL BE LINED, AND STEEL PIPE SHALL BE COATED AND WRAPPED. NFPA 24, 2007 EDITION, SECTIONS IO.I.2, IO.I.3, IO.I.6, IO.I.6.2.
   5. THE MINIMUM SIZE OF PIPELINES HAVING FIRE HYDRANTS INSTALLED SHALL BE & INCHES IN
- DIAMETER. BALTIMORE COUNTY BILL 47-10, SECTION 901.9.

  6. ALL PIPING, FITTINGS, AND JOINTS SHALL MEET THE REQUIREMENTS SET FORTH IN NFPA 24, 2007 EDITIONS SECTION 10.1 THROUGH 10.3.5.
- THRUST BLOCKS SHALL BE PROVIDED AT ALL CHANGES IN DIRECTION IN THE PIPELINE, AND AT ALL TEES, PLUGS, CAPS, AND BENDS. THRUST BLOCKS SHALL CONFORM TO THE BEARING AREAS NOTED IN THE TEXT OF THE STANDARD AND CONFIGURATIONS NOTED IN THE APPENDIX. NFPA 24, 2007 EDITION, SECTIONS 10.8.1.1 AND 10.8.2.
- APPENDIX. NFPA 24, 2007 EDITION, SECTIONS 10.8.1.1 AND 10.8.2.

  3. IN SOIL CONDITIONS NOT ABLE TO SUPPORT THE USE OF THRUST BLOCKS, OTHER SUITABLE MEANS OF THRUST RESTRAIN SHALL BE USED. THIS RESTRAINT SHALL BE ACCEPTABLE TO THE DESIGN ENGINEER AND SPECIFICALLY DETAILED ON THE PLANS FILED FOR APPROVAL. NFPA 24, 2007 EDITION, SECTION 10.8.21 AND 10.8.3.
- 9. ALL VALVES (> 2") CONTROLLING WATER SUPPLIES SHALL BE INSTALLED IN STANDARD VAULTS AS DETAILED BY THE BCDPW "STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION" MANUAL, OR SHALL UTILIZE APPROVED POST INDICATOR VALVES. ROADWAY BOXES ARE NOT ACCEPTABLE. NFPA 24, 2007 EDITION, SECTIONS 6.1, 6.3 AND 6.4; AND BCDPW "DESIGN MANUAL", WATER MAIN SECTION, SECTION 2-4.7.
- IO. PIPES RUN UNDER OR IN AREAS SUBJECTED TO HEAVY VIBRATION, SHOCK, OR GREATER THAN NORMAL SOIL LOADING CONDITIONS (I.E. RAILROAD LINES, ETC.), SHALL BE EVALUATED BY A PROFESSIONAL ENGINEER AND SHALL BE SUITABLY PROTECTED. SUCH PROTECTION SHALL BE SPECIFICALLY DESIGNED AND DETAILED ON THE SUBMITTED PLANS. NFPA 24, 2007 EDITION, SECTION 10.4.
- II. FIRE HYDRANTS, PUBLIC AND PRIVATE SHALL BE UL LISTED OR BE FM OR BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS APPROVED THREE (3) OUTLET HYDRANTS. OUTLETS SHALL BE  $2-2\frac{1}{2}$ " NST AND  $1-4\frac{1}{2}$ " BALTIMORE COUNTY STEAMER THREAD. NFPA 24, 2007 EDITION, SECTIONS 7.I.I AND 7.I.I.2 BCDPW "DESIGN MANUAL", SECTION 2-4.4 STEAMER THREAD, AS DETAILED ON BCDPW PLATE W-3C DATED 3/5/82. BALTIMORE COUNTY BILL 48-10 SECTION 1:18.3.3.1(3) AND 1:18.3.5.2.
- 12. FIRE HYDRANTS SHALL HAVE A CENTERLINE SET BACK FROM THE CURB OF 24" AND SHALL HAVE THE CENTERLINE OF THE  $4-\frac{1}{2}$ " STEAMER CONNECTION NO LESS THAN IT" NOR MORE THAN 30" ABOVE FINISHED GRADE, FACING THE ACCESS DRIVE. BCDPW "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION", PLATE W-3A, W-3B.
- I3. FIRELINES ARE SUBJECT TO A MINIMUM OF A 200-PSI HYDROSTATIC TEST IN ACCORDANCE WITH NFPA 24, 2007 EDITION, SECTION IO.IO.2.2.1. ALL THRUST BLOCKS, TIE RODS, VALVES, FITTINGS, AND HYDRANT DRAIN FIELDS SHALL BE EXPOSED FOR FIRE DEPARTMENT INSPECTION AT THE TIME OF THE TEST. PIPE JOINTS MAY BE COVERED AT THE TIME OF THE TEST.
- 14. THE MINIMUM DEPTH OF COVER FOR ALL UNDERGROUND FIRE LINES SHALL BE A MINIMUM OF 4'-O" MEASURED FROM THE TOP OF THE PIPE. NFPA 24, 2007 EDITION, SECTION 10.4 AND TABLE A10.5.1.
- 15. PIPES SHALL NOT BE RUN MORE THAN ONE PIPE LENGTH (APPROXIMATELY 20 FEET) UNDER BUILDINGS. FITTINGS SHALL NOT BE LOCATED WITHIN THE BEARING AREA OF ANY FOUNDATIONS UNLESS APPROVED BY THE DESIGN ENGINEER. NFPA 24, 2007 EDITION, SECTION 10.6.

- I6. SPOOL PIECES ON VERTICAL RISES ON HORIZONTAL STUB-INS SHALL BE WELDED OR SCREWED FLANGE, OR LISTED UNIFLANGE TYPE FITTING. NOTE: UNIFLANGE TYPE FITTINGS
- SHALL BE SPECIFICALLY LISTED FOR ABOVEGROUND USE.

  17. HYDRANTS ARE REQUIRED TO BE LOCATED A MINIMUM OF 40 FEET FROM BUILDINGS AND IN LOCATIONS AS DIRECTED BY FIRE DEPARTMENT. NFPA 24, 2007 EDITION, SECTION 7.1, 7.2 AND 7.3 BALTIMORE COUNTY BILL 47-10, SECTION 901.9. BALTIMORE COUNTY BILL 48-10, SECTION 1:18.3.4.2.
- 18. ADD A VALVE AND VALVE VAULT ON ALL BUILDINGS LEAD-INS. NFPA 24, 2007 EDITION, SECTIONS 6.2.1, 6.3.1 AND 6.3.3.1.
- ON SITE (PRIVATE) HYDRANTS SHALL BE PAINTED RED, IN ORDER TO DISTINGUISH THEM FROM (ORANGE) PUBLIC HYDRANTS. BALTIMORE COUNTY BILL 48-10, SECTION 1:18.3.5.2.
   COORDINATE HYDROSTATIC TEST AND FLUSH WITH CONTRACTOR INSTALLING STUB-IN, SUCH
- THAT ENTIRE LEAD-IN IS TESTED AS A SINGLE UNIT.

  21. COORDINATE HYDROSTATIC TEST AND FLUSH WITH CONTRACTOR INSTALLING LEAD-IN SUCH
- THAT ENTIRE LEAD TO BASE OF RISER IS TESTED AS A SINGLE UNIT.

  22. IT SHALL BE THE RESPONSIBILITY OF THE PROJECT SITE ENGINEER TO ENSURE THAT THE
- INSTALLING CONTRACTOR IS PROVIDED WITH THE APPROVED PLAN, AND A COPY OF THESE REVIEW COMMENTS.

  23. ALL DRAWINGS SHALL BE PRODUCED IN A PROFESSIONAL MANNER AND BE WET SEALED BY
- A STATE OF MARYLAND PROFESSIONAL ENGINEER IN CIVIL OR FIRE PROTECTION ENGINEERING.

  24. ALL UNDERGROUND FIRE PROTECTION PIPING THAT ENTERS THE BUILDING SHALL INCLUDE A DETAIL OF THE STUB-IN BEGINNING 5 FEET OUTSIDE THE BUILDING TO THE INTERIOR FLOOR FLANGE. DETAIL TO INCLUDE DEPTH OF COVER AND ALL MEANS OF MECHANICAL
- RESTRAINMENT.

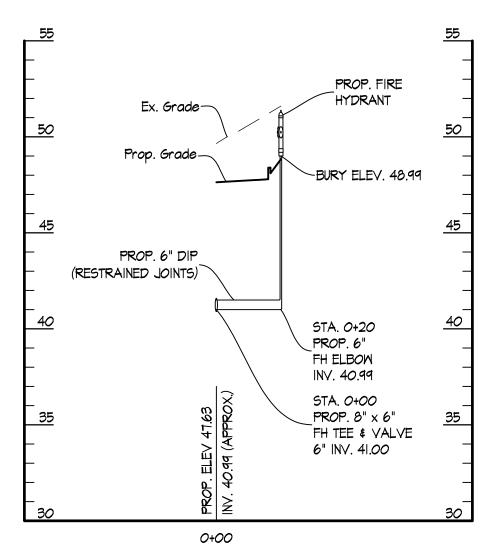
  25. WHERE FIRE PROTECTION WATER SUPPLIES ARE REQUIRED TO BE PROVIDED, THEY SHALL BE INSTALLED AND MADE AVAILABLE FOR USE NOT LATER THAN THE TIME WHEN THE CONSTRUCTION OF ANY INDIVIDUAL BUILDING IS UNDER ROOF. A CRUSHER RUN ROAD FOR ACCESS TO BUILDINGS AND HYDRANTS SHALL BE AVAILABLE FOR AND USABLE BY EMERGENCY FIRE APPARATUS AND CAPABLE OF HANDLING EMERGENCY APPARATUS
- BALTIMORE COUNTY BILL 48-10, SECTION 1:16.4.3.1.3.

  26. HYDRANT LEADS FROM MAINS SHALL BE NOT LESS THAN 6" IN DIAMETER, NOR MORE THAN 20' IN LENGTH. EXCEPTIONS TO THESE CRITERIA MAY BE GRANTED AT THE DISCRETION OF THE BUILDING OFFICIAL OR THE FIRE DEPARTMENT. BALTIMORE COUNTY BILL 47-10 SECTION 40.4.3.

WEIGHING 65,000 POUNDS WHEN CONSTRUCTION OF ANY BUILDING IS UNDER ROOF.

- 901.9.2.

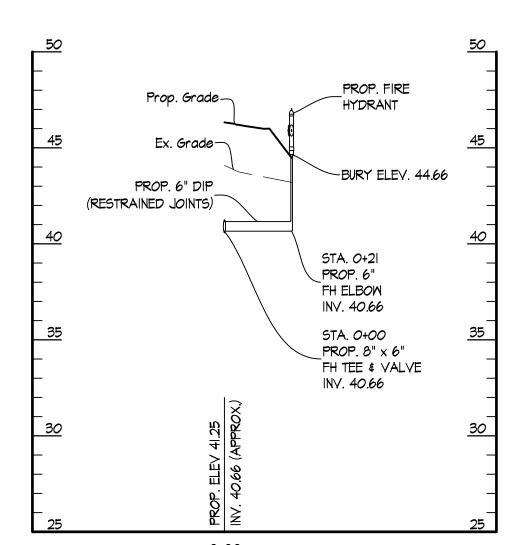
  27. RESTRAINED JOINT SYSTEMS. FIRE MAIN UTILIZING RESTRAINED JOINT SYSTEMS SHALL INCLUDE THE FOLLOWING PER NFPA 24, 2007 EDITION, SECTION 10.8.3:
- LOCKING MECHANICAL OR PUSH-ON JOINTS
   MECHANICAL JOINTS UTILIZING SETSCREW RETAINER GLANDS
- MECHANICAL JOINTS UTILIZING SETSCREM RETAINER GLAND
   BOLTED FLANGE JOINTS
- 4. HEAT-FUSED OR WELDED JOINTS5. PIPE CLAMPS AND TIE RODS
- 5. PIPE CLAMPS AND TIE RODS6. OTHER APPROVED METHODS OR DEVICES
- 28. FIRE HYDRANTS SHALL BE LOCATED IN A PATTERN APPROVED BY THE FIRE CHIEF OR HIS DESIGNEE. BALTIMORE COUNTY BILL 48-10 SECTION 1:18.3.3.1.
  29. PRIVATE HYDRANTS SUPPLIED BY FIRE PUMPS: PRIVATE FIRE HYDRANTS LOCATED ON THE
- DISCHARGE SIDE OF THE FIRE PUMPS SHALL HAVE THEIR BONNETS PAINTED WHITE IN ORDER TO INDICATE THAT SAID HYDRANTS ARE OFF THE DISCHARGE SIDE OF A FIRE PUMP. EXCEPTIONS FOR PRESENTLY EXISTING SYSTEMS MAY BE GRANTED AT THE DISCRETION OF THE CHIEF OF FIRE DEPARTMENT OR DESIGNEE. BALTIMORE COUNTY BILL 48-10 SECTION 1:18.3.5.1.
- 30. ALL UNDERGROUND PIPING SHALL BE FLUSHED PRIOR TO HYDROSTATIC TESTING IN ACCORDANCE TO NFPA 24, 2007 EDITION, SECTION 10.10.2.1.





SCALES: HORIZ. I" = 30'

VERT. I" = 5'





**CHECKED BY:** COMPASS ROAD

PLAN



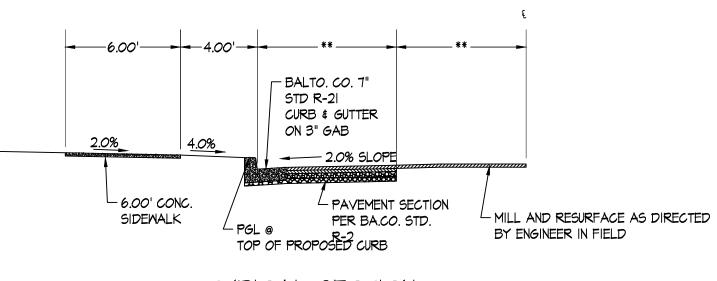
I. THE CONTRACTOR SHALL MAINTAIN, REPAIR, AND/OR REPLACE ANY EXISTING SEDIMENT CONTROL DEVICES ENCOUNTERED AND DISTURBED DURING THE COURSE OF CONSTRUCTION UNDER THIS CONTRACT, AND AS SHOWN ON THE APPROVED SEDIMENT CONTROL PLAN AS PART OF THE CONTRACT DOCUMENTS. AT THE END OF EACH DAY, ALL SUCH DISTURBED DEVICES SHALL BE REPAIRED OR REPLACED BEFORE LEAVING THE WORK SITE. THE COST OF PERFORMING THE WORK, INCLUDING MATERIALS, SHALL BE PAID FOR BY A LUMP SUM BID FOR MAINTENANCE AND REPAIR OF SEDIMENT CONTROL DEVICES.

- 2. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH BALTIMORE COUNTY SOIL CONSERVATION DISTRICT PERMIT NUMBER 191 - COUNTY - 15.
- 3. ALL CONSTRUCTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH BALTIMORE COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (FEBRUARY 2000, AS AMENDED).
- 4. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT (800) 257-7777 AT LEAST 72 HOURS PRIOR TO STARTING EXCAVATION.
- 5. THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES.
- 6. THE CONTRACTOR SHALL USE EXTREME CAUTION DURING EXCAVATION AND/OR INSTALLATION OF ALL WORK SHOWN ON THESE PLANS. ALL UTILITIES SHALL BE FULLY PROTECTED FROM DAMAGE
- 7. CURB DEPRESSIONS FOR HANDICAP RAMPS SHALL BE PLACED AT ALL INTERSECTION CURB RETURNS. THE COST SHALL BE INCLUDED IN THE PRICE OF OTHER ITEMS BID.
- 8. RAMPS SHALL BE PROVIDED FOR PHYSICALLY HANDICAPPED PERSONS AT ALL STREET INTERSECTIONS. THE RAMPS SHALL HAVE DETECTABLE WARNING AREAS AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL R-36A OR R-36B.
- 9. ALL PERMANENT STREET SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD). ALL SIGNS SHALL BE INSTALLED AS PER THE LATEST BALTIMORE COUNTY SIGN INSTALLATION MANUAL. FOR A COPY OF THE MANUAL, PLEASE CONTACT THE BUREAU OF TRAFFIC ENGINEERING AND TRANSPORTATION PLANNING AT 410-887-3554.
- IO.THE PRICE BID FOR PERMANENT STREET SIGNS SHALL INCLUDE THE COSTS FOR FURNISHING AND PLACING OF SIGNS, COMPLETE IN PLACE, AS SHOWN, SPECIFIED OR DIRECTED.
- II. CONTRACTOR SHALL ADJUST ALL TOPS OF ALL MANHOLES, INLETS AND VALVES LOCATED WITHIN THE ROADBEDS TO FINAL GRADE.
- 12.EXISTING CURB AND GUTTER AND/OR SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT AND BE REPLACED AS REQUIRED WITH EQUAL OR BETTER MATERIALS, AS DIRECTED BY THE ENGINEER

13. TRENCH REPAIR SHALL BE AS PER STANDARD DETAIL R-38.

### DEDICATION TABLE:

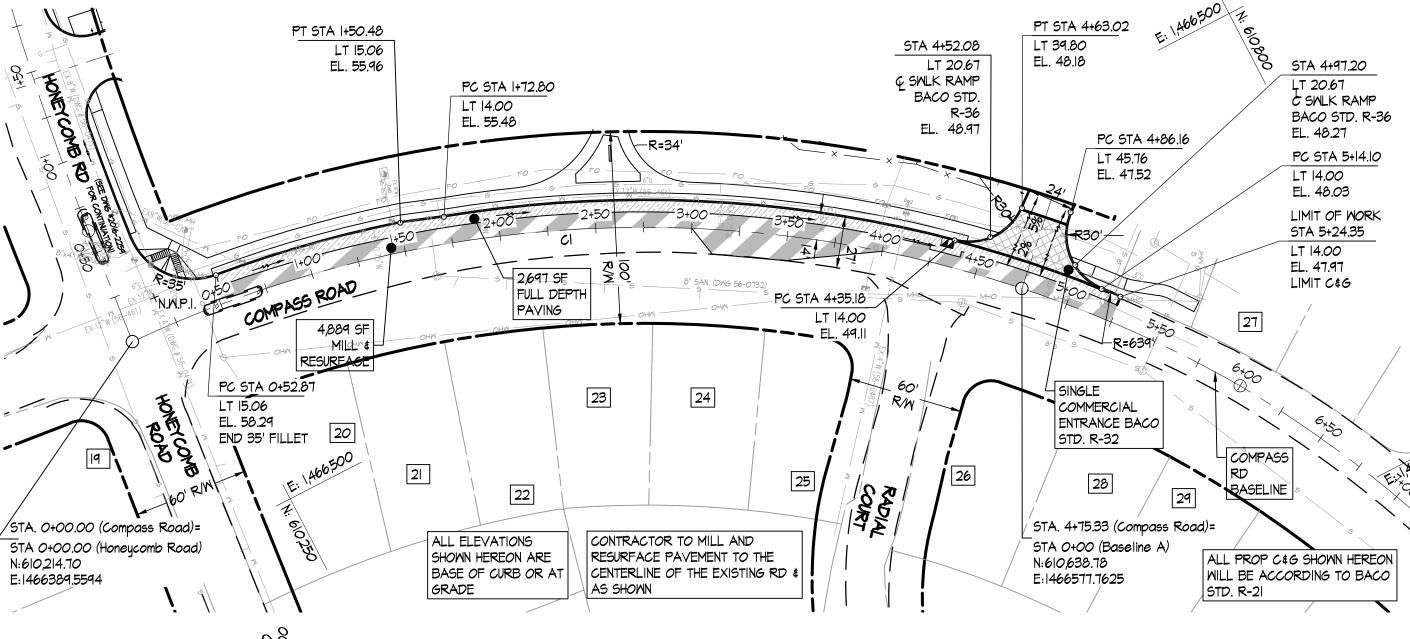
TYPE OF CONVEYANCE NO. DESCRIPTION UTILITY EASEMENT 1,241 S.F. 2 UTILITY EASEMENT 292,475 S.F. FLOODPLAIN

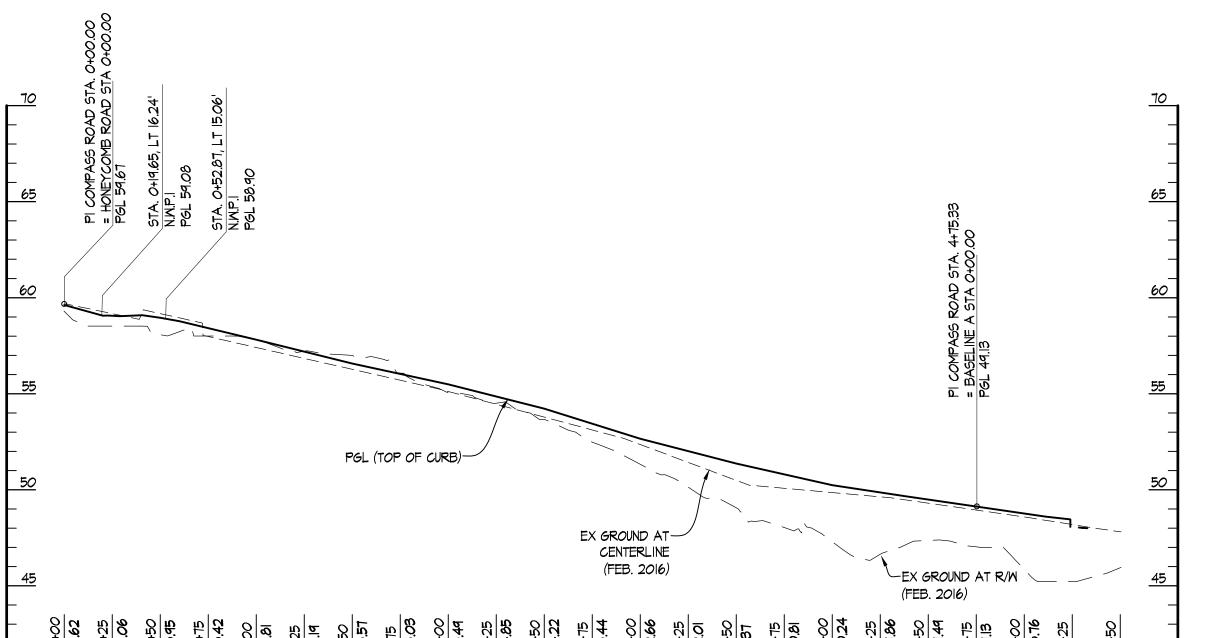


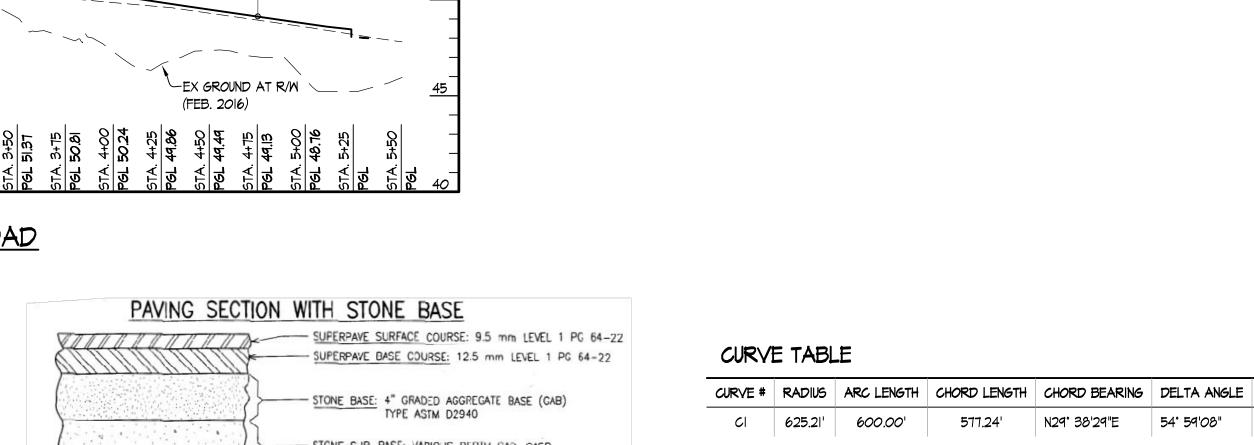
TYPICAL SECTION COMPASS ROAD \*\* VARIES, SEE PLAN AND SECTIONS (NOT TO SCALE)

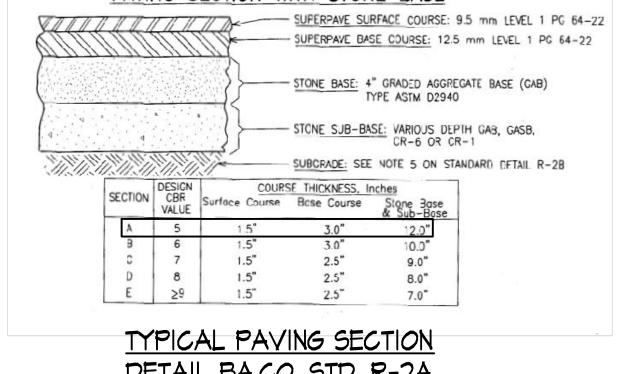
MILL AND RESURFACE FULL DEPTH PAVING BA.CO. STD. R-2 SECTION 'C'. SEE DETAIL THIS SHEET 2% MAXIMUM CROSS

CONCRETE ENTRANCE PER BA.CO. STD.









# ROAD PLAN AND PROFILE

FROM INTERSECTION OF COMPASS ROAD AND HONEYCOMB ROAD TO 75' NORTHEAST OF RADIAL COURT

PROFILE - COMPASS ROAD SCALE: HORIZ I" = 50' VERT |" = 5"

EX. SANITARY	56-0732
EX. WATER	56-46I
EX. 8" FM WATER	92-577
EX. STORM DRAIN	UNKNOMN
EX. ROAD	56-2414, 56-2402
PROP. WATER	2016-2254
PROP. STORM DRAIN	2016-2256, 2016-2257
PROP. ROAD	2016-2258, 2016-2259

RIGHT OF WAY CERTIFICATION "IN MY PROFESSIONAL OPINION, THIS PLAN IS SEALED AND CERTIFIED THAT THE RIGHT(S) OF WAY AND EASEMENT(S) SHOWN HEREON CONFORM IN ALL MATERIAL RESPECTS TO THE RIGHT(S) OF WAY AND EASEMENT(S) SHOWN ON THE RECORD PLAT OF VICTORY VILLA SECTION I PLAT C AND D RECORDED IN THE

1ARYLAND, LICENSE NO	. 45542, EXPIRATIO	N DATE: 06/	/10/2018.	LANI	D RECORDS	OF BALTIM	10RE COUNT	TY IN PLAT B <i>oo</i> k	( <i>00</i> 22, F0	DLIO OIOI AND O	102.				
008990-	AS-BUILT PER RECORD	PRINT		REVISION		DATE	BY	P. W. A. NO.		KEY SHEETS	POSITION SHEETS	DRA	WING SCALE	DEPARTMENT	OF PUBLIC WORKS
A SHA	DRAFTSMAN	DATE						N/A		I NE	16 NE 31	PLAN:	<u> </u> " = 50'		
								RIGHT OF WAY			17 NE 31	PROFILE :	H: I" = 50'	APPROVED	DIRECTOR
Ais and him													<u>V:  " = 5'</u>	DATE	
	SITE RESOURCE	S, INC	DSGN BY:	MAS	Bureau of En And Constr	GINEERING RUCTION	BUILDINGS	HIGHWAYS	STRUCTURE	S STORM DRAINS	SEWER	WATER		•	
ONAL CONTRACTOR	ENGINEER: <u>Mark Shifflett</u>		DWN BY:	RSW, EAM, PCS	REVIEW	VED									
- A B B B B B B B B B B B B B B B B B B									1						

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING & CONSTRUCTION

SHEET DESIGNATION

OWNER/DEVELOPER

6901 CHARLES STREET TOWSON, MD 21204

BOARD OF EDUCATION OF BALTIMORE COUNTY

JOB ORDER NO. 210-205-5904 SHEET I OF 2 DRAWING NO. 2016-2258 FILE NO. 5 REV. 05/05

**SITERESOURCES** 

14315 Jarrettsville Pike, Phoenix, MD 21131-0249

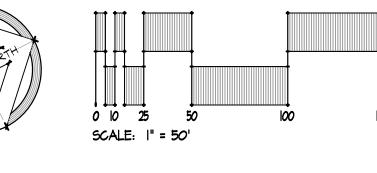
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Creative Design. Successfully Engineered.

CONTRACT NO.

577.24' N29° 38'29"E 54° 59'08"

ELECT. DISTRICT NO. 15C6



MARYLAND COORDINATE SYSTEM

BENCHMARKS NAD83/91 & NAVD88

MONUMENT NORTHING EASTING ELEVATION

GIS998 | 609003.49 | 1466639.61 | 44.29

GIS1486 | 612899.76 | 1469523.11 | 67.48

	ADJOINING PROPERTY INFORMATION											
#	ACCOUNT ID	PREMISES ADDRESS	OWNER NAME I	OWNER NAME 2	MAP	PARCEL						
19	1507581860	51 HONEYCOMB ROAD	CURCIO LAMRENCE C	CURCIO JOANN MILDRED	0090	0572						
20	1513752590	501 COMPASS ROAD	HOLT MURL A	HOLT ESTHER RUTH	0090	0572						
21	1502571400	505 COMPASS ROAD	WILHELM CRAIG L		0090	0572						
22	1504502520	509 COMPASS ROAD	HARRY JAMES H	HARRY MARY L	0090	0572						
23	1520660090	513 COMPASS ROAD	DELPILAR NICANOR C A		0090	0572						
24	1506350210	517 COMPASS ROAD	DRING RONALD GORDON	DRING NONA C	0090	0572						
25	1501920108	523 COMPASS ROAD	WHEATLEY BRIAN	WHEATLEY DEBRA	0090	0572						
26	1518472412	525 COMPASS ROAD	THOMPSON ROBERT B JR		0090	0572						
27	1508551480	528 COMPASS ROAD	MICHAEL JAMES	MICHAEL JENNIFER	0090	0572						
28	1504501350	529 COMPASS ROAD	HUSSAIN SYED SHABBIR		0090	0572						

COMPASS ROAD

SUBDIVISION: VICTORY VILLA ELEMENTARY SCHOOL, MIDDLE RIVER

DATE: <u>06/10/18</u> LIC. NO.: <u>45542</u> CHKD BY: <u>FPB</u>

PROFESSIONAL CERTIFICATION

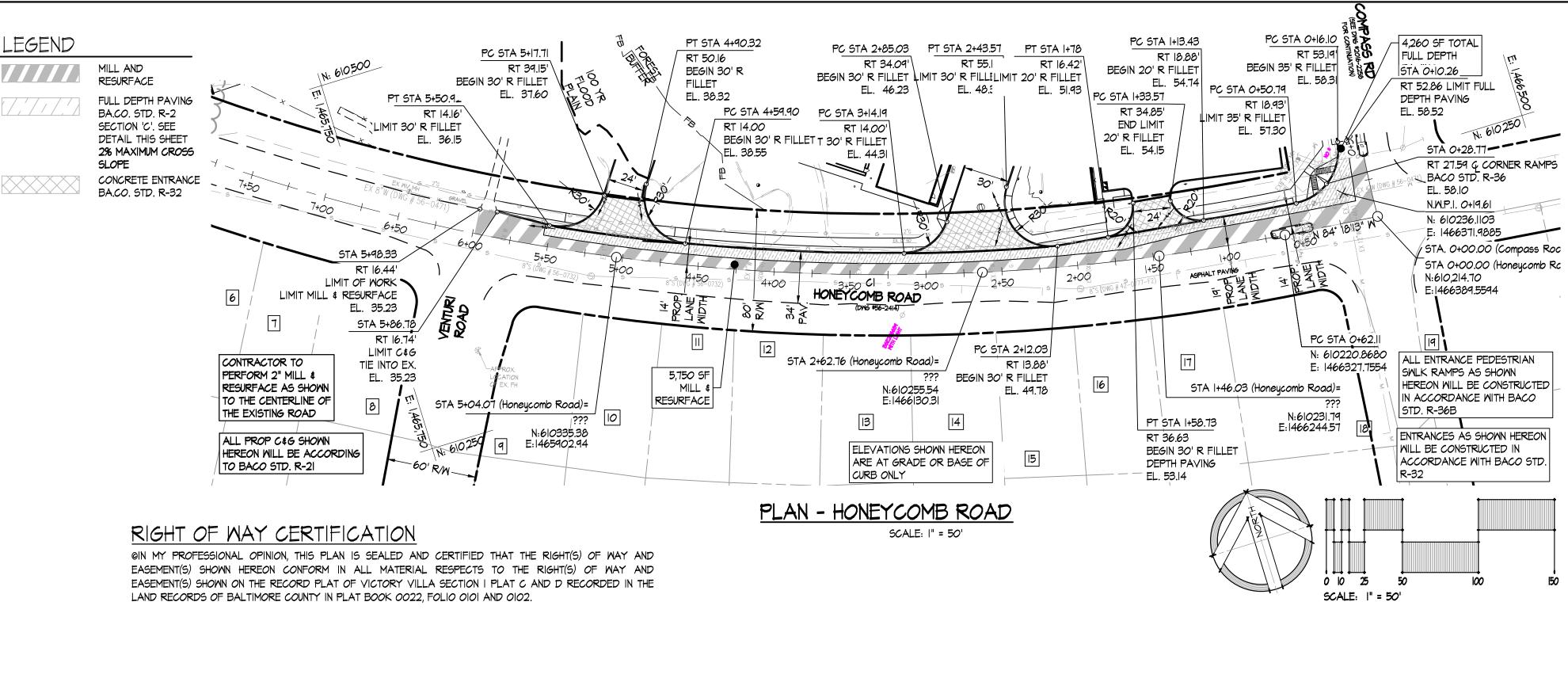
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED

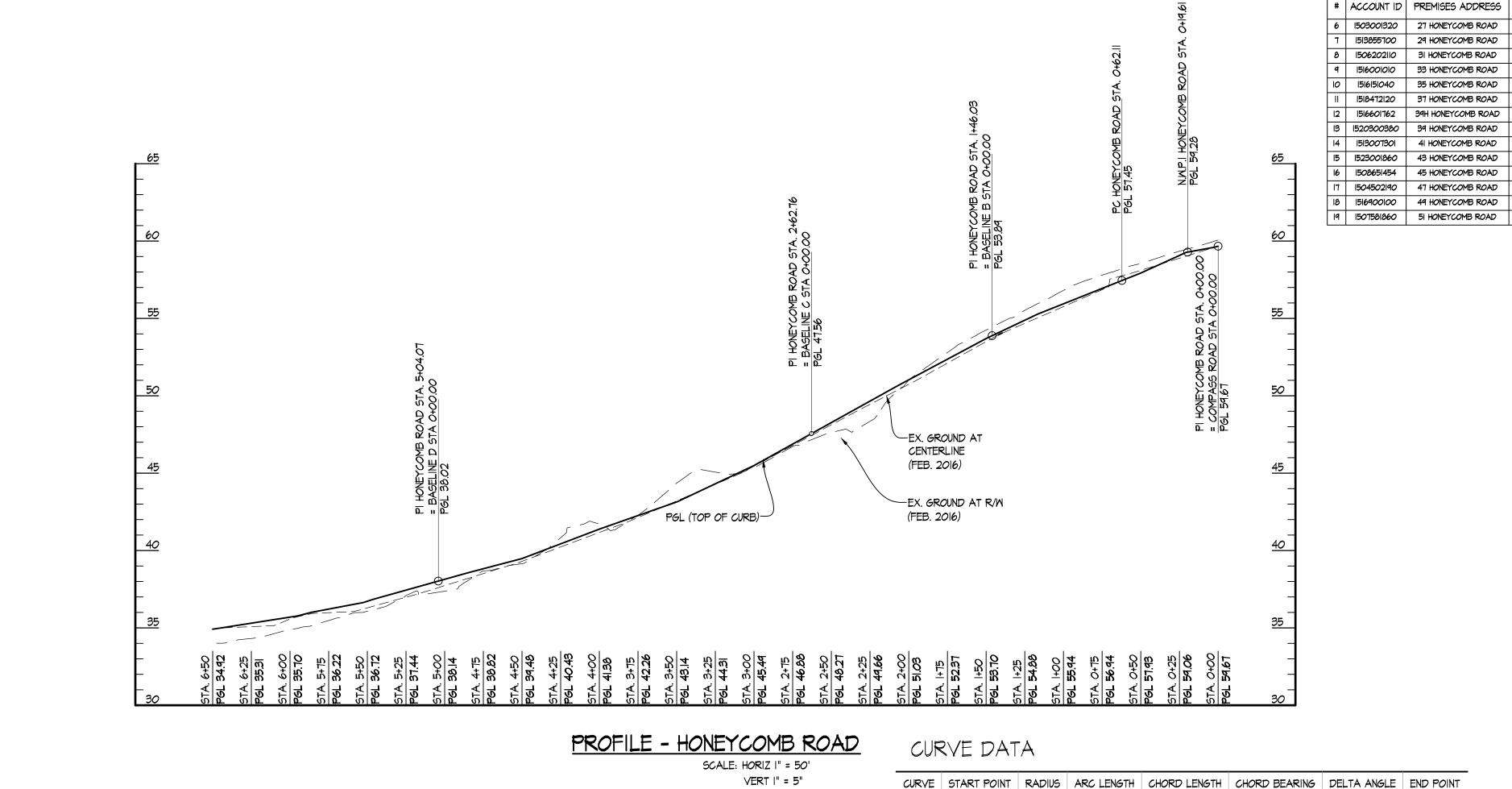
PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF

OR APPROVED BY ME, AND THAT I AM A DULY LICENSED

HONEYCOMB ROAD PLAN

C4.03





BOARD OF EDUCATION OF BALTIMORE COUNTY 6901 CHARLES STREET TOWSON, MD 21204 **SITERESOURCES** 

DEDICATION TABLE:

FLOODPLAIN

TYPE OF CONVEYANCE NO. DESCRIPTION AREA

OWNER/DEVELOPER

UTILITY EASEMENT 1,241 S.F.

2 UTILITY EASEMENT 292,475 S.F.

Creative Design. Successfully Engineered.

CONTRACT NO.

14315 Jarrettsville Pike, Phoenix, MD 21131-0249

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ADJOINING PROPERTY INFORMATION

- 00004800	AS-BUILT PER RECORD P	RINT		REVISION		DATE	BY	P. W. A. NO.		KEY SHEETS	Position sheets	DRAN	WING SCALE	DEPARTMENT OF PUI	BLIC WORKS
OF MARK	DRAFTSMAN	DATE						N/A				PLAN :	<u> " = 50'</u>		
								RIGHT OF WAY		I NM	17 NE 30	PROFILE :	H: I" = 50'	APPROVED	DIRECTOR
LAS CONTRACTOR OF THE PARTY OF													<u>V:  " = 5'</u>	DATE	
No de application of the second	SITE RESOURCES	, INC	DSGN BY:	MAS	Bureau of end and constr	GINEERING RUCTION	BUILDINGS	HIGHWAYS	STRUCTURES	S STORM DRAINS	SEWER	WATER			
ONAL CONTRACTOR	ENCINEER- MARK SHIFFI ETT		DWN DV	RSW FAM PCS	REVIEW	/ED									

BALTIMORE COUNTY	DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING & CONSTRUCTION	
	ROAD PLAN AND PROFILE	

HONEYCOMB ROAD								
FROM INTERSECTION	OF COMPASS F	ROAD AND RO	•	ROAD TO	50' WEST	OF VENTUR		

FROM INTERSECTION OF COMPASS ROAD AND HONEYCOMB ROAD TO 50' WEST OF VENTUR	र।
ROAD	
SUBDIVISION: VICTORY VILLA ELEMENTARY SCHOOL, MIDDLE RIVER	ELECT. DISTRI

	ROAD				
				ELECT. DISTRICT NO	). 150
•				·	

	WORE CO.	Job Order No.	
		210-205-5904	
		SHEET 2 OF 2	
		DRAWING NO.	
	APVIND	2016-2259	
NO. 15C6		FILE NO. 5	REV 05/0

SHEET DESIGNATION

ROAD CONSTRUCTION DRAWING STANDARD NOTES

THE CONTRACTOR SHALL MAINTAIN, REPAIR, AND/OR REPLACE ANY EXISTING SEDIMENT

UNDER THIS CONTRACT, AND AS SHOWN ON THE APPROVED SEDIMENT CONTROL PLAN AS

PART OF THE CONTRACT DOCUMENTS. AT THE END OF EACH DAY, ALL SUCH DISTURBED

COST OF PERFORMING THE WORK, INCLUDING MATERIALS, SHALL BE PAID FOR BY A LUMP

ACCORDANCE WITH BALTIMORE COUNTY SOIL CONSERVATION DISTRICT PERMIT NUMBER 191

3. ALL CONSTRUCTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH BALTIMORE COUNTY

STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (FEBRUARY 2000, AS

4. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT (800) 257-7777 AT LEAST 72 HOURS

INSTALLATION OF ALL WORK SHOWN ON THESE PLANS. ALL UTILITIES SHALL BE FULLY

7. CURB DEPRESSIONS FOR HANDICAP RAMPS SHALL BE PLACED AT ALL INTERSECTION

8. RAMPS SHALL BE PROVIDED FOR PHYSICALLY HANDICAPPED PERSONS AT ALL STREET INTERSECTIONS. THE RAMPS SHALL HAVE DETECTABLE WARNING AREAS AND SHALL BE

9. ALL PERMANENT STREET SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL

ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD). ALL SIGNS SHALL BE INSTALLED AS PER THE LATEST BALTIMORE COUNTY SIGN INSTALLATION

MANUAL. FOR A COPY OF THE MANUAL, PLEASE CONTACT THE BUREAU OF TRAFFIC

FURNISHING AND PLACING OF SIGNS, COMPLETE IN PLACE, AS SHOWN, SPECIFIED OR

12.EXISTING CURB AND GUTTER AND/OR SIDEWALK SHALL BE REMOVED TO THE NEAREST

II. CONTRACTOR SHALL ADJUST ALL TOPS OF ALL MANHOLES, INLETS AND VALVES LOCATED

JOINT AND BE REPLACED AS REQUIRED WITH EQUAL OR BETTER MATERIALS, AS DIRECTED

PAVING SECTION WITH STONE BASE

TYPICAL PAVING SECTION

DETAIL BA.CO. STD R-2

BALTO. CO. 7"

2.0% SLOPE ----

PER BA.CO. STD. -

DATE: <u>06/10/18</u> LIC. NO.: <u>45542</u> CHKD BY: <u>FPB</u>

STD R-21 CURB & GUTTER

ON 3" GAB  $_{
m -}$ 

TYPICAL SECTION

HONEYCOMB ROAD (NOT TO SCALE)

SUBGRADE: SEE NOTE 5 ON STANDARD DETAIL R-2B COURSE THICKNESS, Inches Surface Course Base Course Stone Base

SUPERPAVE SURFACE COURSE: 9.5 mm LEVEL 1 PG 64-22 SUPERPAVE BASE COURSE: 12.5 mm LEVEL 1 PG 64-22

TOP OF PROPOSED CURB SIDEWALK

REFERENCE DRAWINGS

56-461

92-577

UNKNOWN

2016-2254

56-2414, 56-2402

2016-2256, 2016-2257

2016-2258, 2016-2259

EX. WATER

EX. ROAD

PROP. WATER

PROP. ROAD

EX. 8" FM WATER

EX. STORM DRAIN

PROP. STORM DRAIN

STONE BASE: 4" GRADED AGGREGATE BASE (GAB)
TYPE ASTM D2940

STONE SUB-BASE: VARIOUS DEPTH GAB, GASB, CR-6 OR CR-1

IO.THE PRICE BID FOR PERMANENT STREET SIGNS SHALL INCLUDE THE COSTS FOR

CURB RETURNS. THE COST SHALL BE INCLUDED IN THE PRICE OF OTHER ITEMS BID.

6. THE CONTRACTOR SHALL USE EXTREME CAUTION DURING EXCAVATION AND/OR

CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL R-36A OR R-36B.

ENGINEERING AND TRANSPORTATION PLANNING AT 410-887-3554.

13. TRENCH REPAIR SHALL BE AS PER STANDARD DETAIL R-38.

PRIOR TO STARTING EXCAVATION.

5. THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES.

PROTECTED FROM DAMAGE OR INTERRUPTION.

WITHIN THE ROADBEDS TO FINAL GRADE.

LL AND RESURFACE AS DIRECTED

PROFESSIONAL CERTIFICATION

BY ENGINEER IN FIELD -

\*\* VARIES, SEE PLAN AND SECTIONS

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED

PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF

MARYLAND, LICENSE NO. 45542, EXPIRATION DATE: 06/10/2018

OR APPROVED BY ME, AND THAT I AM A DULY LICENSED

BY THE ENGINEER IN THE FIELD.

DEVICES SHALL BE REPAIRED OR REPLACED BEFORE LEAVING THE WORK SITE. THE

SUM BID FOR MAINTENANCE AND REPAIR OF SEDIMENT CONTROL DEVICES.

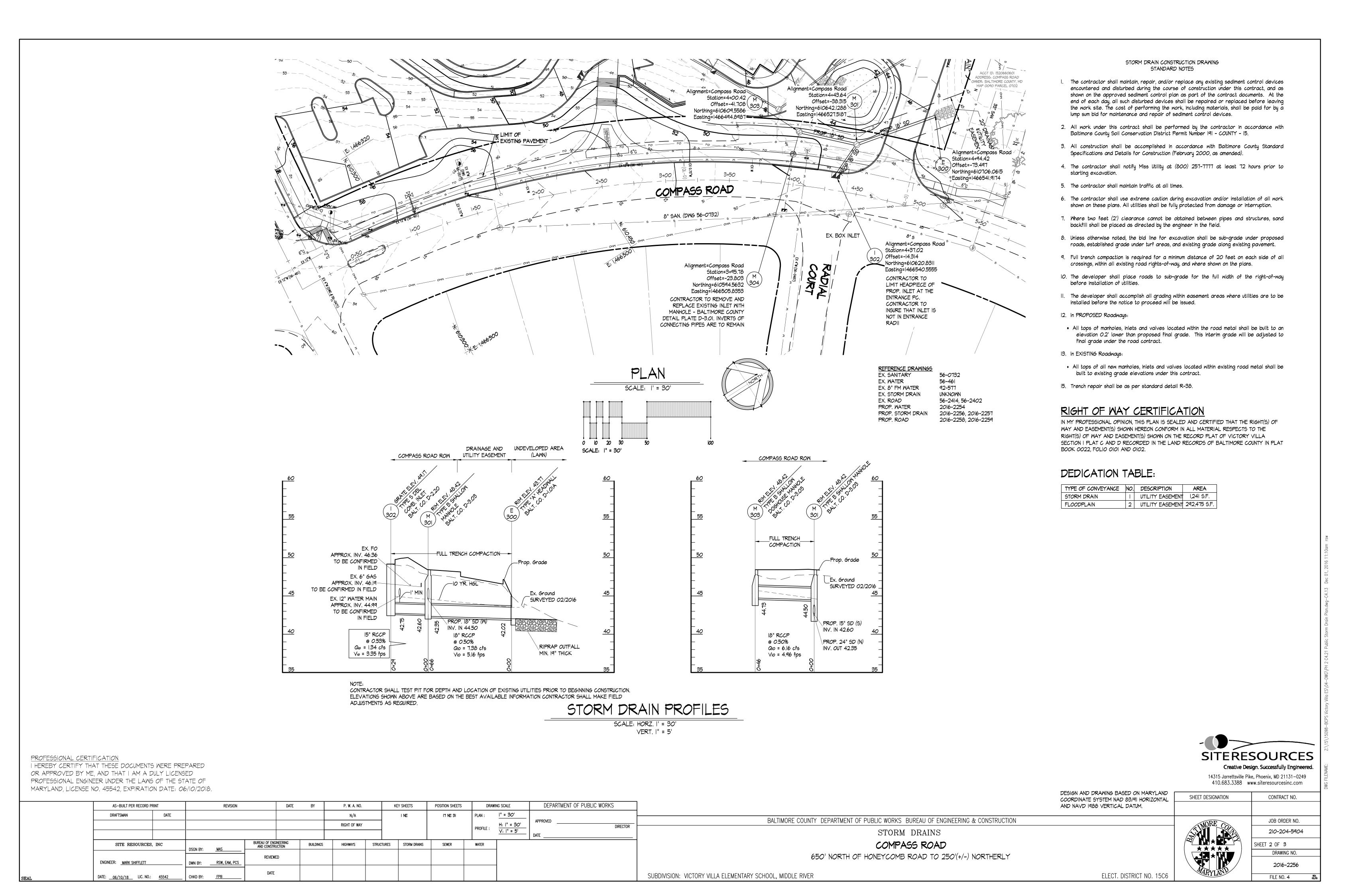
2. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY THE CONTRACTOR IN

CONTROL DEVICES ENCOUNTERED AND DISTURBED DURING THE COURSE OF CONSTRUCTION

MIDDLE

PROJECT NO: 1512
DRAWN BY:
CHECKED BY:
COMPASS ROAD

STORM DRAIN PLAN
SHEET
C4\_13



HONEYCOMB ROAD STORM DRAIN PLAN

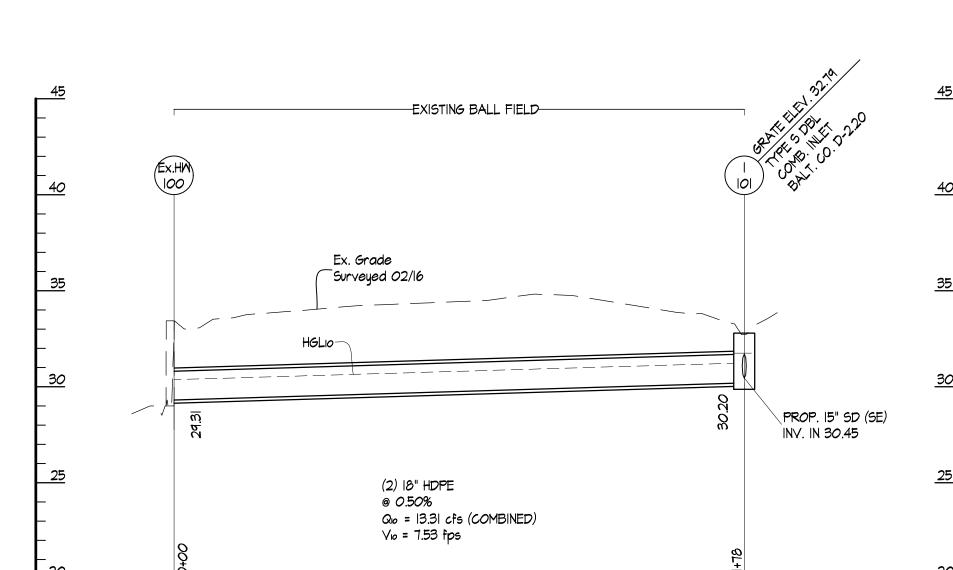
### STORM DRAIN CONSTRUCTION DRAWING STANDARD NOTES

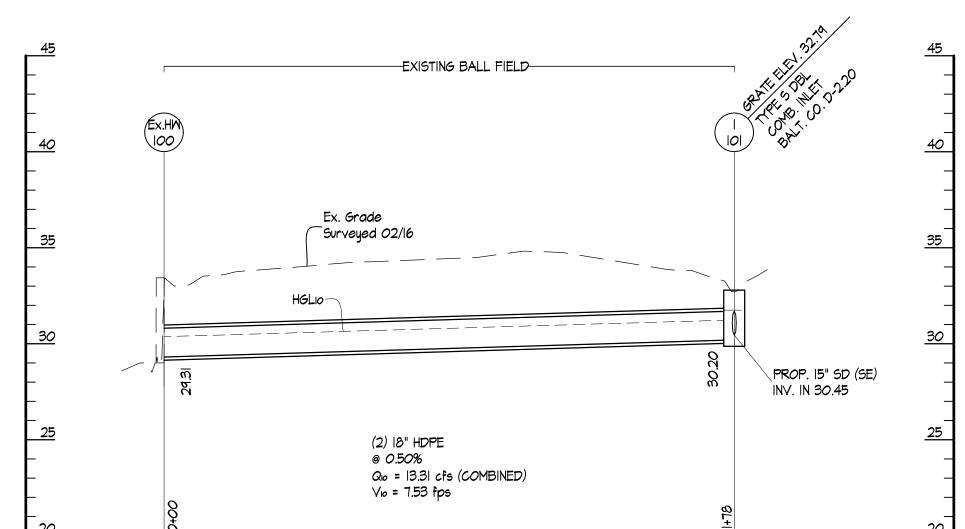
- encountered and disturbed during the course of construction under this contract, and as shown on the approved sediment control plan as part of the contract documents. At the end of each day, all such disturbed devices shall be repaired or replaced before leaving the work site. The cost of performing the work, including materials, shall be paid for by a lump sum bid for maintenance and repair of sediment control devices.
- 2. All work under this contract shall be performed by the contractor in accordance with
- 3. All construction shall be accomplished in accordance with Baltimore County Standard
- 4. The contractor shall notify Miss Utility at (800) 257-7777 at least 72 hours prior to
- 6. The contractor shall use extreme caution during excavation and/or installation of all work
- 7. Where two feet (2') clearance cannot be obtained between pipes and structures, sand
- 8. Unless otherwise noted, the bid line for excavation shall be sub-grade under proposed

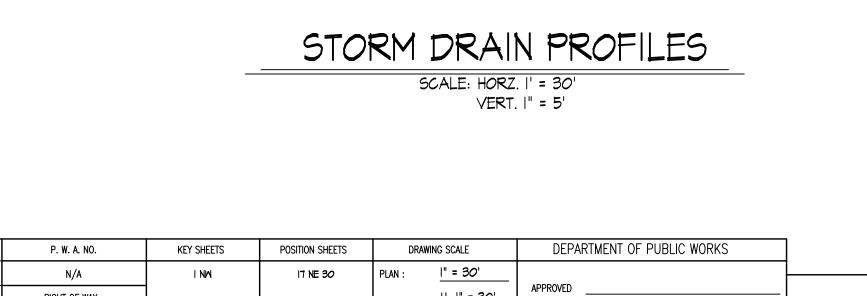
- final grade under the road contract.
- All tops of all new manholes, inlets and valves located within existing road metal shall be built to existing grade elevations under this contract.
- 15. Trench repair shall be as per standard detail R-38.

REFERENCE DRAWINGS EX. SANITARY EX. WATER EX. 8" FM WATER 92-577 EX. STORM DRAIN UNKNOWN EX. ROAD 56-2414, 56-2402 PROP. WATER 2016-2254 2016-2256, 2016-2257 PROP. STORM DRAIN 2016-2258, 2016-2259 PROP. ROAD

## DEDICATION TABLE:







WITH 12 INCHES IN BETWEEN OUTSIDE SURFACES OF PIPES. FILL VOIDS IN HEADWALL PENETRATION BETWEEN AND AROUND PIPES W/ CONCRETE (4,000 PSI). SEE REBAR ADJUSTMENT DETAIL FOR EXISTING AND PROPOSED REINFORCING OF EX. CONC. HEADWALL

COORDINATE SYSTEM NAD 83/91 HORIZONTAL AND NAVD 1988 VERTICAL DATUM. BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING & CONSTRUCTION STORM DRAINS

FROM 800' +/- WEST OF COMPASS ROAD TO 200' +/- WESTERLY SUBDIVISION: VICTORY VILLA ELEMENTARY SCHOOL, MIDDLE RIVER

EX. 42" RCP —

INV. ELEV. 29.20

APPROX. BOTTOM -

OF HEADWALL

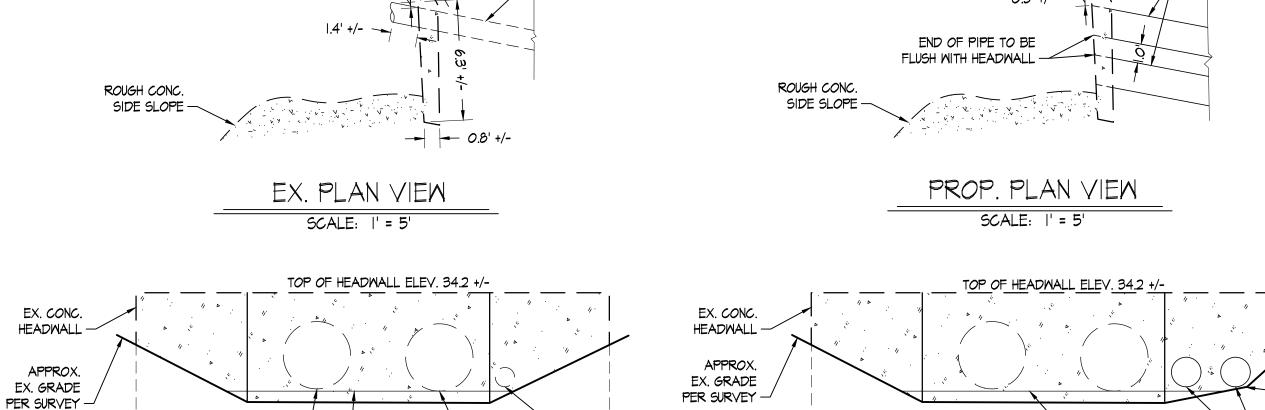
EASEMENT NORTH OF HONEYCOMB ROAD

MARYLAND, LICENSE NO. 45542, EXPIRATION DATE: 06/10/2018

(2) PROP. 18" SD (BY OTHERS) PLAN SCALE: |" = 30'

IOO-YR FLOODPLAIN— AND DRAINAGE AND UTILITY EASEMENT

EX. CONC. HEADWALL -~ EX. |2" RCP TO BE REMOVED 0.3' +/-EX. PLAN VIEW TOP OF HEADWALL ELEV. 34.2 +/-



EX. 42" RCP APPROX. BOTTOM -WATER LEVEL INV. ELEV. 29.31 WATER LEVEL INV. ELEV. 29.31 INV. ELEV. 29.09 OF HEADWALL TO BE REMOVED EX. ELEVATION SCALE: | ' = 5' VIEM: FRONT OF HEADWALL SCALE: |' = 5' VIEM: FRONT OF HEADWALL

REBAR ADJUSTMENT

SURROUND EACH PIPE WITH #5 EPOXY COATED BAR ON EACH FACE.

3. TIE NEW REBAR TO EXISTING REBAR AT ALL POINTS OF CONNECTION

WITH COATED TIE WIRES IN A FIGURE EIGHT CONFIGURATION. 4. REMOVE EXISTING REBAR ONLY IN AREA REQUIRED TO INSTALL

PROPOSED PIPES THROUGH HEADWALL. EXPOSE AND RETAIN EXISTING REBAR AROUND PROPOSED PIPES IN ORDER TO TIE OFF

DETAIL IS SHOWN FACING BACK OF HEADWALL

EX. CONC. HEADWALL

NEW REBAR.

CONCRETE HEADWALL DETAILS NOTE: ENLARGE EX. 12" PIPE PENETRATION THROUGH EX. CONC. HEADWALL TO RECEIVE 2-18 IN STORM DRAINS **SITERESOURCES** Creative Design. Successfully Engineered.

DESIGN AND DRAWING BASED ON MARYLAND

SHEET DESIGNATION

- EX. 42" RCP

ELECT. DISTRICT NO. 15C6

210-204-5904 SHEET 3 OF 3 DRAWING NO. 2016-2257 FILE NO. 4

CONTRACT NO.

14315 Jarrettsville Pike, Phoenix, MD 21131-0249 410.683.3388 www.siteresourcesinc.com

TO BELOW PROP. PIPE

# 1. The contractor shall maintain, repair, and/or replace any existing sediment control devices

- Baltimore County Soil Conservation District Permit Number 191 COUNTY 15.
- Specifications and Details for Construction (February 2000, as amended).
- starting excavation.
- 5. The contractor shall maintain traffic at all times.
- shown on these plans. All utilities shall be fully protected from damage or interruption.
- backfill shall be placed as directed by the engineer in the field.
- roads, established grade under turf areas, and existing grade along existing pavement.
- 9. Full trench compaction is required for a minimum distance of 20 feet on each side of all crossings, within all existing road rights-of-way, and where shown on the plans.
- 10. The developer shall place roads to sub-grade for the full width of the right-of-way before installation of utilities.
- II. The developer shall accomplish all grading within easement areas where utilities are to be installed before the notice to proceed will be issued.
- 12. In PROPOSED Roadways:
- All tops of manholes, inlets and valves located within the road metal shall be built to an elevation 0.2' lower than proposed final grade. This interim grade will be adjusted to

TYPE OF CONVEYANCE	NO.	DESCRIPTION	AREA
STORM DRAIN		UTILITY EASEMENT	1,241 S.F.
FLOODPLAIN	2	UTILITY EASEMENT	292,475 S.F.

## RIGHT OF WAY CERTIFICATION

HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED

@IN MY PROFESSIONAL OPINION, THIS PLAN IS SEALED AND CERTIFIED THAT THE RIGHT(S) OF WAY AND EASEMENT(S) SHOWN HEREON CONFORM IN ALL MATERIAL RESPECTS TO THE RIGHT(S) OF WAY AND EASEMENT(S) SHOWN ON THE RECORD PLAT OF VICTORY VILLA SECTION I PLAT C AND D RECORDED IN THE LAND RECORDS OF BALTIMORE COUNTY IN PLAT BOOK 0022, FOLIO 0101 AND 0102.

PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF

PROFESSIONAL CERTIFICATION

AS-BUILT PER RECORD F	PRINT		REVISION		DATE	BY	P. W. A. NO.		KEY S	SHEETS	POSITION SHEETS	DRA	WING SCALE	DEPARTMEN	IT OF PUBLIC WORKS
DRAFTSMAN	DATE						N/A		I	NM	17 NE 30	PLAN:	<u> " = 30'</u>		
							RIGHT OF WAY	IGHT OF WAY			1	PROFILE :	H: I" = 30'	APPROVEDDIRE	
												T NOTICE :	V: I" = 5'	DATE	
SITE RESOURCES	, INC	DSGN BY:	MAS	Bureau of Eng And Constri		BUILDINGS	HIGHWAYS	STRUCT	URES	STORM DRAINS	SEWER	WATER			
ENGINEER: <u>Mark Shifflett</u>		DWN BY:	RSW, EAM, PCS	REVIEWI	ED										
DATE: <u>06/10/18</u> LIC. NO.:	45542	CHKD BY:	FPB	DATE											

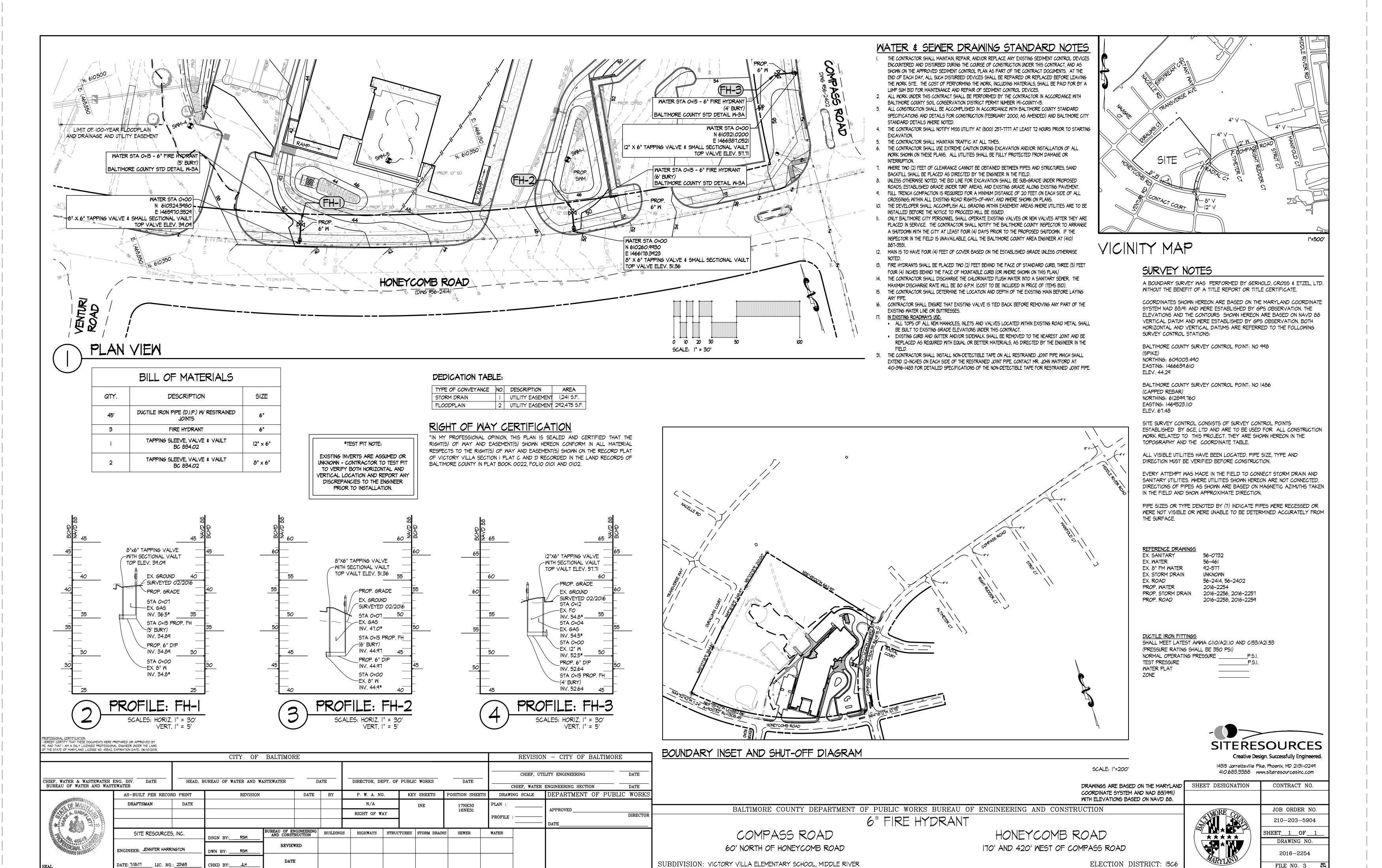
PROJECT NO: 15123

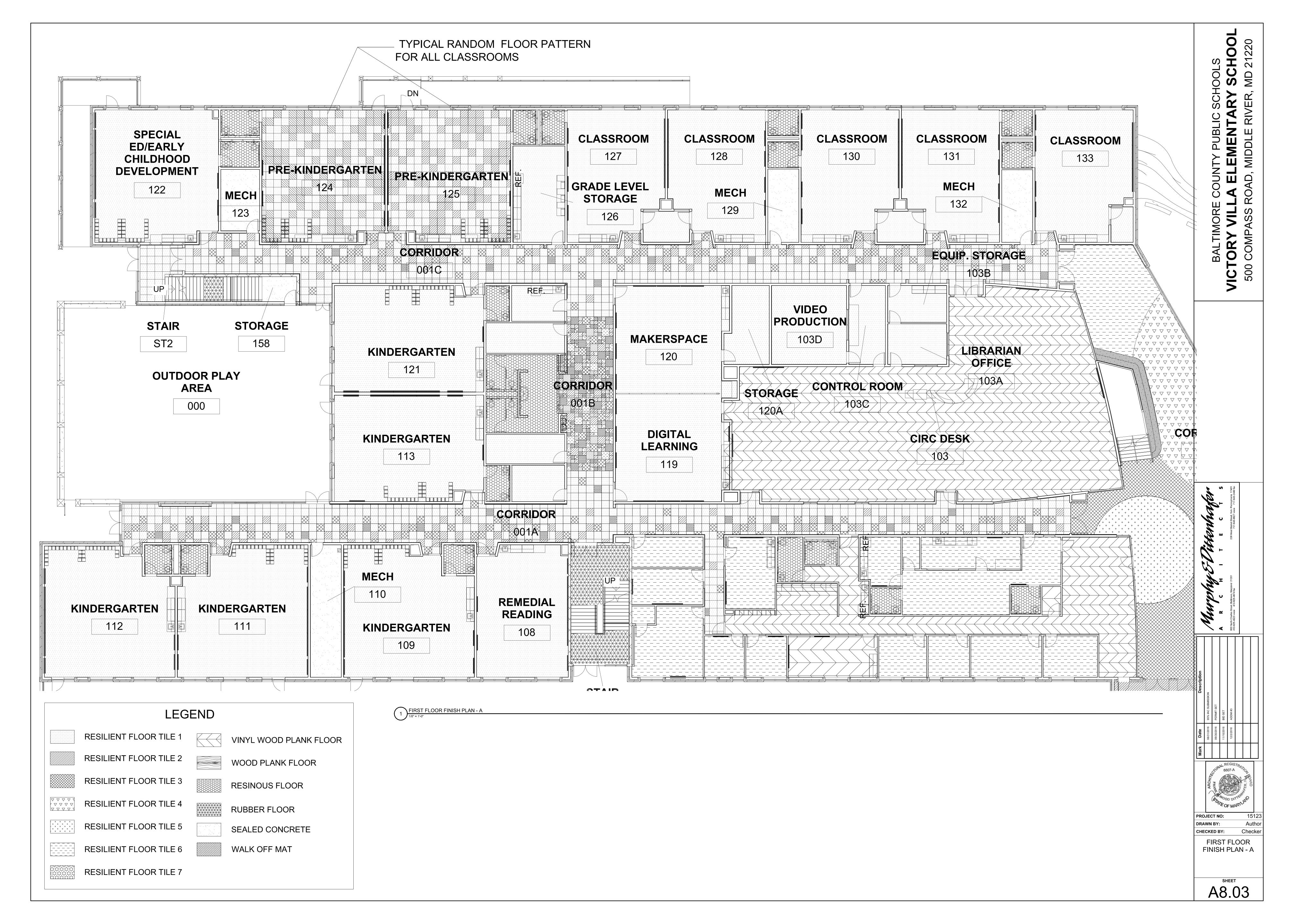
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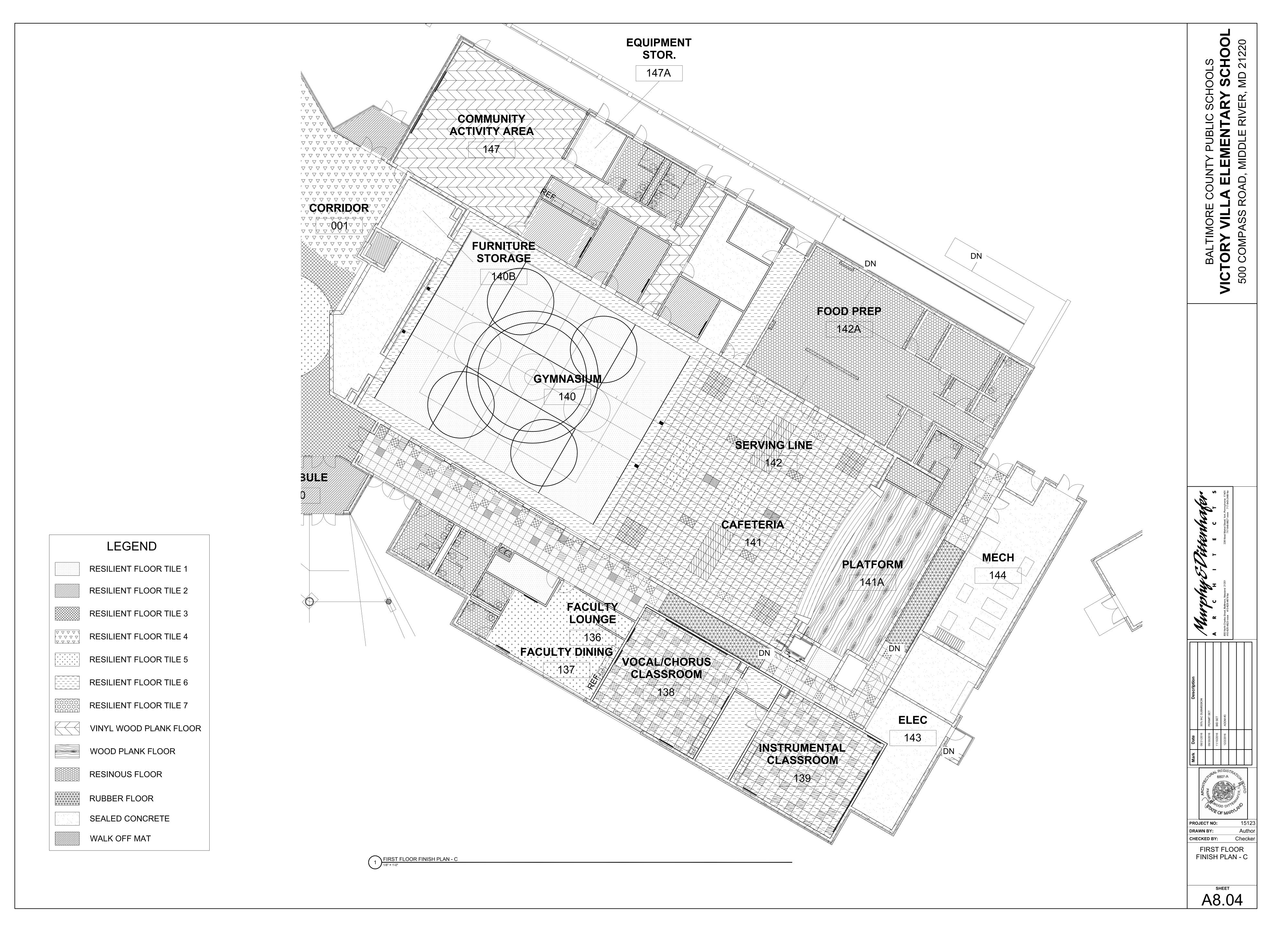
CHECKED BY: FPE

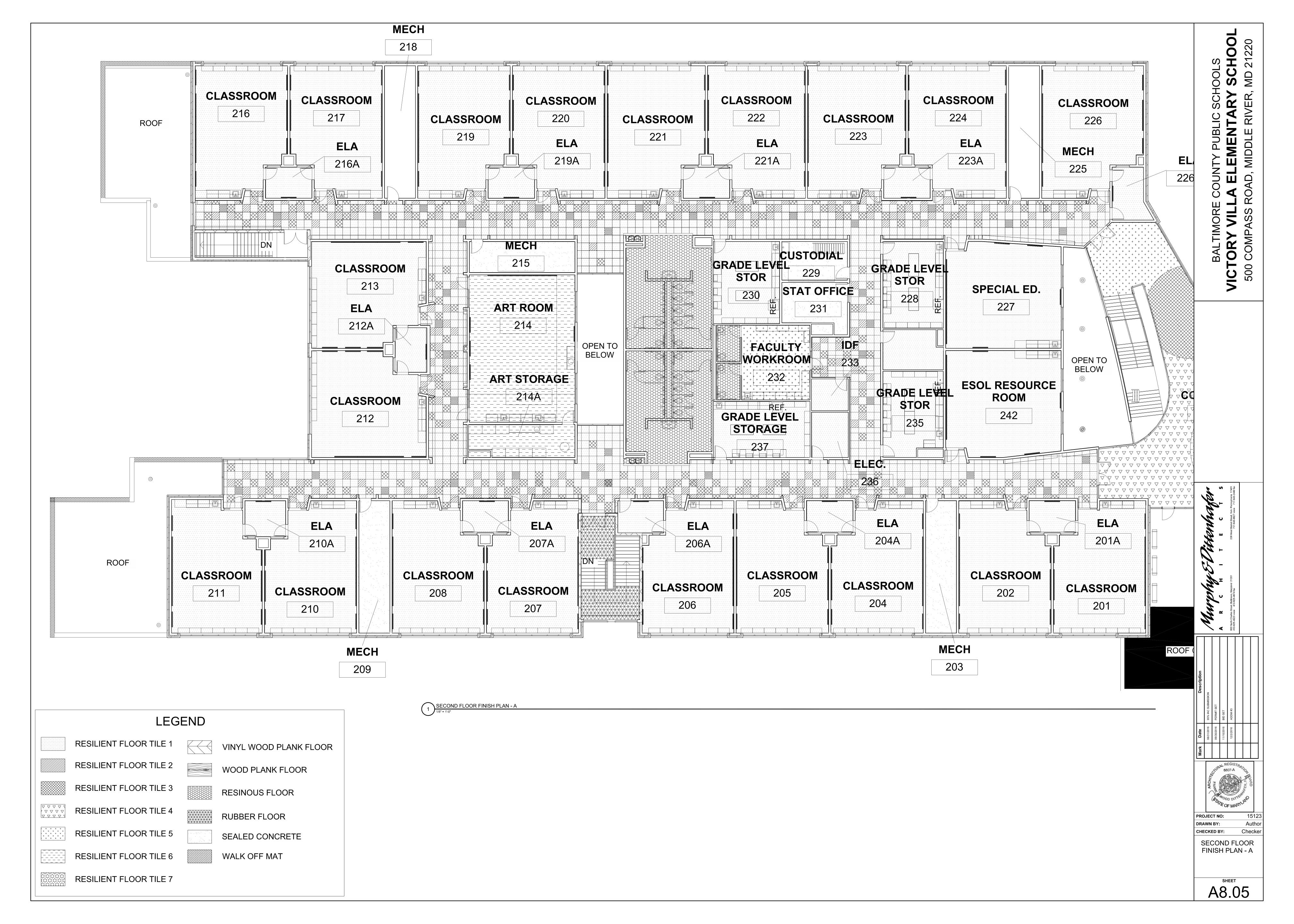
PLAN
SHEET
C5.01

**PUBLIC WATER** 

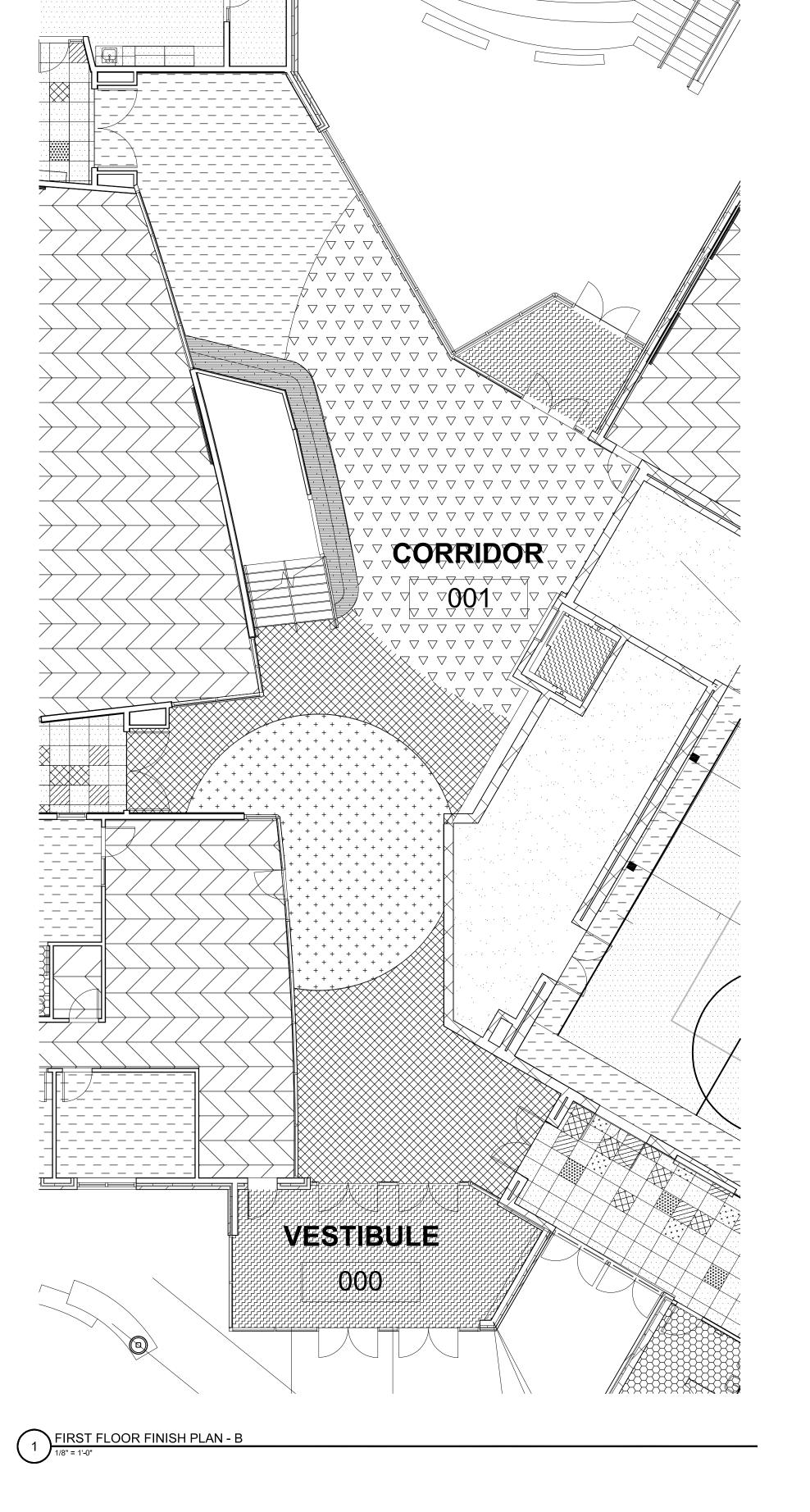


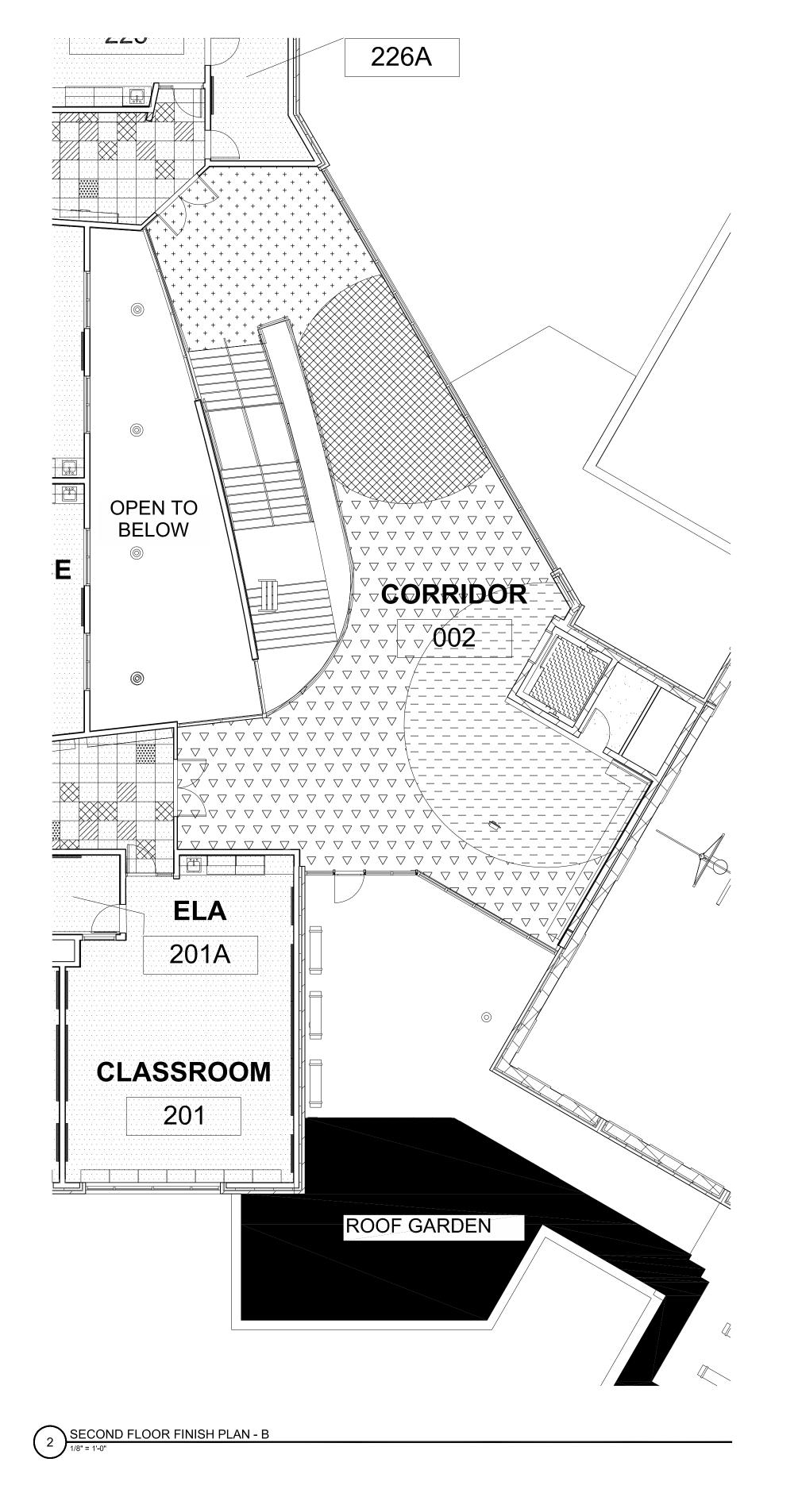














RESILIENT FLOOR TILE 1

RESILIENT FLOOR TILE 2

RESILIENT FLOOR TILE 3

RESILIENT FLOOR TILE 4

RESILIENT FLOOR TILE 5

RESILIENT FLOOR TILE 6

RESILIENT FLOOR TILE 7

VINYL WOOD PLANK FLOOR

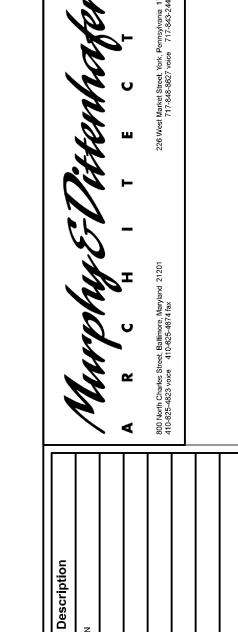
WOOD PLANK FLOOR

RESINOUS FLOOR

RUBBER FLOOR

SEALED CONCRETE

WALK OFF MAT



PROJECT NO: 151

DRAWN BY: Authorized Author

FINISH FLOOR PLANS - B

A8.06