



PURCHASING DEPARTMENT
DIVISION OF BUDGET & FINANCE

PUR-1401
ADDENDUM NO. 5
INVITATION TO BID

WASHINGTON COUNTY PUBLIC SAFETY TRAINING CENTER

DATE: Thursday, September 10, 2020

BIDS DUE: Wednesday, September 16, 2020

(Revised Date via Addendum No.2) 2:00 P.M., (EST/EDT)

To Bidders:

This Addendum is hereby made a part of the Contract Documents on which all bids will be based and is issued to correct and clarify the original documents.

Please acknowledge receipt of this Addendum at the appropriate space on the Proposal Form. This Addendum consists of nine (9) pages and (11) attachments.

NOTE: Washington County government has limited access to the Washington County Administration Complex at 100 West Washington Street, Hagerstown, Maryland until further notice. All Bidders shall allow ample time for delivery of their bid packets. Delivery of bid packets via-courier service or United States Postal Service (USPS) will be accepted. For those bidders who wish to deliver their bid packet in person will need to call 240-313-2330 to schedule an appointment.

ITEM NO. 1: Inquiry: Spec section 122413, Part 1, 1.2, 2, a. – calls out Dual Roller Shades at Exterior Window Locations in Small Classroom B109. Per floor plan 1/A1.4 – there are no Exterior Windows shown. Are we to install shades on the interior window H3 in this room?

Clarification to Addendum No. 4, Item No. 11: Refer to the bid document, Specifications to **DELETE** the requirement for dual shades in B109. **Yes, shades shall be provided for interior window H3.**

ITEM NO. 2: Inquiry: What material are the countertops in Storage B103, Storage B111, Storage B113 and Storage B101? I do not see where it tells us if it is quartz, solid surface or plastic laminate.

Response: All countertops are plastic laminate unless noted otherwise.

ITEM NO. 3: Inquiry: Are the Bollards at the propane tank to be Type 'A' 'B' or 'C'?

Response: Type "A" bollards. Type "A" bollards shall be **CHANGED** to 6" diameter.

100 West Washington Street, Room 3200 | Hagerstown, MD 21740-4748 | P: 240.313.2330 | F: 240.313.2331 | TDD: 711

ITEM NO. 4: Inquiry: What type of bollards are required at the transformer? Do they need covers or paint finish?

Response: Furnish/install bollard type with covers as required by the power company. See Electrical drawings for additional information.

ITEM NO. 5: Inquiry: Please clarify what site signs were installed in phase 1 (stop signs etc.) and what signs we need to include in this phase.

Response: The Contractor on this project is responsible for ADA accessible signs in the parking lots and street name signs. All other signs were included in the separate site package contract previously awarded.

ITEM NO. 6: Inquiry: Drawing A4.4 calls for Type 'B' bollards at the dumpster enclosure (Type B are stainless steel). The civil drawings call for Type A with the plastic covers. Please clarify.

Response: The Contractor shall furnish/install Type "C" in this location.

ITEM NO. 7: Inquiry: Please provide a sidewalk concrete detail showing expansion joint spacing, reinforcing requirements, at concrete type.

Response: See concrete sidewalk detail, Attachment "A". Scoring of concrete at main entrance to be as directed in field by the County using the minimum requirements provided.

ITEM NO. 8: Inquiry: Specification Section 011000, page 4, item K tells us to provide wearing course on all existing paving. Does this include the additional paving added along Sharpsburg pike as seen on drawing C1.02? Or was the wearing course along the road completed in the first phase as part of the HOP permit?

Response: Paving along Sharpsburg Pike has been completed and is not part of this contract. The Contractor is responsible for a neat/clean tie-in with the paving already completed along Sharpsburg Pike.

ITEM NO. 9: Inquiry: The wall sections on A2.2 call for the roof to receive "3" concrete Roof". Drawing S0.02 under concrete slabs on permanent steel form says "The Floor Slabs on Permanent Steel Form shall be 5" in Overall Depth...". Please clarify the thickness of the concrete on the roof (future floor slab).

Response: The thickness of the concrete on metal deck for the roof (future second floor) to be 3".

(NOTE: The wording of all "Inquiries" submitted are displayed exactly as received.)

ITEM NO. 10: Inquiry: Do the allowance amounts listed in specification section 012100 include the cost of material and labor, or are we do add additional labor to our bid for the installation of the items purchased with the allowance amounts?

Response: The allowance amounts only include the cost to purchase materials. All other costs are to be included in the base bid.

ITEM NO. 11: Inquiry: Do you have a pdf for doc I4.1 - I7.3? It's for the ADA room signage? Saw this in the Appendix.

Response: Pdf plans were provided with the bid documents. See Drawing A6.2 for Signage Schedule.

ITEM NO. 12: Inquiry: Will the conduits feeding the floor boxes in Rooms A134, B102, B106, B110, B112, B116 and B119 be installed in slab on grade? If so, the County's preferred manufacturer recommends the following:

"Install OSP cable in the conduits, terminate / transition the cables at the conduit stub up to plenum rated cables, per BICSI, TIA and NEC guidelines." Is this the preferred method of installation?

Response: On the power and low voltage sides, the specifications state the ENT shall be run in slab and to transition to GRC before coming up into the wall.

ITEM NO. 13: Inquiry: What version of Genetec software is currently running? Please verify.

Response: Washington County current uses Genetec Software Version 5.7; however, the Contractor shall work with the County Information Technologies (IT) Department to program items in and the IT Department will install the latest version.

ITEM NO. 14: Inquiry: Is security contractor responsible to provide IDS system in this project? Please verify if yes which manufacturer that owner wish to install?

Response: Contractor shall provide Ademco Vista 128BP or approved equal by NAPCO, DMP, DSC or other approved equal, prior to submittal. Intrusion Alarm System shall be non-proprietary installation, being able to be provided by any qualified security contractor.

ITEM NO. 15: Inquiry: Do you have IDS drawings that indicate IDS components that you wish for security contractor to install? Please verify.

Response: Contractor shall provide a complete and operational intrusion detection system. Provide Dual Technology Motion Detectors (Ademco DT8050 series or approved equal) in all corridors, provide recessed door contacts on EACH exterior door (separate from access control door contact), provide communications module to

communicate with Washington County 9-1-1 center (Ademco IPCOMM or approved equal), provide four (4) command stations LCD keypads at Security Vestibule A100, Near Exterior Door at Corridor A119 and Near Exterior Door at Corridor B104 and on the IDS panel. Provide Security Alarm Control Panel in Server Room A115. Provide 120-volt power and CAT6 Data cable to Digital Communicator. Provide all shop drawings, product data, testing, Contact ID programming, 1-year Guarantee, demonstration, training and As-Built drawings.

ITEM NO. 16: Inquiry: Vision Tech is proposing each camera will be recording at 5MP resolutions, 30 fps, continuous recording, 24/7, and 30days video retention. Is it acceptable? Please confirm.

Response: The above recording requirements are correct plus 20% spare capacity per spec 281000-2.1 B. Contractor shall be a qualified Genetec authorized vendor approved by Washington County.

ITEM NO. 17: Inquiry: Project Table of Contents page 8 lists Section 27 4100 Schedule A Equipment List, and Schedule A is referenced in 27 4100 Part 3 Products 3.1 A. Reference Schedule A "Equipment List", however only Section 27 4100 is in Volume 3 of the spec book. Please provide Schedule A Equipment List.

Response: Refer to response to ITEM NO. 1 in Addendum No. 4.

ITEM NO. 18: Inquiry: On the bid form page 005000-7 and 8, under the Corporate Principal signature section. Is the line spacing 'off'? Sorry just want to be sure and clarify if you require 1 officer (President/V.P.) signature with a witness (Corp. Sec./ Asst. Corp. Sec.) or 2 officer signatures and a witness and of course the notary.

Response: An Officer's signature is required under the Corporate Principal signature with a witness and a notary seal/signature.

ITEM NO. 19: Inquiry: Do you require a signature from the Corporate Secretary and the President on page 7 and also a Witness/attest on page 8? The form or formatting is confusing as there is a line for the Corporate Secretary first before the 'By' line where the President normally signs. May we strike out the words "Corporate Secretary" and type the President or Vice President's name on that line on page 7 and have the President or Vice President sign beside the "By" line? Then have the Corporate Secretary or Asst. Corp. Sec. sign on page 8 in the witness section? Or can you modify the form and reissues those 2 pages? See Attached.

Response: No, do not change the Form of Proposal.

ITEM NO. 20: Inquiry: Are the OD-1's an actual overflow roof drain with a 3" dam or a simple pipe stub 3" above roof level?

Response: OD-1 (as specified on the plumbing fixture schedule) is an overflow roof drain (with 2" dam).

ITEM NO. 21: Inquiry: Is the intent to have the down spout boots furnished and installed by the site contractor as there is nothing shown on the "P" Drawing relative to D.S. Boots?

Response: Down spouts and boots shall be furnished/installed under this contract. Coordinate with the General Contractor who is responsible to provide them.

ITEM NO. 22: Inquiry: We are in receipt of addendum no. 4. In regarding to item no. 32 regarding warranty term. Thank you for your reference to Bid document, Section 007000, however, that section doesn't clarify if the warranty period is 1 or 2 years. Section 007000 is the general conditions. I reviewed paragraph 3.5 warranty and no warranty term is stated. I reviewed the supplementary conditions and no warranty information is modified. There is no warranty term in the performance bond nor the remainder of the specs. Please provide warranty term specifically to terms to general conditions section 007000 page 13, para 3.5.

Response: The general warranty term is for one-year.

ITEM NO. 23: Inquiry: Room Finish Schedule calls for PT-1 to be used for a base as well as a floor tile. Is PT-1 to be a 6"x12" cove base or a 6"x24" floor tile?, as a cove base was not mentioned in the spec section.

Response: The base trim for PT-1 to be 6"x12" cove base.

ITEM NO. 24: Inquiry: Spec says... A twenty-four strand OM3 50/125-micron multimode fiber optic backbone is employed between the data MC and each TC for data connectivity within the data MC and the TCs, backbone fiber strands are terminated and housed in rack-mount fiber optic enclosures but prints says...(1)50 pr cat 6 for voice, (1) 24 strand OM3 and (1) 24 strand Single mode fibers, (1) 25 pr cat 6 for intercom and 2 cat 6 for data between MDF and each IDF.

Response: Refer to Sheet T3.1 Detail #5 Telecom Riser Diagram notes 1,2,3 including previous inquiry responses.

ITEM NO. 25: Inquiry: Is there a option for fusion spliced fiber ends?

Response: Provide fiber splicing and terminations per specifications. Fusion splicing shall be only allowed at specific applications approved by Washington County.

ITEM NO. 26: Inquiry: For the IDF's are the racks free standing or wall mount?

(NOTE: The wording of all "Inquiries" submitted are displayed exactly as received.)

Response: Provide Great Lakes floor mounted racks per spec 271500-2.17.

ITEM NO. 27: Inquiry: Per engineering notes on prints, "the A/V equipment will be submitted at a later date". When is this date?

Response: This is still to be determined.

ITEM NO. 28: Inquiry: Is there a contact at Washington County that may have an idea of what they want in terms of brands and desires regarding the A/V equipment?

Response: This will be determined at a later date.

ITEM NO. 29: Inquiry: Item No. One of Addendum 4 - we aren't doing the AV section now?

Response: Refer responses to Items No 1 and 29 in Addendum No 4.

ITEM NO. 30: Inquiry: We have been asked by a GC to quote the commissioning services for this project. How can I obtain a list of the GC's who may be bidding this project.

Response: Please see an updated Plan Holders List, Attachment "K".

ITEM NO. 31: Inquiry: Are the two roof top units to have vibration isolation rails between the roof curb and the unit its self? Please advise.

Response: Vibration isolation rails are not required, but full perimeter neoprene gaskets shall be furnished/installed by the Contractor.

ITEM NO. 32: Inquiry: Prior to sending pricing to any of the potential bidders for the Spacesaver FreeStyle Lockers, I wanted to check to see if the determination has been made if you would like to take advantage of the county purchasing the lockers off an available contract?

I have the ability to use at least Sourcewell and Omnia Partners/National IPA. Which you are already registered for from my research. There may be two other options available as well.

Would you like to utilize these for procurement rather than the using the pricing from the GCs that can't?

Response: No, Bidders shall bid the Invitation to Bid (ITB) specifications are written.

ITEM NO. 33: Clarification: The County is willing to waive the AISC certification requirements for Section 051200 1.6B Fabricator Qualifications if the fabricator satisfies the following requirements. In the event the fabricator does not have AISC certification, the company must provide evidence of a written quality control program which contains all the

elements addressed in the AISC certifications standards; the company must be able to provide work references evidencing they have been working for a least ten years performing work as a structural steel fabricator; and the company must demonstrate previous work experience in delivering a similar scope of work in size and sophistication.

ITEM NO. 34: Refer to the bid document, Section 011000 - Summary of Work, Paragraph 1.3; **CHANGE**, A. to be as follows:

The Project consists of new construction of a public safety training center facility. Generally, the new construction for the low roof area is designed to carry a future second floor and consists of load bearing masonry walls and structural steel, structural steel beams, steel joists, metal deck and concrete roof deck (future second floor), architectural steel roof trusses and acoustical metal roof deck (for high roof areas) rigid roof (at metal standing seam roof) and tapered rigid roof insulation (at PVC roofing), metal standing seam roof, single ply PVC roofing, masonry brick veneer, exterior fiber cement siding and metal soffit system, aluminum windows, storefront and curtain wall systems, casework and interior finishes along with the specified mechanical, electrical, plumbing and fire protection systems, fire alarm and technology (including rough-ins for A/V equipment) and security systems. A separate site package for this project was bid by Washington County and is in its final stages of construction. Site work for this project includes all remaining site work for the project.

ITEM NO. 35: Section 011000 - Summary of Work, Paragraph 1.4.C.3, ADD the following scope of work to be as follows:

1. The Contractor shall furnish/install bicycle rack indicated on Civil drawings.
2. The Contractor shall furnish/install all line striping and pavement markings (double yellow centerline, single white edge lines, and preformed stop bars on entrance roads and single white lines in the parking lots for parking spaces including line striping/markings for ADA parking spaces), as well as provide ADA parking signs and construct concrete safety islands, curbs and sidewalks adjacent to the building as indicated on the contract documents.

ITEM NO. 36: Refer to the bid document, Section 085653, Security Windows; **ADD**, specification section in its entirety, (Attachment B).

ITEM NO. 37: Refer to the bid document, Section 096516, Resilient Sheet Flooring; **CHANGE** the following:

1. Paragraph 2.1.A.1, **CHANGE** to be "Armstrong World Industries, Inc."
2. Paragraphs 2.3.A and B **CHANGE** to be as follows:
 - A. Basis-of-Design Product: Subject to compliance with requirements, provide products equal to Armstrong Medintone w/ Diamond 10 Technology (SV1).

B. Pattern: Medintone w/ Diamond 10 Technology (SV1).

ITEM NO. 38: Refer to the bid document, Section 09656, Athletic Resilient Tile Flooring; **CHANGE** the following:

1. Paragraph 1.2.A, **CHANGE** 1 to be as follows:
 1. Athletic Resilient **Tile** Flooring (ARF).
2. Paragraph 1.7.A, **CHANGE** 1 to be as follows:
 1. Furnish 3% of extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing content.

ITEM NO. 39: Refer to the bid document, Section 312000, Earth Moving, Paragraph 3.2.A, Unclassified Excavation; **CHANGE** beginning of second sentence to be as follows: Where rock **or unsuitable soil** is encountered, include the.....

ITEM NO. 40: Drawing E1.0 – First Floor Plan – Unit A – Power, **CHANGE** the following:

1. NOTES BY SYMBOL, ADD notes 15, 16 and 17 per attached revised drawing.
2. FIRST FLOOR PLAN – UNIT A – POWER, ADD symbols/notes to the floor plan per the attached revised drawing, (Attachment C).

ITEM NO. 41: Drawing E1.1 – First Floor Plan – Unit B – Power, **CHANGE** the following:

1. NOTES BY SYMBOL; **ADD** note 10 per attached revised drawing.
2. FIRST FLOOR PLAN – UNIT B – POWER; **ADD** symbols/notes to the floor plan per the attached revised drawing, (Attachment D).

ITEM NO. 42: Drawing E5.2 – Electrical Schedules, Panel LA SECTION 2; **CHANGE** information on the schedule per attached revised drawing, (Attachment E).

ITEM NO. 43: Drawing E5.3 – Electrical Schedules, Panels LC SECTION 1 and LD SECTION 2; **CHANGE** information on the schedules per attached revised drawing, (Attachment F).

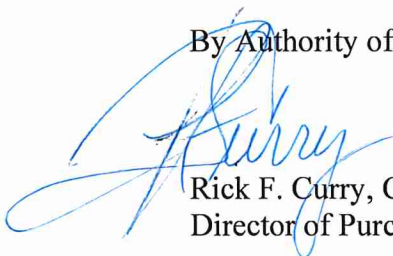
ITEM NO. 44: Clarification: Refer to Drawing I4.3, Large Scale Layout Large Classrooms & Collaborative Learning. **Countertops in Storage B101 and B103 to be plastic laminate.**

ITEM NO. 45: Clarification: Refer to Drawing I4.4, Large Scale Layouts Classrooms – Alternate. **Countertops in Storage B111 and B113 to be plastic laminate.**

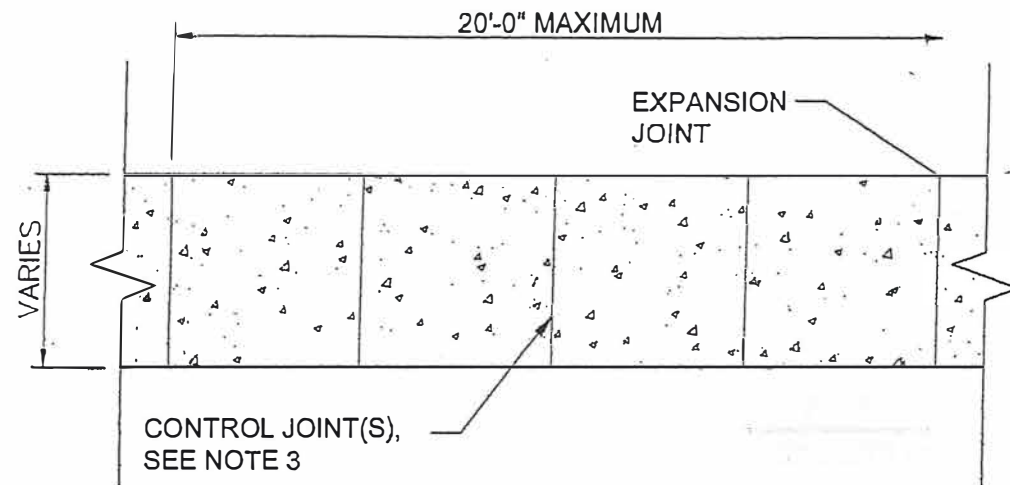
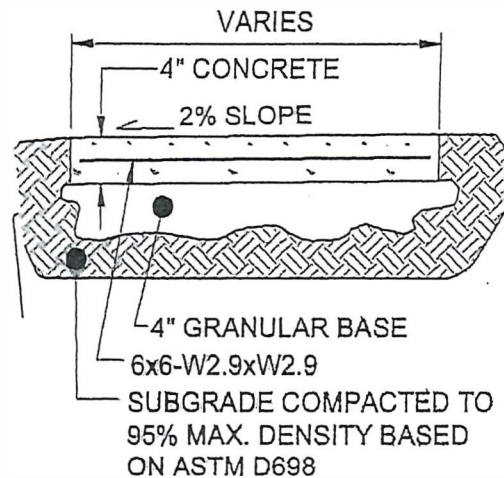
ITEM NO. 46: Drawing S0.02, Structural Notes, CONCRETE SLABS ON PERMANENT STEEL FORMS, REVISE the depth in the first sentence from 5" to be 3". See attached revised drawing, (Attachment G).

- ITEM NO. 47:** Drawing S1.13, Fut. 2nd Floor/ Roof Framing Plan – Area A, ADD and REVISE the following:
1. **ADD** section cuts along column grid “G”. See attached revised drawing.
 2. **CHANGE** beam size along Grid “G” Between Grids 7 and 8. See attached revised drawing, (Attachment H).
- ITEM NO. 48:** Drawing S1.14, Fut. 2nd Floor/ Roof Framing Plan – Area B, FLOOR FRAMING PLAN NOTES, Note #6; **ADD** note to read, “**PROVIDE CEILING EXTENSIONS IN ALL AREAS.**” See attached revised drawing, (Attachment I).
- ITEM NO. 49:** Drawing S5.02, Typical Masonry Wall Details; **CHANGE** and **ADD** the following:
1. Detail 5/S5.02, REVISE note per attached revised drawings.
 2. ADD Detail 10/S5.02 – Beam Bearing on CMU Wall, per attached revised drawing, (Attachment J).

By Authority of:



Rick F. Curry, CPPO
Director of Purchasing



CONCRETE SIDEWALK NOTES:

1. INITIAL SITE CLEARING SHALL CONSIST OF COMPLETE REMOVAL OF TOPSOIL AND ORGANIC MATERIAL TO DEPTHS OF APPROVED AND STABLE SOILS. FORM CONCRETE SIDEWALK AT 5'-0" WIDE OR AS SHOWN.
2. CONCRETE MIX FOR SIDEWALK TO BE 3,500 PSI COMPRESSIVE STRENGTH AT 28 DAYS AND MEETING SHA STD. MIX NO. 3. ALL CONCRETE PLACEMENT SHALL BE DESIGNED IN ACCORDANCE WITH A.C.I. SPECIFICATIONS.
3. PROVIDE CONTROL JOINTS EVERY 5'-0" MAXIMUM. PROVIDE 1/2" EXPANSION JOINT EVERY 20' O/C MAX.
4. PROVIDE 1/2" EXPANSION JOINT FILLER WHERE SIDEWALK ABUTS CURB OR OTHER RIGID STRUCTURE(S)
5. BROOM THE SURFACE WITH A FINE-HAIR BROOM AT RIGHT ANGLES TO THE CENTERLINE, TOOL ALL EDGES, JOINTS AND MARKINGS.
6. EXPANSION JOINTS OF 1/2" (MIN.) RIGID BITUMINOUS MATERIAL SHALL BE PLACED AT 20' SPACING.
7. MARK THE WALK AT 5 FT. INTERVALS WITH A JOINTING TOOL OR AS NOTED ON DRAWINGS.
8. AFTER FINISHING APPLY AN APPROVED CURING COMPOUND. PROTECT SIDEWALK FOR 7 DAYS.

10

CONCRETE DETAILS

NOT TO SCALE

Attachment B

SECTION 085653 - SECURITY WINDOWS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Vision security windows.
 - 2. Fixed, transaction security windows.
 - 3. Speaking Apertures.
- B. Related Requirements:
 - 1. Division 08 Section "General Glazing" for glazing requirements.

1.3 COORDINATION

- A. Coordinate installation of anchorages for security windows. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in adjacent construction. Deliver such items to Project site in time for installation.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, weights and finishes for window units.
- B. Shop Drawings: For security windows.
 - 1. Include plans, elevations, sections, and attachment details.

2. Full-size section details of framing members, including internal armoring, reinforcement, and stiffeners.
 3. Location of weep holes.
 4. Hardware for sliding window units.
 5. Glazing details.
 6. Details of speaking aperture.
- C. Samples for Initial Selection: For frame members with factory-applied color finishes.
- D. Cutaway Sample: Corner of security window, made from 12-inch lengths of full-size components, and showing details of the following:
1. Joinery.
 2. Anchorage.
 3. Glazing.
 4. Flashing and drainage.
- E. Delegated-Design Submittal: For security windows indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified installer.
- B. Welding certificates.
- C. Product Test Reports: Indicating compliance with requirements performed by a qualified testing agency.
- D. Field quality-control reports documenting inspections of installed products.
1. Field quality-control certification signed by Contractor.
- E. Sample Warranty: For special warranty.
- F. Maintenance data.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: An authorized representative who is trained and approved by manufacturer for installation of units required for this Project.
- B. Welding Qualifications: Qualify procedures and personnel according to the following:
1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."

2. AWS D1.2/D1.2M, "Structural Welding Code - Aluminum."
3. AWS D1.3/D1.3M, "Structural Welding Code - Sheet Steel."
4. AWS D1.6, "Structural Welding Code - Stainless Steel."

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Pack security windows in wood crates for shipment. Crate glazing separate from frames unless factory glazed.
- B. Label security window packaging with drawing designation.
- C. Store crated security windows on raised blocks to prevent moisture damage.

1.9 FIELD CONDITIONS

- A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

1.10 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace security windows that fail in materials or workmanship within specified warranty period.
 1. Failures include, but are not limited to, the following:
 - a. Structural failures including deflections exceeding 1/4 inch.
 - b. Failure of welds.
 - c. Excessive air leakage.
 - d. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.
 2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Basis of Design: Design is based on aluminum impact resistant fixed windows, manufactured by C.R. Laurence Co., Inc. Unit to be Model No. N1EW12A Exterior Glazed Narrow Inset Frame Window and have a Stainless Steel Shelf with Non-Ricochet Bullet Resistant Deal Tray.
- B. Frames: Frames are to be constructed of 6063-T5, .125" thick extruded aluminum. Replacement of glazing shall be from the secure side of the window or wall unit and does not require the removal of the frame from the opening. Shapes and sizes are to be in accordance with the contract drawings. Finish: All aluminum to be Satin anodized.

- C. Glazing: Manufacturer's Level 3 Bullet Resistant Glass.
- D. Blast Resistant
 - 1. GSA Building Classifications C Blast Resistant in accordance with GSA PBS-P100 Facilities Standards.

2.2 SPEAKING APERTURE

- A. Basis of Design: C.R. Laurence Co. Catalog Number – N666.
 - 1. Brushed stainless steel or extruded aluminum 6" round Level 3 Bullet Resistant Speak-Thru. Speak hole to be installed 4'-6" above finish floor.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of security windows.
- B. Examine roughing-in for embedded and built-in anchors to verify actual locations of security window connections before security window installation.
- C. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of security windows.
- D. Inspect built-in and cast-in anchor installations, before installing security windows, to verify that anchor installations comply with requirements. Prepare inspection reports.
 - 1. Remove and replace anchors where inspections indicate that they do not comply with specified requirements. Reinspect after repairs or replacements are made.
 - 2. Perform additional inspections to determine compliance of replaced or additional work. Prepare anchor inspection reports.
- E. For factory-installed glazing materials whose orientation (secure or attack side) is critical for performance, verify installation orientation.
- F. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Coordination: Furnish layouts for cast-in-place anchors, clips, and other security window anchors whose installation is specified in other Sections.

1. Furnish cast-in-place anchors and similar devices to other trades for installation well in advance of time needed for coordinating other work.

3.3 INSTALLATION

- A. Install frames and glazing in accordance with manufacturer's printed instructions and recommendations. Repair damaged units as directed (if approved by the manufacturer and the architect) or replace with new units.

3.4 FIELD QUALITY CONTROL

- A. Inspect installed products to verify compliance with requirements. Prepare inspection reports and indicate compliance with and deviations from the Contract Documents.
- B. Perform additional inspections to determine compliance of replaced or additional work. Prepare inspection reports.
- C. Prepare field quality-control certification that states installed products and their installation comply with requirements in the Contract Documents.

3.5 ADJUSTING

- A. Adjust horizontal-sliding, transaction security windows to provide a tight fit at contact points for smooth operation and a secure enclosure.
- B. Adjust transaction drawers to provide a tight fit at contact points for smooth operation and secure enclosure.
- C. Remove and replace defective work, including security windows that are warped, bowed, or otherwise unacceptable.

3.6 CLEANING AND PROTECTION

- A. Clean surfaces promptly after installation of security windows. Take care to avoid damaging the finish. Remove excess glazing and sealant compounds, dirt, and other substances.
 1. Lubricate sliding security window hardware.
 2. Lubricate transaction drawer hardware.
- B. Clean glass of preglazed security windows promptly after installation. Comply with requirements in Section 088853 "Security Glazing" for cleaning and maintenance.
- C. Provide temporary protection to ensure that security windows are without damage at time of Substantial Completion.

END OF SECTION 085653



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REVISIONS

NO.	MM-DD-YR	NAME	DESCRIPTION OF CHANGES
2	08/28/20	BIA	ADDENDUM 4

CRABTREE ROHRBAUGH & ASSOCIATES - ARCHITECTS

100 WEST ROAD, SUITE 402, TOWSON MD 21204 410-528-0272
MECHANICSBURG, PENNSYLVANIA CHARLOTTEVILLE, VIRGINIA WHITE SULPHUR SPRINGS, WEST VIRGINIA

PROPOSED NEW

WASHINGTON COUNTY PUBLIC SAFETY TRAINING CENTER
WASHINGTON COUNTY PROJECT NO. 28-266

18350 PUBLIC SAFETY PLACE
HAGERSTOWN, MD 21740



FIRST FLOOR PLAN - UNIT A - POWER
PLOT SCALE:
1/8" = 1'-0"
FILENAME:
DATE:
December 18, 2019

PROJECT
3089

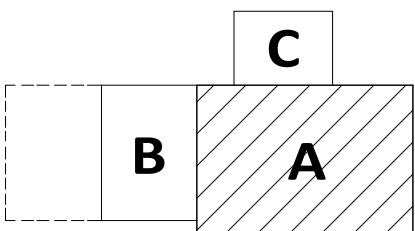
E1.0

GENERAL NOTES:

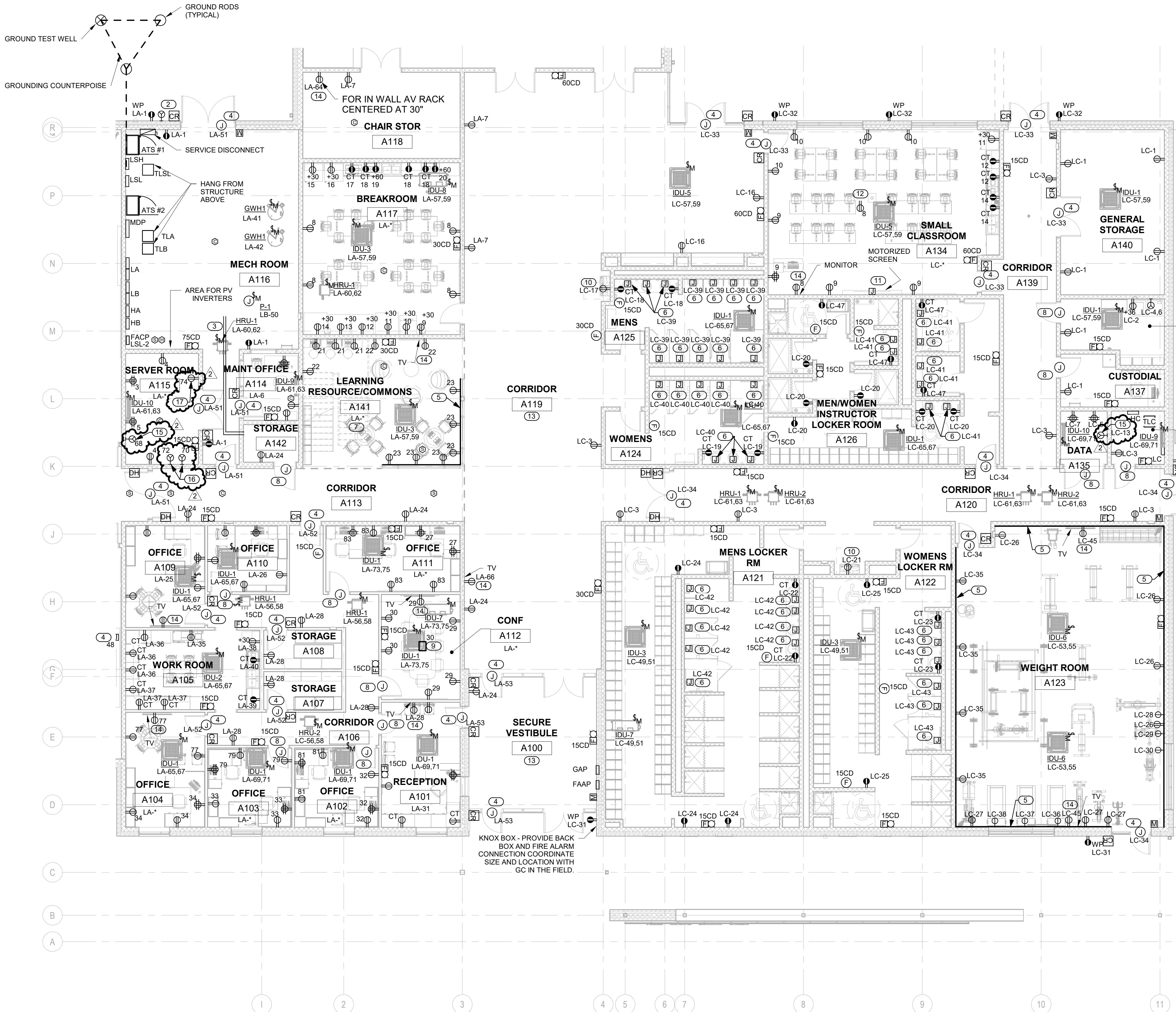
- IN OFFICE AREA PROVIDE FIRE ALARM CIRCUIT WITH 25% SPARE CAPACITY.
- PROVIDE 1" CONDUIT TO ALL INTERIOR DOOR FRAMES THAT ARE NOT SCHEDULED TO RECEIVE ELECTRONIC HARDWARE FOR FUTURE INSTALLATION OF CARD READERS, ETC. CONDUITS TO EXTEND FROM DOOR FRAME TO POINT ABOVE THE FINISH CEILING FOR EASY INSTALLATION OF WIRING, ETC. IN THE FUTURE.
- SEE DETAILS FOR FLOOR AND WALL PENETRATION SEALING REQUIREMENTS. WHERE CONDUIT AND WIRE PENETRATES THE WALL, THE WALL SHALL NOT ACT AS A SUPPORT. THE RACEWAY SHALL BE INDEPENDENTLY SUPPORTED ON EACH SIDE OF THE WALL. IF THE WALL PENETRATION IS NOT SEALED, PROVIDE SLEEVE TO PROTECT RACEWAY FROM DAMAGE. WALL AND FLOOR PENETRATIONS SHALL BE CUT USING HOLE SAWS OR EQUIVALENT. PENETRATION SHALL NOT HAVE JAGGED EDGES.
- SEE DETAILS FOR CLARIFICATION OF TYPICAL CIRCUIT DESIGNATIONS.
- PROVIDE POWER TO ALL DOORS WITH HARDWARE REQUIRING POWER CONNECTIONS. PROVIDE CONDUITS FOR ALL DOOR HARDWARE CABLING. INSTALL ALL CABLING FURNISHED BY THE DOOR HARDWARE SUPPLIER. COORDINATE WITH THE DOOR HARDWARE SUPPLIER FOR A SPECIFIC LIST OF DOORS REQUIRING POWER AND CABLING INSTALLATION. SEE DOOR HARDWARE SCHEDULE FOR MORE INFORMATION. SEE DETAILS FOR MORE INFORMATION.
- ALL RECEPTACLES LOCATED IN CEILING SHALL FACE INTO OCCUPIED SPACE.
- FOR ALL RECEPTACLES NOTED AS POWERING TVS OR MONITORS, COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH INTERIOR DRAWINGS TO ENSURE RECEPTACLE AND DATA FALL BEHIND TV. RECEPTACLES INSTALLED WITHOUT PROPER COORDINATION SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER. COORDINATE LOCATION OF DATA DEVICE WITH POWER BOX. BOXES SHALL BE INSTALLED DIRECTLY ADJACENT TO EACH OTHER.
- COORDINATE THE LOCATION OF ALL RECEPTACLES LOCATED ADJACENT TO TACK BOARDS, TACKSTRIPS, AND OTHER PERMANENT WALL FIXTURES. RECEPTACLES SHALL NOT BE LOCATED BEHIND TACK BOARDS AND TACKSTRIPS. SEE ARCHITECTURAL INTERIOR DRAWINGS FOR EXACT LOCATIONS OF TACK BOARDS AND OTHER PERMANENT WALL FIXTURES.
- COORDINATE COUNTERTOP RECEPTACLE LOCATIONS WITH CASEWORK. ENSURE RECEPTACLES ARE NOT BEHIND TALL UNITS.
- IN AREAS WHERE THERE IS NO CEILING OR CEILING CLOUDS, ALL DEVICES, BOXES, CONDUITS, AND APPEARANCE SHALL BE PAINTABLE. ALL CONDUIT AND WIRE SHALL BE RUN TIGHT TO THE STRUCTURE. ALL LABELS FOR JUNCTION BOXES, CONDUIT, AND DEVICES WHERE EVERYTHING IS PAINTED SHALL BE INSTALLED AFTER PAINTING.
- COORDINATE LOCATION OF ALL FIRE ALARM DEVICES WITH INTERIOR DRAWINGS BEFORE ROUGH-IN. COORDINATE SPECIFICALLY WITH SOUND PANELS, MIRRORS, TACKBOARDS, AND WHITEBOARDS.

NOTES BY SYMBOL: (#)

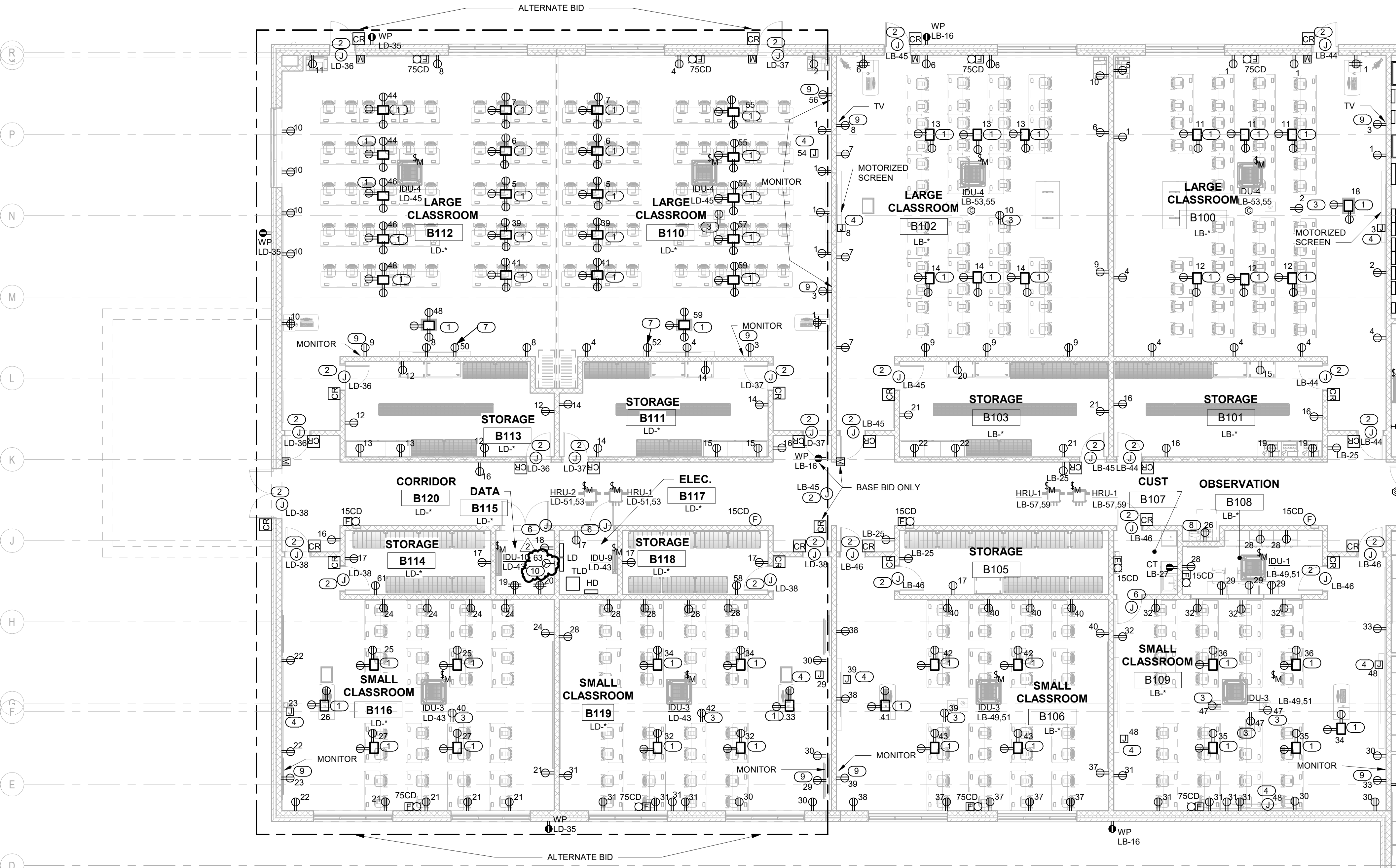
- (THIS SHEET ONLY)
- PROVIDE TWO COMPARTMENT DIVIDED SURFACE RACEWAY NO LARGER THAN 4" HIGH ON HOLLOW METAL BASE PAINTED TO MATCH BASE. BASIS OF DESIGN: WIREMOLD AL4750.
 - PROVIDE 100A, 125/250V, 3PH, PIN AND SLEEVE RECEPTACLE. HUBBELL MODEL # M4100R12. CONFIGURATION TO MATCH MOBILE COMMAND UNIT PLUG IN WEATHER PROOF ENCLOSURE.
 - PROVIDE (1) 3" CONDUIT & (1) 1" CONDUIT FOR FUTURE ELEVATOR. PROVIDE PULL STRING.
 - PROVIDE POWER TO DOOR HARDWARE REQUIRING POWER. SEE DETAILS FOR MORE INFORMATION. CIRCUIT SHOWN SHALL BE USED BY ALL DOORS IN THE GENERAL AREA. FOR FIRE DOORS, PROVIDE SMOKE DETECTORS ON EITHER SIDE OF DOOR WITHIN 5' CONNECTED TO THE DOOR HARDWARE. CONNECT TO FIRE ALARM FOR DOOR RELEASE IN EMERGENCY.
 - PROVIDE PLUGMOLD RACEWAY WITH RECEPTACLES FINISH. SELECTED BY ARCHITECT.
 - PROVIDE 24V TRANSFORMER. POWER TO TRANSFORMER AND FINAL CONNECTION TO PLUMBING FIXTURE.
 - FOR ALL POWER WIRING FOR DEVICES IN THE CEILING OR ELSEWHERE IN THE SPACE. AN ACCESS PANEL MUST BE UTILIZED FOR ANY JUNCTION BOX LOCATIONS. THE BRANCH CIRCUIT CONDUIT SHALL BE CONCEALED BEHIND THE EPIC DECK PANELS. REFER TO EPIC DECK DETAILS ON ARCHITECTURAL PLANS FOR INSTALLATION PRACTICE FOR ELECTRICAL DEVICES AND CONDUIT. EXPOSED CONDUIT SHALL NOT BE USED.
 - PROVIDE 1" TO DOOR FRAME AND EXTEND TO 6" ABOVE ACCESSIBLE CEILING WITH PULL STRING.
 - FLOOR BOX - PROVIDE (2) DUPLEX RECEPTACLES.
 - RECEPTACLE FOR EWC SHALL BE INSTALLED TO ENSURE IT IS COVERED BY SKIRT. COORDINATE WITH SELECTED FIXTURE.
 - PROVIDE FINAL POWER CONNECTION TO MOTORIZED SCREEN. CONTROL DEVICE PROVIDED WITH UNIT. PROVIDE ALL INTERCONNECTING WIRING.
 - PROVIDE RECEPTACLE IN CEILING FOR PROJECTOR.
 - PROVIDE COMPLETE SMOKE DETECTION COVERAGE IN THIS AREA WITH BEAM STYLE SMOKE DETECTORS.
 - REFER TO AV DRAWINGS FOR MOUNTING HEIGHTS OF OUTLETS FOR DISPLAYS.
 - PROVIDE LOCKING 30A 120V RECEPTACLE FOR UPS. COORDINATE EXACT ROOM LAYOUT IN FIELD.
 - PROVIDE (2) LOCKING 30A 120V RECEPTACLES FOR AV RACK. COORDINATE EXACT ROOM LAYOUT IN FIELD.
 - PROVIDE (1) DEDICATED 20A 120V RECEPTACLE FOR SECURITY RACK. COORDINATE EXACT ROOM LAYOUT IN FIELD.



KEY PLAN



1 FIRST FLOOR PLAN - UNIT A - POWER
SCALE: 1/8" = 1'-0"



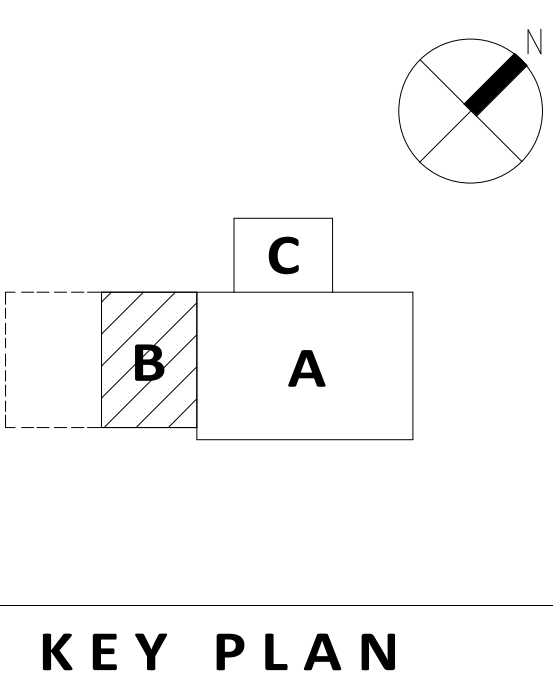
1 FIRST FLOOR PLAN - UNIT B - POWER
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. PROVIDE 1" CONDUIT TO ALL INTERIOR DOOR FRAMES THAT ARE NOT SCHEDULED TO RECEIVE ELECTRONIC HARDWARE FOR FUTURE INSTALLATION OF CARD READERS, ETC. CONDUITS TO EXTEND FROM DOOR FRAME TO POINT ABOVE THE FINISH CEILING FOR EASY INSTALLATION OF WIRING, ETC. IN THE FUTURE.
2. SEE DETAILS FOR FLOOR AND WALL PENETRATION SEALING REQUIREMENTS. WHERE CONDUIT AND WIRE PENETRATES THE WALL, THE WALL SHALL NOT ACT AS A SUPPORT. THE RACEWAY SHALL BE INDEPENDENTLY SUPPORTED ON EACH SIDE OF THE WALL. IF THE WALL PENETRATION IS NOT SEALED, PROVIDE SLEEVE TO PROTECT RACEWAY FROM DAMAGE. WALL AND FLOOR PENETRATIONS SHALL BE CUT USING HOLE SAWS OR EQUIVALENT. PENETRATIONS SHALL NOT HAVE JAGGED EDGES.
3. SEE DETAILS FOR CLARIFICATION OF TYPICAL CIRCUIT DESIGNATIONS.
4. PROVIDE POWER TO ALL DOORS WITH HARDWARE REQUIRING POWER CONNECTIONS. PROVIDE CONDUITS FOR ALL DOOR HARDWARE CABLES. INSTALL ALL CABLES FURNISHED BY THE DOOR HARDWARE SUPPLIER. COORDINATE WITH THE DOOR HARDWARE SUPPLIER FOR A SPECIFIC LIST OF DOORS REQUIRING POWER AND CABLEING INSTALLATION. SEE DOOR HARDWARE SCHEDULE FOR MORE INFORMATION. SEE DETAILS FOR MORE INFORMATION.
5. ALL RECEPTACLES LOCATED IN CEILING SHALL FACE INTO OCCUPIED SPACE.
6. FOR ALL RECEPTACLES NOTED AS POWERING TVS OR MONITORS, COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH INTERIOR DRAWINGS TO ENSURE RECEPTACLE AND DATA FALL BEHIND TV. RECEPTACLES INSTALLED WITHOUT PROPER COORDINATION SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER. COORDINATE LOCATION OF DATA DEVICE WITH POWER BOX. BOXES SHALL BE INSTALLED DIRECTLY ADJACENT TO EACH OTHER.
7. COORDINATE THE LOCATION OF ALL RECEPTACLES LOCATED ADJACENT TO TACK BOARDS, TACKSTRIPS, AND OTHER PERMANENT WALL FIXTURES. RECEPTACLES SHALL NOT BE LOCATED BEHIND TACK BOARDS AND TACKSTRIPS. SEE ARCHITECTURAL INTERIOR DRAWINGS FOR EXACT LOCATIONS OF TACK BOARDS AND OTHER PERMANENT WALL FIXTURES.
8. COORDINATE COUNTERTOP RECEPTACLE LOCATIONS WITH CASEWORK. ENSURE RECEPTACLES ARE NOT BEHIND TALL UNITS.
9. IN AREAS WHERE THERE IS NO CEILING OR CEILING CLOUDS, ALL DEVICES, BOXES, CONDUITS, AND APPEARANCE SHALL BE PAINTABLE. ALL CONDUIT AND WIRE SHALL BE RUN TIGHT TO THE STRUCTURE. ALL LABELS FOR JUNCTION BOXES, CONDUIT, AND DEVICES WHERE EVERYTHING IS PAINTED SHALL BE INSTALLED AFTER PAINTING. COORDINATE LOCATION OF ALL FIRE ALARM DEVICES WITH INTERIOR DRAWINGS BEFORE ROUGH-IN. COORDINATE SPECIFICALLY WITH SOUND PANELS, MIRRORS, TACTBOARDS, AND WHITEBOARDS.
10. PROVIDE LOCKING 30A 120V RECEPTACLE FOR UPS. COORDINATE EXACT ROOM LAYOUT IN FIELD.

NOTES BY SYMBOL: (#)
(THIS SHEET ONLY)

1. PROVIDE FOUR COMPARTMENT DIVIDED FLOOR BOX WITH DEVICES INDICATED. BASIS OF DESIGN: WIREMOLD EFB45 SERIES. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
2. PROVIDE POWER TO DOOR HARDWARE REQUIRING POWER. SEE DETAILS FOR MORE INFORMATION. CIRCUIT SHOWN SHALL BE USED BY ALL DOORS IN THE GENERAL AREA. FOR FIRE DOORS, PROVIDE SMOKE DETECTORS ON EITHER SIDE OF DOOR WITHIN 5' CONNECTED TO THE DOOR HARDWARE. CONNECT TO FIRE ALARM FOR DOOR RELEASE IN EMERGENCY.
3. PROVIDE CEILING MOUNTED RECEPTACLE TO POWER PROJECTOR. VERIFY EXACT LOCATION IN FIELD.
4. PROVIDE POWER FOR MOTORIZED PROJECTION SCREEN. VERIFY EXACT LOCATION IN FIELD.
5. NOT USED.
6. PROVIDE 1" TO DOOR FRAME AND EXTEND TO 6" ABOVE ACCESSIBLE CEILING WITH PULL STRING.
7. PROVIDE RECEPTACLE FOR SHORT THROW PROJECTOR. COORDINATE EXACT MOUNTING HEIGHT IN THE FIELD.
8. RECEPTACLE FOR EWC SHALL BE INSTALLED TO ENSURE IT IS COVERED BY SKIRT. COORDINATE WITH SELECTED FIXTURE.
9. REFER TO AV DRAWINGS FOR MOUNTING HEIGHTS OF OUTLETS OR DISPLAYS.
10. PROVIDE LOCKING 30A 120V RECEPTACLE FOR UPS. COORDINATE EXACT ROOM LAYOUT IN FIELD.



KEY PLAN

DRAWING E1.1ATTACHMENT D

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REVISIONS			
MM-DD-YR	NAME	DESCRIPTION OF CHANGES	
2 08/28/20	BIA	ADDENDUM 4	

CRABTREE ROHRBAUGH & ASSOCIATES - ARCHITECTS

100 WEST ROAD, SUITE 402, TOWSON MD 21204 410-528-0272
MECHANICSBURG, PENNSYLVANIA CHARLOTTEVILLE, VIRGINIA WHITE SULPHUR SPRINGS, WEST VIRGINIA

www.cra-architects.com

PROPOSED NEW

WASHINGTON COUNTY PUBLIC SAFETY TRAINING CENTER

WASHINGTON COUNTY PROJECT NO. 28-266

18350 PUBLIC SAFETY PLACE
HAGERSTOWN, MD 21740

FIRST FLOOR PLAN - UNIT B - POWER

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

FILENAME:

DATE:
December 18, 2019

PROJECT
3089

E1.1



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REVISIONS

MM-DD-YR	NAME	DESCRIPTION OF CHANGES
2 08/28/20	BIA	ADDENDUM 4

CRABTREE ROHRBAUGH & ASSOCIATES - ARCHITECTS
100 WEST ROAD, SUITE 402, TOWSON MD 21204 410-528-0272
MECHANICSBURG, PENNSYLVANIA CHARLOTTEVILLE, VIRGINIA WHITE SULPHUR SPRINGS, WEST VIRGINIA

PROPOSED NEW

WASHINGTON COUNTY PUBLIC SAFETY TRAINING CENTER

WASHINGTON COUNTY PROJECT NO. 28-266

18350 PUBLIC SAFETY PLACE
HAGERSTOWN, MD 21740



ELECTRICAL SCHEDULES
PLOT SCALE: AS INDICATED
FILENAME:
DATE: December 18, 2019

PROJECT
3089

E5.2

PANEL: <u>LA SECTION 1</u>				BUS AMP: <u>200A</u>				AMPS MAIN BREAKER: <u>175A</u>													
MOUNTING: <u>SURFACE</u>				PHASE: <u>3</u>		WIRE: <u>4</u>		VOLTAGE: <u>208/120</u>		AIC: <u>18,000</u>											
CKT	CIRCUIT DESCRIPTION	BREAKER		WIRE	GND	COND	LOAD KVA	KVA/PH			LOAD KVA	COND	GND	WIRE	BREAKER		CIRCUIT DESCRIPTION	CKT			
		P	AMP					NO	SIZE	SIZE					A	B			C	SIZE	SIZE
1	REC - A116	1	20	2	12	12	3/4"	0.9	0.9		0.0					20	1	SPARE	2		
3	REC - A115	1	20	2	12	12	3/4"	0.4		0.7		0.4	3/4"	12	12	2	20	1	REC - A115	4	
5	REC - A115	1	20	2	12	12	3/4"	0.4			0.9	0.5	3/4"	12	12	2	20	1	REC - A114	6	
7	REC - A118, A119	1	20	2	12	12	3/4"	0.5	1.3			0.7	3/4"	12	12	2	20	1	REC - A117	8	
9	REC - A117	1	20	2	12	12	3/4"	0.5		1.5		1.0	3/4"	12	12	2	20	1	REC - A117 (ICE MAKER)	10	
11	REC - A117 (VENDING)	1	20	2	12	12	3/4"	1.0			2.0	1.0	3/4"	12	12	2	20	1	REC - A117 (VENDING)	12	
13	REC - A117 (VENDING)	1	20	2	12	12	3/4"	1.0	2.0			1.0	3/4"	12	12	2	20	1	REC - A117 (VENDING)	14	
15	REC - A117 (REFRIG.)	1	20	2	12	12	3/4"	1.0		2.0		1.0	3/4"	12	12	2	20	1	REC - A117 (REFRIG.)	16	
17	REC - A117 (MICRO)	1	20	2	12	12	3/4"	1.2			1.7	0.5	3/4"	12	12	2	20	1	REC - A117 (COUNTER)	18	
19	REC - A117 (MICRO)	1	20	2	12	12	3/4"	1.2	2.4			1.2	3/4"	12	12	2	20	1	REC - A117 (MICRO)	20	
21	REC - A113	1	20	2	12	12	3/4"	0.5		1.3		0.7	3/4"	12	12	2	20	1	REC - A113	22	
23	REC - A113	1	20	2	12	12	3/4"	0.7			1.4	0.7	3/4"	12	12	2	20	1	REC - CORRIDORS	24	
25	REC - A109	1	20	2	12	12	3/4"	1.1	2.2			1.1	3/4"	12	12	2	20	1	REC - A110	26	
27	REC - A111	1	20	2	12	12	3/4"	0.7		1.6		0.9	3/4"	12	12	2	20	1	REC - A106, A107, A108	28	
29	REC - A112	1	20	2	12	12	3/4"	0.7			1.4	0.7	3/4"	12	12	2	20	1	REC - A112	30	
31	REC - A101	1	20	2	12	12	3/4"	1.1	1.8			0.7	3/4"	12	12	2	20	1	REC - A102	32	
33	REC - A103	1	20	2	12	12	3/4"	1.1		1.8		0.7	3/4"	12	12	2	20	1	REC - A104	34	
35	REC - A105	1	20	2	12	12	3/4"	1.0			1.5	0.5	3/4"	12	12	2	20	1	REC - A105	36	
37	REC - A105	1	20	2	12	12	3/4"	0.5	1.5			1.0	3/4"	12	12	2	20	1	REC - A105 (REFRIG.) (GFI)	38	
39	REC - A105	1	20	2	12	12	3/4"	0.2		1.4		1.2	3/4"	12	12	2	20	1	REC - A105 (MICRO)	40	
41	GW-H-1	1	20	2	12	12	3/4"	0.5			0.5	0.0	3/4"	12	12	2	20	1	GW-H-1	42	
TOTAL KVA/PHASE											12.1	10.3	9.6								
TOTAL KVA SECTION 1											31.9										
TOTAL KVA SECTION 2											16.7										
TOTAL KVA											48.6										
TOTAL AMPS PANEL											135										

PANEL: <u>LB SECTION 1</u>				BUS AMP: <u>200A</u>				AMPS MAIN BREAKER: <u>175A</u>																									
MOUNTING: <u>SURFACE</u>				PHASE: <u>3</u>				WIRE: <u>4</u>				VOLTAGE: <u>208/120</u>				AIC: <u>18,000</u>																	
CKT	CIRCUIT DESCRIPTION	BREAKER		WIRE	GND	COND	LOAD KVA	KVA/PH			LOAD KVA	COND	GND	WIRE	BREAKER		CIRCUIT DESCRIPTION	CKT															
		P	AMP					NO	SIZE	SIZE					A	B			C	SIZE	SIZE	NO	AMP	P									
1	REC - B100	1	20	2	12	12	3/4"	0.7	1.3		0.5	3/4"	12	12	2	20	1	REC - B100	2														
3	REC - B100	1	20	2	12	12	3/4"	1.0		1.7	0.7	3/4"	12	12	2	20	1	REC - B100	4														
5	REC - B100	1	20	2	12	12	3/4"	1.0			1.7	0.7	3/4"	12	12	2	20	1	REC - B102	6													
7	REC - B102	1	20	2	12	12	3/4"	0.5	1.5			1.0	3/4"	12	12	2	20	1	REC - B102	8													
9	REC - B102	1	20	2	12	12	3/4"	0.7		1.7		1.0	3/4"	12	12	2	20	1	REC - B102	10													
11	FLOOR REC - B100	1	20	2	12	12	3/4"	0.7			1.4	0.7	3/4"	12	12	2	20	1	FLOOR REC - B100	12													
13	FLOOR REC - B102	1	20	2	12	12	3/4"	0.7	1.4			0.7	3/4"	12	12	2	20	1	FLOOR REC - B102	14													
15	REC - B101	1	20	2	12	12	3/4"	0.5		0.9		0.4	3/4"	12	12	2	20	1	REC - EXTERIOR	16													
17	REC - B105	1	20	2	12	12	3/4"	0.2			0.5	0.4	3/4"	12	12	2	20	1	FLOOR BOX B106	18													
19	REC - B101	1	20	2	12	12	3/4"	0.4	0.9			0.5	3/4"	12	12	2	20	1	REC - B103	20													
21	REC - B103	1	20	2	12	12	3/4"	0.5		0.9		0.4	3/4"	12	12	2	20	1	REC - B103	22													
23	SPARE	1	20				0.0				0.0	0.0					20	1	SPARE	24													
25	REC - B104	1	20	2	12	12	3/4"	0.7	1.2			0.5	3/4"	12	12	2	20	1	REC - EWC (GFI)	26													
27	REC - B107	1	20	2	12	12	3/4"	0.2		0.7		0.5	3/4"	12	12	2	20	1	REC - B108	28													
29	REC - B108	1	20	2	12	12	3/4"	0.5			1.1	0.5	3/4"	12	12	2	20	1	REC - B109	30													
31	REC - B109	1	20	2	12	12	3/4"	0.9	1.8			0.9	3/4"	12	12	2	20	1	REC - B109	32													
33	REC - B109	1	20	2	12	12	3/4"	1.0		1.4		0.4	3/4"	12	12	2	20	1	REC - B109	34													
35	FLOOR REC - B109	1	20	2	12	12	3/4"	0.7			1.4	0.7	3/4"	12	12	2	20	1	FLOOR REC - B109	36													
37	REC - B106	1	20	2	12	12	3/4"	0.9	1.4			0.5	3/4"	12	12	2	20	1	REC - B106	38													
39	REC - B106	1	20	2	12	12	3/4"	1.0		1.9		0.9	3/4"	12	12	2	20	1	REC - B106	40													
41	REC - B106	1	20	2	12	12	3/4"	0.4			1.1	0.7	3/4"	12	12	2	20	1	FLOOR REC - B106	42													
TOTAL KVA/PHASE										9.6	9.2	7.3																					
TOTAL KVA SECTION 1										26.0																							
TOTAL KVA SECTION 2										11.6																							
TOTAL KVA										37.6																							
TOTAL AMPS PANEL										104																							

PANEL: <u>LA SECTION 2</u>		BUS AMP: <u>200A</u>		AMPS MAIN BREAKER: <u>MLQ</u>																	
<u>MOUNTING: SURFACE</u>		PHASE: <u>3</u>		WIRE: <u>4</u>		VOLTAGE: <u>208/120</u>		AIC: <u>18,000</u>													
CKT	CIRCUIT DESCRIPTION	BREAKER		WIRE	GND	COND	LOAD		KVA/PH	LOAD	COND	GND	WIRE	BREAKER		CIRCUIT DESCRIPTION	CKT				
		P	AMP				NO	SIZE						SIZE	KVA			A	B	C	KVA
43	REC - C100	1	20	2	12	12	3/4"	0.7	1.4		0.7	3/4"	12	12	2	20	1	REC - C100	44		
45	REC - C100	1	20	2	12	12	3/4"	0.9		1.7	0.8	3/4"	12	12	2	20	1	REC - C100	46		
47	REC - C100	1	20	2	12	12	3/4"	0.4			0.7	0.4	3/4"	12	12	2	20	1	REC - C100	48	
49	REC - EXTERIOR	1	20	2	12	12	3/4"	0.7	1.0		0.3	3/4"	12	12	2	20	1	DOOR HARDWARE - C-100	50		
51	DOOR HARDWARE	1	20	2	12	12	3/4"	1.0		2.3	1.3	3/4"	12	12	2	20	1	DOOR HARDWARE	52		
53	DOOR HARDWARE	1	20	2	12	12	3/4"	0.8			1.3	0.5	3/4"	12	12	2	20	1	FLOOR BOX	54	
55	FLOOR BOX	1	20	2	12	12	3/4"	0.5	0.8		0.2	3/4"	12	12	2	15	2	HRU - A106	56		
57	IDU - A117 & A141	2	15	2	12	12	3/4"	0.4		0.6	0.2	3/4"	12	12	2	15	2	HRU - A106	58		
0.4									0.5	0.1	60										
0.1								0.2	0.1	61											
61	IDU - A114 & A115	2	15	2	12	12	3/4"	0.1		0.6	0.5	3/4"	12	12	2	20	1	REC - AV RACK RM A118	62		
63	IDU - A104, A105, A109, & A110	2	15	2	12	12	3/4"	0.2		0.7	0.5	3/4"	10	10	2	30	1	REC - CORRIDOR TV	65		
0.2								0.7	0.5	3/4"	10	10	2	30	1	UPS RACK	68				
0.156									0.7	0.5	3/4"	10	10	2	30	1	AV RACK	70			
67	IDU - A101, A102, & 103	2	15	2	12	12	3/4"	0.156		0.7	0.5	3/4"	10	10	2	30	1	AV RACK	72		
0.156									0.7	0.5	3/4"	10	10	2	30	1	AV RACK	74			
71	IDU-A111 & A112	2	15	2	12	12	3/4"	0.2	0.7		0.5	3/4"	12	12	2	20	1	SECURITY RACK	76		
0.2									0.2	0.6		20	1	SPARE	78						
0.2									0.2	0.6		20	1	SPARE	80						
77	REC - A104	1	20	2	12	12	3/4"	0.5			0.5	0.0				20	1	SPARE	78		
79	REC - A103	1	20	2	12	12	3/4"	0.7	1.2		0.5	3/4"	12	12	2	20	1	MOTORIZED SCREENS	80		
81	REC - A102	1	20	2	12	12	3/4"	0.7		1.7	1.0	3/4"	12	12	2	20	1	ROLLER SHADES	82		
83	REC - A111	1	20	2	12	12	3/4"	0.5			1.5	1.0	3/4"	12	12	2	20	1	ROLLER SHADES	84	
TOTAL KVA/PHASE										6.1	7.7	6.0									
TOTAL KVA PANEL																				19.7	
TOTAL AMPS PANEL																				55	



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REVISIONS

MM-DD-YR	NAME	DESCRIPTION OF CHANGES
08/28/20	BIA	ADDENDUM 4

CRABTREE ROHRBAUGH & ASSOCIATES - ARCHITECTS

100 WEST ROAD, SUITE 402, TOWSON MD 21204 410-528-0272

MECHANICSBURG, PENNSYLVANIA CHARLOTTESVILLE, VIRGINIA WHITE SULPHUR SPRINGS, WEST VIRGINIA

PROPOSED NEW

WASHINGTON COUNTY PUBLIC SAFETY TRAINING CENTER

WASHINGTON COUNTY PROJECT NO. 28-266

18350 PUBLIC SAFETY PLACE

HAGERSTOWN, MD 21740



ELECTRICAL SCHEDULES

PLOT SCALE:
AS INDICATED
FILENAME:
DATE:
December 18, 2019

PROJECT
3089

E5.3

PANEL: LC SECTION 1		BUS AMP: 200A		AMPS MAIN BREAKER: 175A																
MOUNTING_SURFACE		PHASE: 3		WIRE: 4		VOLTAGE: 208/120		AIC: 18,000												
CKT	CIRCUIT DESCRIPTION	BREAKER		WIRE	GND	COND	LOAD KVA			KVA/PH		LOAD	COND	GND	WIRE	BREAKER	CIRCUIT DESCRIPTION	CKT		
		P	AMP	NO	SIZE		SIZE	A	B	C	KVA	COND		SIZE	SIZE	NO			AMP	P
1	REC - A137, A138, & A140	1	20	2	12	12	3/4"	1.1	2.6			1.5	3/4"	12	12	2	20	1	WASHER (GFI)	2
3	REC - A139, A120	1	20	2	12	12	3/4"	1.1		3.5		2.4	3/4"	10	10	3	30	2	DRYER	4
5	REC - A135	1	20	2	12	12	3/4"	0.4			2.8	2.4								6
7	REC - A135	1	20	2	12	12	3/4"	0.4	0.9			0.5	3/4"	12	12	2	20	1	REC - A134	8
9	REC - A134	1	20	2	12	12	3/4"	0.7		1.4		0.7	3/4"	12	12	2	20	1	REC - A134	10
11	REC - A134	1	20	2	12	12	3/4"	0.7			1.4	0.4	3/4"	12	12	2	20	1	REC - A134	12
13	REC - UPS	1	30	2	10	10	3/4"	0.5	0.9			0.4	3/4"	12	12	2	20	1	REC - A134	14
15	SHOWER	1	20	2	12	12	3/4"	0.0		0.4		0.4	3/4"	12	12	2	20	1	REC - A119	16
17	REC - EWC (GFI)	1	20	2	12	12	3/4"	0.5			0.9	0.4	3/4"	12	12	2	20	1	REC - A125	18
19	REC - A124	1	20	2	12	12	3/4"	0.4	1.3			0.9	3/4"	12	12	2	20	1	REC - A126	20
21	REC - EWC (GFI)	1	20	2	12	12	3/4"	0.5		0.9		0.4	3/4"	12	12	2	20	1	REC - A121	22
23	REC - A122	1	20	2	12	12	3/4"	0.4			0.9	0.5	3/4"	12	12	2	20	1	REC - A121	24
25	REC - A122	1	20	2	12	12	3/4"	0.4	1.1			0.7	3/4"	12	12	2	20	1	REC - A123	26
27	REC - A123	1	20	2	12	12	3/4"	0.7		1.9		1.2	3/4"	12	12	2	20	1	REC - A123 (TREAD MILL)	28
29	REC - A123	1	20	2	12	12	3/4"	0.2			1.4	1.2	3/4"	12	12	2	20	1	REC - A123 (TREAD MILL)	30
31	REC - EXTERIOR	1	20	2	12	12	3/4"	0.5	1.1			0.5	3/4"	12	12	2	20	1	REC - EXTERIOR	32
33	DOOR HARDWARE	1	20	2	12	12	3/4"	1.3		2.5		1.3	3/4"	12	12	2	20	1	DOOR HARDWARE	34
35	REC - A123	1	20	2	12	12	3/4"	0.7			1.7	1.0	3/4"	12	12	2	20	1	REC - A123 (TREAD MILL)	36
37	REC - A123 (TREAD MILL)	1	20	2	12	12	3/4"	1.0	2.0			1.0	3/4"	12	12	2	20	1	REC - A123 (TREAD MILL)	38
39	HANDS FREE FAUCET / FLUSH VALVE	1	20	2	12	12	3/4"	1.2		2.0		0.8	3/4"	12	12	2	20	1	HANDS FREE FAUCET / FLUSH VALVE	40
41	HANDS FREE FAUCET / FLUSH VALVE	1	20	2	12	12	3/4"	0.8			1.7	0.9	3/4"	12	12	2	20	1	HANDS FREE FAUCET / FLUSH VALVE	42
TOTAL KVA/PHASE										9.7	12.6	10.7								
TOTAL KVA SECTION 1										33.0										
TOTAL KVA SECTION 2										1.7										
TOTAL KVA										34.7										
TOTAL AMPS PANEL										96										

PANEL: LC SECTION 2		BUS AMP: 200A		AMPS MAIN BREAKER: MLO																	
MOUNTING: SURFACE		PHASE: 3		WIRE: 4																	
		VOLTAGE: 208/120		AIC: 18,000																	
CKT	CIRCUIT DESCRIPTION	BREAKER		WIRE	GND	COND	LOAD		KVA/PH		LOAD		COND	GND		WIRE	BREAKER		CIRCUIT DESCRIPTION	CKT	
		P	AMP	NO	SIZE		SIZE	KVA	A	B	C	KVA		COND	SIZE	SIZE	NO	AMP			P
43	HANDS FREE FAUCET / FLUSH VALVE	1	20	2	12	12	3/4"	0.6	0.6			0.0						20	1	SPARE	44
45	TV RECEPTACLES - A123	1	20	2	12	12	3/4"	0.4		0.4		0.0						20	1	SPARE	46
47	REC - A126	1	20	2	12	12	3/4"	0.7			0.7	0.0						20	1	SPARE	48
49	IDU - A121 & A122	2	15	2	12	12	3/4"	0.3	0.3			0.0						20	1	SPARE	50
51									0.3		0.3			0.0			20	1	SPARE	52	
53	IDU - A123	2	15	2	12	12	3/4"	0.2			0.2	0.0						20	1	SPARE	54
55									0.2	0.2			0.0			20	1	SPARE	56		
57	IDU - A119, A134, A138, & A140	2	15	2	12	12	3/4"	0.2		0.2		0.0						20	1	SPARE	58
59									0.2			0.2	0.0			20	1	SPARE	60		
61	HRU - A120	2	15	2	12	12	3/4"	0.3	0.3			0.0						20	1	SPARE	62
63									0.3		0.3		0.0			20	1	SPARE	64		
65	IDU - A124, A125, & A126	2	15	2	12	12	3/4"	0.2			0.2	0.0						20	1	SPARE	66
67									0.2	0.2			0.0			20	1	SPARE	68		
69	IDU - A135 & A136	2	15	2	12	12	3/4"	0.1		0.1		0.0						20	1	SPARE	70
71									0.1			0.1	0.0			1	PREPARED SPACE	72			
73	PREPARED SPACE	1						0.0	0.0			0.0							1	PREPARED SPACE	74
75	PREPARED SPACE	1						0.0		0.0	0.0	0.0							1	PREPARED SPACE	76
77	PREPARED SPACE	1						0.0			0.0	0.0							1	PREPARED SPACE	78
79	PREPARED SPACE	1						0.0	0.0			0.0							1	PREPARED SPACE	80
81	PREPARED SPACE	1						0.0		0.0	0.0	0.0							1	PREPARED SPACE	82
83	PREPARED SPACE	1						0.0				0.0	0.0						1	PREPARED SPACE	84
TOTAL KVA/PHASE								1.5	1.2	1.4											
TOTAL KVA PANEL								4.2													
TOTAL AMPS PANEL								12													

ALTERNATE BID

PANEL: <u>LD SECTION 1</u>				BUS AMP: <u>200A</u>				AMPS MAIN BREAKER: <u>175A</u>																
MOUNTING: <u>SURFACE</u>				PHASE: <u>3</u>		WIRE: <u>4</u>		VOLTAGE: <u>208/120</u>		AIC: <u>18,000</u>														
CKT	CIRCUIT DESCRIPTION	BREAKER		WIRE	GND	COND	LOAD			KVA/PH			LOAD			COND	GND			WIRE	BREAKER		CIRCUIT DESCRIPTION	CKT
		P	AMP	NO	SIZE		SIZE	KVA	A	B	C	KVA	COND	SIZE	SIZE	NO	AMP	P						
1	REC - B110	1	20	2	12	12	3/4"	0.9	1.9			1.0	3/4"	12	12	2	20	1			REC - B110	2		
3	REC - B110	1	20	2	12	12	3/4"	0.8				0.5	3/4"	12	12	2	20	1			REC - B110	4		
5	FLOOR REC - B110, B112	1	20	2	12	12	3/4"	0.7			1.4	0.7	3/4"	12	12	2	20	1			FLOOR REC - B110, B112	6		
7	FLOOR REC - B110, B112	1	20	2	12	12	3/4"	0.7	1.3			0.5	3/4"	12	12	2	20	1			REC - B112	8		
9	REC - B112	1	20	2	12	12	3/4"	0.8		1.7		0.9	3/4"	12	12	2	20	1			REC - B112	10		
11	REC - B112	1	20	2	12	12	3/4"	1.0			1.5	0.5	3/4"	12	12	2	20	1			REC - B113	12		
13	REC - B113	1	20	2	12	12	3/4"	0.4	0.9			0.5	3/4"	12	12	2	20	1			REC - B111	14		
15	REC - B111	1	20	2	12	12	3/4"	0.4		0.9		0.5	3/4"	12	12	2	20	1			REC - B120	16		
17	REC - B114, B117, B118	1	20	2	12	12	3/4"	0.5			0.7	0.2	3/4"	12	12	2	20	1			REC - B115	18		
19	REC - B115	1	20	2	12	12	3/4"	0.4	0.7			0.4	3/4"	12	12	2	20	1			REC - B115	20		
21	REC - B116	1	20	2	12	12	3/4"	0.9		1.4		0.5	3/4"	12	12	2	20	1			REC - B116	22		
23	REC - B116	1	20	2	12	12	3/4"	0.8			1.7	0.9	3/4"	12	12	2	20	1			REC - B116	24		
25	FLOOR REC - B116	1	20	2	12	12	3/4"	0.7	1.1			0.4	3/4"	12	12	2	20	1			FLOOR REC - B116	26		
27	FLOOR REC - B116	1	20	2	12	12	3/4"	0.7		1.6		0.9	3/4"	12	12	2	20	1			REC - B119	28		
29	REC - B119	1	20	2	12	12	3/4"	0.8			1.3	0.5	3/4"	12	12	2	20	1			REC - B119	30		
31	REC - B119	1	20	2	12	12	3/4"	0.9	1.6			0.7	3/4"	12	12	2	20	1			FLOOR REC - B119	32		
33	FLOOR REC - B119	1	20	2	12	12	3/4"	0.4		1.1		0.7	3/4"	12	12	2	20	1			FLOOR REC - B119	34		
35	REC - EXTERIOR	1	20	2	12	12	3/4"	0.5			1.5	1.0	3/4"	12	12	2	20	1			DOOR HARDWARE	36		
37	DOOR HARDWARE	1	20	2	12	12	3/4"	1.0	2.3			1.3	3/4"	12	12	2	20	1			DOOR HARDWARE	38		
39	FLOOR REC - B110, B112	1	20	2	12	12	3/4"	0.7		0.9		0.2	3/4"	12	12	2	20	1			REC - B116	40		
41	FLOOR REC - B110, B112	1	20	2	12	12	3/4"	0.7			0.9	0.2	3/4"	12	12	2	20	1			REC - B119	42		
TOTAL KVA/PHASE										9.7	8.9	9.1												
TOTAL KVA SECTION 1										27.7														
TOTAL KVA SECTION 2										0.7														
TOTAL KVA										28.4														
TOTAL AMPS PANEL										79														



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License No. 47042 Expiration Date: 03/15/21

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**CRABTREE ROHRBAUGH & ASSOCIATES -
ARCHITECTS**

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 MECHANICSBURG, PENNSYLVANIA CHARLOTTESVILLE, VIRGINIA WHITE SULPHUR SPRINGS, WEST VIRGINIA
 www.cra-architects.com

PROPOSED NEW

WASHINGTON COUNTY PUBLIC SAFETY TRAINING CENTER

WASHINGTON COUNTY PROJECT NO. 28-266

18350 PUBLIC SAFETY PLACE
HAGERSTOWN, MD 21740



FUT. 2ND FLOOR / ROOF
FRAMING PLAN - AREA A

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

DATE: December 18, 2019

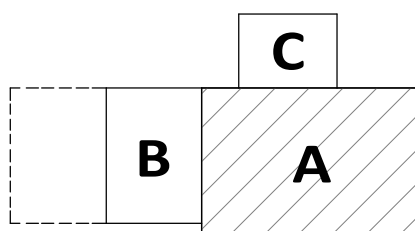
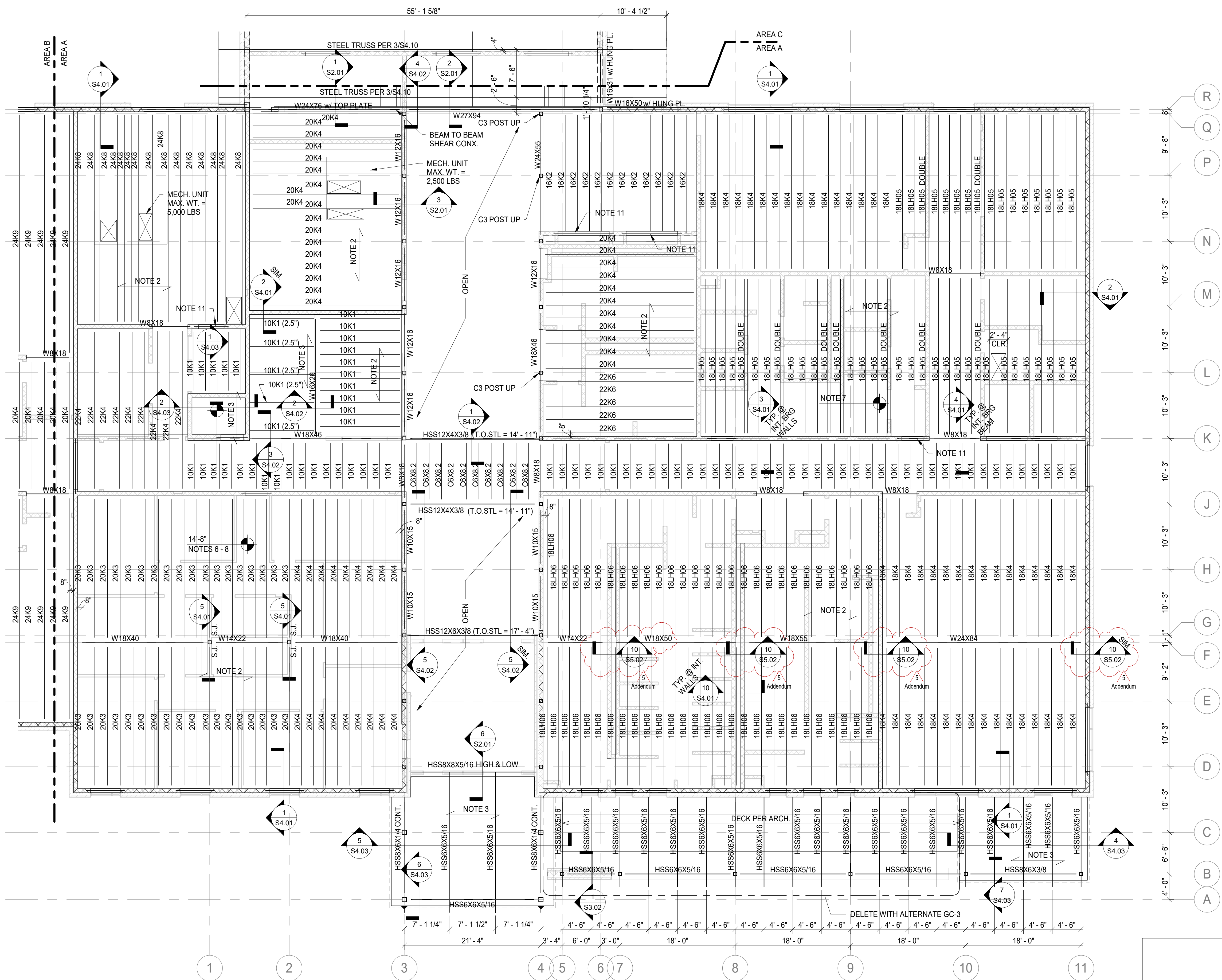


ADTEK PROJECT #: 1713.000

PROJECT
3089

S1.13

REFER TO SHEET S1.14.



KEY PLAN

1	AREA A - PARTIAL ROOF FRAMING PLAN
S1.13	SCALE: 1/8" = 1'-0"

Attachment H

FLOOR FRAMING PLAN NOTES

1. SEE SHEETS S0.01 THRU S0.02 FOR STRUCTURAL NOTES AND SHEETS S4.01 THRU S5.03 FOR TYPICAL DETAILS. THE TYPICAL DETAILS APPLY WHEREVER THE CONDITION EXISTS UNLESS DETAILED OTHERWISE.

2. THE SLAB SYSTEM SHALL BE A 3" NORMAL WEIGHT CONCRETE SLAB ON 9/16" FORM DECK (3" TOTAL THICKNESS), THREE SPANS CONTINUOUS. SEE STRUCTURAL NOTES SHEETS FOR DECK PROPERTIES.

3. THE ROOF SYSTEM SHALL BE 1-1/2" STEEL ROOF DECK, CONTINUOUS. SEE STRUCTURAL NOTES SHEETS FOR DECK PROPERTIES.

4. THE SYMBOL C1 REFERS TO DESIGNATIONS IN THE COLUMN SCHEDULE LOCATED ON SHEET S0.3.

5. ALL CMU WALLS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE REINFORCED PER THE FOUNDATION PLAN. PROVIDE DOWELS TO SLAB OR STRUCTURE TO MATCH. REBAR SHALL BE CENTERED IN CELL U.N.O. GROUT REINFORCED CELLS SOLID.

6. ALL JOISTS SHALL HAVE 5" JOIST SEATS UNLESS NOTED, PROVIDE CEILING EXTENSIONS IN ALL AREAS.

7. THE BOTTOM OF DECK ELEVATIONS SHALL BE TYPICALLY 3" BELOW FINISHED FLOOR UNLESS NOTED ON PLANS THUS: B.O. DECK = ±X'-X" REFERENCED FROM ELEVATION 0'-0".

8. THE TOP OF BEAM AND JOIST BEARING ELEVATIONS SHALL BE TYPICALLY 8" BELOW THE FINISHED FLOOR SLAB UNLESS NOTED ON THE PLANS THUS: T.O.S.=±X'-X" REFERENCED FROM ELEVATION 0'-0".
9. SJ (STRUT JOIST) INDICATES THAT THE BOTTOM CHORD OF THE STEEL JOIST SHALL BE EXTENDED TO THE COLUMN. SEE DETAIL 5/S4.01.

10. THE CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF ALL FLOOR OPENINGS AND EQUIPMENT SUPPORTS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SUB-CONTRACTORS. SEE DETAILS 7/S4.01. PROVIDE ADDITIONAL JOISTS AS REQUIRED AT OPENINGS OR MECH., ELEC. PLUMBING EQUIPMENT. THE MAXIMUM OPERATING WEIGHT FOR EQUIPMENT SHALL BE AS NOTED ON THE PLAN.

11. SEE THE LINTEL SCHEDULE IN THE STRUCTURAL NOTES ON S5.01 FOR ALL LINTELS IN MASONRY WALLS UNLESS NOTED OTHERWISE. SEE THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE SIZE, LOCATION, TYPE, AND FIRE RATING OF ALL MASONRY OPENINGS. SEE 5/S5.01 FOR LINTELS IN CAVITY WALLS.

12. ALL INTERIOR WALLS ON THIS PLAN ARE BELOW THE ROOF FRAMING, UNLESS NOTED OTHERWISE.
13. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN. CONTRACTOR SHALL COORDINATE BETWEEN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS.

14. SEE THE ARCHITECTURAL DRAWINGS FOR THE SIZE AND LOCATION OF ALL NON-BEARING PARTITIONS.

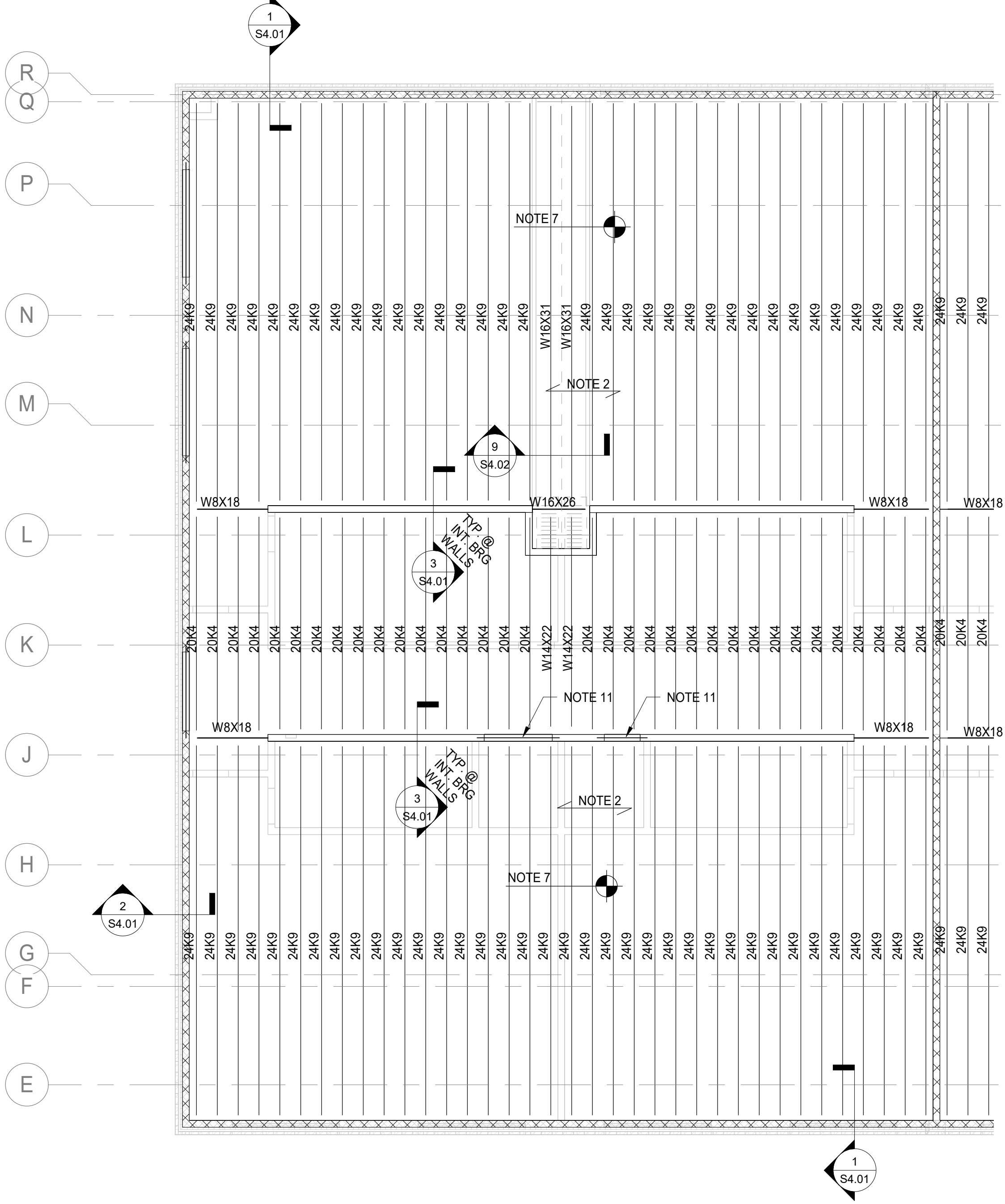
15. SMP INDICATES A SOLID MASONRY PIER. SEE DETAIL 3/S5.01.

16. PROVIDE JAMB REINFORCING PER 8/S5.01 AT ALL MASONRY OPENINGS. JAMB REINFORCING TO BE FULL HEIGHT OF WALL WITH MATCHING DOWELS TO SLAB OR STRUCTURE, AS REQUIRED.

17. UNLESS NOTED OTHERWISE ON PLAN, ASSUME THE FOLLOWING ULTIMATE (FACTOR) REACTIONS AT BEAM ENDS:

W8's AND W10's
W12's
W14's AND W16's
W18's AND W21's
W24's AND UP

USE R = 15 kips
USE R = 25 kips
USE R = 40 kips
USE R = 55 kips
USE R = 75 kips

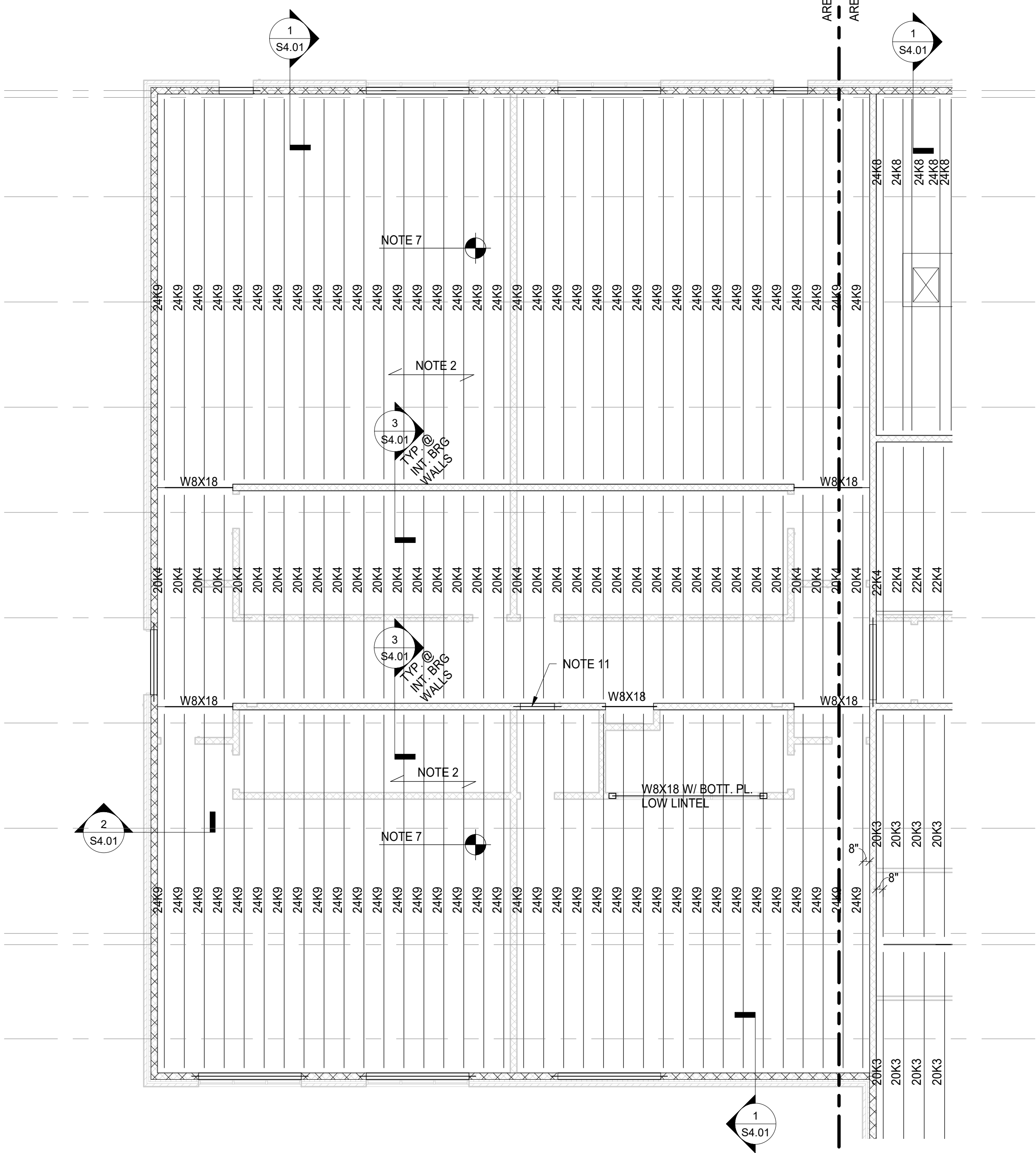


2

S1.14

AREA B - PARTIALROOF FRAMING PLAN - ALTERNATE

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

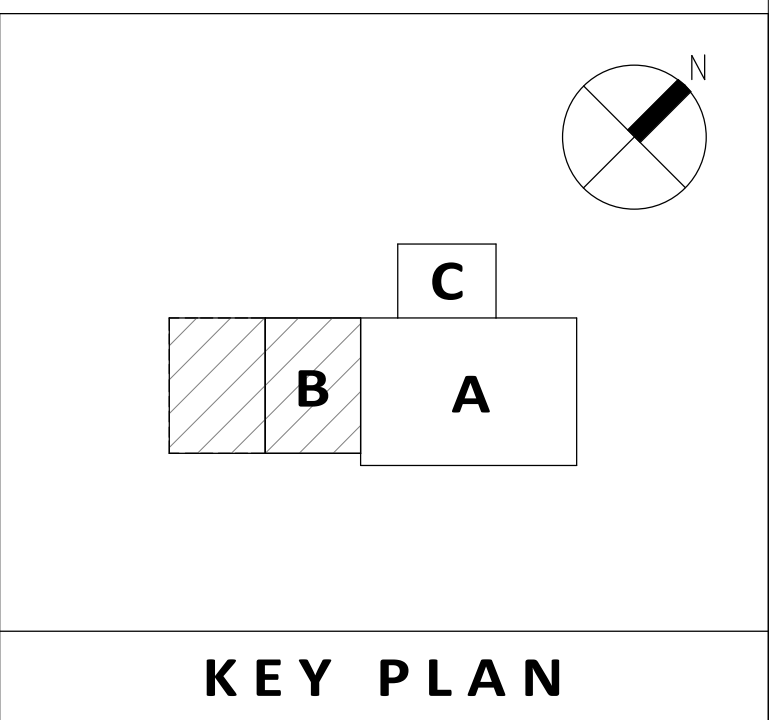


1


S1.14

AREA B - PARTIAL ROOF FRAMING PLAN

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



Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 22526, Civil/Structural, since 05/23/2010.



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REVISIONS			
NO.	MM-DD-YR	NAME	DESCRIPTION OF CHANGES
5	09-08-20	5	Addendum 5

CRABTREE ROHRBAUGH & ASSOCIATES - ARCHITECTS
100 WEST ROAD, SUITE 402, TOWSON MD 21204 410-528-0272
MECHANICSBURG, PENNSYLVANIA CHARLOTTEVILLE, VIRGINIA WHITE SULPHUR SPRINGS, WEST VIRGINIA

PROPOSED NEW
WASHINGTON COUNTY PUBLIC SAFETY TRAINING CENTER
WASHINGTON COUNTY PROJECT NO. 28-266
18350 PUBLIC SAFETY PLACE
HAGERSTOWN, MD 21740



FUT. 2ND FLOOR / ROOF FRAMING PLAN - AREA B

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

FILENAME:

DATE: December 18, 2019



ADTEK PROJECT #: 1713.0001

PROJECT
3089

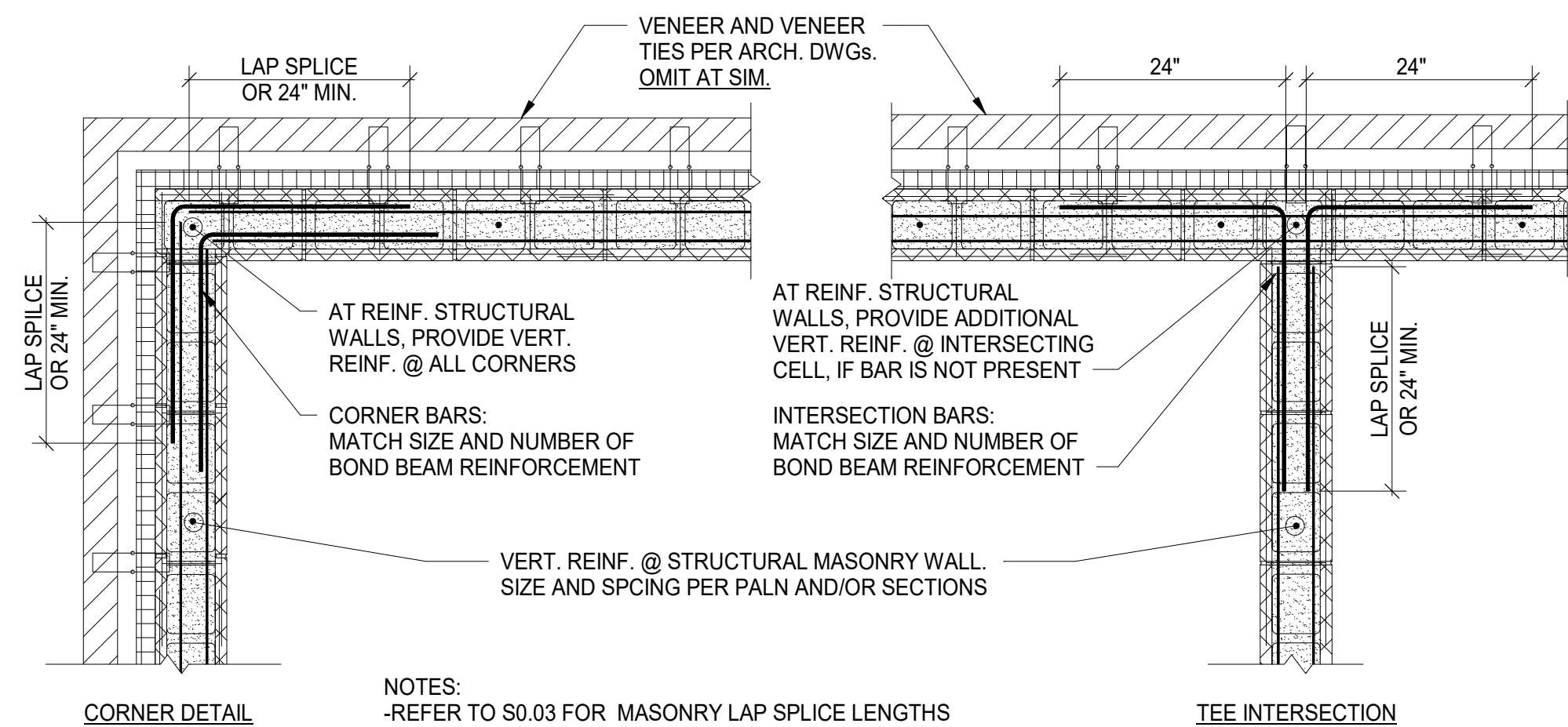
S1.14



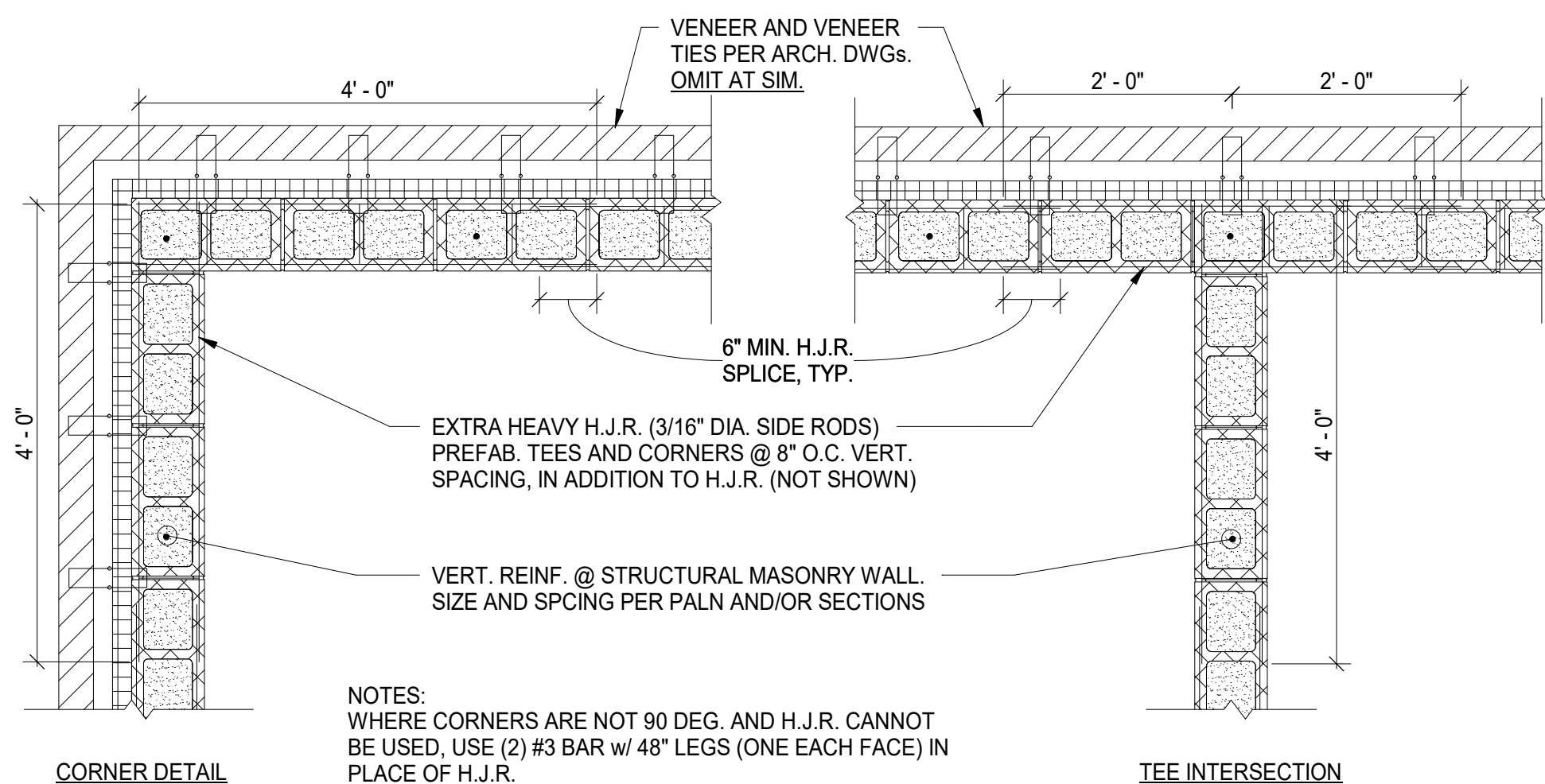
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

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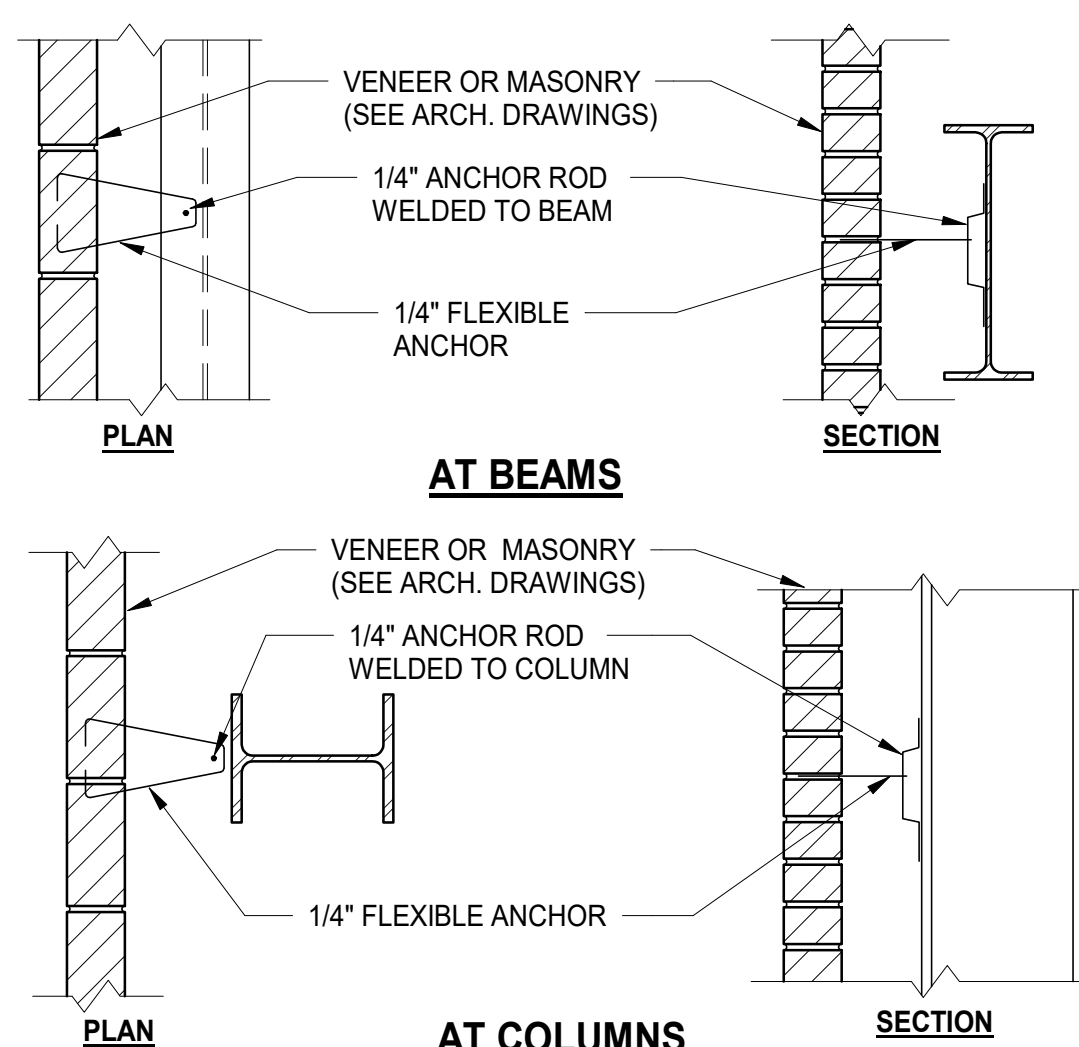
REVISIONS

[illegible]

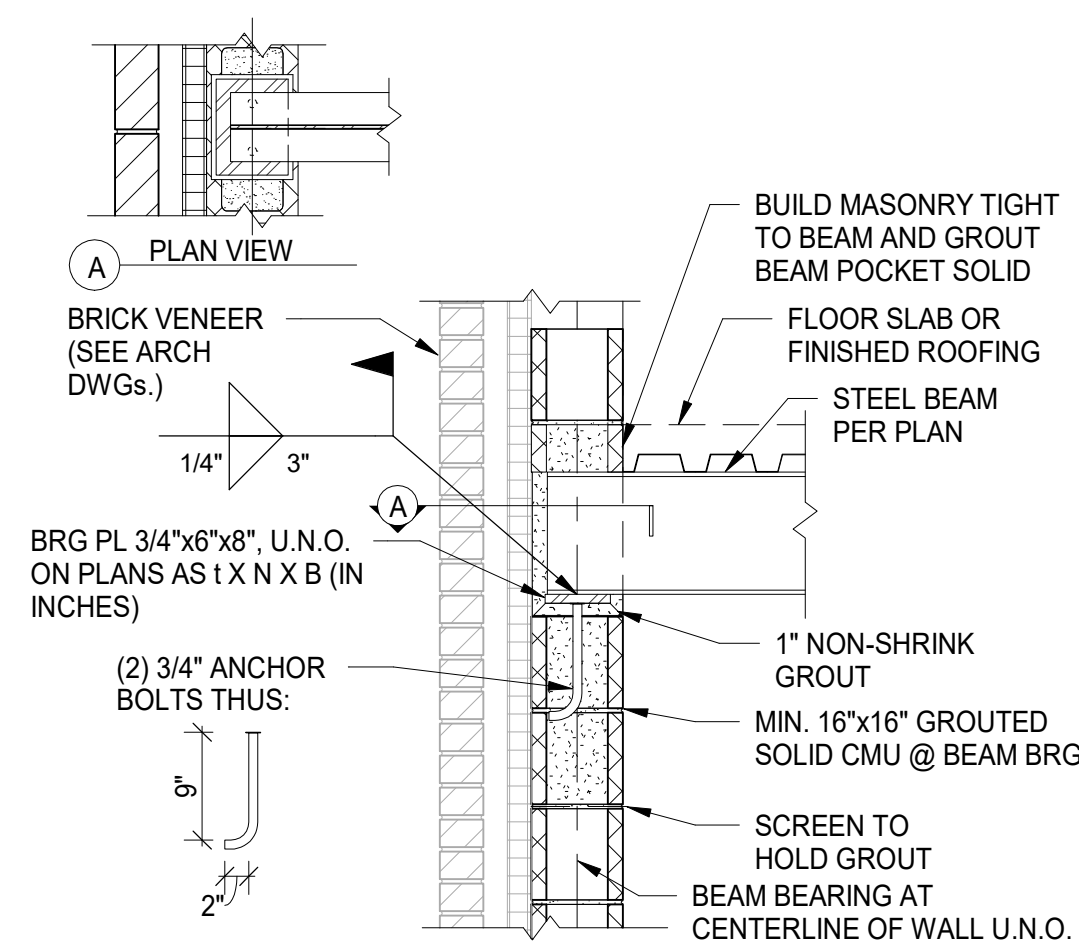
1	BOND BEAM CORNER / TEE INTERSECTION
S5.02	SCALE: 3/4" = 1'-0"



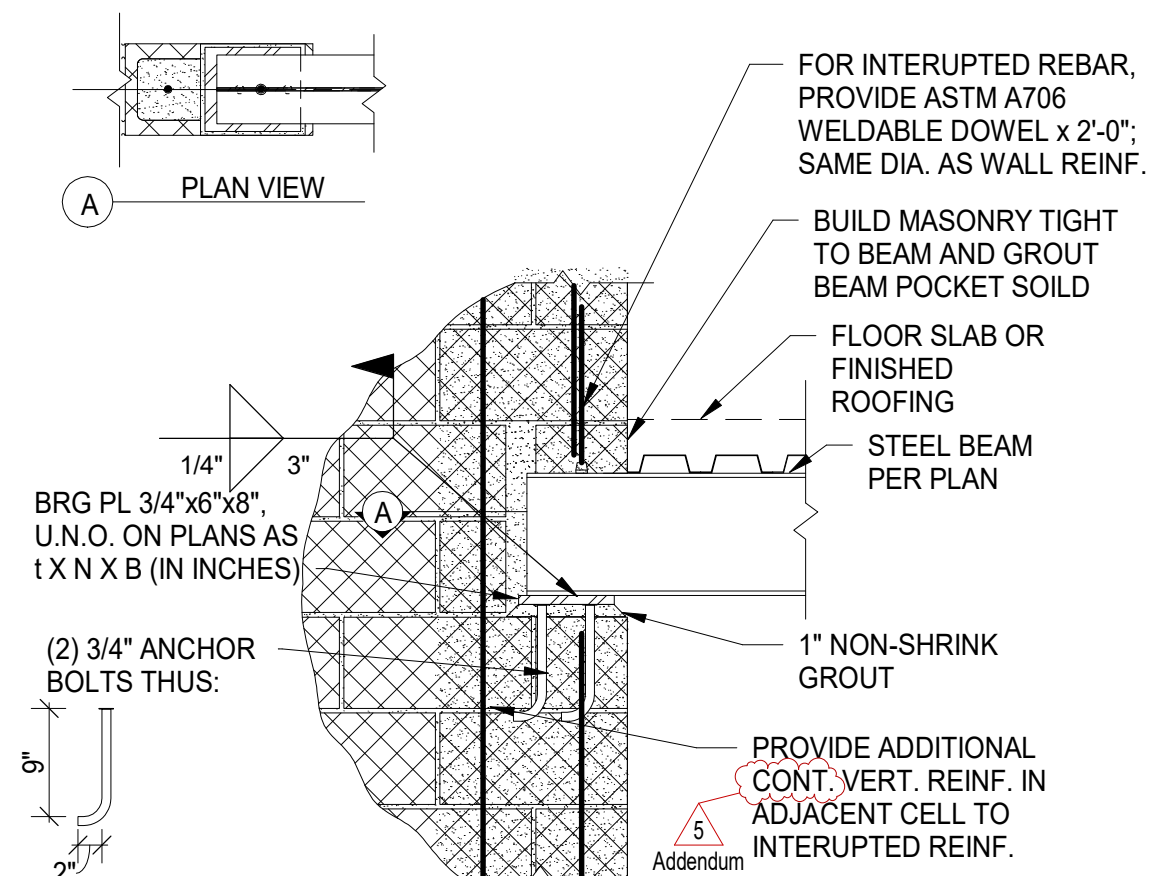
CORNER TEE INTERSECTION HJR
REINFORCING
SCALE: 3/4" = 1'-0"



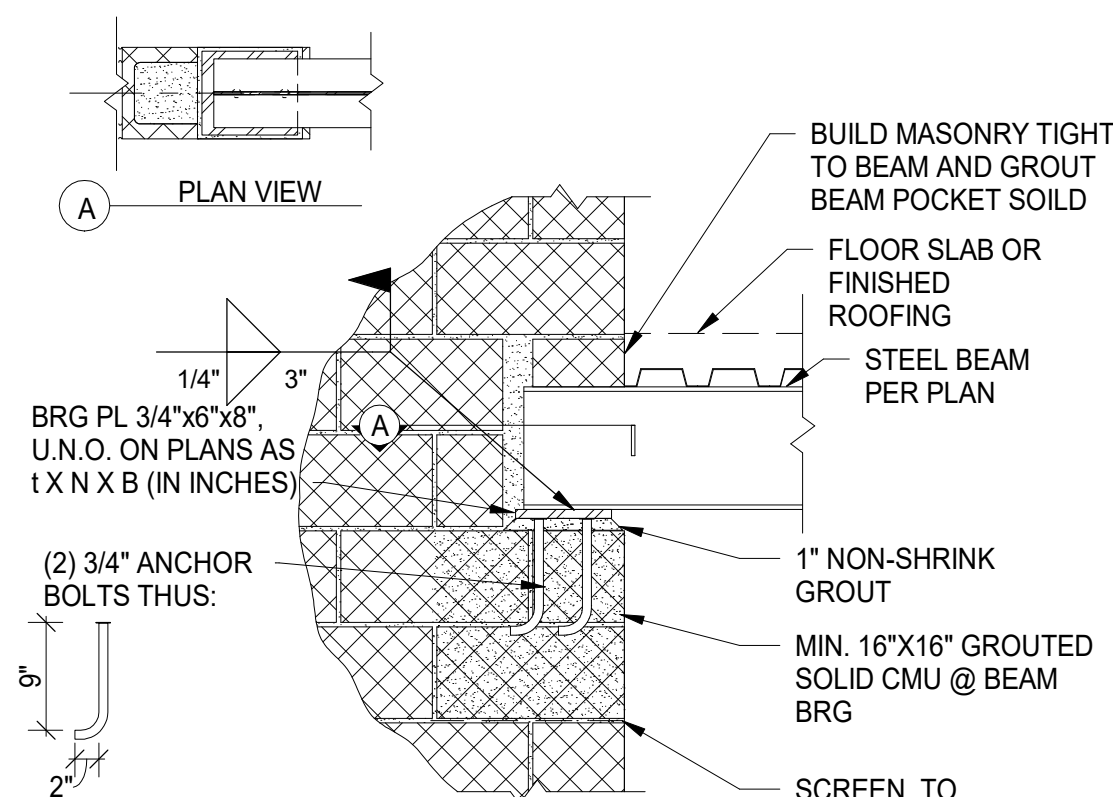
3 VENEER TIES AT BEAMS AND COLUMNS
S5.02 SCALE: 1" = 1'-0"



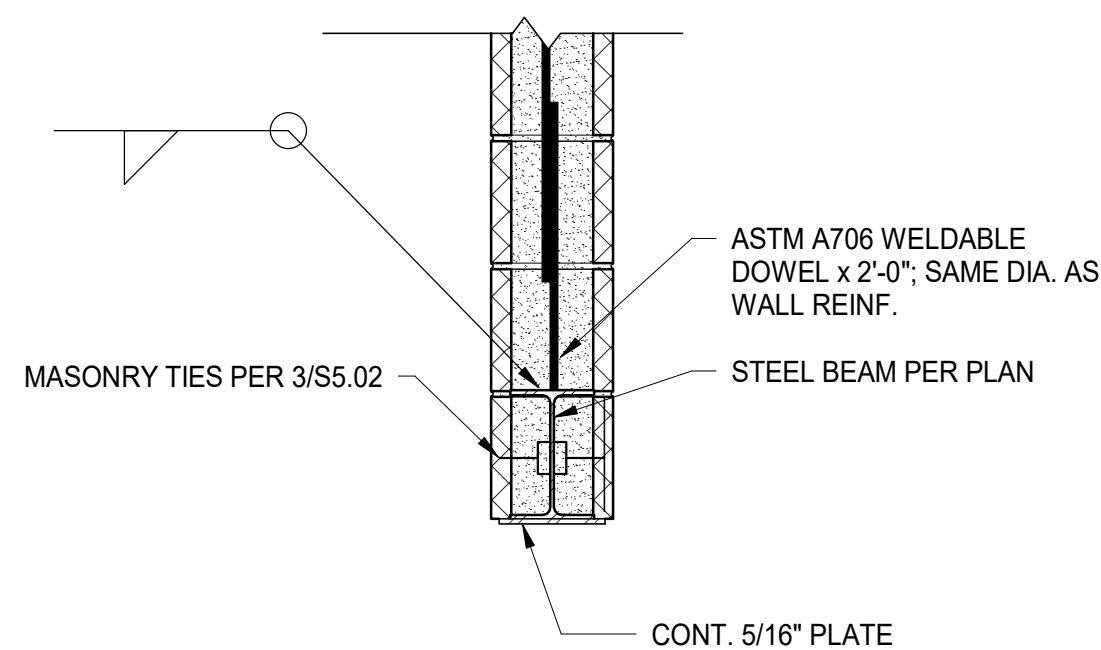
4 BEAM BEARING ON CMU WALL
S5.02 SCALE: 3/4" = 1'-0"



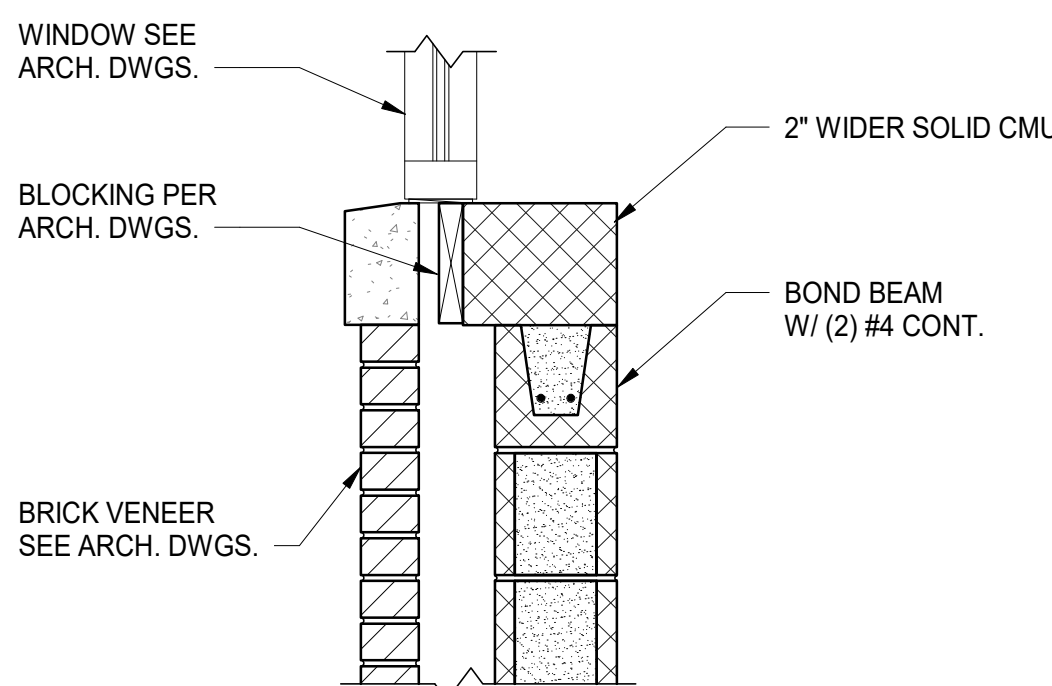
5 BEAM BEARING ON REINF. CMU WALL
S5.02 SCALE: 3/4" = 1'-0"



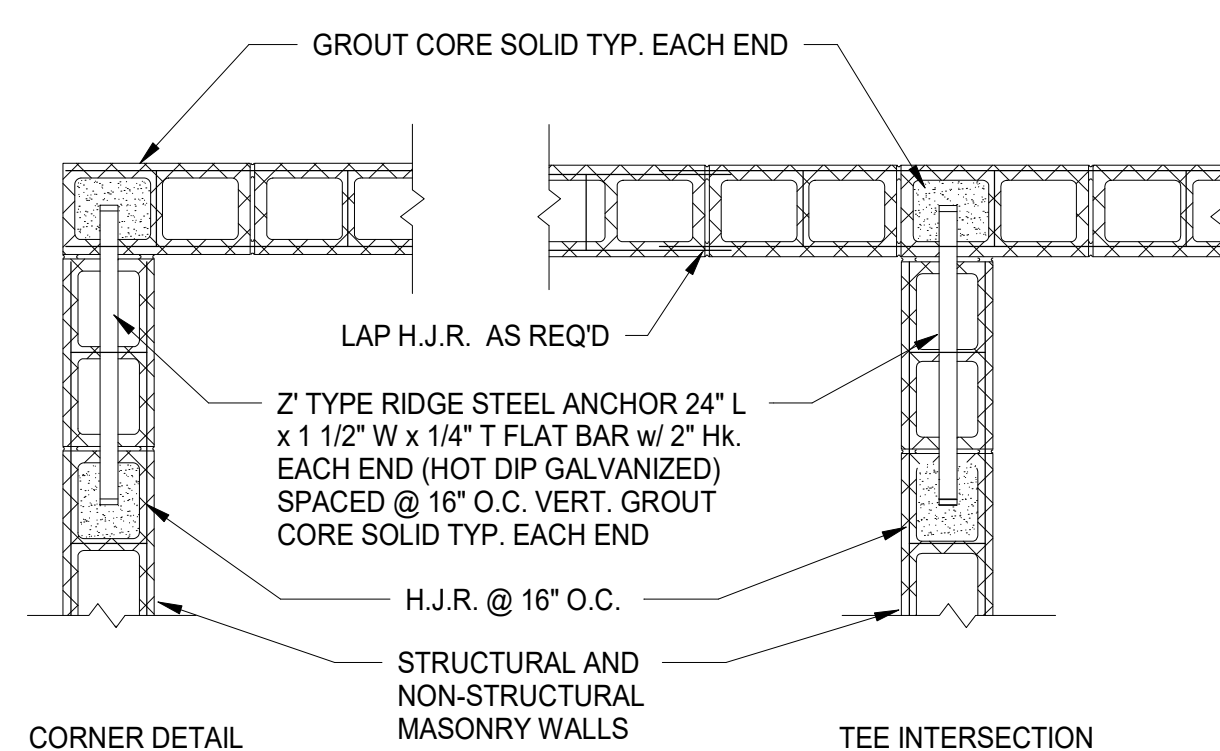
6 BEAM BEARING ON UNREINF. CMU WALL
S5.02 SCALE: 3/4" = 1'-0"



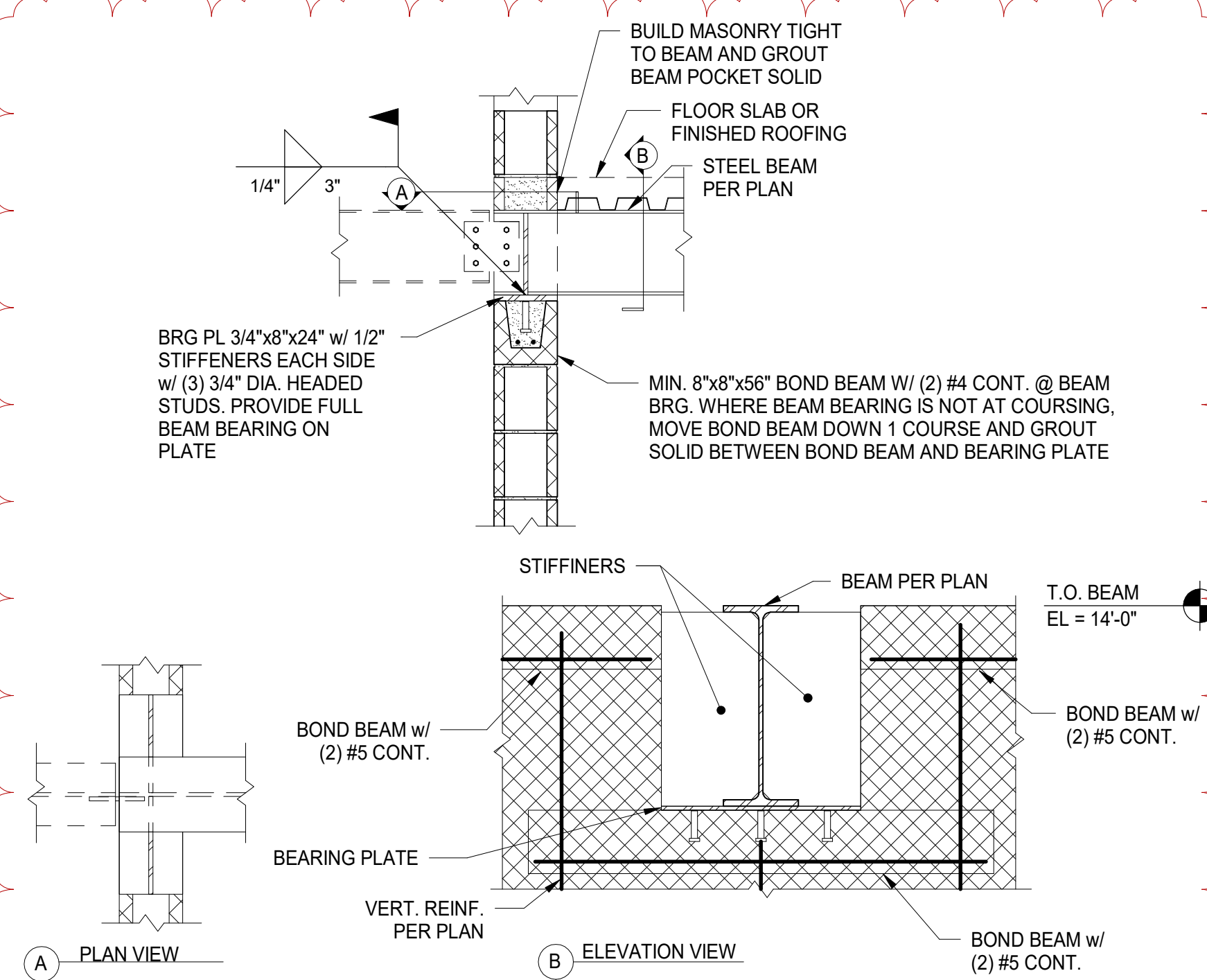
7 LINTEL BEAM w/ PLATE DETAIL
S5.02 SCALE: 1" = 1'-0"



8 WINDOW SILL DETAIL
S5.02 SCALE: 1" = 1'-0"



9 CORNER/TEE INTERSECTING WALL
S5.02 REINFORCING
SCALE: 3/4" = 1'-0"



10 BEAM BEARING ON CMU WALL
S5.02 SCALE: 3/4" = 1'-0"

**CRABTREE ROHRBAUGH & ASSOCIATES -
ARCHITECTS**

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 MECHANICSBURG, PENNSYLVANIA CHARLOTTESVILLE, VIRGINIA WHITE SULPHUR SPRINGS, WEST VIRGINIA
 www.cra-architects.com

PROPOSED NEW
WASHINGTON COUNTY PUBLIC SAFETY TRAINING CENTER
WASHINGTON COUNTY PROJECT NO. 28-266
18350 PUBLIC SAFETY PLACE
HAGERSTOWN, MD 21740



TYPICAL MASONRY WALL
DETAILS

PLOT SCALE:

As indicated

FILENAME:

DATE:

December 18, 2019



PROJECT
3089

S5.02

PLAN HOLDERS LIST
PUR-1401
WASHINGTON COUNTY PUBLIC SAFETY TRAINING CENTER

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PBX	Karen Kleber	Managing Editor	1813 N Franklin St		Pittsburgh	PA	15233	(412) 922-4200	(412) 928-9406	Karen@pbe.org
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JH Waters, Inc.	Beth Briggs	Bid Processor	189 Eisaman Road		Irwin	PA	15642	(724) 863-0435	(724) 863-5498	beth@jhwaters.com
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Frank B. Leshar Co., Inc.	Timothy Lady	Estimator	1680 Edgar Ave		Chambersburg	PA	17201	(717) 263-9248	(717) 263-6129	tim@fblelectric.com

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Beck & Call Professional Services, LLC	Felicia Daniel	Manager	9314 KENDAL CIR		Laurel	MD	20723	(301) 310-8954		fdaniel@bcpsorganic.com
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HP ELECTRONICS, INC.	Joseph Schwartz		2300 Sulphur Spring Rd		Baltimore	MD	21227	(410) 242-4077	(410) 247-4777	joes@hpelectronics.com
Corbett Technology Solutions, Inc.	Luis Colon	Systems Engineer	1 Easter Court, Suite J		Owings Mills	MD	21117	(410) 583-8900		lcolon@ctsi-usa.com
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Cooper Building Services, LLC	Camille Edwards	Business Development	7450 New Technology Way A		Frederick	MD	21703	(240) 599-4761	(000) 000-0000	cedwards@cooperbuilds.com
Sika	Ellen Walkama	Inside Sales	62 Kirk Circle		Plymouth	MA	2360	(508) 308-2573		walkama.ellen@us.sika.com
Skyline Technology Solutions	Peter Pavlov	Principal Architect, Physical Security	2409 Peppermill Drive, Suite K		Glen Burnie	MD	21061	(410) 590-2084		ppavlov@skylinenet.net
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Brechbill & Helman Construction Company Inc.	Ben Coldsmith	Senior Estimator	1115 Sheller Ave		Chambersburg	PA	17201	(717) 263-4621	(717) 263-8498	estimating@bandhconst.com
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bidnet	kurt bidnet		15 british american blvd		Latham	NY	12110	(800) 677-1997		gbs@bidnet.com
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