CORNELL UNIVERSITY
CLARA DICKSON HALL ROOF REPAIRS
PHASE 2, 3, & 4

21 Northcross Road, Ithaca, NY 14853



LIST OF DRAWINGS

CS	COVER SHEET
G0.00	SITE LOGISTICS PLAN
G0.01	PHASING PLAN
FR0.01	GENERAL NOTES AND SPECIAL INSPECTIONS
FR1.01	ROOF PLAN - NORTH
FR1.02	ROOF PLAN - SOUTH
FR2.01	ELEVATIONS
FR2.02	ELEVATIONS
FR2.03	ELEVATIONS
FR2.04	ELEVATIONS
FR2.05	ELEVATIONS
FR2.06	ELEVATIONS
FR3.01	ROOFING DETAILS
FR3.02	ROOFING DETAILS
FR3.03	ROOFING DETAILS
FR4.01	CORNICE & DORMER DETAILS
FR5.01	MASONRY DETAILS
FR5.02	MASONRY DETAILS
FR5.03	MASONRY DETAILS
FR5.04	MASONRY DETAILS
FR5.10	TYPICAL DETAILS
AR1.01	ASBESTOS ROOFING ABATEMENT PLAN AND NOTES

PROJECT LOCATION



LOCATION MAP
NOT TO SCALE

N

ABBREVIATIONS

ADDL	-	ADDITIONAL	LLV	-	LONG LEG VERTICAL
AFF	-	ABOVE FINISH FLOOR	MANUF	-	MANUFACTURER
ARCH	-	ARCHITECT (URAL)	MAX	-	MAXIMUM
BM	-	BEAM	MEP	-	MECHANICAL/ELECTRICAL/PLUMBING
BOTT	-	BOTTOM	MIN	-	MINIMUM
CL	-	CENTERLINE	MISC	-	MISCELLANEOUS
CLR	-	CLEAR	NIC	-	NOT IN CONTRACT
CMU	-	CONCRETE MASONRY UNIT	NTS	-	NOT TO SCALE
COL	-	COLUMN	OC	-	ON CENTER
CONC	-	CONCRETE	OHD	-	OVERHEAD DOOR
CONT	-	CONTINUOUS	PL	-	PLATE
Ø	-	DIAMETER	PT	-	PRESSURE TREATED
DIM	-	DIMENSION	REQD	-	REQUIRED
DWG	-	DRAWING	RWC	-	RAIN WATER CONDUCTOR
EA	-	EACH	SIM	-	SIMILAR
EF	-	EACH FACE	SL	-	SLOPING/SLOPED
ELEV	-	ELEVATION	SS	-	STAINLESS STEEL
EQ	-	EQUAL	STL	-	STEEL
EW	-	EACH WAY	STRUC	-	STRUCTURAL
(E)	-	EXISTING	TOS	-	TOP OF STEEL
EX.	-	EXISTING	TRANS	-	TRANSVERSE
FND	-	FOUNDATION	TYP	-	TYPICAL
FTG	-	FOOTING	UNO	-	UNLESS NOTED OTHERWISE
HORIZ	-	HORIZONTAL	VERT	-	VERTICAL
IBC	-	INTERNATIONAL BUILDING CODE	VIF	-	VERIFY IN FIELD
IN	-	INCH	W/	-	WITH
INCL	-	INCLUDE (D) (ING)	WF	-	WIDE FLANGE
LLH	-	LONG LEG HORIZONTAL	WWR	-	WELDED WIRE REINFORCEMENT

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:

David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:
BID SET

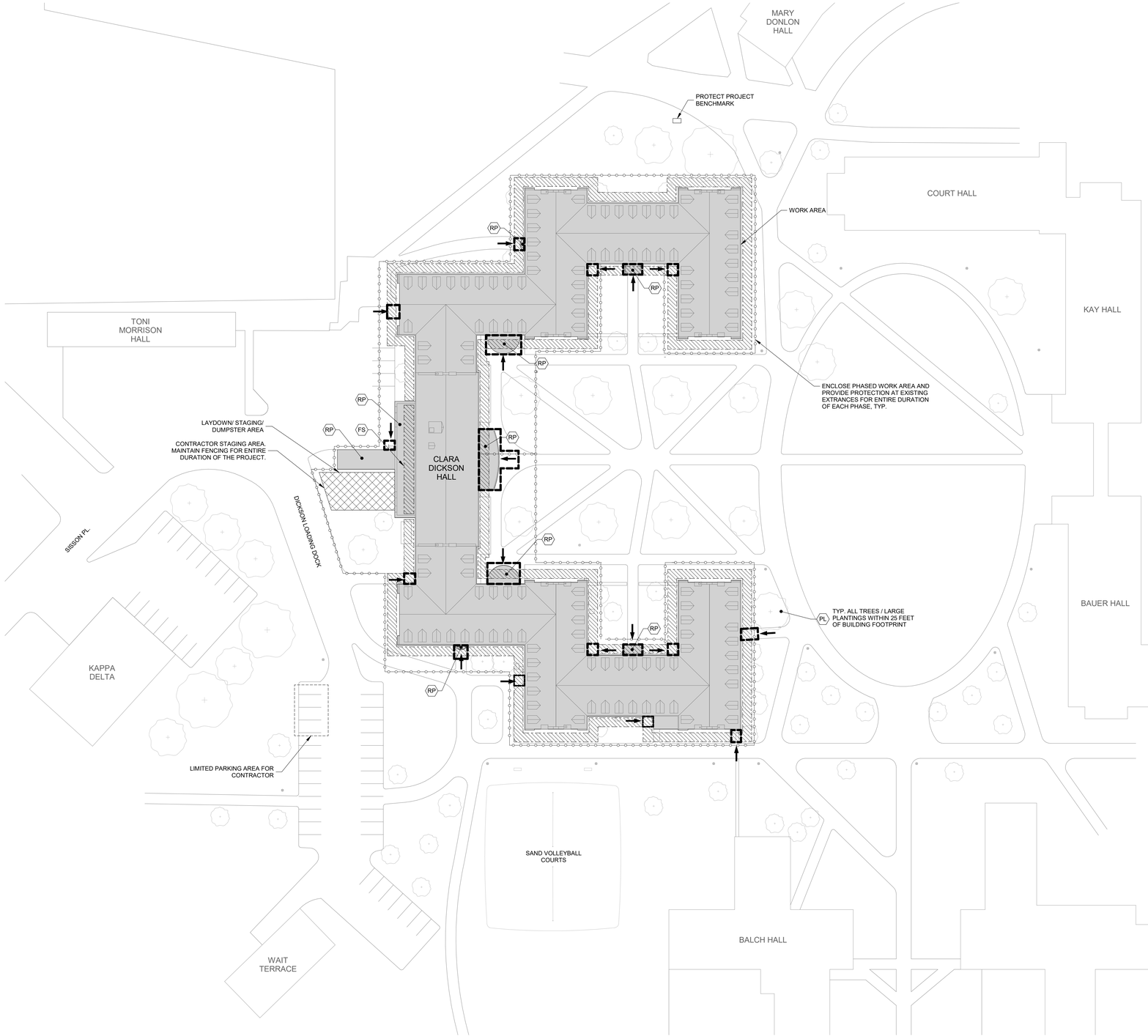
Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:
COVER SHEET

Job Number: E19.054B
Date: 04/11/25 | Scale: As indicated

Drawing Number:
CS

4/11/2025 2:03:15 PM



1 G0.00 SITE LOGISTICS PLAN
1" = 30'-0"

SITE LOGISTICS NOTES

1. Access: The Contractor shall be responsible for providing access to all work areas. Access may not be permitted through the interior of the building.
2. Scaffolding: Scaffolding access is to be secured from unauthorized use at the end of each work day to the level the Owner deems appropriate.
3. Site Security: Signage and barricades to prevent access to work areas are the responsibility of the Contractor. Site security measures shall be approved by the Owner and monitored on a daily basis.
4. Building Occupancy: The building will be occupied during the course of construction. The Contractor shall coordinate the scheduling of all work activities directly impacting the Owner's use of the building to facilitate the issuance of necessary notifications, relocation of equipment / personnel, etc.
5. Work Hours: 7:00 am start. Special hours to be approved by Owner. No loud work before 8:00 am
6. Fire: Unrestricted access to all fire department connections shall be maintained during the course of construction.
7. Paths and Walkways: All paths / walkways in work areas shall be maintained for use by the Owner at the end of each work day.
8. Sidewalks / Driveways / Doorways: All sidewalks, driveway, and means of egress shall be maintained throughout the duration of construction unless special permission is obtained.
9. Tree Protection: All trees in proximity to the work site shall be protected at the perimeter of their drip lines with fencing. It shall be the Contractor's responsibility to identify and protect trees. Damaged trees will be replaced in kind and reflect the existing species type and maturity.
10. Site Preservation: With the exception of areas scheduled for drainage and regrading, It is the responsibility of the Contractor to preserve all site features, including but not limited to landscaping and fixtures, in a condition that meets or exceeds the original condition of the individual elements. Remedying damage will be performed at no cost to the Owner by the Contractor, to the level the Owner deems appropriate.
11. Temporary Utilities: Contractor shall be responsible for coordination and installation of their own temporary power connections.
12. Self-Contained Toilet Units: No access to building toilets will be permitted. Provide single-occupant units of chemical, aerated recirculation, or combustion type; fully enclosed with a glass-fiber-reinforced polyester shell or similar non-absorbent materials. Owner shall approve location of toilets during pre-construction activities.
13. Site Cleanup: At the close of every construction day, all materials, tools, and equipment shall be stored and secured by the Contractor in designated areas. All construction debris shall be disposed of in designated receptacles managed by the Contractor. All work areas shall be tidied and broom swept or raked to remove small pieces of debris.
14. Material Disposal: All demolition or excess restoration materials are the responsibility of the Contractor and shall be legally recycled or disposed of off-site, except where otherwise indicated as salvageable.
15. Dust Control: The Contractor shall be responsible for managing the site to minimize the development of dust. The Contractor shall submit a dust control plan for review and approval by the Owner and Engineer prior to construction.

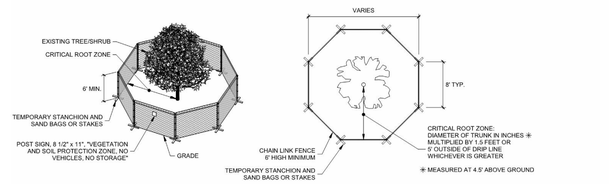
PROTECTION PLAN NOTES:

The Contractor shall prepare a comprehensive Temporary Control and Protection Plan submittal for the project for review/approval by the Engineer and Owner prior to the commencement of construction activities. This plan is to include, but not be limited to, the following activities/measures:

1. Preconstruction Documentation: Prior to mobilization for construction, the Contractor shall visit the site to document the existing condition of the site features (i.e.; sidewalks, paving, roofing systems, retaining walls, light fixtures, etc.). For interior finishes, the Contractor shall coordinate with the Owner and Engineer to conduct a preconstruction survey at approximate locations where work is to occur to document existing water damage. Documentation (pictures, video, etc.) shall serve as a baseline for the repair of items damaged during the course of construction (to be repaired at the Contractor's expense).
2. Weather Protection Plan: The Contractor shall be responsible for providing and maintaining measures (i.e.; EPDM tarps/drapes, supporting frames, etc.) needed to protect the interior of the building from damage by weather during the course of construction.
3. Roof Protection Plan: The Contractor shall provide and maintain means to protect the existing roofing systems from damage during construction (i.e. rigid insulation/plywood cover boards, etc.) and shall be responsible for the repair of any/all damage to the roofing system resulting from construction activities.
4. Scaffolding Shop Drawing Submittals: Staging of fixed scaffolding off the roof areas to access work area will be considered based upon the review / approval of scaffolding shop drawing submittals. Submittals shall include the scaffolding system description, extents, post loads, means of distributing these loads to the roof framing and additional roofing system protection measures. For planning purposes assume an allowable roof construction live load of 30 psf for distribution of construction materials and scaffolding post loads. Increasing the allowable loading will be considered but will require the Contractor to submit signed / sealed engineering calculations assessing to capacity of the existing structure in each of the affected areas.

SITE LOGISTICS KEY:

- APPROXIMATE EXTENT OF WORK AREA.
- APPROXIMATE EXTENT OF APPROVED LAYDOWN / STAGING AREAS.
- APPROXIMATE EXTENT OF PERIMETER SITE FENCING TO BE PROVIDED AND MAINTAINED DURING THE COURSE OF CONSTRUCTION.
- APPROXIMATE EXTENT OF SCAFFOLDING TO BE COORDINATED WITH PROPOSED CONSTRUCTION PHASING.
- APPROXIMATE EXTENT OF PEDESTRIAN BRIDGING AT BUILDING ENTRANCES TO BE MAINTAINED DURING THE COURSE OF CONSTRUCTION. IN LOCATIONS WHERE PEDESTRIAN BRIDGING IS INDICATED TO BE PROVIDED AT AN EXISTING PORTICO ROOF, PEDESTRIAN PROTECTION SHALL EXTEND OVER THE PORTICO ROOF. COORDINATE WITH PROPOSED CONSTRUCTION PHASING.
- (PL) LOCATION OF EXISTING PLANTING TO REMAIN AND BE PROTECTED DURING THE COURSE OF CONSTRUCTION. PROVIDE TREE PROTECTION IN ACCORDANCE WITH OWNER'S STANDARD REQUIREMENTS. REFER TO DETAIL A/G0.00.
- LOCATION OF EXISTING BUILDING ENTRANCES TO BE MAINTAINED DURING THE COURSE OF CONSTRUCTION
- (RP) EXISTING ROOF AREA TO BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. PROVIDE 2" MIN. THICK RIGID INSULATION AND PLYWOOD COVER BOARDS OVER ENTIRE ROOF AREA.
- (FS) ROOF AREA WHERE FIXED SCAFFOLDING MAY BE STAGED, PROVIDED POST LOADS ARE DISTRIBUTED TO THE EXISTING ROOF DECK SO AS NOT TO EXCEED 30 PSF.



NOTES:

1. CONTACT DIG SAFELY NEW YORK (DIAL 811) PRIOR TO INSTALLING PROTECTIVE FENCING.
2. PROTECTION ZONE FENCING SHALL BE ERECTED AT THE EDGE OF THE CRITICAL ROOT ZONE OR BEYOND PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
3. THE PROTECTED CRITICAL ROOT ZONE OF EACH TREE SHALL EXTEND FROM THE TRUNK A MINIMUM DISTANCE OF THE DIAMETER OF THE TRUNK IN INCHES (MEASURED AT 4.5' ABOVE GROUND) MULTIPLIED BY 1.5 FEET OR 5' OUTSIDE OF DRIP LINE, WHICHEVER IS GREATER.
4. CHAIN LINK FENCE SHALL BE MINIMUM 6' HIGH ON ALL SIDES.
5. FENCE SHALL BE SUPPORTED BY VERTICAL POSTS WITH TEMPORARY STANCHIONS AND SAND BAGS.
6. NO VEHICULAR TRAFFIC, STOCKPILING OF MATERIALS OR STORAGE OF EQUIPMENT SHALL BE ALLOWED WITHIN THE FENCING. FENCING SHALL NOT BE MOVED OR REMOVED UNLESS APPROVED BY THE PROJECT MANAGER.
7. FENCING SIGNAGE AS DETAILED MUST BE POSTED IN A VISUALLY PROMINENT LOCATION.
8. MULTIPLE TREE FENCE LAYOUT PREFERRED OVER FENCING EACH TREE INDIVIDUALLY.

A PROTECTIVE CHAIN LINK CONSTRUCTION FENCING FOR TREES, SHRUBS, ROOTS AND SOIL DETAIL

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:



David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:
BID SET

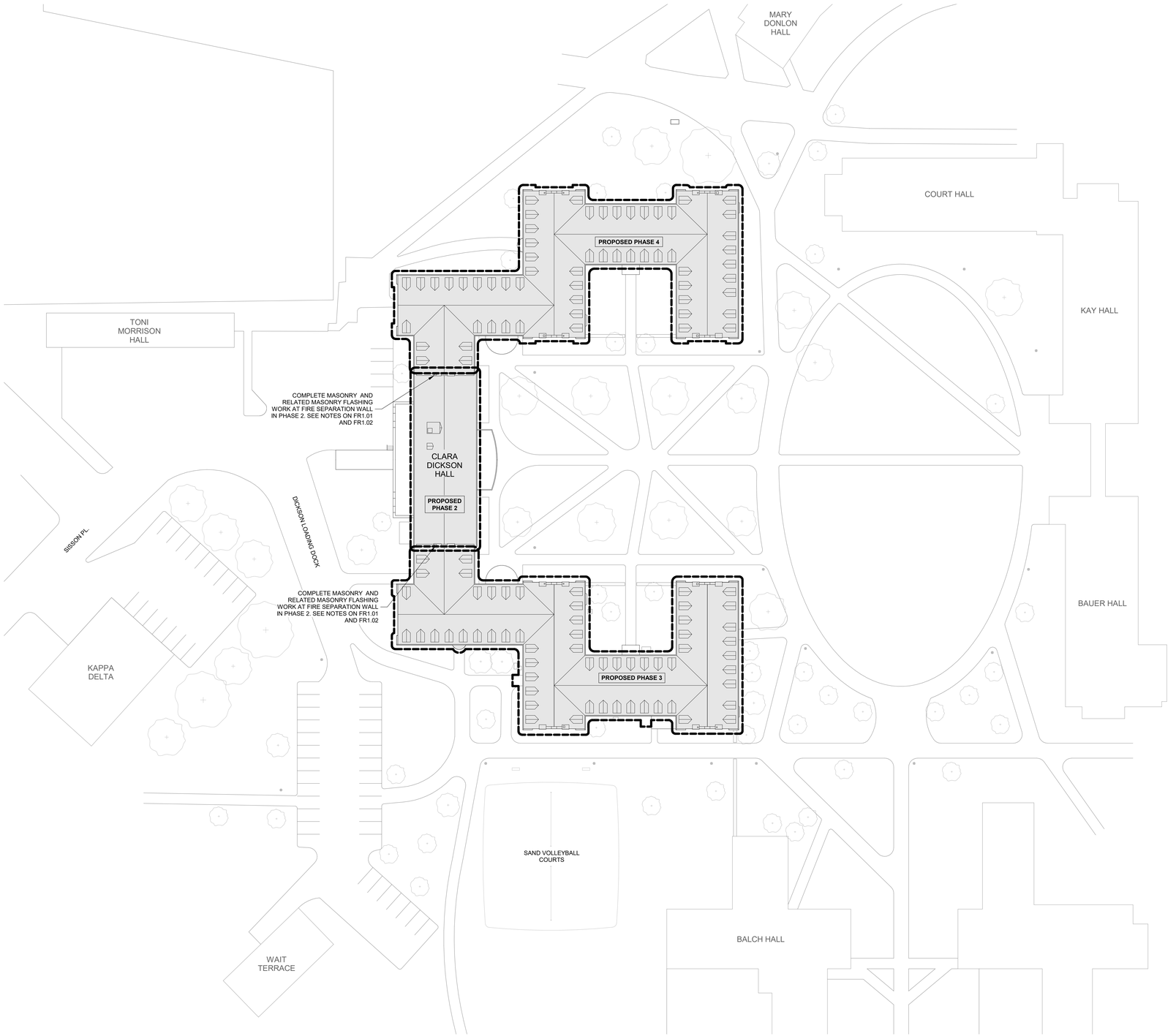
Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:
SITE LOGISTICS PLAN

Job Number: E19.054B
Date: 04/11/25 Scale: As indicated

Drawing Number:
G0.00

4/11/2025 2:03:28 PM



1 G0.01 PHASING PLAN

PROJECT SEQUENCING NOTES

COMPLETE WORK SEQUENTAILLY, DO NOT BEGIN WORK IN OTHER PHASE UNTIL CURRENT PHASE IS COMPLETE.

EACH PHASE WILL BE PUNCHED OUT AT THE COMPLETION OF THE WORK. BUILDING WILL BE RETURNED TO OWNER FOLLOWING SATIFACTORY COMPLETING OF PUNCH LIST ITEMS

FOR INTERUPTIONS IN ENTRANCE USE WITHIN PHASE SEQUENCE. LIMIT TEMPORARY CLOSURE TO RELOCATION OF PROTECTIVE FENCING AND BARRICADES ONLY. PROVIDE OWNER WITH 72 HRS NOTICE PRIOR TO TEMPORARY CLOSURE.

PHASE 1 - COMPLETED
PHASE 2 - SPRING, SUMMER, AND FALL 2026
PHASE 3 - SPRING, SUMMER, AND FALL 2027
PHASE 4 - SPRING, SUMMER, AND FALL 2028

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:

David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions
1	12/14/22	Modifications to phasing scope

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:

BID SET

Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:

PHASING PLAN

Job Number: E19.054B
Date: 04/11/25 Scale: As indicated

Drawing Number:

G0.01

4/11/2025 2:03:28 PM

GENERAL NOTES

1.0 GENERAL

1. All work shall conform to the 2020 Existing Building Code of New York State and to all other applicable Federal, State, and local regulations.
2. Work not indicated on a part of the drawings but reasonably implied to be similar to that shown at corresponding places shall be repeated.
3. Contractor shall verify and/or establish all existing conditions and dimensions at the site.
4. If the existing field conditions do not permit the installation of the work in accordance with the details shown, the Contractor shall notify the Engineer immediately and provide a sketch of the condition with their proposed modification of the details given on the contract documents.
5. Where alterations involve the existing supporting structure, the Contractor shall provide shoring and protection required to ensure the structural integrity of the existing structure.
6. Bracing, sheeting, shoring, etc., required to support existing buildings, sidewalks, utilities, etc., shall be designed by a professional engineer licensed in the State of New York, engaged by the Contractor; Contractor to provide signed and sealed detailed shop drawings and calculations indicating all shoring/bracing work to be performed for submission and review.
7. In no case shall heavy equipment be permitted closer than 8'-0" from any foundation wall. If it is necessary to operate such equipment closer than 8'-0" to the wall, the Contractor shall be the sole responsible party and, at their own expense, shall provide adequate supports or brace the wall to withstand the additional loads superimposed from such equipment.
8. Special inspection is required of all construction delineated on the drawings. The Owner shall employ a testing/inspection agency which shall provide personnel with the following minimum qualifications:
   a. Certified by National Institute for Certification in Engineering Technologies (NICET), or other recognized comparable organization.
   b. For inspection, sampling, testing concrete and masonry: ACI Certified Concrete Field-Testing Technician, Grade I; and Construction Inspector, Level II.
   c. Submit periodic reports to Engineer during construction. Submit final inspection report summary for each division of work, certified by a licensed professional engineer, that special inspections were performed, and that work was performed in accordance with Contract Documents.
9. If initial inspections made by the Owner's testing and inspection agency reveal that any portion of the work does not comply with the Contract Documents, additional tests, inspections, and necessary repairs will be made at the Contractor's expense.
10. If differences occur within or between drawings and specifications regarding materials, strength, or quantities, the better material, higher strength, and greater quantity indicated, specified, or noted shall be provided.

2.0 EXISTING CONDITIONS

1. Verify and/or establish all existing conditions, locations, and dimensions of walls, slabs, framing, utilities, finishes, materials, and systems affecting the work. Notify the Engineer of any discrepancies from information indicated on contract documents prior to ordering materials. Verify clearances required for all new equipment, piping, ductwork, and related components.
2. Existing conditions as they appear in these contract documents may vary from actual conditions because of work performed prior to the start of work for this contract. Portions of the selective demolition work may be included in the scope of work of another contract. Verify the actual scope of selective demolition prior to submitting the bid.
3. The structural work is based on documents of the existing construction. Verify and/or establish that existing building components conform to the original building documents. Examine the layout, elevations, member sizes, connection, details, etc. of the existing structure. Report any discrepancies with the original building construction documents to the Engineer before any affected work is performed.

3.0 SELECTIVE DEMOLITION

1. Where building alterations involve supporting the existing structure, provide shoring and protection to ensure the structural integrity of the existing structure. Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain.
2. The Contractor is responsible for determining all instances in which shoring/bracing is required. Shoring/bracing indicated in the Contract Documents may or may not constitute the extent of shoring/bracing required.
3. Shoring/bracing required to support the existing structure shall be designed by a Professional Engineer licensed in the State of New York, engaged by the Contractor. The Contractor to provide signed and sealed detailed shop drawings and calculations indicating all shoring/bracing work to be performed for submission and review.
4. Selective Demolition Definitions:
   a. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and salvaged or reinstalled.
   b. Remove and Salvage: Detach from existing construction, in a manner to prevent damage, and deliver to Owner/G.C.
   c. Remove and Reinstall: Detach items from existing construction, in a manner to prevent damage, prepare for reuse, and reinstall where indicated.
   d. Existing to Remain: Leave existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.
   e. Dismantle: To disassemble or detach a historic item from a surface, or a historic or non-historic item from a historic surface, using gentle methods and equipment to prevent damage to historic items and surfaces; disposing of items unless indicated to be salvaged or reinstalled.
5. Contractor shall protect the existing building during all selective demolition for the duration of the construction activities.
6. Patch, repair, or replace existing finishes and materials disturbed during selective demolition. Repairs or replacement shall match adjacent existing and/or new finish materials and meet the approval of the Engineer and Owner, U.N.O.
7. Remove finishes from existing construction and expose existing construction as required. Notify the Engineer of any deterioration or cracking of the existing construction prior to proceeding with any affected work.
8. Do not cut openings in beams, columns, walls, or footings without the approval of the Engineer before field cutting the opening.

4.0 MASONRY

1. Masonry has been designed in accordance with the Building Code Requirements for Masonry Structures (TMS 402-16) and shall be constructed in accordance with Specifications for Masonry Structures (TMS 602-16), except where otherwise modified by these General Notes and Specifications.
2. Concrete block masonry units with Integral Water Repellent: Provide units made with integral water repellent for all exterior envelope backup masonry, exposed applications, chimneys or where specifically indicated.
   a. Concrete block masonry units: ASTM C90, Type I normal weight aggregate f'_c = 2,000 (psi) for block used with Type S mortar. Prisms to have a minimum 28-day compressive strength f'_m of 2,000 psi.
   b. Integral Water Repellent: Liquid polymeric, integral water-repellent admixture that does not reduce flexural bond strength. Units made with integral water repellent, when tested in accordance with ASTM E514/E514M as a wall assembly made with mortar containing integral water-repellent manufacturer's mortar additive, with test period extended to 24 hours, will show no visible water or leaks on the back of test specime
3. Mortar with water-repellent admixture: Provide liquid water-repellent mortar admixture intended for use with CMUs containing integral water repellent from same manufacturer. The type of mortar shall be based on consideration of the location of the unit masonry construction as follows:
   a. Exterior Above Grade:
      1. Parapets or Chimneys: Type S
4. Grout placement shall not start until the placement of reinforcing has been approved by the Owner's inspection agency.
5. Build and test masonry during construction to verify f'_m for each class of masonry construction. Determine net area compressive strength f'_m of masonry from average net area compressive strengths of masonry units and mortar types (Unit-Strength Method) according to tables in TMS 602-16.
6. Fill CMU lintels, bond beams, beam bearings, and cells with reinforcement solid with grout. Grout shall have a minimum 28-day compressive strength of f'_c = 2,500 psi.
7. Reinforcing steel: ASTM A-615 Grade 60.
8. Welded Reinforcing Steel: ASTM A-706 Grade 60.
9. Welding of reinforcement shall be with low hydrogen E80-XX electrodes for welding ASTM A-706 bars.
10. All welding of reinforcing steel shall be in accordance with AWS D1.4, "Structural Welding Code – Reinforcing Steel". Only welders specifically certified for reinforcing steel and in accordance with AWS D1.4 shall perform welding of reinforcing steel.
11. All cells having vertical reinforcement shall be grouted solid.
12. All vertical reinforcement shall be centered in the CMU walls, U.N.O.
13. All CMU shall be placed in running bond, U.N.O.
14. Provide and install temporary bracing required to ensure stability of all walls during construction, and until erection of attached structural framing is completed.
15. Allow grout in reinforced CMU walls to cure a minimum of 48 hours before imposing concentrated or other loads from above.
16. Provide Special Inspections for all masonry construction and related work in compliance with IBC 2018 – Chapter 17 – "Special Inspections and Tests".
17. All interior and exterior bond beam lintels shall be U-Shaped bond beam over the opening and transition to open bottom bond beam at each side of opening to allow for vertical reinforcement to pass through, U.N.O.

5.0 POST INSTALLED ANCHORS

1. General Requirements:
   a. Anchor capacity is dependent upon spacing between adjacent anchors and proximity of anchors to the edge of concrete. Install anchors in accordance with spacing and edge clearances indicated on the drawings.
   b. Substitution requests for alternative products must be approved in writing by the Engineer prior to use. If the Contractor requests the use of a substitution for an anchor product, the Contractor shall provide signed and sealed calculations demonstrating the substitution is capable of achieving the performance values of the specified anchor product and the design value is equal to or greater than the product specified on the Contract Documents. The Contractor shall also submit the ICC ESR showing compliance with the relevant building code. All anchor sizes and embedment depths must be evaluated and compared to the specified anchor product for the substitution to be reviewed and approved.
   c. Anchors shall be installed by qualified personnel in accordance with the Contract Documents.
   d. The installation of post installed anchors shall be in accordance with the Manufacturer's Printed Installation Instructions (MPII).
   e. Provide Special Inspections for post installed anchors and related work in compliance with IBC 2018 – Chapter 17 – "Special Inspections and Tests", ACI 355.4-11, and individual product ESRs. Refer to Special Inspection Tables for additional information.
   f. The Contractor shall arrange for an anchor manufacturer's representative to provide onsite installation training for all the anchors specified. The Engineer must receive documentation confirming that all the Contractor's personnel who install anchors are trained prior to the commencement of installing anchors.
2. Adhesive Anchors:
   a. Adhesive anchors denoted on the structural drawings have been designed in accordance with IBC 2018, ACI 318-14 Chapter 17, and shall have been tested in accordance with ACI 355.4.
   b. Anchors installed into grout filled or solid masonry, hollow masonry, or multi-wythe masonry walls shall use Hilti HIT-HY 270 hybrid adhesive, U.N.O. Steel anchor element shall be Hilti HAS-E continuously threaded rod or continuously deformed steel rebar as noted.
      1. For anchors in grout-filled CMU, hollow CMU and hollow brick masonry, provide HIT-HY 270 Safe Set System using the Hilti Hollow Drill Bit (TE-CD or TE-YD) and VC 150 or VC 300 series vacuum.
      2. For anchors in red brick, use Hilti standard hole cleaning procedures per ESR reports.
   c. Provide a composite mesh screen tube for all anchors into unreinforced masonry, hollow CMU, or hollow brick walls using Hilti HIT-HY 270 hybrid adhesive according to the Manufacturer's recommendations for appropriate size screen tube.
   d. All anchors to be installed in accordance with ICC Report and Manufacturer's recommendations. Anchor diameter, spacing and embedment depths are noted in sections and details.
   e. Anchor Specifications:
      1. "Stainless HAS Rod" material shall meet the requirements of ASTM F593 CW (AISI 304/316), with HAS Stainless Steel Nut material meeting the requirements of ASTM F594, with HAS Stainless Steel Washers meeting the requirements of AISI 304 or AISI 316 conforming to ASTM A240.
      2. Reinforcing steel used in adhesive anchor connections shall conform to ASTM A615, Grade 60.
   f. The Contractor must install all adhesive anchors according to the following criteria in order to achieve the design parameters used to determine the adhesive anchor capacity:
      1. Concrete shall have a minimum age of 21 days at the time of anchor installation.
      2. Concrete temperature at time of anchor installation shall be at least 50 degrees F.
      3. Moisture condition of concrete at the time of installation shall be considered "dry".
      4. All holes must be hammer drilled, no core drilling unless approved by the Engineer. If core drilling is approved, the hole must be intentionally roughened using the manufacturer's recommended roughing drill bit (Hilti Roughening tool, TE-YRT).
   g. For installation of horizontal and upwardly inclined adhesive anchors, the installer shall be certified by an ACI/CSRI Adhesive Anchor Installer Certification Program or equivalent. In addition, overhead adhesive anchors must be installed using the Hilti Profis System.
   h. Adhesive anchors installed in horizontal or upwardly inclined orientations to resist sustained tension loads shall be continuously inspected during installation by the Special Inspector, who is specifically approved by the Building Official.
3. Mechanical Anchors:
   a. Mechanical anchors installed into masonry shall use Hilti KH-EZ SS316 screw anchor per ESR -3056, U.N.O.
   b. Anchors to be installed in accordance with ICC Report and Manufacturer's recommendations. Anchor diameter, spacing and embedment depths are noted in sections and details.
   c. Mechanical anchors shall be stainless steel for exterior use, exposed to weather, or installed into exterior masonry. Provide galvanized anchors at other locations, U.N.O.
   d. If reinforcement is encountered during drilling, abandon and shift the hole location to avoid the existing reinforcement. Provide a minimum of 2 anchor diameters or 3 inches, whichever is larger, of sound concrete between the anchor and the abandoned hole. Fill the abandoned hole with non-shrink grout. If the anchor or dowel cannot be shifted as noted above, notify the Engineer immediately for direction on a new location.

6.0 DESIGN LOADS

Dead:
Dead loads vary based on actual building construction. Refer to complete set of Contract Documents for determining dead loads.

Roof Live: 20 psf

Snow:
Roof Snow: 16.8 psf
Ground Snow Load – P_g: 40 psf
Flat-Roof Snow Load – P_f: 28 psf
Exposure Factor - C_e: 1.0
Thermal Factor - C_t: 1.0
Slope Factor(s) – C_s: 0.6
Snow Load Importance Factor – I_s: 1.0
Drift Surcharge Load(s) – P_d: n/a
Width of Snow Drift(s) – w: n/a

Wind: (Main Wind Force Resisting System)
Basic Design Wind Speed V: 110 mph
Allowable Stress Design Wind Speed V_{asd}: 85 mph
Risk Category: II
Wind Exposure Category: B
Internal Pressure Coefficient: +/- 0.18
Components and Cladding: To be designed in accordance with ASCE 7-16.

Seismic:
Seismic Design Category: B
Site Class: D (assumed)
Seismic Importance Factor – I_e: 1.00
Risk Category: II
S_S: 0.119
S_1: 0.046
S_{DS}: 0.127
S_{D1}: 0.073

Rain:
Rain Intensity – i: 2.5 in/hr

SPECIAL INSPECTION NOTES:

1. Refer to General Notes and Specifications for additional information regarding testing and inspection.
2. Continuous Special Inspection is defined as "the full-time observation of work requiring special inspection by an approved Special Inspector who is present in the area where the work is being performed." When Continuous inspection is required, 100% of the work must be inspected and it must be inspected as the work is being performed.
3. Periodic Special Inspection is defined as "the part-time or intermittent observation of work requiring special inspection by an approved Special Inspector who is present in the area where the work has been or is being performed and at the completion of the work." When periodic inspection is indicated, inspection of less than 100% of the work may be acceptable for certain items.
4. Refer to 2020 Building Code of New York State – Chapter 17 for reference standards and further explanation of the items in the tables below.
5. Provide Continuous or Periodic Special Inspections for the following items, as required by 2020 Building Code of New York State – Chapter 17 and all applicable amendments.
6. Provide Continuous or Periodic Special Inspections for the following items for Masonry Construction, as required TMS 402/602-16.
7. Provide Continuous or Periodic Special Inspections for the following Adhesive Anchor items, as required by ESR-4868 (Hilti HIT-HY 200 V3), ESR-3814 (Hilti HIT-RE 500 V3), ESR-4143 and ESR-4144 (Hilti HIT-HY 270), ACI 355.4-11, and IBC 2018. The Special Inspector must verify the initial installations of each type and size of adhesive anchor by construction personnel on site. Subsequent installations of the same anchor type and size by the same construction personnel are permitted to be performed in the absence of the special inspector. Any change in the anchor product being installed or the personnel performing the installation requires an initial inspection.
8. Provide Continuous or Periodic Special Inspections for the following Mechanical Anchor items, as required by ESR-1545 (Hilti HSL-3 Expansion Anchor), ESR-1917 (Hilti KWIK Bolt TZ Expansion Anchor), ESR-1546 (Hilti HDA Undercut Anchor) ESR-3027 (Hilti KWIK HUS-EZ & KWIK HUS-EZ 1 Screw Anchor), ACI 355.4-11, and IBC 2018.
9. Any work which has been covered or otherwise made inaccessible prior to review by the Special Inspector is subject to removal or exposure, at no additional cost to the Owner.

SPECIAL INSPECTION & QUALITY ASSURANCE OF LEVEL 2 MASONRY CONSTRUCTION TMS 402-16 & TMS 602-16

MINIMUM VERTIFICATION	Level 2
1. Prior to construction, verification of compliance of submittals.	R
2. Prior to construction, verification of $f'm$ and f_{AAC}, except where specifically exempted by the Code.	R
3. During construction, verification of Slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to the project site.	R
4. During construction, verification of $f'm$ and f_{AAC}, for every 5,000 sq. ft.	NR
5. During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout.	NR

"R" Denotes "Required" "NR" Denotes "Not Required"

SPECIAL INSPECTION & QUALITY ASSURANCE OF LEVEL 2 MASONRY CONSTRUCTION TMS 402-16 & TMS 602-16

INSPECTION TASK	FREQUENCY (a) Level 2
1. As masonry construction begins, verify the following are in compliance:	
a. Proportions of site-prepared mortar.	P
b. Grade, type and size of reinforcement, connectors and anchor bolts.	P
c. Sample panel construction	P
2. Prior to grouting, verify that the following are in compliance:	
a. Grout space	P
b. Placement of reinforcement, connectors, and anchor bolts.	P
3. Verify compliance of the following during construction:	
a. Materials and procedures with the approved submittals	P
b. Placement of masonry units and mortar joint construction	P
c. Size and location of structural members	P
d. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	P
e. Welding of reinforcement.	C
f. Preparation, construction and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	P
4. Observe preparation of grout specimens, mortar specimens, and/or prisms.	P

(a) Frequency refer to the frequency of inspection, which may be continuous during the listed task or periodically during the listed task, as defined in the table.
NR = Not Required, P = Periodic, C = Continuous

SPECIAL INSPECTION & QUALITY ASSURANCE OF ADHESIVE ANCHORS INSTALLED IN CONCRETE MASONRY PER ESR-4143 & ESR-4144 (Hilti HIT-HY 270) & IBC 2018

VERTIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC
1. Anchor type.		X
2. Anchor dimensions.		X
3. Masonry type.		X
4. Masonry compressive strength.		X
5. Adhesive identification and expiration date.		X
6. Hole dimensions.		X
7. Hole cleaning procedures.		X
8. Anchor spacing.		X
9. Edge distances.		X
10. Masonry wall thickness.		X
11. Anchor embedment.		X
12. Base material temperature.		X
13. Installation torque and adherence to the manufacturer's printed installation instructions.		X

* Denotes special inspections designated as Periodic shall be required Continuously for anchors installed in horizontal or upwardly inclined orientations to resist sustained tension loads.

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:



David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:

BID SET

Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:

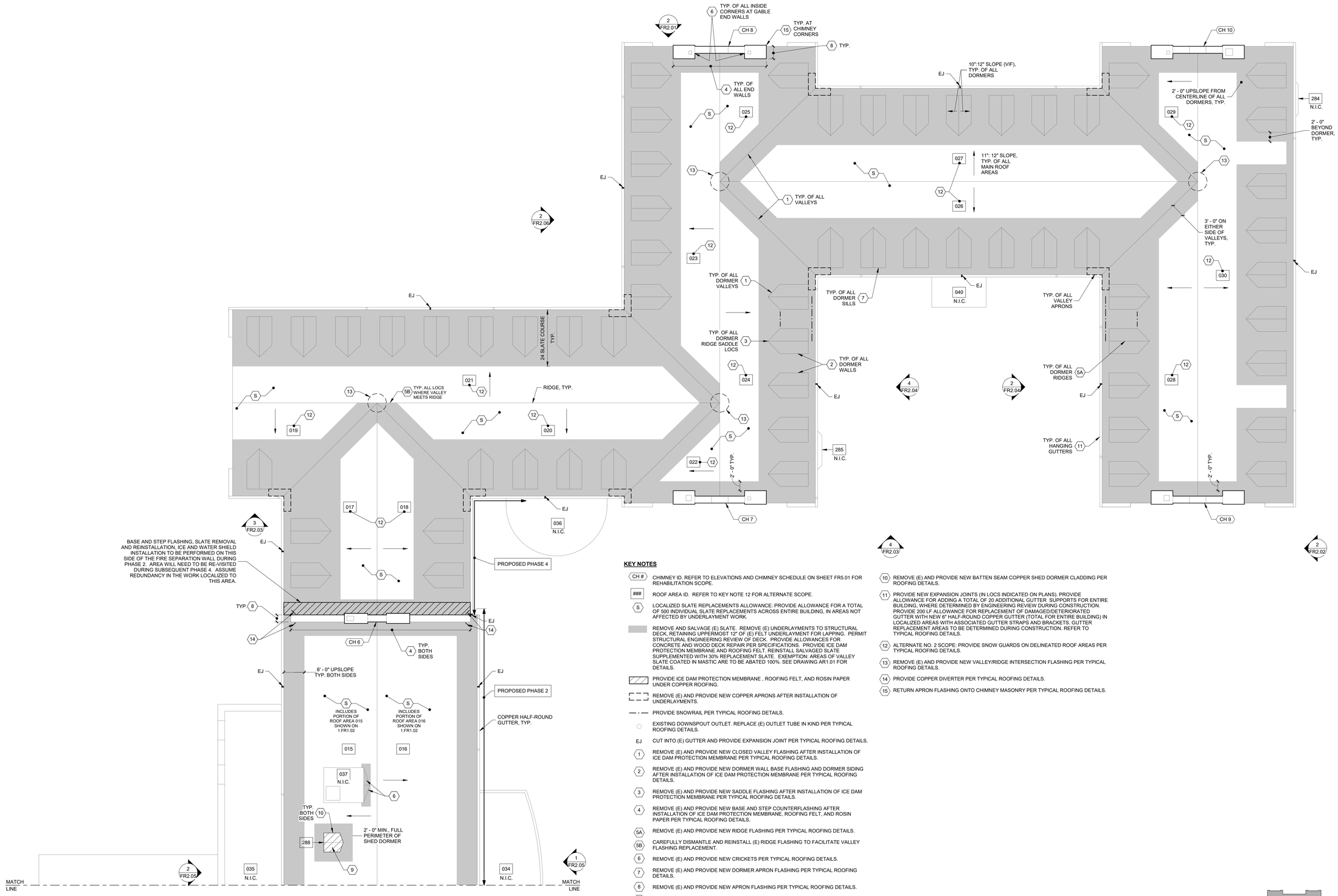
GENERAL NOTES AND SPECIAL INSPECTIONS

Job Number: E19.054B
Date: 04/11/25 Scale: As indicated

Drawing Number:

FR0.01

4/11/2025 2:03:15 PM



KEY NOTES

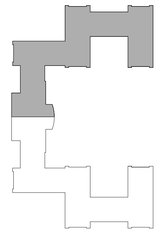
- CH # — CHIMNEY ID. REFER TO ELEVATIONS AND CHIMNEY SCHEDULE ON SHEET FR5.01 FOR REHABILITATION SCOPE.
- ### — ROOF AREA ID. REFER TO KEY NOTE 12 FOR ALTERNATE SCOPE.
- S — LOCALIZED SLATE REPLACEMENTS ALLOWANCE: PROVIDE ALLOWANCE FOR A TOTAL OF 500 INDIVIDUAL SLATE REPLACEMENTS ACROSS ENTIRE BUILDING, IN AREAS NOT AFFECTED BY UNDERLAYMENT WORK.
- REMOVE AND SALVAGE (E) SLATE. REMOVE (E) UNDERLAYMENTS TO STRUCTURAL DECK, RETAINING UPPERMOST 12" OF (E) FELT UNDERLAYMENT FOR LAPPING. PERMIT STRUCTURAL ENGINEERING REVIEW OF DECK. PROVIDE ALLOWANCES FOR CONCRETE AND WOOD DECK REPAIR PER SPECIFICATIONS. PROVIDE ICE DAM PROTECTION MEMBRANE AND ROOFING FELT. REINSTALL SALVAGED SLATE SUPPLEMENTED WITH 30% REPLACEMENT SLATE. EXEMPTION: AREAS OF VALLEY SLATE COATED IN MASTIC ARE TO BE ABATED 100%. SEE DRAWING AR1.01 FOR DETAILS.
- PROVIDE ICE DAM PROTECTION MEMBRANE , ROOFING FELT, AND ROSIN PAPER UNDER COPPER ROOFING.
- REMOVE (E) AND PROVIDE NEW COPPER APRONS AFTER INSTALLATION OF UNDERLAYMENTS.
- PROVIDE SNOWRAIL PER TYPICAL ROOFING DETAILS.
- EXISTING DOWNSPOUT OUTLET. REPLACE (E) OUTLET TUBE IN KIND PER TYPICAL ROOFING DETAILS.
- EJ — CUT INTO (E) GUTTER AND PROVIDE EXPANSION JOINT PER TYPICAL ROOFING DETAILS.
- 1 — REMOVE (E) AND PROVIDE NEW CLOSED VALLEY FLASHING AFTER INSTALLATION OF ICE DAM PROTECTION MEMBRANE PER TYPICAL ROOFING DETAILS.
- 2 — REMOVE (E) AND PROVIDE NEW DORMER WALL BASE FLASHING AND DORMER SIDING AFTER INSTALLATION OF ICE DAM PROTECTION MEMBRANE PER TYPICAL ROOFING DETAILS.
- 3 — REMOVE (E) AND PROVIDE NEW SADDLE FLASHING AFTER INSTALLATION OF ICE DAM PROTECTION MEMBRANE PER TYPICAL ROOFING DETAILS.
- 4 — REMOVE (E) AND PROVIDE NEW BASE AND STEP COUNTERFLASHING AFTER INSTALLATION OF ICE DAM PROTECTION MEMBRANE, ROOFING FELT, AND ROSIN PAPER PER TYPICAL ROOFING DETAILS.
- 5A — REMOVE (E) AND PROVIDE NEW RIDGE FLASHING PER TYPICAL ROOFING DETAILS.
- 5B — CAREFULLY DISMANTLE AND REINSTALL (E) RIDGE FLASHING TO FACILITATE VALLEY FLASHING REPLACEMENT.
- 6 — REMOVE (E) AND PROVIDE NEW CRICKETS PER TYPICAL ROOFING DETAILS.
- 7 — REMOVE (E) AND PROVIDE NEW DORMER APRON FLASHING PER TYPICAL ROOFING DETAILS.
- 8 — REMOVE (E) AND PROVIDE NEW APRON FLASHING PER TYPICAL ROOFING DETAILS.
- 9 — REMOVE (E) AND PROVIDE NEW FLAT SEAM COPPER ROOFING OF SHED DORMER PER ROOFING DETAILS.
- 10 — REMOVE (E) AND PROVIDE NEW BATTEN SEAM COPPER SHED DORMER CLADDING PER ROOFING DETAILS.
- 11 — PROVIDE NEW EXPANSION JOINTS (IN LOCS INDICATED ON PLANS). PROVIDE ALLOWANCE FOR ADDING A TOTAL OF 20 ADDITIONAL GUTTER SUPPORTS FOR ENTIRE BUILDING, WHERE DETERMINED BY ENGINEERING REVIEW DURING CONSTRUCTION. PROVIDE 200 LF ALLOWANCE FOR REPLACEMENT OF DAMAGED/DETERIORATED GUTTER WITH NEW 6" HALF-ROUND COPPER GUTTER (TOTAL FOR ENTIRE BUILDING) IN LOCALIZED AREAS WITH ASSOCIATED GUTTER STRAPS AND BRACKETS. GUTTER REPLACEMENT AREAS TO BE DETERMINED DURING CONSTRUCTION. REFER TO TYPICAL ROOFING DETAILS.
- 12 — ALTERNATE NO. 2 SCOPE: PROVIDE SNOW GUARDS ON DELINEATED ROOF AREAS PER TYPICAL ROOFING DETAILS.
- 13 — REMOVE (E) AND PROVIDE NEW VALLEY/RIDGE INTERSECTION FLASHING PER TYPICAL ROOFING DETAILS.
- 14 — PROVIDE COPPER DIVERTER PER TYPICAL ROOFING DETAILS.
- 15 — RETURN APRON FLASHING ONTO CHIMNEY MASONRY PER TYPICAL ROOFING DETAILS.

1 FR1.01 ROOF PLAN - NORTH

1/8" = 1'-0"

NOTES:

1. EXISTING SLATE ROOFING AREAS ARE BELIEVED TO CONSIST OF A MIXTURE OF NEW YORK/VERMONT BLACK, GRAY, PURPLE AND UNFADING GREEN. SLATE COURSING IS GRADUATED IN EXPOSURE AND WIDTHS FROM THE EAVE TO THE RIDGE.
   A. AT THE EAVE, SLATES HAVE AN EXPOSURE OF 9.5 INCHES AND RANDOM WIDTHS FROM 11 TO 14 INCHES, CORRESPONDING TO A 22 INCH LONG SLATE WITH A 3 INCH HEADLAP.
   B. AT THE RIDGE, THE SLATE EXPOSURE IS APPROX. 6.5 INCHES WITH RANDOM WIDTHS OF 7 TO 12 INCHES, CORRESPONDING TO A 16 INCH LONG SLATE WITH A 3 INCH HEADLAP.
   C. SLATE THICKNESSES VARY FROM 3/8 INCHES TO 3/4 INCHES THICK, RANDOMLY DISTRIBUTED, BUT WITH THINNER SLATES CLOSER TO THE RIDGE AND THICKER SLATES TOWARD THE EAVE.
   D. SIDE LAPS OF THE SLATES ARE 3 INCHES MINIMUM.
2. AT THE BOTTOM ± 20" OF PROJECTING EAVES, ROOF DECKING IS WOOD DECKING. AT ALL OTHER LOCATIONS ON THE ROOF, ROOF DECKING IS LIGHTWEIGHT CONCRETE STRUCTURAL DECK.
3. EXISTING UNDERLAYMENT IS 1-2 LAYERS OF ASPHALTIC FELT.



KEY PLAN

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:



David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:
BID SET

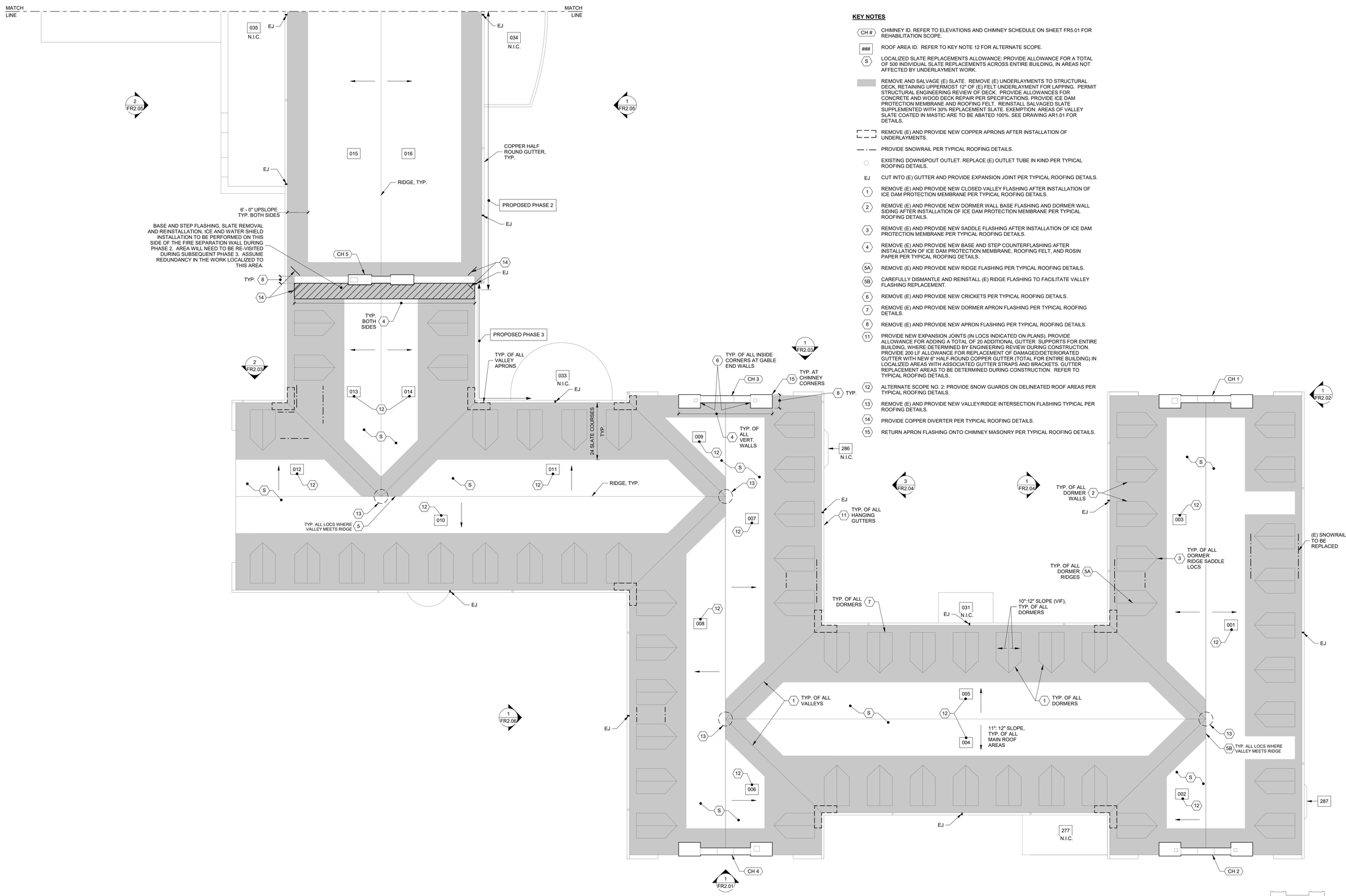
Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:
ROOF PLAN - NORTH

Job Number: E19.054B
Date: 04/11/25
Scale: As indicated

Drawing Number:
FR1.01

4/11/2025 2:03:16 PM



KEY NOTES

- CH # — CHIMNEY ID. REFER TO ELEVATIONS AND CHIMNEY SCHEDULE ON SHEET FR5.01 FOR REHABILITATION SCOPE.
- ### — ROOF AREA ID. REFER TO KEY NOTE 12 FOR ALTERNATE SCOPE.
- S — LOCALIZED SLATE REPLACEMENTS ALLOWANCE: PROVIDE ALLOWANCE FOR A TOTAL OF 500 INDIVIDUAL SLATE REPLACEMENTS ACROSS ENTIRE BUILDING, IN AREAS NOT AFFECTED BY UNDERLAYMENT WORK.
- REMOVE AND SALVAGE (E) SLATE. REMOVE (E) UNDERLAYMENTS TO STRUCTURAL DECK, RETAINING UPPERMOST 12" OF (E) FELT UNDERLAYMENT FOR LAPPING. PERMIT STRUCTURAL ENGINEERING REVIEW OF DECK. PROVIDE ALLOWANCES FOR CONCRETE AND WOOD DECK REPAIR PER SPECIFICATIONS. PROVIDE ICE DAM PROTECTION MEMBRANE AND ROOFING FELT. REINSTALL SALVAGED SLATE SUPPLEMENTED WITH 30% REPLACEMENT SLATE. EXEMPTION: AREAS OF VALLEY SLATE COATED IN MASTIC ARE TO BE ABATED 100%. SEE DRAWING AR1.01 FOR DETAILS.
- REMOVE (E) AND PROVIDE NEW COPPER APRONS AFTER INSTALLATION OF UNDERLAYMENTS.
- PROVIDE SNOWRAIL PER TYPICAL ROOFING DETAILS.
- EXISTING DOWNSPOUT OUTLET. REPLACE (E) OUTLET TUBE IN KIND PER TYPICAL ROOFING DETAILS.
- EJ — CUT INTO (E) GUTTER AND PROVIDE EXPANSION JOINT PER TYPICAL ROOFING DETAILS.
- 1 — REMOVE (E) AND PROVIDE NEW CLOSED VALLEY FLASHING AFTER INSTALLATION OF ICE DAM PROTECTION MEMBRANE PER TYPICAL ROOFING DETAILS.
- 2 — REMOVE (E) AND PROVIDE NEW DORMER WALL BASE FLASHING AND DORMER WALL SIDING AFTER INSTALLATION OF ICE DAM PROTECTION MEMBRANE PER TYPICAL ROOFING DETAILS.
- 3 — REMOVE (E) AND PROVIDE NEW SADDLE FLASHING AFTER INSTALLATION OF ICE DAM PROTECTION MEMBRANE PER TYPICAL ROOFING DETAILS.
- 4 — REMOVE (E) AND PROVIDE NEW BASE AND STEP COUNTERFLASHING AFTER INSTALLATION OF ICE DAM PROTECTION MEMBRANE, ROOFING FELT, AND ROSIN PAPER PER TYPICAL ROOFING DETAILS.
- 5A — REMOVE (E) AND PROVIDE NEW RIDGE FLASHING PER TYPICAL ROOFING DETAILS.
- 5B — CAREFULLY DISMANTLE AND REINSTALL (E) RIDGE FLASHING TO FACILITATE VALLEY FLASHING REPLACEMENT.
- 6 — REMOVE (E) AND PROVIDE NEW CRICKETS PER TYPICAL ROOFING DETAILS.
- 7 — REMOVE (E) AND PROVIDE NEW DORMER APRON FLASHING PER TYPICAL ROOFING DETAILS.
- 8 — REMOVE (E) AND PROVIDE NEW APRON FLASHING PER TYPICAL ROOFING DETAILS.
- 11 — PROVIDE NEW EXPANSION JOINTS (IN LOCS INDICATED ON PLANS). PROVIDE ALLOWANCE FOR ADDING A TOTAL OF 20 ADDITIONAL GUTTER SUPPORTS FOR ENTIRE BUILDING, WHERE DETERMINED BY ENGINEERING REVIEW DURING CONSTRUCTION. PROVIDE 200 LF ALLOWANCE FOR REPLACEMENT OF DAMAGED/DETERIORATED GUTTER WITH NEW 6" HALF-ROUND COPPER GUTTER (TOTAL FOR ENTIRE BUILDING) IN LOCALIZED AREAS WITH ASSOCIATED GUTTER STRAPS AND BRACKETS. GUTTER REPLACEMENT AREAS TO BE DETERMINED DURING CONSTRUCTION. REFER TO TYPICAL ROOFING DETAILS.
- 12 — ALTERNATE SCOPE NO. 2: PROVIDE SNOW GUARDS ON DELINEATED ROOF AREAS PER TYPICAL ROOFING DETAILS.
- 13 — REMOVE (E) AND PROVIDE NEW VALLEY/RIDGE INTERSECTION FLASHING TYPICAL PER ROOFING DETAILS.
- 14 — PROVIDE COPPER DIVERTER PER TYPICAL ROOFING DETAILS.
- 15 — RETURN APRON FLASHING ONTO CHIMNEY MASONRY PER TYPICAL ROOFING DETAILS.

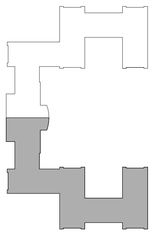
1 FR1.02 ROOF PLAN - SOUTH

1/8" = 1'-0"

NOTES:

ROOF AREA DESIGNATION

1. EXISTING SLATE ROOFING AREAS ARE BELIEVED TO CONSIST OF A MIXTURE OF NEW YORK/VERMONT BLACK, GRAY, PURPLE AND UNFADING GREEN. SLATE COURSING IS GRADUATED IN EXPOSURE AND WIDTHS FROM THE EAVE TO THE RIDGE.
   A. AT THE EAVE, SLATES HAVE AN EXPOSURE OF 9.5 INCHES AND RANDOM WIDTHS FROM 11 TO 14 INCHES, CORRESPONDING TO A 22 INCH LONG SLATE WITH A 3 INCH HEADLAP.
   B. AT THE RIDGE, THE SLATE EXPOSURE IS APPROX. 6.5 INCHES WITH RANDOM WIDTHS OF 7 TO 12 INCHES, CORRESPONDING TO A 16 INCH LONG SLATE WITH A 3 INCH HEADLAP.
   C. SLATE THICKNESSES VARY FROM 3/8 INCHES TO 3/4 INCHES THICK, RANDOMLY DISTRIBUTED, BUT WITH THINNER SLATES CLOSER TO THE RIDGE AND THICKER SLATES TOWARD THE EAVE.
   D. SIDE LAPS OF THE SLATES ARE 3 INCHES MINIMUM.
2. AT THE BOTTOM ± 20" OF PROJECTING EAVES, ROOF DECKING IS WOOD DECKING. AT ALL OTHER LOCATIONS ON THE ROOF, ROOF DECKING IS LIGHTWEIGHT CONCRETE STRUCTURAL DECK.
3. EXISTING UNDERLAYMENT IS 1-2 LAYERS OF ASPHALTIC FELT



KEY PLAN

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:



David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions
1	12/14/22	Modifications to phasing scope

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:

BID SET

Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:

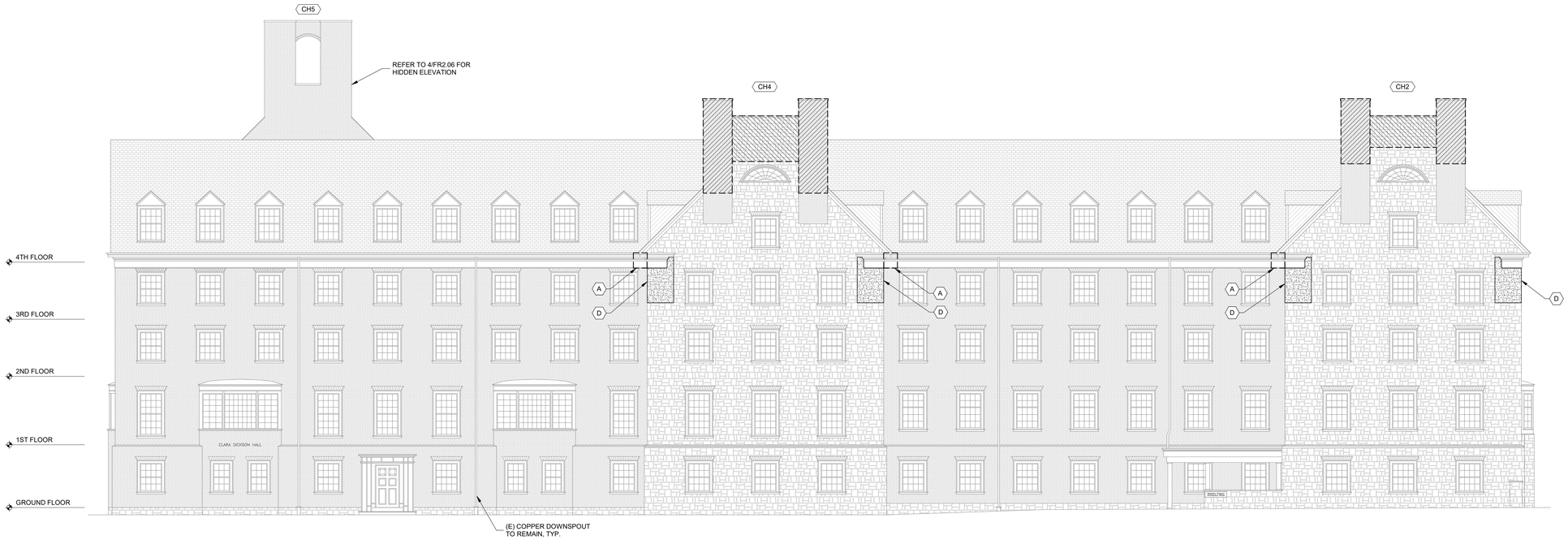
ROOF PLAN - SOUTH

Job Number: E19.054B
Date: 04/11/25 Scale: As indicated

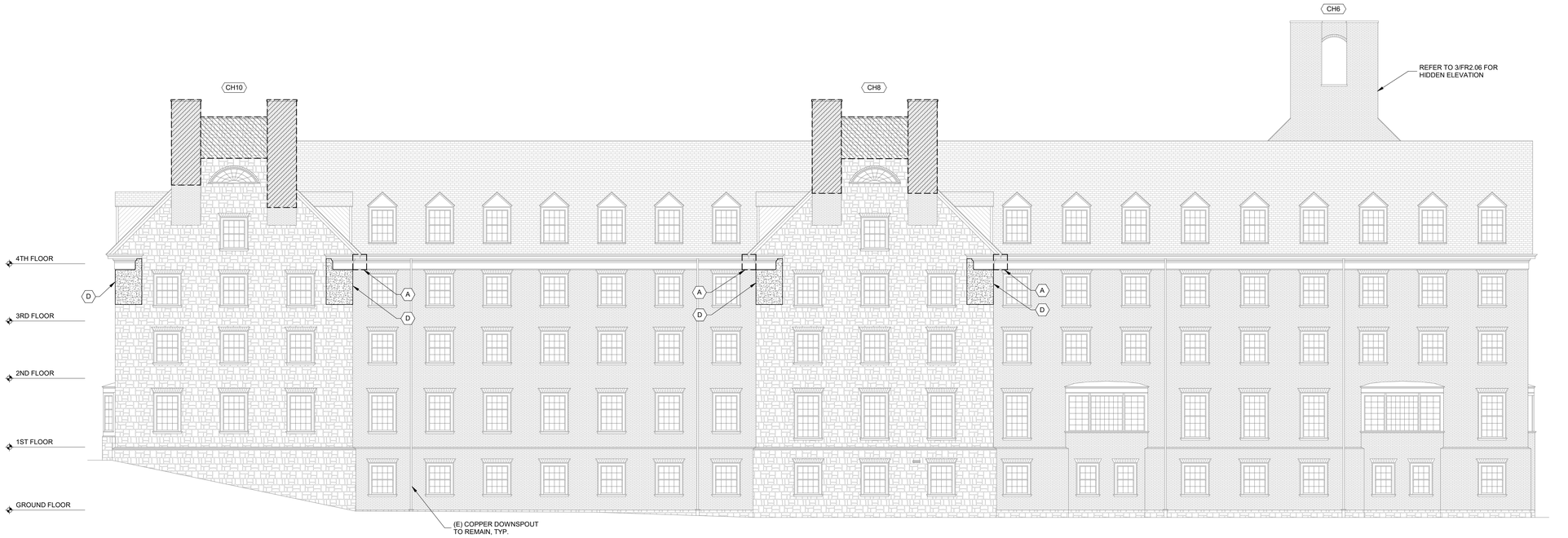
Drawing Number:

FR1.02

4/11/2025 2:03:17 PM



1 FR2.01 SOUTH ELEVATION
1/8" = 1'-0"



2 FR2.01 NORTH ELEVATION
1/8" = 1'-0"

KEY NOTES

CH# CHIMNEY ID. REFER TO CHIMNEY SCHEDULE ON FR5.01 FOR ADDITIONAL INFORMATION.

CHIMNEY REHABILITATION: DISMANTLE EXISTING CHIMNEY MASONRY AND ADJOINING WALLS TO EXTENTS SHOWN. PROVIDE NEW BRICK TO MATCH EXISTING TO REMAIN. RECONSTRUCT CHIMNEYS WITH REINFORCED CMU CORE AND EXPOSED BRICKWORK TO REPLICATE ORIGINAL COURSING, DIMENSIONS, AND JOINT PROFILES. PROVIDE COPPER CHIMNEY CAPS.

GABLE END WALL REHABILITATION: DISMANTLE STONE WALLS TO EXTENTS SHOWN. PROVIDE NEW STONE TO MATCH EXISTING TO REMAIN. RECONSTRUCT STONE WALLS WITH REINFORCED CMU AND STONE VENEER TO REPLICATE ORIGINAL COURSING, DIMENSIONS, AND JOINT PROFILES. PROVIDE THROUGH-WALL COPPER FLASHING, STAINLESS STEEL PINS, AND NEW STONE WALL CAPS SET ON A BED OF MORTAR. SEAL ALL CROSS JOINTS WITH LEAD TEE CAPS SET IN SEALANT.

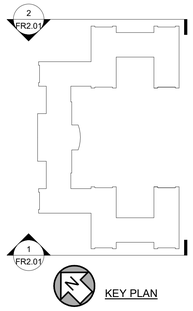
BRICK RECONSTRUCTION: RECONSTRUCT OUTER WYTHE OF BRICK MASONRY. COORDINATE WITH CHIMNEY REHABILITATION SCOPE FOR THROUGH-WALL FLASHING INSTALLATION.

A CORNICE REHABILITATION: REVIEW CONDITION OF WOOD CORNICE IN FIELD WITH ENGINEER TO DETERMINE EXTENT OF REPAIRS. REPLACE ALL DETERIORATED WOOD COMPONENTS WITH NEW WOOD, PROFILED TO MATCH EXISTING. SEAL ALL JOINTS FOR WATERTIGHTNESS. PREPARE ALL EXISTING CORNICE SURFACES AND REPAINT PER THE SPECIFICATIONS. REFER TO DETAIL 2/FR4.01 FOR ADDITIONAL INFORMATION. FOR PRICING PURPOSES, ASSUME THE FOLLOWING:
- ALLOWANCE SCOPE- REPAIR WOOD CORNICE AT (16) INTERIOR CORNERS.

B STONE WALL CAP REPLACEMENT: REMOVE (E) STONE WALL CAPS. PROVIDE THROUGH-WALL COPPER FLASHING, STAINLESS STEEL PINS, AND NEW FLAGSTONE WALL CAPS SET ON A BED OF MORTAR. SEAL ALL CROSS JOINTS WITH LEAD TEE CAPS SET IN SEALANT. REFER TO DETAIL 3/FR5.04

C MASONRY WALL RECONSTRUCTION: RECONSTRUCT BRICK MASONRY WALL (FULL THICKNESS) TO 2'-0" BELOW ROOFLINE. PROVIDE NEW BRICK TO MATCH EXISTING TO REMAIN. REPLICATE COURSING AND JOINT PROFILES.

D STONE REPOINTING: PROVIDE ALLOWANCE FOR REPOINTING DETERIORATED JOINTS IN STONE MASONRY.



KEY PLAN

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:



David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:
BID SET

Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:
ELEVATIONS

Job Number: E19.054B
Date: 04/11/25 Scale: As indicated

Drawing Number:
FR2.01

4/11/2025 2:03:18 PM



1 FR2.02 EAST ELEVATION (SOUTH)
1/8" = 1'-0"



2 FR2.02 EAST ELEVATION (NORTH)
1/8" = 1'-0"

KEY NOTES

CH# CHIMNEY ID. REFER TO CHIMNEY SCHEDULE ON FR5.01 FOR ADDITIONAL INFORMATION.

CHIMNEY REHABILITATION: DISMANTLE EXISTING CHIMNEY MASONRY AND ADJOINING WALLS TO EXTENTS SHOWN. PROVIDE NEW BRICK TO MATCH EXISTING TO REMAIN. RECONSTRUCT CHIMNEYS WITH REINFORCED CMU CORE AND EXPOSED BRICKWORK TO REPLICATE ORIGINAL COURSING, DIMENSIONS, AND JOINT PROFILES. PROVIDE COPPER CHIMNEY CAPS.

GABLE END WALL REHABILITATION: DISMANTLE STONE WALLS TO EXTENTS SHOWN. PROVIDE NEW STONE TO MATCH EXISTING TO REMAIN. RECONSTRUCT STONE WALLS WITH REINFORCED CMU AND STONE VENEER TO REPLICATE ORIGINAL COURSING, DIMENSIONS, AND JOINT PROFILES. PROVIDE THROUGH-WALL COPPER FLASHING, STAINLESS STEEL PINS, AND NEW STONE WALL CAPS SET ON A BED OF MORTAR. SEAL ALL CROSS JOINTS WITH LEAD TEE CAPS SET IN SEALANT.

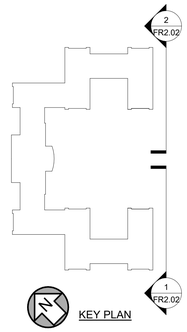
BRICK RECONSTRUCTION: RECONSTRUCT OUTER WYTHE OF BRICK MASONRY. COORDINATE WITH CHIMNEY REHABILITATION SCOPE FOR THROUGH-WALL FLASHING INSTALLATION.

A CORNICE REHABILITATION: REVIEW CONDITION OF WOOD CORNICE IN FIELD WITH ENGINEER TO DETERMINE EXTENT OF REPAIRS. REPLACE ALL DETERIORATED WOOD COMPONENTS WITH NEW WOOD, PROFILED TO MATCH EXISTING. SEAL ALL JOINTS FOR WATERTIGHTNESS. PREPARE ALL EXISTING CORNICE SURFACES AND REPAINT PER THE SPECIFICATIONS. REFER TO DETAIL 2/FR4.01 FOR ADDITIONAL INFORMATION. FOR PRICING PURPOSES, ASSUME THE FOLLOWING:
- ALLOWANCE SCOPE- REPAIR WOOD CORNICE AT (16) INTERIOR CORNERS.

B STONE WALL CAP REPLACEMENT: REMOVE (E) STONE WALL CAPS. PROVIDE THROUGH-WALL COPPER FLASHING, STAINLESS STEEL PINS, AND NEW FLAGSTONE WALL CAPS SET ON A BED OF MORTAR. SEAL ALL CROSS JOINTS WITH LEAD TEE CAPS SET IN SEALANT. REFER TO DETAIL 3/FR5.04

C MASONRY WALL RECONSTRUCTION: RECONSTRUCT BRICK MASONRY WALL (FULL THICKNESS) TO 2'-0" BELOW ROOFLINE. PROVIDE NEW BRICK TO MATCH EXISTING TO REMAIN. REPLICATE COURSING AND JOINT PROFILES.

D STONE REPOINTING: PROVIDE ALLOWANCE FOR REPOINTING DETERIORATED JOINTS IN STONE MASONRY.



KEY PLAN

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:



David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:
BID SET

Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:
ELEVATIONS

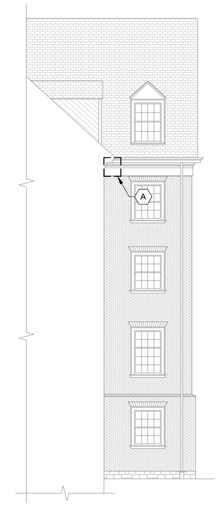
Job Number: E19.054B
Date: 04/11/25 Scale: As indicated

Drawing Number:
FR2.02

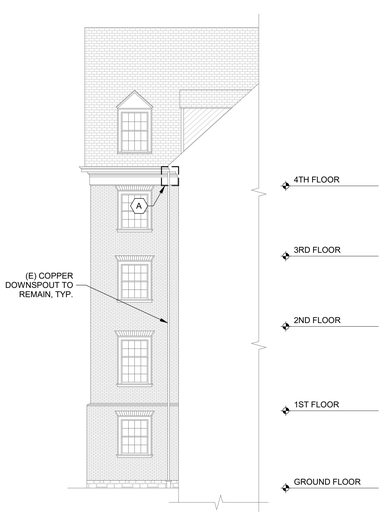
4/11/2025 2:03:19 PM



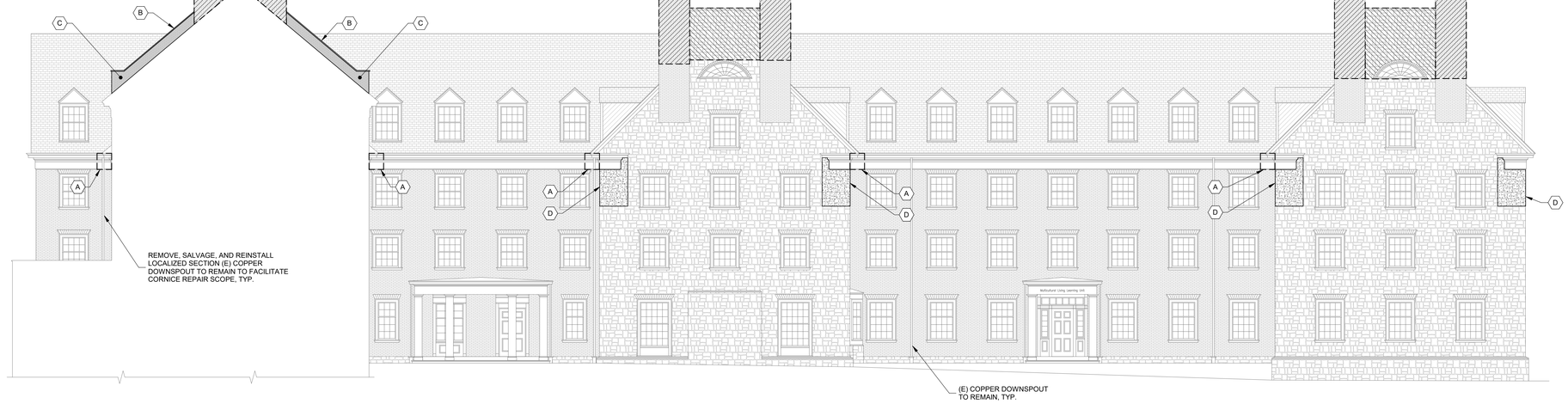
1 FR2.03 NORTH ELEVATION - INTERIOR COURTYARD
1/8" = 1'-0"



2 FR2.03 PARTIAL NORTH ELEVATION
1/8" = 1'-0"



3 FR2.03 PARTIAL SOUTH ELEVATION
1/8" = 1'-0"



4 FR2.03 SOUTH ELEVATION - INTERIOR COURTYARD
1/8" = 1'-0"

KEY NOTES

CH# CHIMNEY ID. REFER TO CHIMNEY SCHEDULE ON FR5.01 FOR ADDITIONAL INFORMATION.

CHIMNEY REHABILITATION: DISMANTLE EXISTING CHIMNEY MASONRY AND ADJOINING WALLS TO EXTENTS SHOWN. PROVIDE NEW BRICK TO MATCH EXISTING TO REMAIN. RECONSTRUCT CHIMNEYS WITH REINFORCED CMU CORE AND EXPOSED BRICKWORK TO REPLICATE ORIGINAL COURSING, DIMENSIONS, AND JOINT PROFILES. PROVIDE COPPER CHIMNEY CAPS.

GABLE END WALL REHABILITATION: DISMANTLE STONE WALLS TO EXTENTS SHOWN. PROVIDE NEW STONE TO MATCH EXISTING TO REMAIN. RECONSTRUCT STONE WALLS WITH REINFORCED CMU AND STONE VENEER TO REPLICATE ORIGINAL COURSING, DIMENSIONS, AND JOINT PROFILES. PROVIDE THROUGH-WALL COPPER FLASHING, STAINLESS STEEL PINS, AND NEW STONE WALL CAPS SET ON A BED OF MORTAR. SEAL ALL CROSS JOINTS WITH LEAD TEE CAPS SET IN SEALANT.

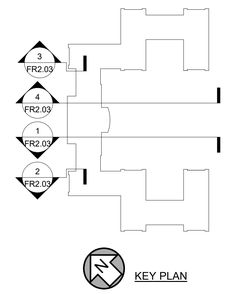
BRICK RECONSTRUCTION: RECONSTRUCT OUTER WYTHE OF BRICK MASONRY. COORDINATE WITH CHIMNEY REHABILITATION SCOPE FOR THROUGH-WALL FLASHING INSTALLATION.

A CORNICE REHABILITATION: REVIEW CONDITION OF WOOD CORNICE IN FIELD WITH ENGINEER TO DETERMINE EXTENT OF REPAIRS. REPLACE ALL DETERIORATED WOOD COMPONENTS WITH NEW WOOD, PROFILED TO MATCH EXISTING. SEAL ALL JOINTS FOR WATERTIGHTNESS. PREPARE ALL EXISTING CORNICE SURFACES AND REPAINT PER THE SPECIFICATIONS. REFER TO DETAIL 2/FR4.01 FOR ADDITIONAL INFORMATION. FOR PRICING PURPOSES, ASSUME THE FOLLOWING:
- ALLOWANCE SCOPE- REPAIR WOOD CORNICE AT (16) INTERIOR CORNERS.

B STONE WALL CAP REPLACEMENT: REMOVE (E) STONE WALL CAPS. PROVIDE THROUGH-WALL COPPER FLASHING, STAINLESS STEEL PINS, AND NEW FLAGSTONE WALL CAPS SET ON A BED OF MORTAR. SEAL ALL CROSS JOINTS WITH LEAD TEE CAPS SET IN SEALANT. REFER TO DETAIL 3/FR5.04

C MASONRY WALL RECONSTRUCTION: RECONSTRUCT BRICK MASONRY WALL (FULL THICKNESS) TO 2'-0" BELOW ROOFLINE. PROVIDE NEW BRICK TO MATCH EXISTING TO REMAIN. REPLICATE COURSING AND JOINT PROFILES.

D STONE REPOINTING: PROVIDE ALLOWANCE FOR REPOINTING DETERIORATED JOINTS IN STONE MASONRY.



KEY PLAN

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:



David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:
BID SET

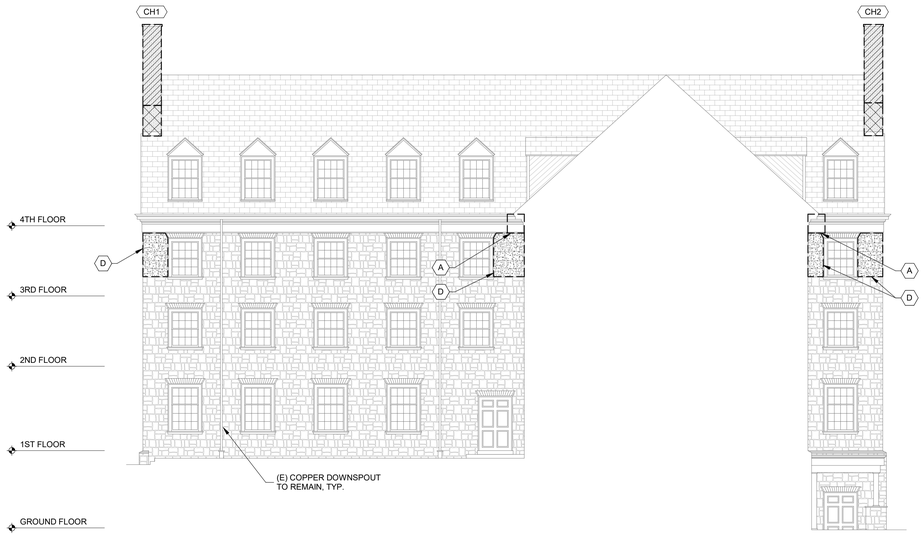
Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:
ELEVATIONS

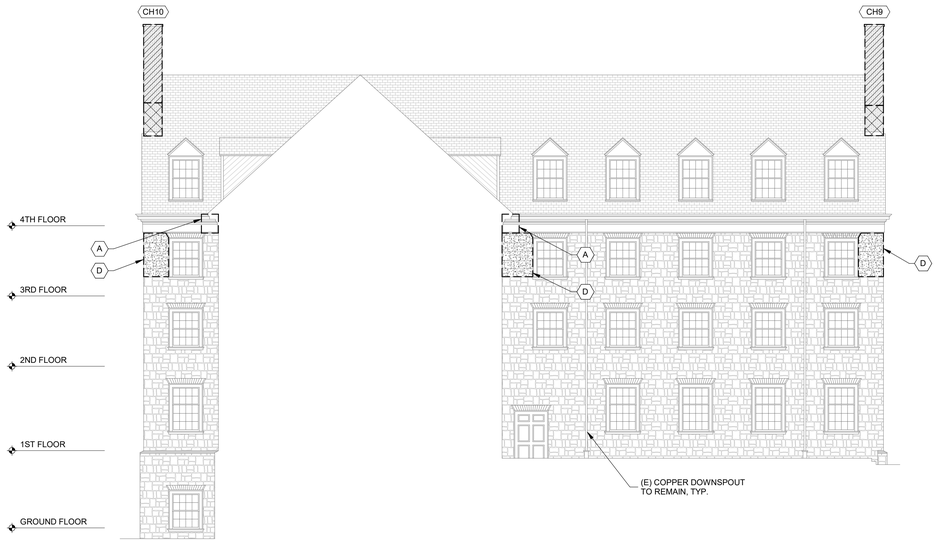
Job Number: E19.054B
Date: 04/11/25 Scale: As indicated

Drawing Number:
FR2.03

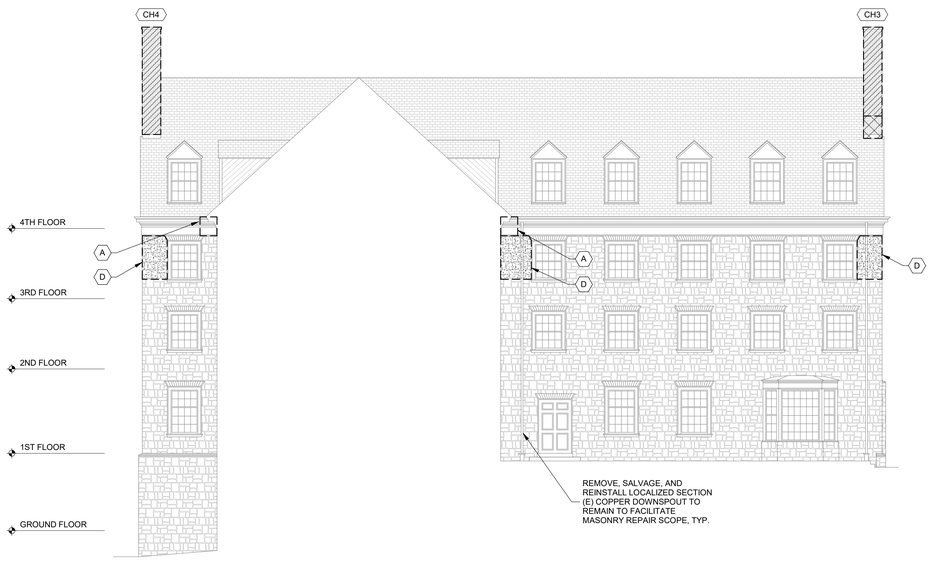
4/11/2025 2:03:20 PM



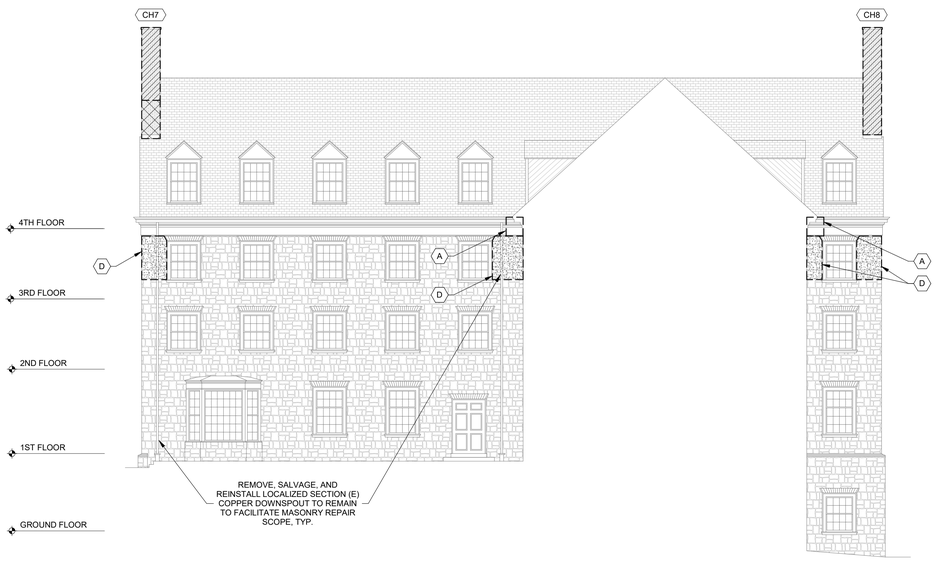
1 FR2.04 WEST ELEVATION - INTERIOR COURTYARD (SOUTH)
1/8" = 1'-0"



2 FR2.04 WEST ELEVATION - INTERIOR COURTYARD (NORTH)
1/8" = 1'-0"



3 FR2.04 EAST ELEVATION - INTERIOR COURTYARD (SOUTH)
1/8" = 1'-0"



4 FR2.04 EAST ELEVATION - INTERIOR COURTYARD (NORTH)
1/8" = 1'-0"

KEY NOTES

CH# CHIMNEY ID. REFER TO CHIMNEY SCHEDULE ON FR5.01 FOR ADDITIONAL INFORMATION.

CHIMNEY REHABILITATION: DISMANTLE EXISTING CHIMNEY MASONRY AND ADJOINING WALLS TO EXTENTS SHOWN. PROVIDE NEW BRICK TO MATCH EXISTING TO REMAIN. RECONSTRUCT CHIMNEYS WITH REINFORCED CMU CORE AND EXPOSED BRICKWORK TO REPLICATE ORIGINAL COURSING, DIMENSIONS, AND JOINT PROFILES. PROVIDE COPPER CHIMNEY CAPS.

GABLE END WALL REHABILITATION: DISMANTLE STONE WALLS TO EXTENTS SHOWN. PROVIDE NEW STONE TO MATCH EXISTING TO REMAIN. RECONSTRUCT STONE WALLS WITH REINFORCED CMU AND STONE VENEER TO REPLICATE ORIGINAL COURSING, DIMENSIONS, AND JOINT PROFILES. PROVIDE THROUGH-WALL COPPER FLASHING, STAINLESS STEEL PINS, AND NEW STONE WALL CAPS SET ON A BED OF MORTAR. SEAL ALL CROSS JOINTS WITH LEAD TEE CAPS SET IN SEALANT.

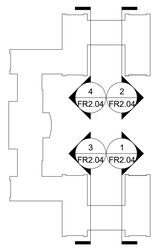
BRICK RECONSTRUCTION: RECONSTRUCT OUTER WYTHE OF BRICK MASONRY. COORDINATE WITH CHIMNEY REHABILITATION SCOPE FOR THROUGH-WALL FLASHING INSTALLATION.

A CORNICE REHABILITATION: REVIEW CONDITION OF WOOD CORNICE IN FIELD WITH ENGINEER TO DETERMINE EXTENT OF REPAIRS. REPLACE ALL DETERIORATED WOOD COMPONENTS WITH NEW WOOD, PROFILED TO MATCH EXISTING. SEAL ALL JOINTS FOR WATERTIGHTNESS. PREPARE ALL EXISTING CORNICE SURFACES AND REPAINT PER THE SPECIFICATIONS. REFER TO DETAIL 2/FR4.01 FOR ADDITIONAL INFORMATION. FOR PRICING PURPOSES, ASSUME THE FOLLOWING:
- ALLOWANCE SCOPE- REPAIR WOOD CORNICE AT (16) INTERIOR CORNERS.

B STONE WALL CAP REPLACEMENT: REMOVE (E) STONE WALL CAPS. PROVIDE THROUGH-WALL COPPER FLASHING, STAINLESS STEEL PINS, AND NEW FLAGSTONE WALL CAPS SET ON A BED OF MORTAR. SEAL ALL CROSS JOINTS WITH LEAD TEE CAPS SET IN SEALANT. REFER TO DETAIL 3/FR5.04

C MASONRY WALL RECONSTRUCTION: RECONSTRUCT BRICK MASONRY WALL (FULL THICKNESS) TO 2'-0" BELOW ROOFLINE. PROVIDE NEW BRICK TO MATCH EXISTING TO REMAIN. REPLICATE COURSING AND JOINT PROFILES.

D STONE REPOINTING: PROVIDE ALLOWANCE FOR REPOINTING DETERIORATED JOINTS IN STONE MASONRY.



KEY PLAN

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:



David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:
BID SET

Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:
ELEVATIONS

Job Number: E19.054B
Date: 04/11/25 | Scale: As indicated

Drawing Number:
FR2.04

4/11/2025 2:03:21 PM



1 FR2.05 EAST ELEVATION - INTERIOR COURTYARD

1/8" = 1'-0"



2 FR2.05 WEST ELEVATION

1/8" = 1'-0"

KEY NOTES

CH# CHIMNEY ID. REFER TO CHIMNEY SCHEDULE ON FR5.01 FOR ADDITIONAL INFORMATION.

CHIMNEY REHABILITATION: DISMANTLE EXISTING CHIMNEY MASONRY AND ADJOINING WALLS TO EXTENTS SHOWN. PROVIDE NEW BRICK TO MATCH EXISTING TO REMAIN. RECONSTRUCT CHIMNEYS WITH REINFORCED CMU CORE AND EXPOSED BRICKWORK TO REPLICATE ORIGINAL COURSING, DIMENSIONS, AND JOINT PROFILES. PROVIDE COPPER CHIMNEY CAPS.

GABLE END WALL REHABILITATION: DISMANTLE STONE WALLS TO EXTENTS SHOWN. PROVIDE NEW STONE TO MATCH EXISTING TO REMAIN. RECONSTRUCT STONE WALLS WITH REINFORCED CMU AND STONE VENEER TO REPLICATE ORIGINAL COURSING, DIMENSIONS, AND JOINT PROFILES. PROVIDE THROUGH-WALL COPPER FLASHING, STAINLESS STEEL PINS, AND NEW STONE WALL CAPS SET ON A BED OF MORTAR. SEAL ALL CROSS JOINTS WITH LEAD TEE CAPS SET IN SEALANT.

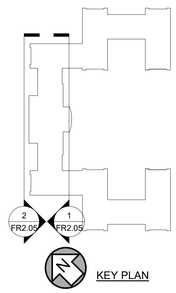
BRICK RECONSTRUCTION: RECONSTRUCT OUTER WYTHE OF BRICK MASONRY. COORDINATE WITH CHIMNEY REHABILITATION SCOPE FOR THROUGH-WALL FLASHING INSTALLATION.

A CORNICE REHABILITATION: REVIEW CONDITION OF WOOD CORNICE IN FIELD WITH ENGINEER TO DETERMINE EXTENT OF REPAIRS. REPLACE ALL DETERIORATED WOOD COMPONENTS WITH NEW WOOD, PROFILED TO MATCH EXISTING. SEAL ALL JOINTS FOR WATERTIGHTNESS. PREPARE ALL EXISTING CORNICE SURFACES AND REPAINT PER THE SPECIFICATIONS. REFER TO DETAIL 2/FR4.01 FOR ADDITIONAL INFORMATION. FOR PRICING PURPOSES, ASSUME THE FOLLOWING:
- ALLOWANCE SCOPE- REPAIR WOOD CORNICE AT (16) INTERIOR CORNERS.

B STONE WALL CAP REPLACEMENT: REMOVE (E) STONE WALL CAPS. PROVIDE THROUGH-WALL COPPER FLASHING, STAINLESS STEEL PINS, AND NEW FLAGSTONE WALL CAPS SET ON A BED OF MORTAR. SEAL ALL CROSS JOINTS WITH LEAD TEE CAPS SET IN SEALANT. REFER TO DETAIL 3/FR5.04

C MASONRY WALL RECONSTRUCTION: RECONSTRUCT BRICK MASONRY WALL (FULL THICKNESS) TO 2'-0" BELOW ROOFLINE. PROVIDE NEW BRICK TO MATCH EXISTING TO REMAIN. REPLICATE COURSING AND JOINT PROFILES.

D STONE REPOINTING: PROVIDE ALLOWANCE FOR REPOINTING DETERIORATED JOINTS IN STONE MASONRY.



KEY PLAN

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:

David A. VanDocker
P.E. Lic. #074389-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:

BID SET

Drawn: MLP

Checked: JMH/PCB

Approved: TDM

Drawing Title:

ELEVATIONS

Job Number: E19.054B

Date: 04/11/25 | Scale: As indicated

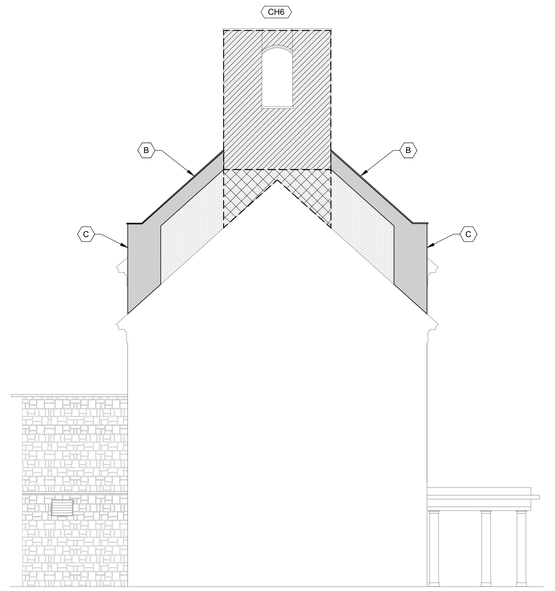
Drawing Number:

FR2.05

4/11/2025 2:03:22 PM



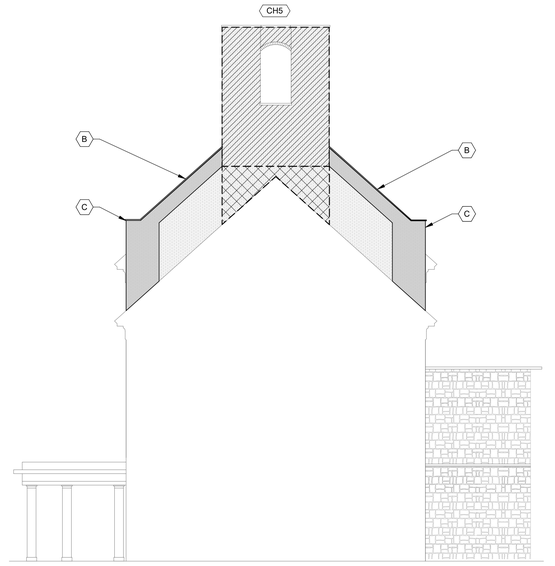
1 FR2.06 PARTIAL WEST ELEVATION (SOUTH)
1/8" = 1'-0"



3 FR2.06 PARTIAL NORTH ELEVATION
1/8" = 1'-0"



2 FR2.06 PARTIAL WEST ELEVATION (NORTH)
1/8" = 1'-0"



4 FR2.06 PARTIAL SOUTH ELEVATION
1/8" = 1'-0"

KEY NOTES

CH# CHIMNEY ID. REFER TO CHIMNEY SCHEDULE ON FR5.01 FOR ADDITIONAL INFORMATION.

CHIMNEY REHABILITATION: DISMANTLE EXISTING CHIMNEY MASONRY AND ADJOINING WALLS TO EXTENTS SHOWN. PROVIDE NEW BRICK TO MATCH EXISTING TO REMAIN. RECONSTRUCT CHIMNEYS WITH REINFORCED CMU CORE AND EXPOSED BRICKWORK TO REPLICATE ORIGINAL COURSING, DIMENSIONS, AND JOINT PROFILES. PROVIDE COPPER CHIMNEY CAPS.

GABLE END WALL REHABILITATION: DISMANTLE STONE WALLS TO EXTENTS SHOWN. PROVIDE NEW STONE TO MATCH EXISTING TO REMAIN. RECONSTRUCT STONE WALLS WITH REINFORCED CMU AND STONE VENEER TO REPLICATE ORIGINAL COURSING, DIMENSIONS, AND JOINT PROFILES. PROVIDE THROUGH-WALL COPPER FLASHING, STAINLESS STEEL PINS, AND NEW STONE WALL CAPS SET ON A BED OF MORTAR. SEAL ALL CROSS JOINTS WITH LEAD TEE CAPS SET IN SEALANT.

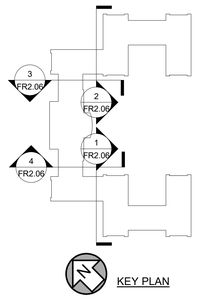
BRICK RECONSTRUCTION: RECONSTRUCT OUTER WYTHE OF BRICK MASONRY. COORDINATE WITH CHIMNEY REHABILITATION SCOPE FOR THROUGH-WALL FLASHING INSTALLATION.

A CORNICE REHABILITATION: REVIEW CONDITION OF WOOD CORNICE IN FIELD WITH ENGINEER TO DETERMINE EXTENT OF REPAIRS. REPLACE ALL DETERIORATED WOOD COMPONENTS WITH NEW WOOD, PROFILED TO MATCH EXISTING. SEAL ALL JOINTS FOR WATERTIGHTNESS. PREPARE ALL EXISTING CORNICE SURFACES AND REPAINT PER THE SPECIFICATIONS. REFER TO DETAIL 2/FR4.01 FOR ADDITIONAL INFORMATION. FOR PRICING PURPOSES, ASSUME THE FOLLOWING:
- ALLOWANCE SCOPE- REPAIR WOOD CORNICE AT (16) INTERIOR CORNERS.

B STONE WALL CAP REPLACEMENT: REMOVE (E) STONE WALL CAPS. PROVIDE THROUGH-WALL COPPER FLASHING, STAINLESS STEEL PINS, AND NEW FLAGSTONE WALL CAPS SET ON A BED OF MORTAR. SEAL ALL CROSS JOINTS WITH LEAD TEE CAPS SET IN SEALANT. REFER TO DETAIL 3/FR5.04

C MASONRY WALL RECONSTRUCTION: RECONSTRUCT BRICK MASONRY WALL (FULL THICKNESS) TO 2'-0" BELOW ROOFLINE. PROVIDE NEW BRICK TO MATCH EXISTING TO REMAIN. REPLICATE COURSING AND JOINT PROFILES.

D STONE REPOINTING: PROVIDE ALLOWANCE FOR REPOINTING DETERIORATED JOINTS IN STONE MASONRY.



KEY PLAN

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:

David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:
BID SET

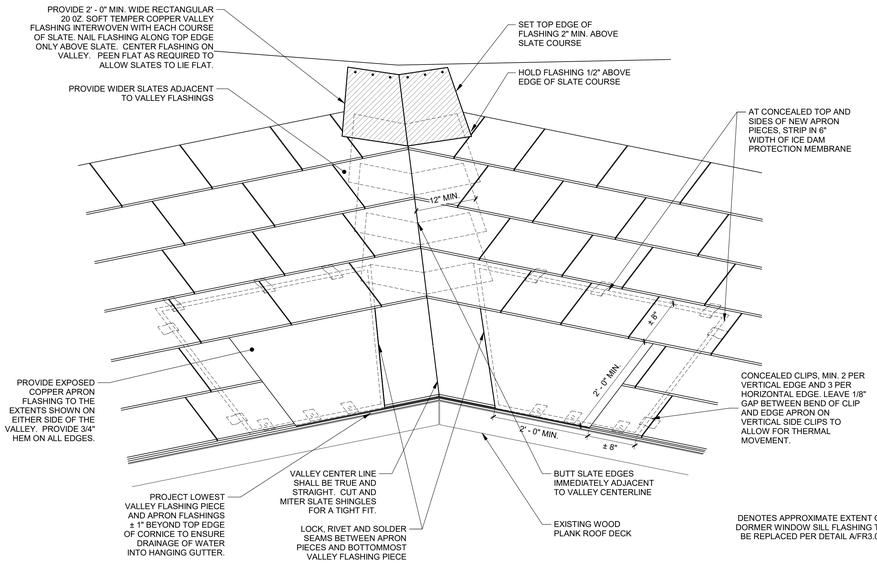
Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:
ELEVATIONS

Job Number: E19.054B
Date: 04/11/25 Scale: As indicated

Drawing Number:
FR2.06

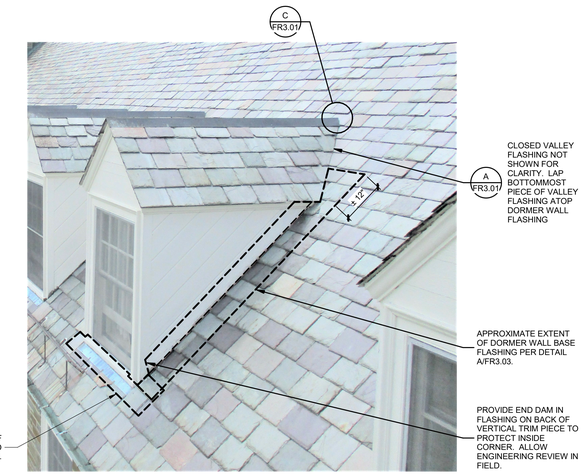
4/11/2025 2:03:22 PM



A DETAIL - CLOSED VALLEY WITH APRON FLASHING

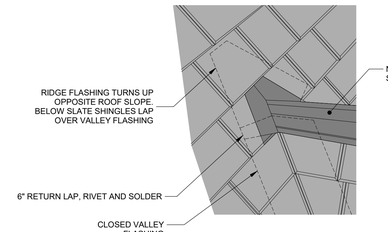
NOTES:

1. DO NOT NAIL SLATES THROUGH VALLEY FLASHING.
2. ICE DAM PROTECTION MEMBRANE SHALL BE INSTALLED PARALLEL TO VALLEY AND SHALL TO EXTEND MINIMUM 3'-0" FROM CENTERLINE OF VALLEY ON EACH SIDE OF VALLEY. (NOT SHOWN FOR CLARITY). REFER TO ROOF PLAN FOR FULL EXTENTS OF ICE DAM PROTECTION. PROVIDE ROOFING FELT ATOP ALL ICE DAM PROTECTION MEMBRANE.
3. HANGING GUTTER NOT SHOWN FOR CLARITY.



B DETAIL - TYPICAL DORMER FLASHING

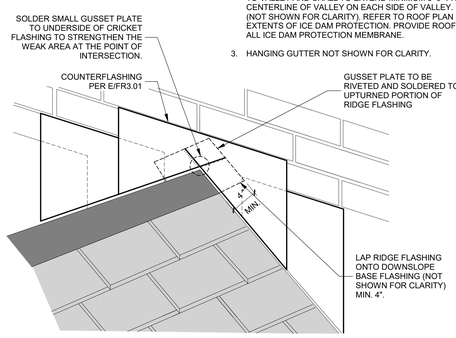
NOTE: REFER TO FR4.01 FOR DORMER WOOD REPAIRS.



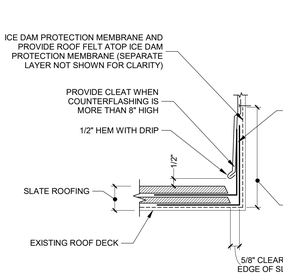
C DETAIL - RIDGE TERMINATION AT OPEN VALLEY

NOTE:

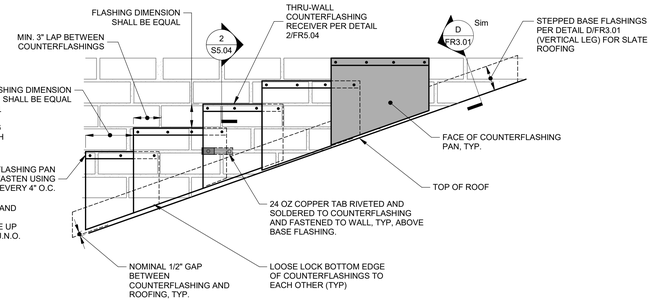
1. COVER TOP EDGE OF FLASHING MINIMUM 3" WITH ADDITIONAL STRIP OF ICE DAM PROTECTION MEMBRANE. TYPICAL AT RIDGE FLASHING AND BOTH SIDES OF VALLEY. (NOT SHOWN FOR CLARITY)



C1 DETAIL - RIDGE TERMINATION AT RISING WALL



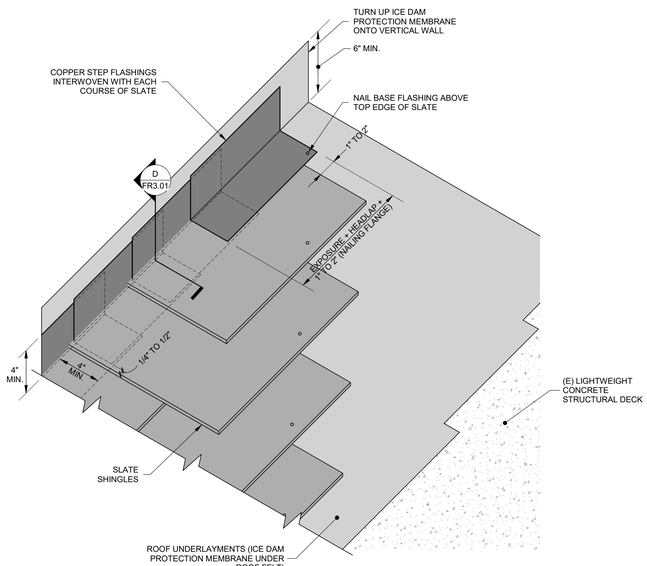
D SECTION - TYPICAL SLATE FLASHING AT RISING MASONRY WALL



E TYPICAL STEP COUNTERFLASHINGS AT VERTICAL SIDE WALL

NOTES:

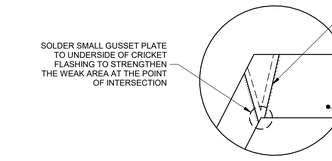
1. LAYOUT OF STEPPED COUNTERFLASHING IN MASONRY DEPENDS UPON SIZE OF BRICKS AND COURSING. PLAN FLASHING TO PROVIDE MIN. 8" HEIGHT ABOVE ROOFING, BUT NOT GREATER THAN 12", U.N.O. REVIEW ALL REGLET LOCATIONS WITH ENGINEER BEFORE PROCEEDING.
2. FLASHINGS GREATER THAN 8" SHALL HAVE RIVETED AND SOLDERED 24 OZ COPPER TABS TO SECURE EXPOSED SIDE OF COUNTERFLASHING. SECURE TABS TO WALL ABOVE BASE FLASHINGS WITH STAINLESS STEEL NAIL-IN ANCHOR.

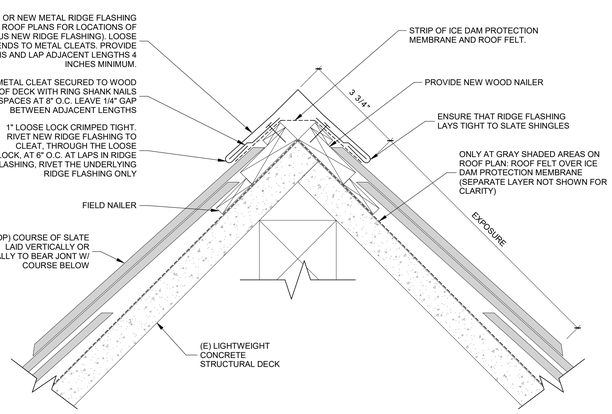


F TYPICAL BASE STEP FLASHINGS AT VERTICAL SIDE WALL

NOTES:

1. SLATE EXPOSURE RANGES FROM 9.5 INCHES AT THE EAVES TO 6.5 INCHES AT THE RIDGE. HEADLAP IS 3".
2. AT THE BOTTOM +/- 20" OF PROJECTING EAVES, ROOF DECKING IS WOOD DECKING, NOT SHOWN FOR CLARITY.



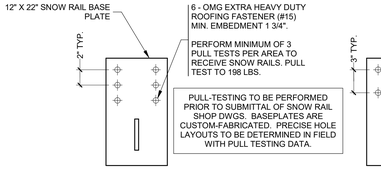


G TYPICAL RIDGE FLASHING



H TYPICAL CRICKET AT INSIDE CORNER

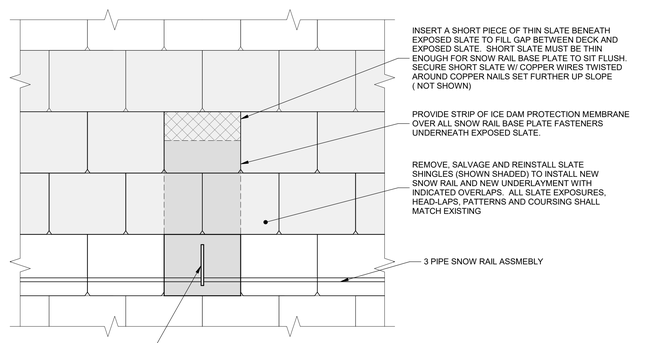
NOTE: BASE FLASHINGS AND EXTENT OF UNDERLAYMENTS NOT SHOWN FOR CLARITY. PROVIDE ROSIN PAPER ATOP ROOF FELT UNDER CRICKET AREA.



J SNOW RAIL BASE PLATE ATTACHMENT

NOTES:

1. ROOF SHEATHING AND ROOFING MATERIALS NOT SHOWN FOR DRAWING CLARITY.
2. SEE SPECIFICATION FOR BASE PLATE SPACING.
3. MAXIMUM SPACING OF BASE PLATES SHALL BE 30 INCHES.



K SNOW RAIL AND UNDERLAYMENT INSTALLATION AT EXISTING SLATE ROOF

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:



David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:

BID SET

Drawn: MLP	
Checked: JMH/PCB	
Approved: TDM	

Drawing Title:

ROOFING DETAILS

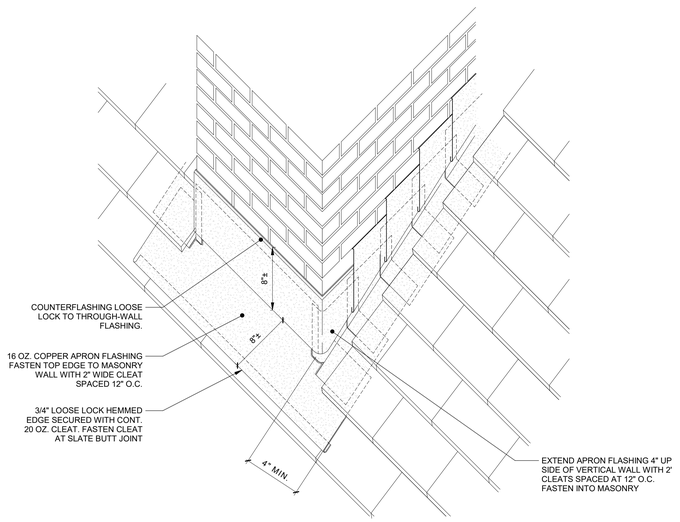
Job Number: E19.054B

Date: 04/11/25 | Scale: As indicated

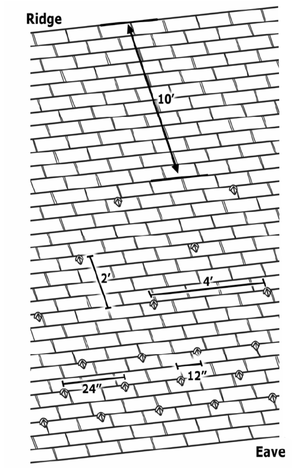
Drawing Number:

FR3.01

4/11/2025 2:03:23 PM



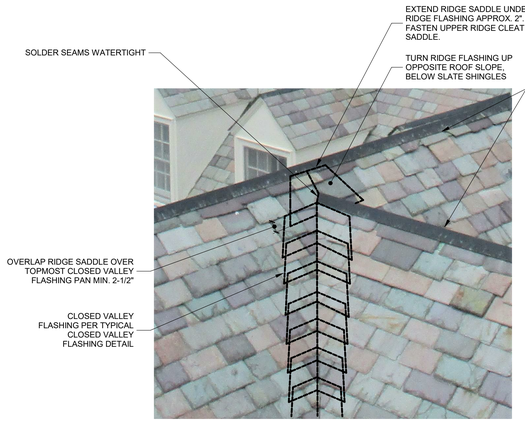
A TYPCIAL APRON FLASHING



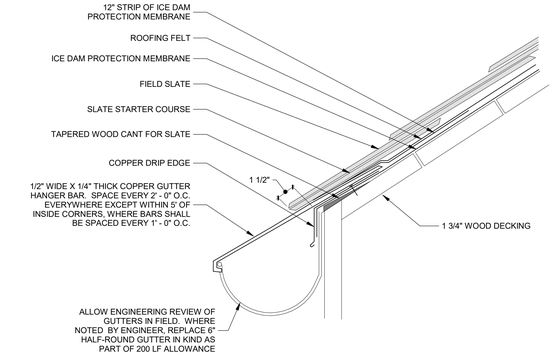
B TYPICAL SNOW GUARD LAYOUT (ALTERNATE SCOPE)

NOTES:

1. SNOW GUARDS SHALL BE PLACED NO CLOSER THAN 18" AWAY FROM THE CENTER OF VALLEYS.
2. SNOW GUARDS SHALL BE PLACED AT LEAST 6" AWAY FROM DORMER WALLS.

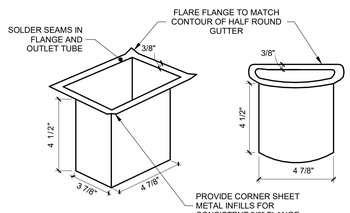


C TYPICAL VALLEY/RIDGE INTERSECTION FLASHING



D TYPICAL GUTTER REPLACEMENT

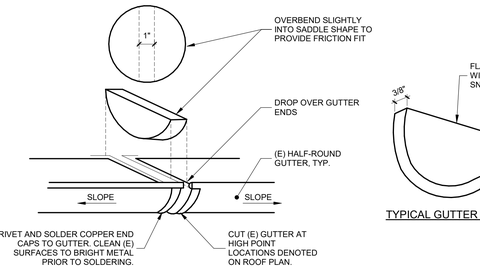




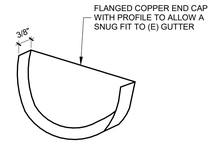
NEW RECTANGULAR OUTLET TUBE

NEW CIRCULAR OUTLET TUBE

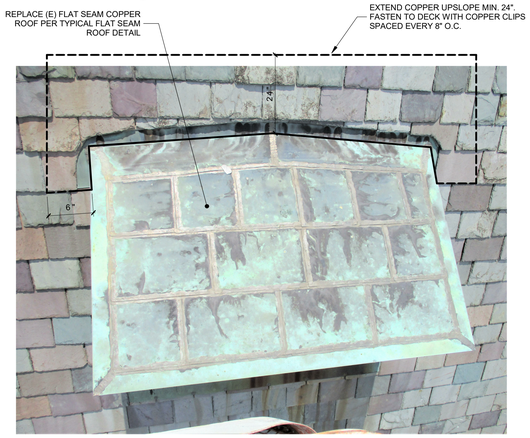
E TYPICAL OUTLET TUBE REPLACEMENT



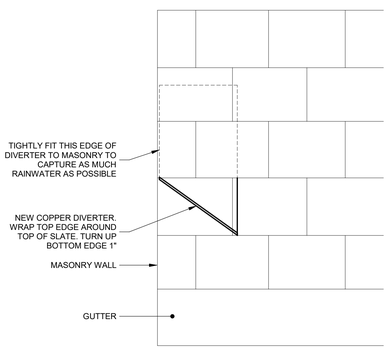
F TYPICAL GUTTER EXPANSION JOINT

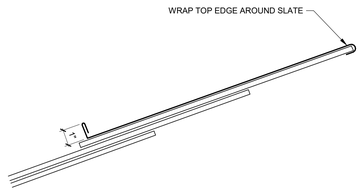


TYPICAL GUTTER END CAP

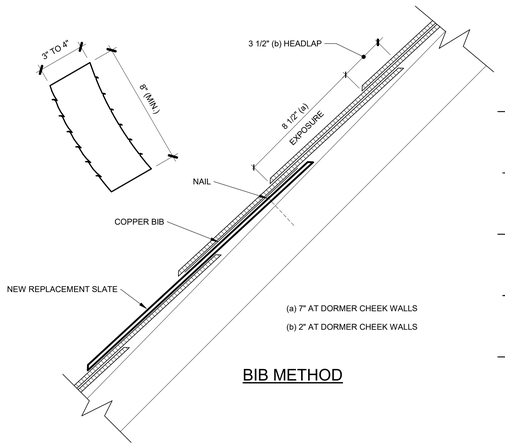


J FLAT SEAM ROOF REPLACEMENT

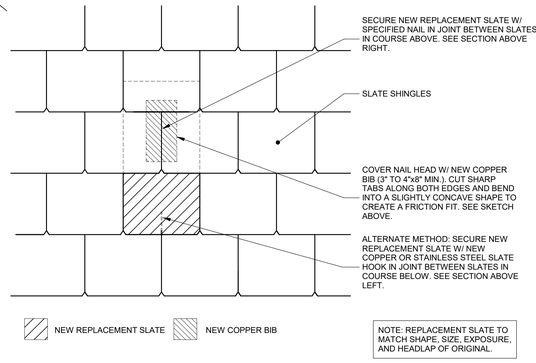




G TYPCIAL DIVERTER



BIB METHOD



H TYPICAL SLATE REPAIR WITH BIB

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:



David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:
BID SET

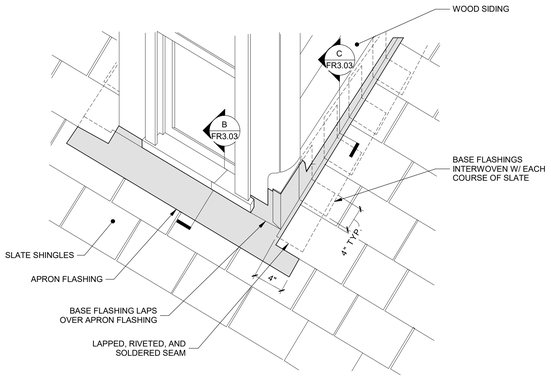
Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:
ROOFING DETAILS

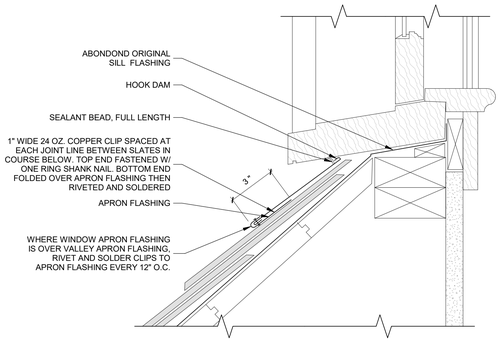
Job Number: E19.054B
Date: 04/11/25
Scale: As indicated

Drawing Number:
FR3.02

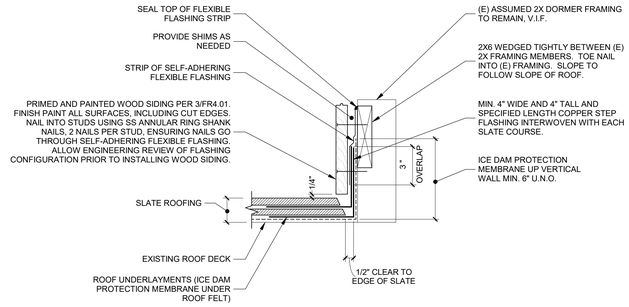
4/11/2025 2:03:24 PM



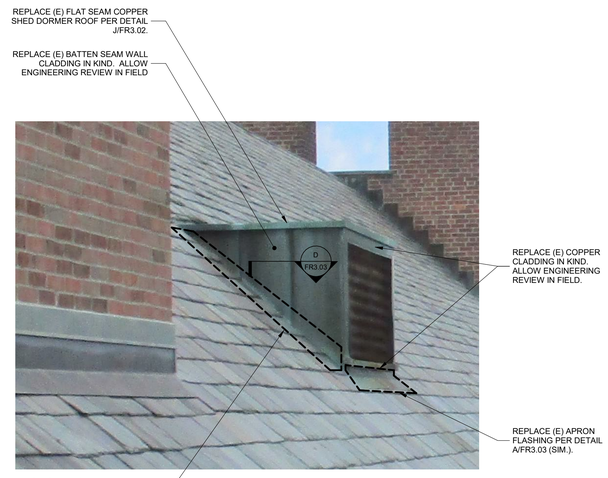
A TYPICAL DORMER APRON FLASHING



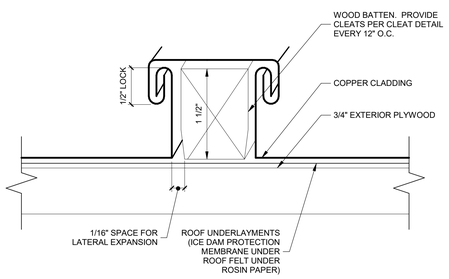
B SECTION - TYPICAL DORMER APRON FLASHING



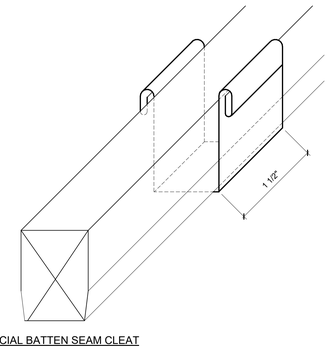
C SECTION - TYPICAL SLATE FLASHING AT RISING DORMER WALL



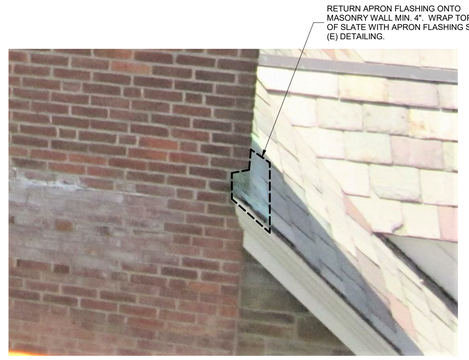
D SHED DORMER WALL CLADDING



E TYPICAL BATTEN SEAM



TYPCIAL BATTEN SEAM CLEAT



F TYPICAL FLASHING RETURN AT CHIMNEY

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:



David A. VanOcker
P.E. Lic. #073893-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:
BID SET

Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:
ROOFING DETAILS

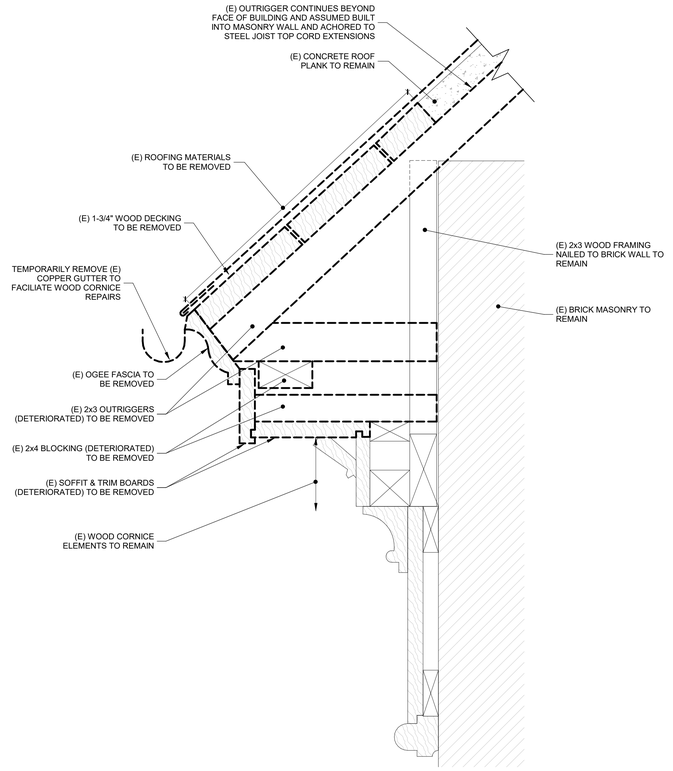
Job Number: E19.054B
Date: 04/11/25 Scale: As indicated

Drawing Number:
FR3.03

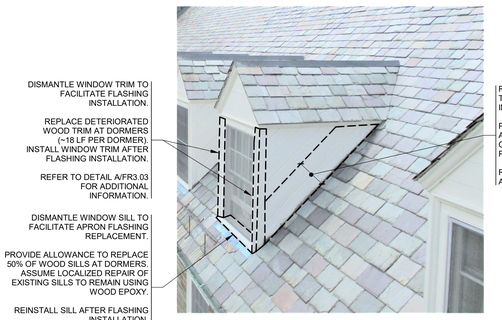
4/11/2025 2:03:24 PM



1 FR4.01 DETAIL - WOOD CORNICE REPAIR



2 FR4.01 SECTION - WOOD CORNICE
3" = 1'-0"



3 FR4.01 DETAIL - WOOD DORMER REPAIR (TYP.)
NOTE: REFER TO DETAIL B/FR3.01 FOR INFORMATION ON FLASHING WORK ASSOCIATED WITH DORMERS.

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:



David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions

Project Name:
CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:
BID SET

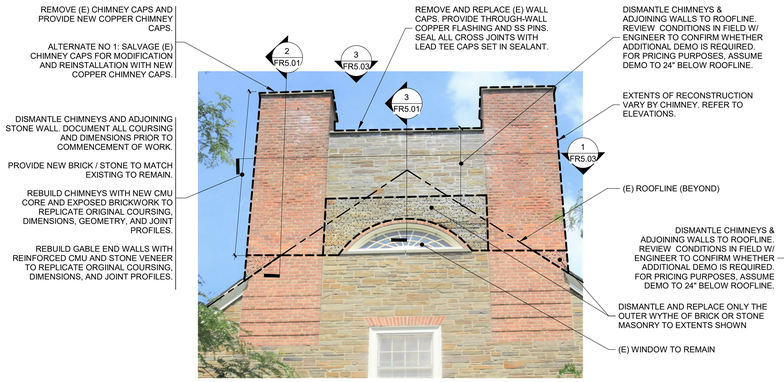
Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:
CORNICE & DORMER DETAILS

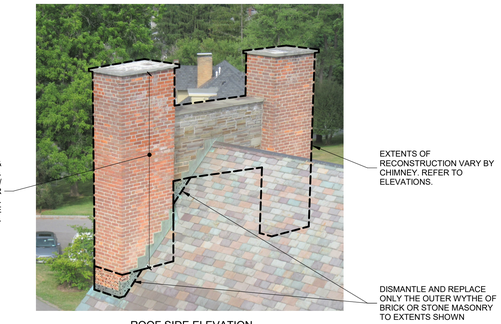
Job Number: E19.054B
Date: 04/11/25 Scale: As indicated

Drawing Number:
FR4.01

4/11/2025 2:03:25 PM



EXTERIOR ELEVATION
(CHIMNEY CH9 SHOWN; OTHER CHIMNEYS SIMILAR)



ROOF SIDE ELEVATION
(CHIMNEY CH1 SHOWN; OTHER CHIMNEYS SIMILAR)

Chimney Schedule				
I.D.	Rehabilitation Scope		# of Active Flue(s)	Reference Detail
	Partial Rebuild	Full Rebuild		
CH1	X		1	1/FR5.01
CH2	X		2	1/FR5.01
CH3	X		2	1/FR5.01
CH4	X		1	1/FR5.01
CH5		X	1	1/FR5.02
CH6		X	1	1/FR5.02
CH7	X		2	1/FR5.01
CH8	X		2	1/FR5.01
CH9	X		1	1/FR5.01
CH10	X		2	1/FR5.01

NOTES:

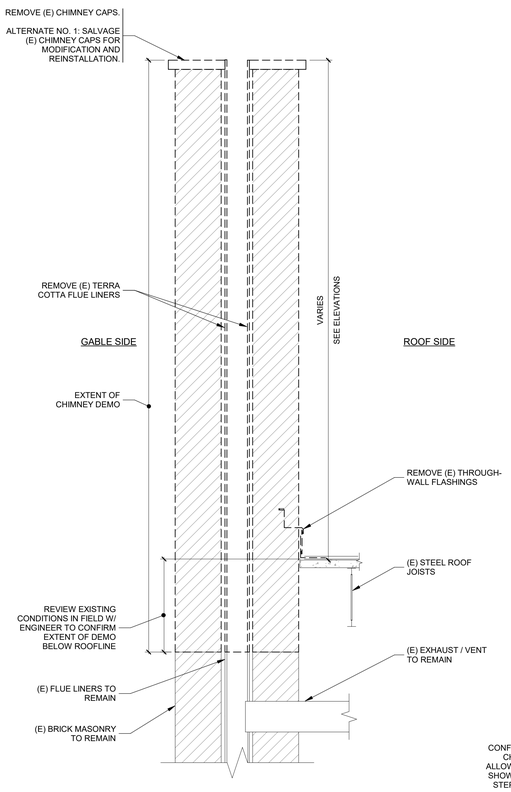
1. REFER TO ELEVATIONS FOR EXTENTS OF RECONSTRUCTION.

1 FR5.01 CHIMNEY REHABILITATION - PARTIAL REBUILD

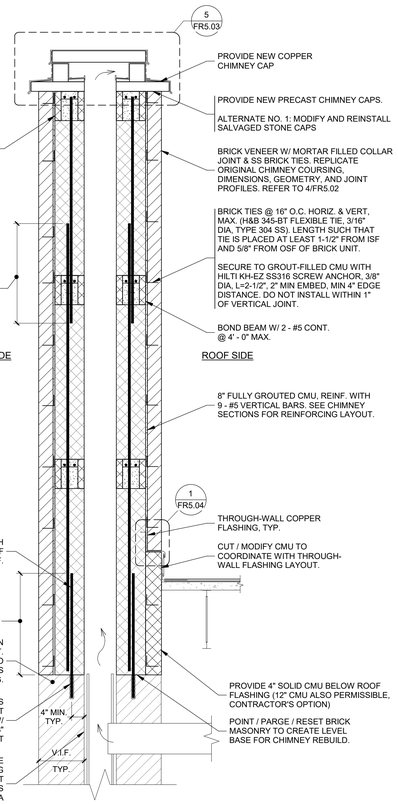
N.T.S.

NOTES:

1. REVIEW EXISTING CONDITIONS IN THE FIELD WITH THE ENGINEER TO CONFIRM PRECISE EXTENTS OF RECONSTRUCTION.
2. REFER TO ELEVATIONS FOR APPROXIMATE EXTENTS OF EACH CHIMNEY AND WALL REBUILD.
3. REFER TO 4/FR5.02 FOR EXISTING BRICK COURSING TO BE REPLICATED.



DEMO



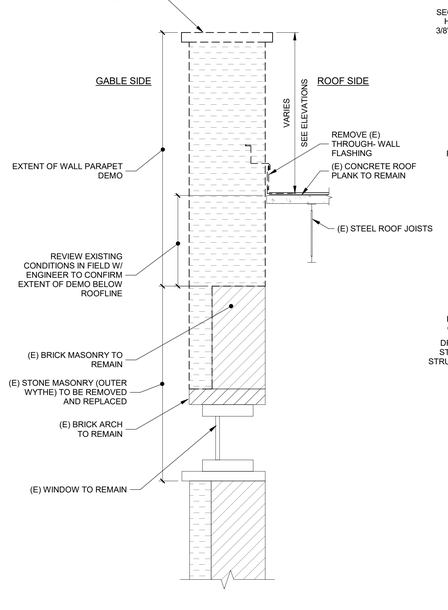
REBUILD

2 FR5.01 SECTION - CHIMNEY REBUILD, TYP.

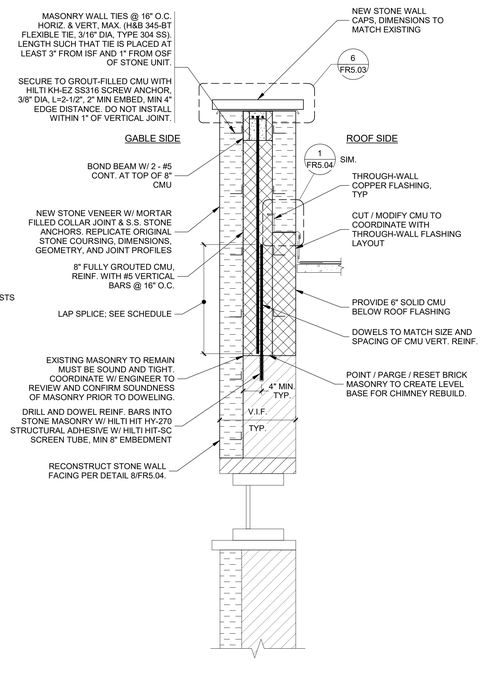
3/4" = 1'-0"

NOTES:

1. EXISTING CONDITIONS ILLUSTRATED ARE BASED ON LIMITED SURVEY AND AVAILABLE BUILDING INFORMATION. CONTRACTOR SHALL CONFIRM ALL EXISTING CONDITIONS, INCLUDING CHIMNEY FLUE LAYOUTS.
2. CONTRACTOR SHALL COORDINATE TO REVIEW EXISTING CONDITIONS IN FIELD WITH ENGINEER.
3. CHIMNEY REBUILD DETAILS TO BE CONFIRMED / FINALIZED FOLLOWING REVIEW AND DOCUMENTATION OF EXISTING CONDITIONS.



DEMO



REBUILD

3 FR5.01 SECTION - PARAPET REBUILD, TYP.

3/4" = 1'-0"

NOTES:

1. EXISTING CONDITIONS ILLUSTRATED ARE BASED ON LIMITED SURVEY AND AVAILABLE BUILDING INFORMATION. CONTRACTOR SHALL CONFIRM ALL EXISTING CONDITIONS.
2. CONTRACTOR SHALL COORDINATE TO REVIEW EXISTING CONDITIONS IN FIELD WITH ENGINEER.
3. PARAPET REBUILD DETAILS TO BE CONFIRMED / FINALIZED FOLLOWING REVIEW AND DOCUMENTATION OF EXISTING CONDITIONS.

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:



David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:

BID SET

Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:

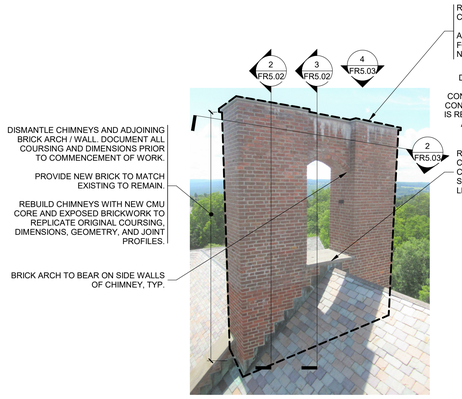
MASONRY DETAILS

Job Number: E19.054B
Date: 04/11/25 | Scale: As indicated

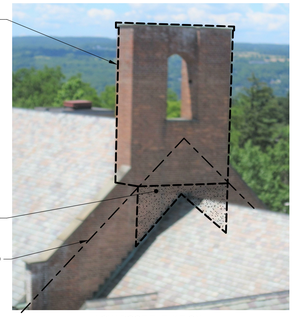
Drawing Number:

FR5.01

4/11/2025 2:03:25 PM



HIGH ROOF ELEVATION
(CHIMNEY CH5 SHOWN; CH6 SIM.)



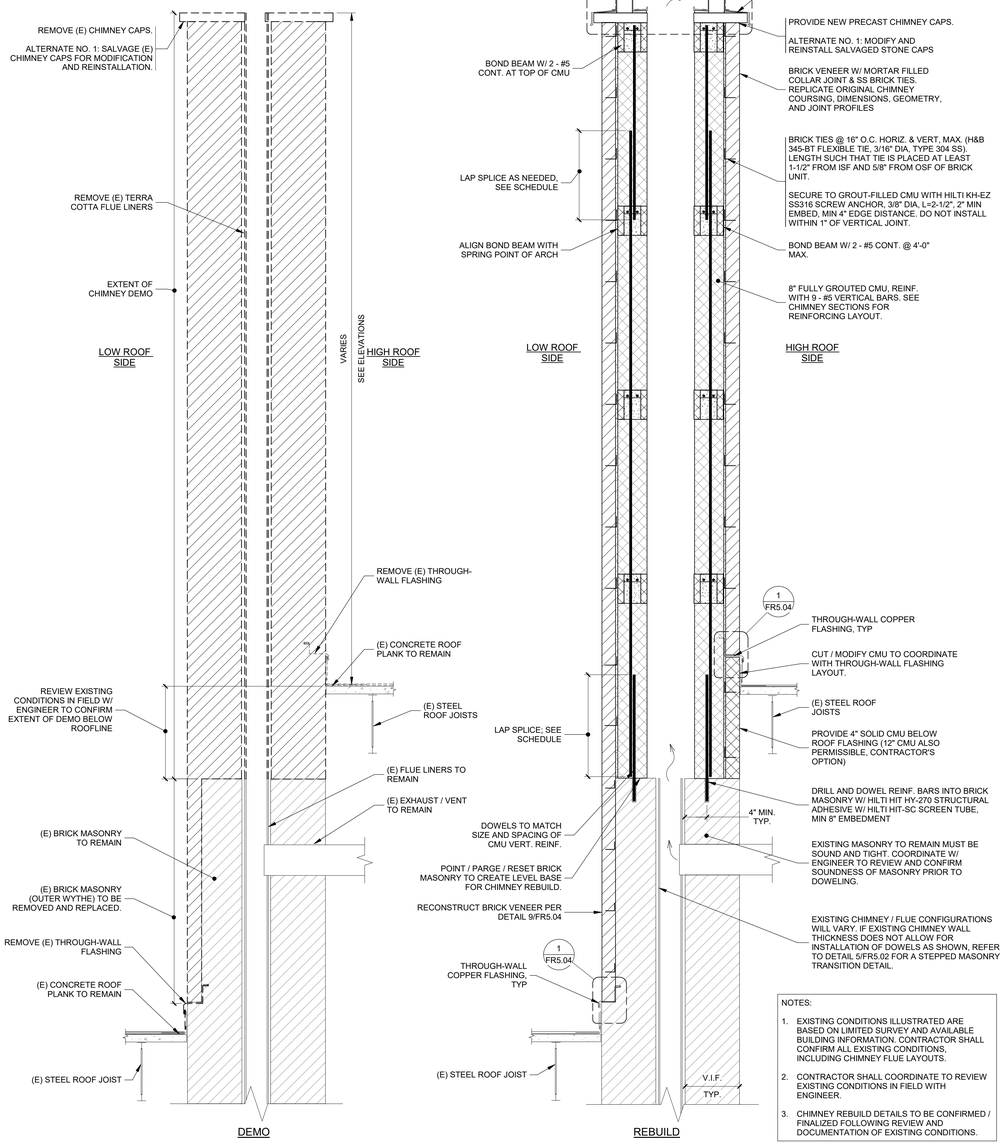
LOW ROOF ELEVATION
(CHIMNEY CH6 SHOWN; CH5 SIM.)

1 FR5.02 CHIMNEY REHABILITATION - FULL REBUILD

N.T.S.

NOTES:

1. REVIEW EXISTING CONDITIONS IN THE FIELD WITH THE ENGINEER TO CONFIRM PRECISE EXTENTS OF RECONSTRUCTION.
2. REFER TO 4/FR5.02 FOR EXISTING BRICK COURSING TO BE REPLICATED.



NOTES:

1. EXISTING CONDITIONS ILLUSTRATED ARE BASED ON LIMITED SURVEY AND AVAILABLE BUILDING INFORMATION. CONTRACTOR SHALL CONFIRM ALL EXISTING CONDITIONS, INCLUDING CHIMNEY FLUE LAYOUTS.
2. CONTRACTOR SHALL COORDINATE TO REVIEW EXISTING CONDITIONS IN FIELD WITH ENGINEER.
3. CHIMNEY REBUILD DETAILS TO BE CONFIRMED / FINALIZED FOLLOWING REVIEW AND DOCUMENTATION OF EXISTING CONDITIONS.

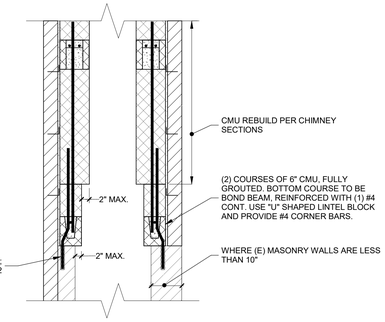
2 FR5.02 SECTION - CHIMNEY REBUILD, TYP.

3/4" = 1'-0"



4 FR5.02 DETAIL - BRICK COURING, TYP.

N.T.S.

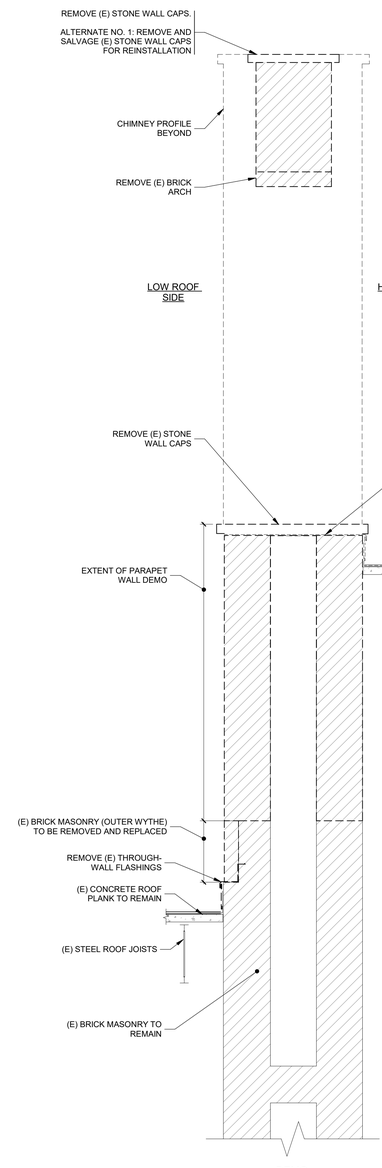


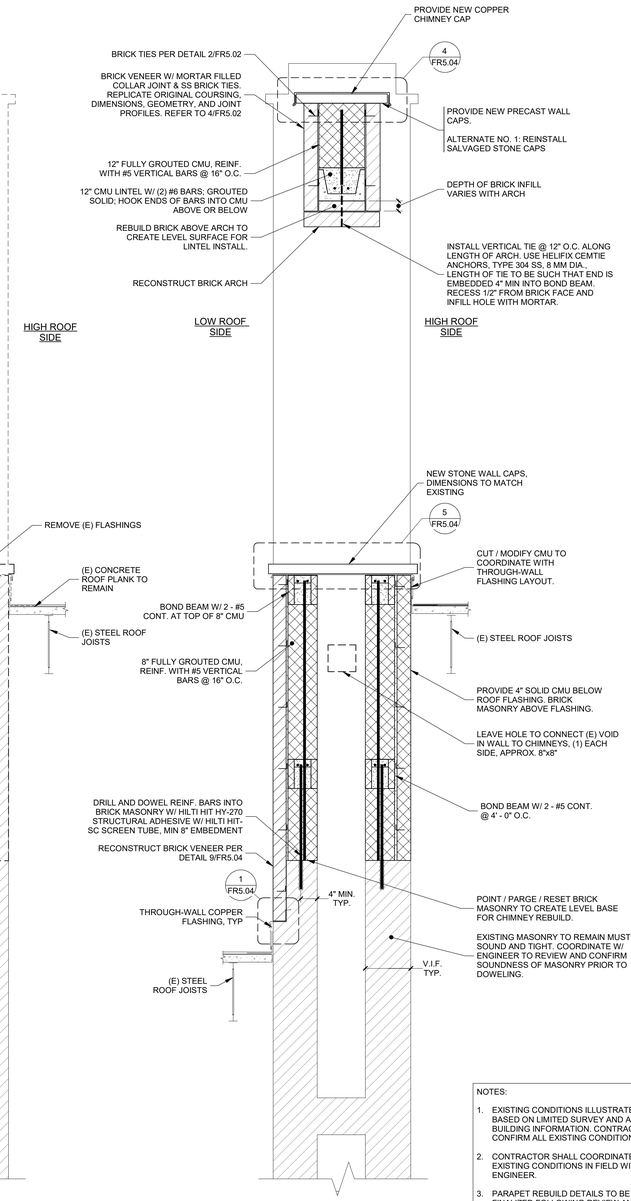
5 FR5.02 DETAIL - CORBELLED MASONRY

3/4" = 1'-0"

NOTES:

1. THIS DETAIL PRESENTS AN ALTERNATE APPROACH TO STARTING THE CHIMNEY REBUILD IF THE EXISTING BRICK MASONRY WALLS ARE TOO THIN FOR DOWELING.
2. REVIEW EXISTING CONDITIONS IN FIELD WITH ENGINEER.





NOTES:

1. EXISTING CONDITIONS ILLUSTRATED ARE BASED ON LIMITED SURVEY AND AVAILABLE BUILDING INFORMATION. CONTRACTOR SHALL CONFIRM ALL EXISTING CONDITIONS.
2. CONTRACTOR SHALL COORDINATE TO REVIEW EXISTING CONDITIONS IN FIELD WITH ENGINEER.
3. PARAPET REBUILD DETAILS TO BE CONFIRMED / FINALIZED FOLLOWING REVIEW AND DOCUMENTATION OF EXISTING CONDITIONS.

3 FR5.02 SECTION - PARAPET REBUILD, TYP.

3/4" = 1'-0"

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:

David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:
BID SET

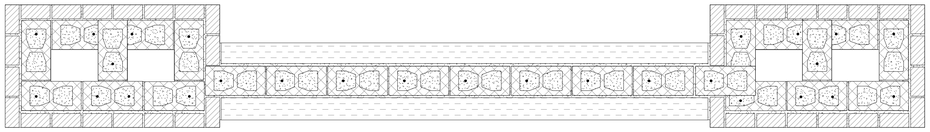
Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:
MASONRY DETAILS

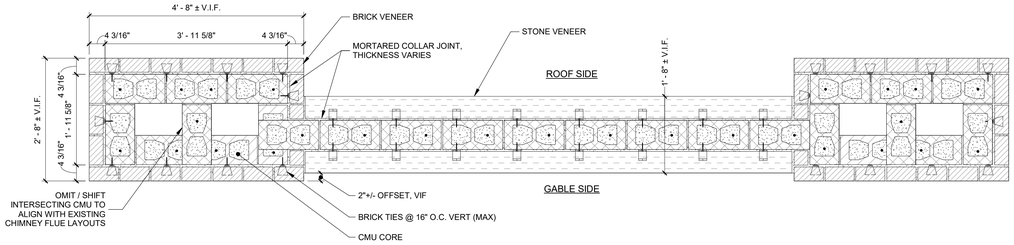
Job Number: E19.054B
Date: 04/11/25 Scale: As indicated

Drawing Number:
FR5.02

4/11/2025 2:03:26 PM



ALTERNATING BRICK / CMU COURSE

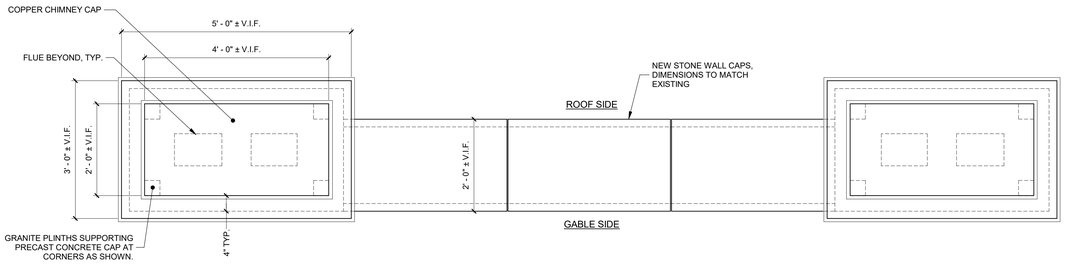


1 FR5.03 SECTION - CHIMNEY / PARAPET REBUILD, TYP.

3/4" = 1'-0"

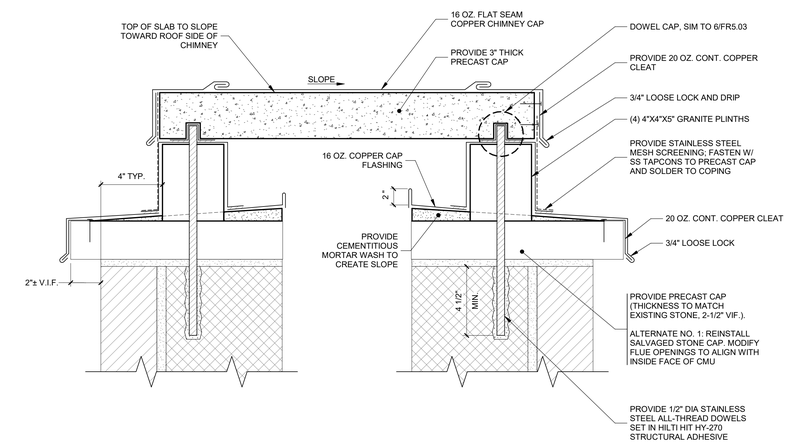
NOTES:

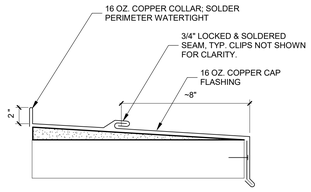
1. BRICK HEADER COURSE NOT SHOWN. REFER TO 4/FR5.02 FOR ADDITIONAL BRICK COURSING INFORMATION.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND DOCUMENT EXISTING CHIMNEY / PARAPET CONFIGURATIONS.
3. CHIMNEY REBUILD LAYOUTS TO BE CONFIRMED / FINALIZED FOLLOWING REVIEW AND DOCUMENTATION OF EXISTING CONDITIONS.
4. BOND BEAM REINFORCEMENT NOT SHOWN. REFER TO TYPICAL MASONRY DETAILS FOR ADDITIONAL INFORMATION ON REINFORCEMENT LAYOUT.



3 FR5.03 PLAN - CHIMNEY / PARAPET CAP

3/4" = 1'-0"

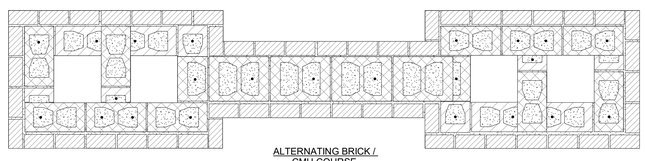




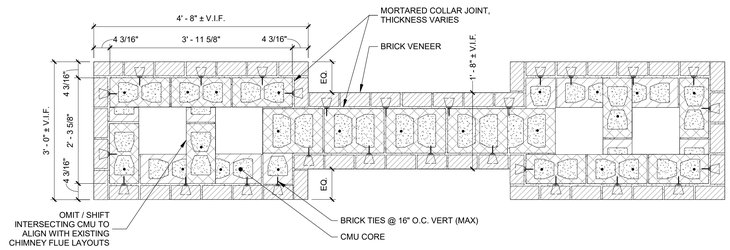
FLASHING BETWEEN PLINTHS

5 FR5.03 DETAIL - CHIMNEY CAP, TYP.

3" = 1'-0"



ALTERNATING BRICK / CMU COURSE

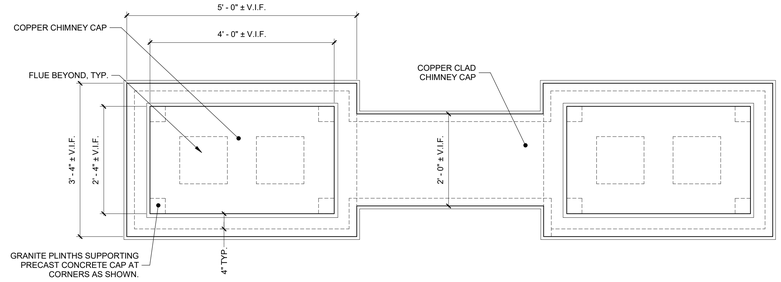


2 FR5.03 SECTION - CHIMNEY / ARCH REBUILD, TYP.

3/4" = 1'-0"

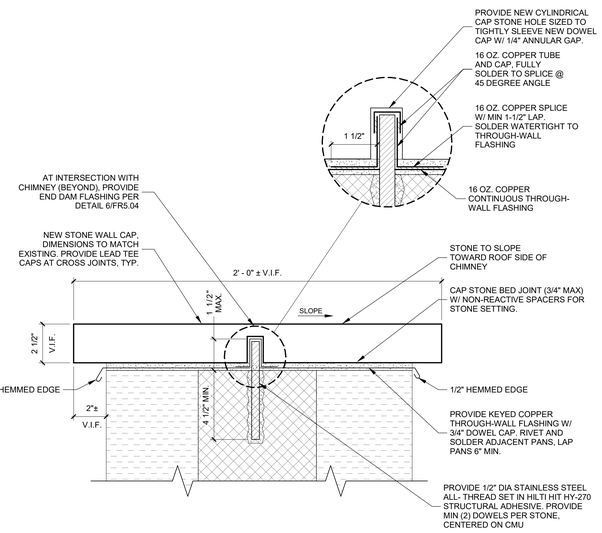
NOTES:

1. BRICK HEADER COURSE NOT SHOWN. REFER TO 4/FR5.02 FOR ADDITIONAL BRICK COURSING INFORMATION.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND DOCUMENT EXISTING CHIMNEY / PARAPET CONFIGURATIONS.
3. CHIMNEY REBUILD LAYOUTS TO BE CONFIRMED / FINALIZED FOLLOWING REVIEW AND DOCUMENTATION OF EXISTING CONDITIONS.
4. BOND BEAM REINFORCEMENT NOT SHOWN. REFER TO TYPICAL MASONRY DETAILS FOR ADDITIONAL INFORMATION ON REINFORCEMENT LAYOUT.



4 FR5.03 PLAN - CHIMNEY CAP

3/4" = 1'-0"



6 FR5.03 DETAIL - PARAPET WALL CAP FLASHING

3" = 1'-0"

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:



David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:

BID SET

Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:

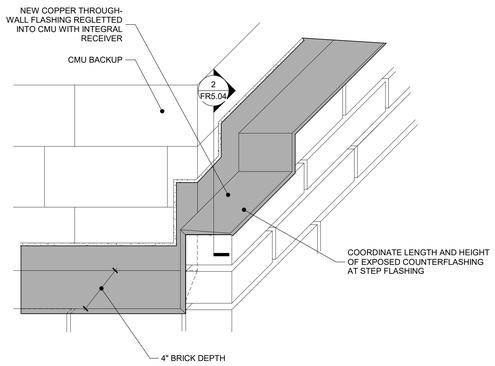
MASONRY DETAILS

Job Number: E19.054B
Date: 04/11/25
Scale: As indicated

Drawing Number:

FR5.03

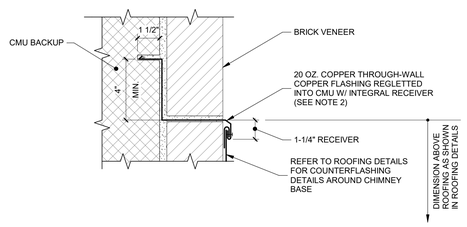
4/11/2025 2:03:27 PM



1 FR5.04 DETAIL - TYPICAL THROUGH-WALL FLASHING

NOTES:

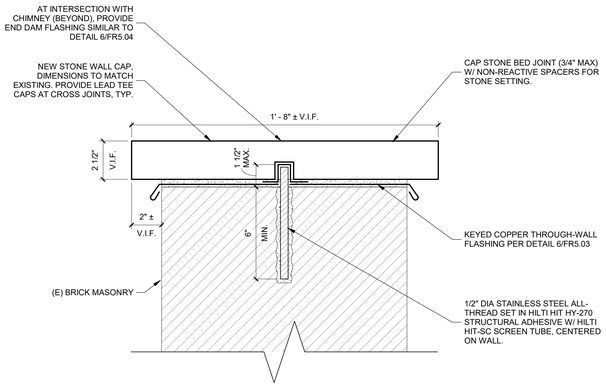
1. COUNTER AND BASE FLASHING NOT SHOWN FOR CLARITY. REFER TO ROOFING DETAILS FOR ADDITIONAL INFORMATION.
2. BRICK NOT SHOWN FOR CLARITY.
3. ALL INNER AND OUTER CORNERS MUST BE LAPPED AND SOLDERED TO SEAL.



2 FR5.04 DETAIL - THROUGH-WALL FLASHING

NOTES:

1. MARK OUT THROUGH-WALL FLASHING LAYOUT IN FIELD FOR ENGINEER REVIEW PRIOR TO CUTTING REGLETS.
2. RECEIVER TO BE CONTINUOUS AT ALL CHANGES IN DIRECTIONS (I.E. MITER AND SOLDER ALL JOINTS WATERTIGHT; PROVIDE GUSSET PLATES TO COMPLETE OUTSIDE CORNERS).
2. ENSURE ALL JOINTS ARE FULLY POINTED FLUSH WITH MORTAR PRIOR TO INSTALLING FLASHINGS.



3 FR5.04 DETAIL - STONE WALL CAP REPLACEMENT

3" = 1'-0"

4 FR5.04 DETAIL - CHIMNEY CAP FLASHING

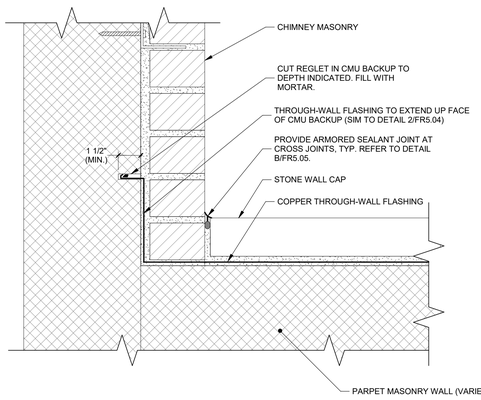
3" = 1'-0"

5 FR5.04 DETAIL - STONE WALL CAP FLASHING

3" = 1'-0"

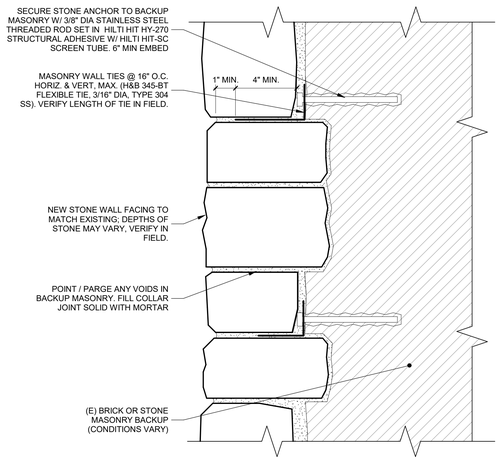
6 FR5.04 DETAIL - END DAM FLASHING

N.T.S.



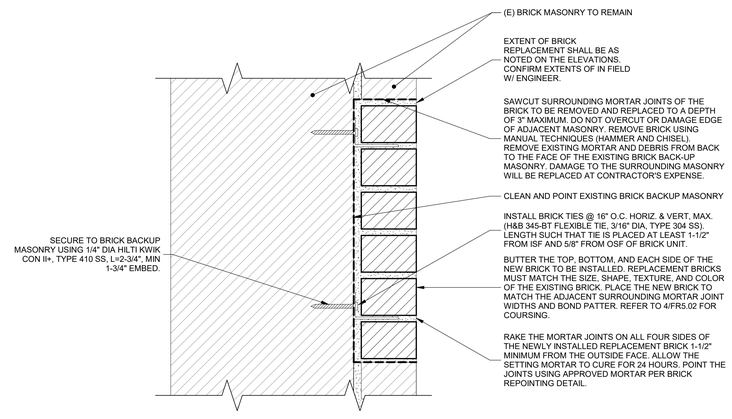
7 FR5.04 SECTION - END DAM FLASHING

3" = 1'-0"



8 FR5.04 DETAIL - STONE RECONSTRUCTION, TYP.

3" = 1'-0"



9 FR5.04 DETAIL - BRICK RECONSTRUCTION, TYP.

3" = 1'-0"

NOTES.

1. ALL BRICK MASONRY WORK SHALL FOLLOW THE TECHNICAL NOTES OF THE BRICK INSTITUTE OF AMERICA (BIA).

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:



David A. VanOcker
P.E. Lic. #074389-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:

BID SET

Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:

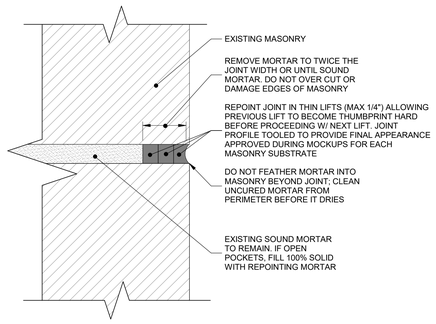
MASONRY DETAILS

Job Number: E19.054B
Date: 04/11/25 Scale: As indicated

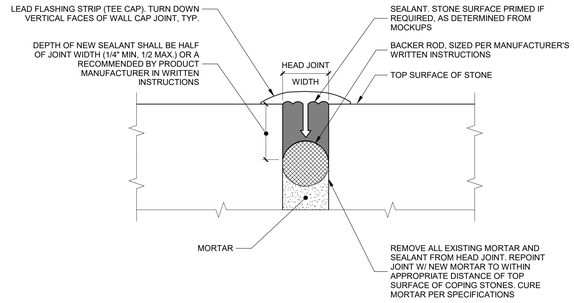
Drawing Number:

FR5.04

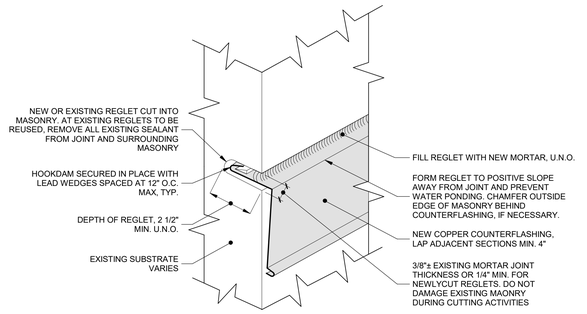
4/11/2025 2:03:27 PM



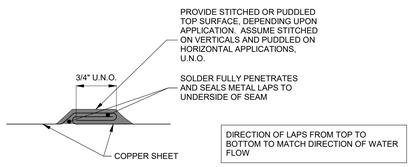
A DETAIL - MASONRY REPOINTING DETAIL, TYP.



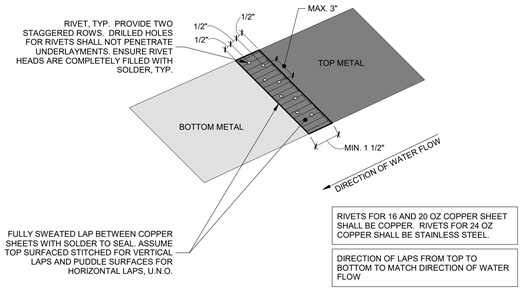
B DETAIL - ARMORED SEALANT JOINT, TYP.



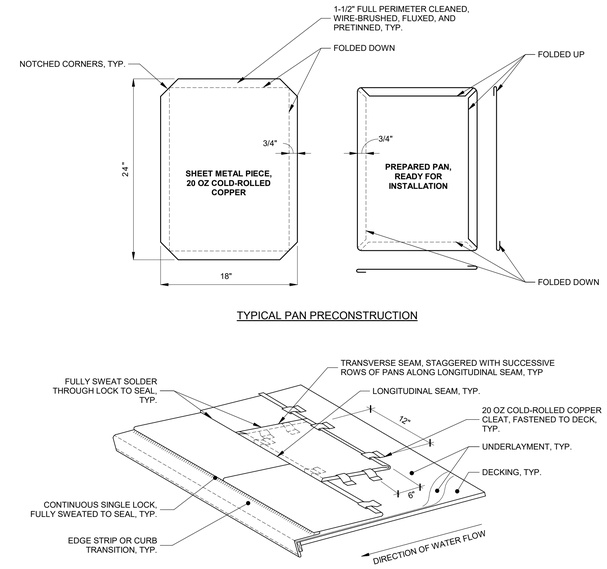
C DETAIL - COUNTERFLASHING REGLET, TYP.



D DETAIL - LOCKED AND SOLDERED SEAM, TYP.



E DETAIL - LAPPED, RIVETED, AND SOLDERED SEAM



TYPICAL PAN PRECONSTRUCTION

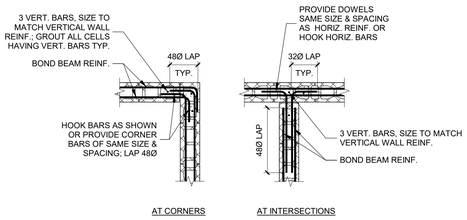
PAN ASSEMBLY INTO ROOFING

F SECTION - FLAT SEAM ROOFING PANS, TYP.

N.T.S.

NOTES:

1. GENERIC PAN LAYOUT SHOWN. EXACT PAN LAYOUT TO BE CONFIRMED DURING SHOP DRAWING SUBMITTAL PROCESS.
2. MAXIMUM PAN DIMENSIONS ILLUSTRATED, HOWEVER, SMALLER PANS OF THE SAME APPROXIMATE SIZE RATIO ARE PERMITTED.
3. PAN SIZE SHALL BE SELECTED TO MINIMIZE JOINTS, BUT ALSO IRREGULAR GEOMETRIES.



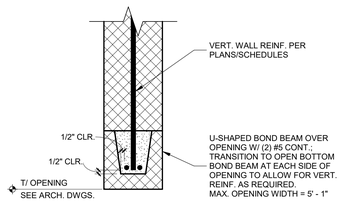
AT CORNERS AT INTERSECTIONS

G MASONRY WALL DETAILS

(8" BLOCK)

NOTES:

1. CORNERS AND INTERSECTIONS
   AT POINTS WHERE CONCRETE MASONRY WALLS MEET OR INTERSECT, LAY 50% OF THE UNITS IN MASONRY BOND W/ ALTERNATE UNITS HAVING A BEARING ON NOT LESS THAN 4" ON THE UNIT BELOW (U.N.O.)
2. DOWELS
   PROVIDE DOWELS FROM WALL BELOW WITH SAME SIZE AND SPACING AS BARS AT LEVEL BELOW (U.N.O.). LAP BARS PER SCHEDULE (U.N.O.)
3. BOND BEAMS
   ALL REINFORCED CMU WALLS TO HAVE BOND BEAMS AT TOP AND BOTTOM OF WALL, MINIMUM (U.N.O.) BOND BEAMS TO BE REINFORCED W/ 2 - #5 CONT. U.N.O.
4. ALL VERTICAL REINFORCEMENT IS CENTERED IN CMU WALL U.N.O.
5. CMU TO BE PLACED IN RUNNING BOND.



H CMU BOND BEAM LINTEL

NOTE: PENETRATIONS THROUGH BOND BEAMS ARE NOT PERMITTED.

Schedule of Embedment and Splice Length (in.) for CMU per TMS 402/602-16

Bar Size	(f'm = 2000 psi) Embedment and Lap Splice Length			
	6" CMU	8" CMU	10" CMU	12" CMU
#3	12"	12"	12"	12"
#4	17"	13"	12"	12"
#5	28"	20"	16"	13"
#6	53"	38"	29"	24"
#7	74"	52"	40"	33"
#8	114"	79"	61"	50"
#9	148"	103"	79"	64"

NOTE:

1. TABLE REFLECTS REINFORCEMENT CENTERED IN THE WALL/CELL.
2. IF REINFORCEMENT IS EPOXY COATED MULTIPLY LENGTHS SHOWN IN TABLE BY 150%.
3. Fy = 60 KSI FOR REINFORCEMENT.

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

Seal:



David A. VanOcker
P.E. Lic. #073489-1

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASES 2, 3, & 4

Drawing Set:

BID SET

Drawn: MLP
Checked: JMH/PCB
Approved: TDM

Drawing Title:

TYPICAL DETAILS

Job Number: E19.054B
Date: 04/11/25
Scale: As indicated

Drawing Number:

FR5.10

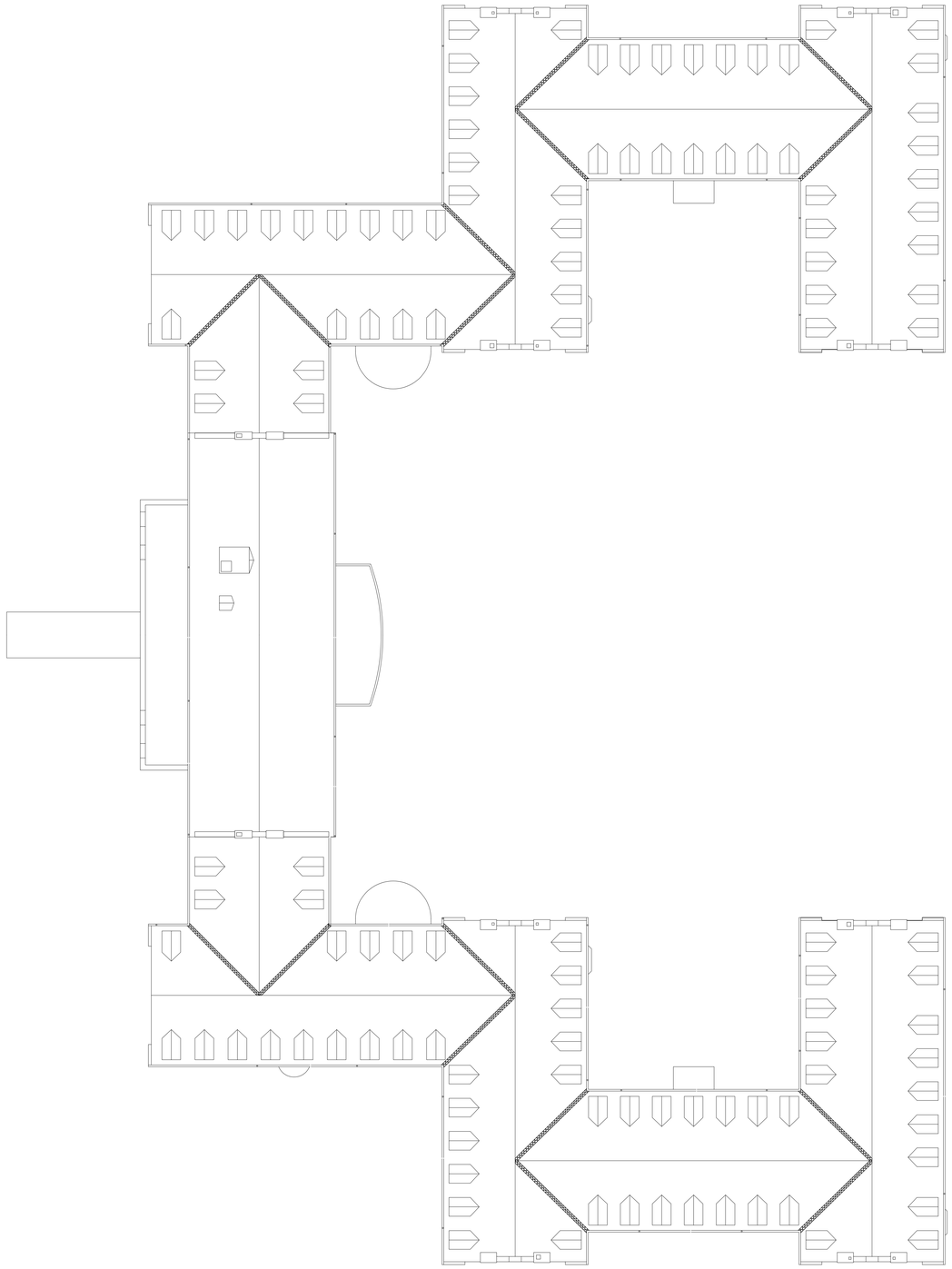
4/11/2025 2:03:28 PM

ASBESTOS ABATEMENT NOTES:

1. THE NOTES AND DETAILS PRESENTED HERE AND INCLUDED IN SPECIFICATION SECTION 02 82 13 ARE APPLICABLE TO DRAWING AR1.01.
2. THE CONTRACTOR SHALL PERFORM ALL CONTRACT WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ASBESTOS ABATEMENT OPERATIONS SHALL BE PERFORMED AS PER THE PROVISIONS AND CONDITIONS LISTED IN THE NEW YORK STATE DEPARTMENT OF LABOR (NYS DOL) INDUSTRIAL CODE RULE NO. 56 (CITED AS 12 NYCRR PART 56) AND ALL APPLICABLE STATE, FEDERAL AND LOCAL CODES.
3. ANY SITE SPECIFIC VARIANCE (SSV) NECESSARY TO ACCOMPLISH THE REMOVAL OF THE REFERENCED ASBESTOS CONTAINING MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBMITTED TO THE OWNERS REPRESENTATIVE FOR APPROVAL PRIOR TO SUBMISSION TO THE NYS DOL. THE COST ASSOCIATED WITH VARIANCE PREPARATION AND SUBMISSION OF ANY VARIANCE PETITION SHALL BE INCLUDED IN THE BASE BID.
4. ABATEMENT OPERATIONS SHALL INCLUDE THE REMOVAL, PACKAGING AND DISPOSAL OF NON-ASBESTOS MATERIALS, ASBESTOS-CONTAMINATED MATERIALS AND ASBESTOS CONTAINING AS A PART OF THE CLARA DICKSON HALL ROOF REPAIRS PHASE 2, 3 & 4 PROJECT.
5. ASBESTOS CONTAINING AND ASBESTOS CONTAMINATED MATERIALS TO BE REMOVED SHALL INCLUDE ASBESTOS CONTAINING ROOFING TAR APPLIED RANDOMLY TO METAL FLASHING / SLATE ROOFING AT ALL ROOF VALLEYS. A TOTAL OF APPROXIMATELY 456 SQUARE FEET OF ASBESTOS CONTAINING TAR AND ASSOCIATED ASBESTOS CONTAMINATED SLATE ROOFING / METAL FLASHING IS TO BE REMOVED (BASED ON 456 LINEAR FEET OF VALLEYS AT A WORST-CASE 1' TAR APPLICATION WIDTH). REMOVAL SHALL BE PERFORMED AS PER 12 NYCRR PART 56-11.1 FOR IN-PLANT OPERATIONS.
6. CONTINUAL WATER-TIGHTNESS OF THE ROOF / BUILDING ENVELOPE IS THE RESPONSIBILITY OF THE CONTRACTOR. THE AMOUNT OF ROOFING REMOVED IN A GIVEN DAY SHALL NOT EXCEED THE AMOUNT OF TEMPORARY AND/OR PERMANENT ROOFING THAT CAN BE REPLACED BY THE END OF THE GIVEN DAY. BUILDING OPENINGS CREATED BY WINDOW UNIT REMOVALS SHALL BE CRITICALLY SEALED WITH TWO LAYERS OF POLY.
7. THE "ACTIVE" ROOF AREA / EXTERIOR REGULATED ABATEMENT WORK AREA FROM WHICH ACM IS BEING REMOVED SHALL BE DEEMED TO BE THE ACTIVE WORK AREA. ONLY THE CONTRACTORS PERSONNEL, TESTING LABORATORY PERSONNEL, STATE/FEDERAL INSPECTORS, AND OTHER CERTIFIED PERSONNEL SHALL HAVE ACCESS THERETO.
8. ALL EQUIPMENT ON THE ACTIVE ROOF WORK AREA / ACTIVE EXTERIOR REGULATED ABATEMENT WORK AREA, INCLUDING BUT NOT LIMITED TO AIR INTAKES, VENTS, VENTILATORS AND ANY OTHER OPENINGS INTO THE BUILDING AS WELL AS ANY OPERATIONAL/OPERABLE WINDOWS, DOORS, VENTS, AND UNITS WITHIN 25 FEET OF THE ACTIVE WORK AREA SHALL BE COVERED AND SEALED WITH TWO (2) LAYERS OF 6-MIL FIRE RETARDANT POLYETHYLENE SHEET. SHOULD THE WORK INTERFERE WITH VENTING PLUMBING STACKS, THE FACILITY MUST BE CONTACTED PRIOR TO COVERING OR SEALING.
9. THE CONTRACTOR SHALL SUBMIT A WRITTEN WORK PLAN FOR ASBESTOS ABATEMENT OPERATIONS FOR REVIEW AND APPROVAL AS PER THE REQUIREMENTS OF SPECIFICATIONS SECTION 028213, 1.5.
10. THE CONTRACTOR SHALL COORDINATE THE SCHEDULED WORK WITH THE OWNER, OWNERS REPRESENTATIVE, AND ALL OTHER TRADES.
11. THE CONTRACTOR SHALL MAINTAIN SECURITY IN EACH WORK AREA AND FOR THE OVERALL BUILDING AT ALL TIMES.
12. THE LOCATION OF REMOTE DECONTAMINATION ENCLOSURE SYSTEMS (IF UTILIZED), AIRLOCKS, WASTE DUMPSTERS, AND TRAILERS MUST BE APPROVED BY THE OWNER AND OWNERS REPRESENTATIVE PRIOR TO THE START OF THE PROJECT.
13. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL TEMPORARY POWER (INCLUDING THE POWER REQUIRED BY THE OWNER'S REPRESENTATIVE FOR AIR SAMPLING EQUIPMENT). ALL OPERATIONS ASSOCIATED WITH ELECTRICAL SERVICE WORK (I.E. LOCKOUT, TEMPORARY POWER HOOK-UP, ETC.) SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.
14. COORDINATE HOOK-UP OF WATER SOURCE/SERVICE FOR ABATEMENT WORK AND DECONTAMINATION PURPOSES WITH THE OWNER. PROVIDE AND UTILIZE AN ELECTRIC WATER HEATER FOR THE PROJECT. TEMPORARY WATER CONNECTIONS SHALL BE MADE BY THE CONTRACTOR AND MAINTAINED IN A LEAK FREE STATE AT ALL TIMES.
15. UNDER NO CIRCUMSTANCES SHALL CONTAMINATED LIQUIDS OR DEBRIS ENTER THE EXISTING SEWER SYSTEM. ALL WASTEWATER SHALL BE FILTERED THROUGH A SYSTEM WITH AT LEAST 5.0 MICRON PARTICLE SIZE COLLECTION CAPABILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WASTEWATER PERMITS REQUIRED TO PERFORM HIS WORK UNDER THIS CONTRACT. ANY COST ASSOCIATED WITH WASTE WATER PERMITS SHALL BE INCLUDED IN HIS BID.
16. ALL AIR MONITORING REQUIRED TO SATISFY THE REQUIREMENTS OF 12 NYCRR PART 56 SHALL BE PERFORMED BY A THIRD PARTY INDEPENDENT ENVIRONMENTAL CONSULTANT HIRED DIRECTLY BY THE OWNER. THE CONTRACTOR SHALL COORDINATE WITH THE THIRD PARTY CONSULTING FIRMS ONSITE APM. AIR MONITORING AND ANALYSIS TO SATISFY OSHA REQUIREMENTS SHALL BE THE CONTRACTORS RESPONSIBILITY.
17. COORDINATE ALL ASBESTOS ABATEMENT WITH THE OWNER'S REPRESENTATIVE.

LEGEND:

	ASBESTOS CONTAINING TAR AND ASSOCIATED ASBESTOS CONTAMINATED METAL FLASHING / SLATE TO BE REMOVED WHERE PRESENT AT ALL ROOF VALLEY LOCATIONS



1 Asbestos Roofing Abatement Plan
1/16" = 1'-0"

cvm
1002 West 9th Avenue, King of Prussia, PA 19406
610-989-3800 - www.cvmprofessional.com

DELTA
ENGINEERS, ARCHITECTS, & SURVEYORS
860 Hooper Road, Endwell, New York 13760
607.231.6600 / Email: mail@delta-eas.com

No.	Date	Revisions

Project Name:

CORNELL UNIVERSITY
CLARA DICKSON
ROOF REPAIRS
PHASE 2, 3 AND 4

Drawing Set:

BID DOCUMENTS

Drawn: SMP	ASBESTOS DESIGN PREPARED BY: STEPHEN PRISLUPSKY NYS DOL CERTIFIED ASBESTOS PROJECT DESIGNER CERTIFICATE NO. 24-6L43B-SHAB
Checked: WTJ	
Approved: SMP	

Drawing Title:

ASBESTOS ROOFING ABATEMENT PLAN AND NOTES

Job Number: E19.054B (CVM) / 2021.494.002 (DELTA)

Date: 04/01/25 | Scale: As indicated

Drawing Number:

AR1.01