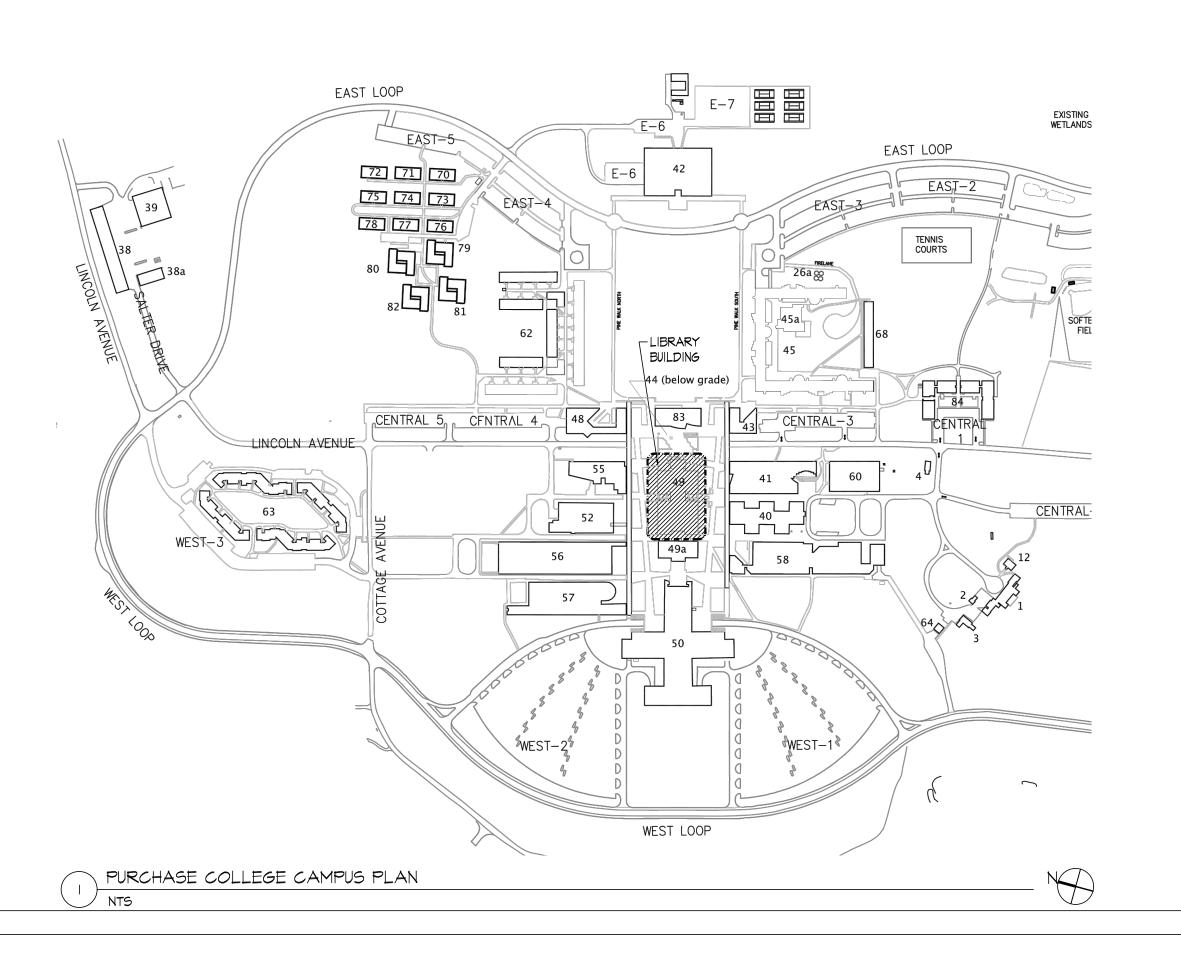


# REPLACE LIBRARY ROOF SUCF PROJECT #291071

STATE UNIVERSITY COLLEGE AT PURCHASE 735 Anderson Hill Rd.
Purchase, NY 10577







# REPLACE LIBRARY ROOF STATE UNIVERSITY COLLEGE

AT PURCHASE

Purchase, NY 10577

SUCF PROJECT #291071

735 Anderson Hill Rd.

Conditions

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No.	Date	Revision
0	28 July 2023	Issue for 50% DD
1	13 Nov. 2023	Issue for Pre-Bid
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3	07 May 2024	Issued for Bid

# TITLE, COLLEGE PLAN, LOCATION MAP



Date 00-00-2023
RRA Project No. 4256
Drawing By MM, SG
CHK By EP
Scale AS NOTED

T-001.00

#### ABBREVIATIONS Asbestos Containing Material Above Finish Floor A.F.F. Acoustical Ceiling Tile ADD'L Adjacent, Adjustable Air Conditioning Aluminum Angle Anodized ANOD Architect(ural) ARCH, ARCH Axonometric Basement Bedroom Betweer Blockina BLK'G Board of Standards and Appeals B.S.&A. Bottom (of BOTT, B. Cabinet, Cabinetry BLDG CAB'T Ceiling Height CLG Concréte Masonry Unit Center Line Ceramic Tile Clear Column Coordinate COL COORD CONC COND Concrete Condition Construction Continuous CONSTR Corridor CORR Diameter Diffuser DTL Dimension DIFF Double Down Dish Washer DBL Drawing DWR Elevation Elevator Electrical Encaustic ELEV Equal Existing ELEC ENCST Exteriór Extruded EX'G Face of Fasten EXTR Finish Fixture **FSTN** Flooring FIXT Fluorescent Fire Proof Self-Closing Door Framing Foot or Feet FL'G FLUOR **FPSC** General Contractor FRM'G Ground Fault Interrupter FURR Gypsum Wall Board Händicapped Hardware Hardwood GMB Handrail Height Hollow Metal HMR Incandescent HDR Interior 7 Janitor INCAND Laminated Light Lightweight Linear, Linen LAM'D Low Point Manufacturer Master Bedroom Material Maximum Medicine Cabinet MFR Metal MBR MAT Meter Microwave MAX Minimum Mirror Mounted Necessary MICRO Nominal Not in Contract MIR Not to Scale MTD On center NEC NOM Opening Opposite N.I.C. Paint, Painted N.T.S. 0.0. Partition OP'G Plaster Plastic Laminate Plate PT, PTD Plexiglas Plywood Quantity Relocated PART'N, PTN PLAS P. LAM Radius, Radiator Rectangular PLEXI Refriaerator PLY QTY Reflected Ceiling Plan Required Room RAD Schedule Section Shelf RECT REF Similar Solid Core RCP REQ'D Solid Surfacina RM Specification SCHED SECT Stainless steel Stone Steel Stain Storage Structural, Structure SPEC Surround Suspended Telephone Terrazzo Thick, Thickness STOR STRUCT To Be Determined SURR. Top and Bottom SUSP Unless Otherwise Noted TERR Underside Vinyl Composition Tile Vertical T.B.D. Veneer Verify In Field T&B U.O.N. Water Closet U/S VCT VERT Washer/Dryer Waterproof(ing) Meight Window Mood M/DMNDM

#### SAFETY NOTES

#### I. GENERAL:

- A) ALL DEMOLITION, REPAIRS & ALTERATIONS TO BE DONE IN ACCORDANCE WITH THE 2020 NY STATE BLDG CODE, UNIFORM FIRE PREVENTION CODE & ALL OTHER REGULATIONS & AGENCIES HAVING JURISDICTION.
- B) ANY DAMAGES TO WALL & FLOOR FINISHES IN ANY OF THE COMMON AREAS OF THE BLDG AFFECTED BY THE WORK SHALL BE REPAIRED BY CONTRACTOR.
- C) CONTRACTOR TO PROVIDE REQUIRED TEMPORARY BRACING & SHORING WHEREVER ANY STRUCTURAL WORK IS INVOLVED.

#### 2. MEANS OF EGRESS:

A) ALL EX'G MEANS OF EGRESS FROM THE BLDG TO BE MAINTAINED CLEAR & FREE OF ALL OBSTRUCTIONS SUCH AS BLDG MATERIALS, TOOLS, ETC.

A) ALL BLDG MATERIALS STORED AT THE CONSTR. AREA & OR ANY AREA OF THE BLDG ARE TO BE SECURED IN A LOCKED AREA IN AN ORDERLY FASHION. ACCESS TO SUCH AREAS TO BE CONTROLLED BY OWNER AND/OR CONTRACTOR.

B) ALL FLAMMABLE MATERIALS ARE TO BE KEPT TIGHTLY SEALED IN THEIR MFR'S INSTRUCTIONS, TO BE KEPT AWAY FROM HEAT & IN AN ADEQUATELY VENTILATED SPACE.

C) ALL ELECTRICAL POWER TO BE SHUT OFF WHERE CONDUIT IS EXPOSED.

D) AT ALL TIMES, CONTRACTOR TO MAKE SURE THERE IS NO LEAKAGE OF NATURAL GAS OR ANY FLAMMABLE GAS USED IN CONSTR. IN THE

#### 4. DUST CONTROL, WORK HOURS, PROTECTION AND NOISE:

A) CONTRACTOR SHALL MINIMIZE & CONFINE TO THE IMMEDIATE CONSTR. AREA DEBRIS, DIRT & DUST FROM PERMEATING OTHER PARTS OF THE BLDG DURING CONSTR. ALL MATERIALS & RUBBISH WILL BE PLACED IN BARRELS OR BAGS BEFORE BEING REMOVED FROM THE AREA OF WORK.

B) DEBRIS, DUST, DIRT AND RUBISH WILL BE CLEARED FROM THE BLDG DAILY TO AVOID ANY EXCESSIVE ACCUMULATION. C) IF LEAD PAINT OR ACM IS ENCOUNTERED, IT SHALL BE HANDLED \$ ABATED BY LICENSED CONTRACTOR IN ACCORDANCE WITH FEDERAL & NY STATE LAWS. REFER TO SPECIFICATIONS.

- 5. CONSTRUCTION THAT REQUIRES INTERRUPTION OF HEATING, WATER OR ELECTRICAL SERVICES IN THE BLDG, SHALL BE COORDINATED BETWEEN CONTRACTOR AND THE COLLEGE & SHALL NOT DELAY SCHEDULE.
- 6. CAMPUS REQUIRES A MIN OF 72 HOURS ADVANCED NOTICE FOR ANY REQUESTED SHUTDOWNS OR DISRUPTIONS TO CAMPUS UTILITIES.
- 7. STRUCTURAL SAFETY: NO STRUCTURAL WORK SHALL BE DONE THAT MAY ENDANGER THE OCCUPANTS.

#### FEMA FLOOD DATA & USGS GROUNDWATER DATA

- I. PER THE FEMA FLOOD INSURANCE RATE MAP. 2013 "PRELIMINARY," AS WELL AS THE 2007 MAP NUMBER 36119CO287F, EFFECTIVE ON 09/28/2007, THIS BUILDING LIES OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.
- 2. GROUND WATER IS NOT OF CONCERN IN THIS PROJECT, AS THE PROPOSED WORK IS CONFINED ENTIRELY TO SELECTED ROOF UPGRADE OF SELECTED BUILDINGS, ABOVE GRADE.
- 3. THE BLDG IS NOT LOCATED IN A SPECIAL FLOOD HAZARD

#### 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE

- I. STATEMENT OF COMPLIANCE: TO THE BEST OF MY KNOWLEDGE, BELIEF & PROFESSIONAL JUDGMENT, ALL WORK UNDER THIS APPLICATION IS IN COMPLIANCE WITH THE 2020 NYS ECCC AND ASHRAE 90.1 AS AMENDED BY NY STRETCH.
- 2. REFER TO MEP DRAWINGS FOR SPECIFIC ENERGY CODE COMPLIANCE PER TRADE.

#### CODE COMPLIANCE NOTES

#### I. ALL WOOD TO BE USED IN THE CONSTR. SHALL BE EXTERIOR GRADE

- TREATED WOOD. 2. FIRE-STOPPING SHALL BE AS REQ'D BY NYS BLDG CODE CHAPTER I SECTION 1705.17. AND INSTALLED PER A UL TESTED ASSEMBLY WITH SPECIAL INSPECTIONS PROVIDED BY THE OWNER'S AGENT.
- 3. ALL MATERIALS, ASSEMBLIES, FORMS & METHODS OF CONST & SERVICE EQUIP SHALL COMPLY W THE NY STATE BLDG CODE CHAPTER I
- SECTION 104: MATERIALS, EQUIPMENT & METHODS OF CONSTRUCTION. 4. ALL WORK MUST COMPLY W/ CHAPTER II OF THE 2020 NYS BUILDING CODE, ANSI AII7.1/2009 \$ ALL CODES ASSOCIATED WITH THE
- AMERICANS WITH DISABILITIES ACT (ADA). 5. SPECIAL & PROGRESS INSPECTIONS SHALL BE CARRIED OUT IN ACCORDANCE W/ CHAPTER IT OF THE NYS BUILDING CODE.

#### CODE REF. SPECIAL INSPECTION I. FIRE RESISTANT PENETRATIONS & JOINTS PROGRESS INSPECTION

- CODE REF. BC 1705.17 2. REINFORCED CONCRETE CODE REF. BC 1705.3 3. ENERGY CODE COMPLIANCE CODE REF. BC 109.3.5 4. FINAL CODE REF. IRCNY 101-10
- IN ADDITION TO ABOVE INSPECTIONS, REFER TO MEP DWGS AND SPECIFICATIONS FOR REQUIRED INSPECTIONS AND TESTING PER EACH
- 6. OWNER IS RESPONSIBLE FOR ARRANGING SPECIAL INSPECTIONS. OWNER SHALL RETAIN SPECIAL INSPECTION AGENCIES.
- 7. CONTRACTOR IS REQUIRED TO COORDINATE WITH SPECIAL INSPECTORS.

#### GENERAL NOTES

#### GENERAL NOTES:

- SCOPE OF WORK SHALL NOT BE LIMITED BY THE DRAWINGS BUT SHALL INCLUDE ANY & ALL WORK NECESSARY TO FACILITATE THE INTENT OF THE DOCUMENTS.
- ALL WORK CALLED FOR ON THESE DWGS AND SPECIFICATIONS SHALL BE IN COMPLIANCE WITH CODES, RULES & REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION. THIS INCLUDES BUT IS NOT LIMITED TO THE: 2020 BUILDING CODE OF NEW YORK STATE, 2020 EXISTING BUILDING CODE OF NYS 2020 PLUMBING, MECHANICAL, FUEL GAS AND FIRE CODE OF NYS, 2020 ENERGY CONSERVATION CODE OF NYS AS AMENDED BY THE 2020 NYS STRETCH CODE. OSHA GUIDELINES AND THE AMERICANS WITH DISABILITIES ACCESSIBILITY GUIDELINES (ADA)
- CONTRACTOR SHALL CHECK & VERIFY IN FIELD ALL DIMS. NOTES & CONDITIONS SHOWN ON DWGS BEFORE ANY CONSTRUCTION WORK IS STARTED & SHALL NOTIFY ARCHITECT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS BEFORE PROCEEDING. ALL WORK TO BE DONE IN ACCORDANCE WITH CODE, INCLUDING ALL OTHER REGULATIONS OF ALL OTHER AGENCIES HAVING JURISDICTION.
- CONTRACTOR MUST COMPLY WITH ALL RULES AND REGULATIONS OF AGENCIES HAVING JURISDICTION. THIS COMPLIANCE INCLUDES, BUT IS NOT LIMITED TO, ALL CITY, STATE, AND FEDERAL CONSTRUCTION, SAFETY, SANITARY LAWS, STATUTES, CODES & ORDINANCES & BUILDING STANDARD SPECIFICATIONS. GENERAL CONTRACTOR SHALL SECURE ALL REQ'D PERMITS & INSPECTIONS NECESSARY FOR PROPER EXECUTION, APPROVALS & COMPLETION OF WORK.
- 5 ALL DIMS ARE TO FINISH FACE UON.
- 6. DO NOT SCALE DWGS WRITTEN DIMS GOVERN. LARGE SCALE DWGS PLUMBING GOVERN SMALL SCALE.
- 7. ALL PLAN DIMS ARE TO THE NEAREST 1/4".
- 8. CONTRACTOR IS REQ'D TO COORDINATE ALL WORK & DELIVERIES WITH FACILITIES MANAGEMENT & CAMPUS SECURITY.
- 9. ALL CORRESPONDENCE & PROJECT COMMUNICATION TO BE THROUGH ARCHITECT.
- 10. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER & ACCEPTABLE CONSTRUCTION, INSTALLATION OR OPERATION OF ANY PART OF THE WORK AS DETERMINED BY THE ARCHITECT SHALL BE INCLUDED IN THE WORK THE SAME AS IF HEREIN SPECIFIED OR INDICATED.
- II. ALL ELECTRICAL WORK TO BE PERFORMED BY LICENSED CONTRACTORS.
- 12. 'PROVIDE' MEANS TO FURNISH & INSTALL. 'SUPPLIED BY OWNER' MEANS MAIN MATERIAL TO BE SUPPLIED BY OWNER AND CONTRACTOR IS TO INSTALL IT AS DIRECTED. 'NIC' MEANS NOT IN CONTRACT AND WILL BE FURNISHED & INSTALLED BY OTHERS.
- 13. NO CHANGE IN EGRESS, USE OR OCCUPANCY.
- 14. THE OVERLOADING OF ROOF, PLAZA OR PEDISTRIAN PATHS WITH BUILDING MATERIALS IS PROHIBITED.
- 15. CUTTING, TRENCHING, CHANNELING FLOOR OR CEILING, OR CORE DRILLING IS NOT PERMITTED. REVIEW WITH ARCHITECT WHERE NECESSARY.
- 16. CONTRACTOR MUST PROVIDE TWO (2) IOLB FIRE EXTINGUISHERS, AT EACH CONSTRUCTION SITE, DURING START OF DEMO & MUST BE KEPT IN PLAIN SIGHT & ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION.
- 17. CLEANING:
- MAINTAIN PREMISES & PUBLIC PROPERTIES FREE FROM ACCUMULATIONS OF WASTE CAUSED BY OPERATIONS WASTE SHALL BE REMOVED FROM JOB SITE DAILY. ALL WASTE TO BE STORED IN METAL, CLOSED CONTAINERS.
- AT COMPLETION OF WORK, REMOVE TEMPORARY FACILITIES, WASTE MATERIALS. ALL TOOLS, EQUIPMENT, MACHINERY & SURPLUS MATERIALS, & CLEAN ALL SIGHT EXPOSED SURFACES.
- 18. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK & VERIFY ALL DIMS AND EX'G CONDITIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH WORK. ANY WORK STARTED BEFORE CONSULTATION AND ACCEPTANCE BY THE ARCHITECT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT TO CORRECTIONS BY HIM WITHOUT ADDITIONAL COMPENSATION.
- 19. DAMAGE CAUSED BY EXECUTION OF THIS CONTRACT, TO EXISTING STRUCTURE, PIPES, DUCTS, WINDOWS, WALLS, ROOFING ETC. SHALL BE REPAIRED TO ORIGINAL CONDITION OR REPLACED BY THE CONTRACTOR AT NO EXTRA CHARGE TO THE OWNER.
- 20. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND COMPLETION OF THE WORK WITH APPROVED
- 21. BY SUBMITTING A BID TO PERFORM WORK, THE CONTRACTOR AGREES THAT HE IS SKILLED & EXPERIENCED IN THE USE & INTERPRETATION OF PLANS & SPECS, HE HAS CAREFULLY REVIEWED THE PLANS AND SPECS FOR THIS & HAS FOUND THEM TO BE FREE OF AMBIGUITIES AND SUFFICIENT FOR BID PURPOSES.
- 22. ALL CONTRACTORS & SUB-CONTRACTORS SHALL WEAR VISIBLE EASILY IDENTIFIABLE ID BADGES.
- 23. LOUD, NOISY, DISRUPTIVE WORK (DRILLS, SAMS, POWER TOOLS, ETC.) SHALL BE COORDINATED WITH OWNER TO MINIMALLY DISTURB FUNCTIONING IN THE REST OF THE BLDG.
- 24. ALL ADJOINING BUILDINGS OR ARCADES PEDESTRIAN PATHS AFFECTED BY ANY OPERATIONS SHALL BE PROTECTED PER REQUIREMENTS OF CHAPTER 33 OF THE NY STATE BUILDING CODE.
- 25. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF CONDITIONS & MATERIALS WITHIN & ADJACENT TO THE PROPOSED CONST. AREA. THE CONTRACTOR SHALL DESIGN & INSTALL ADEQUATE SHORING & BRACING FOR ALL CONSTR. OR REMOVAL TASKS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF
- 26. CONTRACTOR IS RESPONSIBLE FOR PRE-TESTING AND BALANCING REPORTS. COORDINATE WITH SUNY.
- 27. CONTRACTOR SHALL PROVIDE FIRESTOPPING TO ALL NEW PENETRATIONS THROUGH FLOOR SLAB AND RATED WALLS. CONTRACTOR SHALL FIRESTOP IS EXISTING PENETRATIONS.

#### DRAWING LIST

TITLE, COLLEGE PLAN & LOCATION MAP G-001 NOTES, ABBREVIATIONS, LEGEND & DRAWING LIST G-002 PROTECTION AND SITE STAGING PLAN INTERIOR PROTECTION PLAN AT SKYLIGHT *6-00*3 DM-101 ROOF DEMOLITION PLAN - EAST (PARTIAL) ROOF DEMOLITION PLAN - WEST (PARTIAL) DM-102 A-101 ROOF CONSTRUCTION PLAN - EAST (PARTIAL, ROOF CONSTRUCTION PLAN - WEST (PARTIAL) EXTERIOR ELEVATION - SOUTH EXTERIOR ELEVATION - NORTH EXTERIOR ELEVATIONS - EAST & WEST EXTERIOR SECTIONAL ELEVATIONS - EAST & WEST A-205 EXTERIOR SECTIONAL ELEVATIONS - NORTH & SOUTH

A-301 SKYLIGHT SECTIONS A-501 ROOF DETAILS ROOF DETAILS A-502

A-503 ROOF DETAILS TAPPERD INSULATION PLAN - ROOF DETAILS

#### STRUCTURAL

S-400.00 STRUCTURAL NOTES & DETAILS

#### <u>MECHANICAL</u>

M-001.00 GENERAL NOTES, SYMBOLS & ABBREVIATIONS MD-101.00 ROOF DEMOLITION PLAN - EAST - MECHANICAL MD-102.00 ROOF DEMOLITION PLAN - WEST - MECHANICAL MD-103.00 FIRST FLOOR DEMOLITION PLAN - WEST - MECHANICAL M-IOI.00 ROOF PLAN - EAST - MECHANICAL M-102.00 ROOF PLAN - WEST - MECHANICAL M-103.00 FIRST FLOOR PLAN - WEST - MECHANICAL M-601.00 MECHANICAL SCHEDULES

P-001.00 GENERAL NOTES, SYMBOLS & ABBREVIATIONS PD-101.00 ROOF DEMOLITION PLAN - EAST - PLUMBING PD-102.00 ROOF DEMOLITION PLAN - WEST - PLUMBING P-101.00 ROOF PLAN - EAST - PLUMBING P-102.00 ROOF PLAN - WEST - PLUMBING P-701.00 PLUMBING SCHEDULES AND DETAILS

E-001.00 GENERAL NOTES, SYMBOLS & ABBREVIATIONS ED-101.00 FIRST FLOOR DEMOLITION PLAN - WEST - ELECTRICAL ED-102.00 ROOF DEMOLITION PLAN - WEST - ELECTRICAL E-201.00 FIRST FLOOR POWER PLAN - WEST - ELECTRICAL E-202.00 ROOF POWER PLAN - WEST - ELECTRICAL E-501.00 ELECTRICAL RISER DIAGRAM AND SCHEDULES E-601.00 PANEL SCHEDULES

#### DRAWING SYMBOLS

—Drawing No. TITLE DRAWING TITLE

— Drawing No. INTERIOR ELEVATION — Sheet No. ROOM NAME AND

NUMBER (AS NEEDED) AREA OF SPACE

DETAIL KEY DOOR NUMBER MINDOW NUMBER PARTITION TYPE **≫**— ACCESSORY NUMBER

REVISION NUMBER

FIRE EXTINGUISHER DIMENSION CONTROL ELEVATION

MAIN ENTRY ALTERNATE ENTRY

GFI X

NORTH ARROW ELECTRICAL PANEL GFI OUTLET AT 15"

DENOTES EX'G DEVICE TO REMAIN DENOTES NEW DEVICE IN NEW LOCATION DENOTES RELOCATION OF EXIG DEVICE

DENOTES NEW DEVICE IN EXG' LOCATION HEIGHT OF DEVICE

GFI OUTLET AT SPECIFIED H.

---- OVERHEAD

BUILDING LEGEND DENOTES EXG TO REMAIN \_\_\_\_ DENOTES EXTENT OF DEMOLITION WALL CONSTRUCTION — — — — HIDDEN

#### ROOF ENERGY CODE TABULAR ANALYSIS

ENERGY CODE TABULAR ANALYSIS				
CLIMATE ZONE: 4				
CITATION	ITEM DESCRIPTION	PROPOSED DESIGN VALUE	ASHRAE 90.1 PRESCRIPTIVE VALUE	SUPPORTING DOCUMENTATION
ASHRAE 90.1 AMENDED BY 2020 NY STRENCH CODE	ROOF INSULATION (LOW ROOFS)	R30 MINIMUM CONTINUOUS RIGID INSULATION	R30 CONTINUOUS INSULATION PER NYSTRETCH CODE 2020 TABLE 5.5 - 4	DETAIL 1 - A-501
ASHRAE 90.1 AMENDED BY 2020 NY STRENCH CODE	FENESTRATION / SKYLIGHT	U = 0.48 SHGC = 0.38 AIR LEAKAGE: 0.60	MAXIMUM U-FACTOR: 0.50 & SHGC: 0.40 PER NYSTRETCH ENERGY CODE 2020 TABLE C402.4	DESIGN REQUIREMENTS ARE SHOWN ON A-301 AND IN SPECIFICATIONS
			MAXIMUM AIR LEAKAGE: 0.2 PER NYSTRETCH CODE 2020 TABLE	



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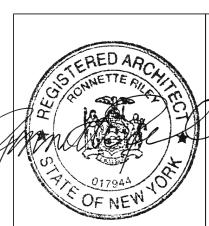
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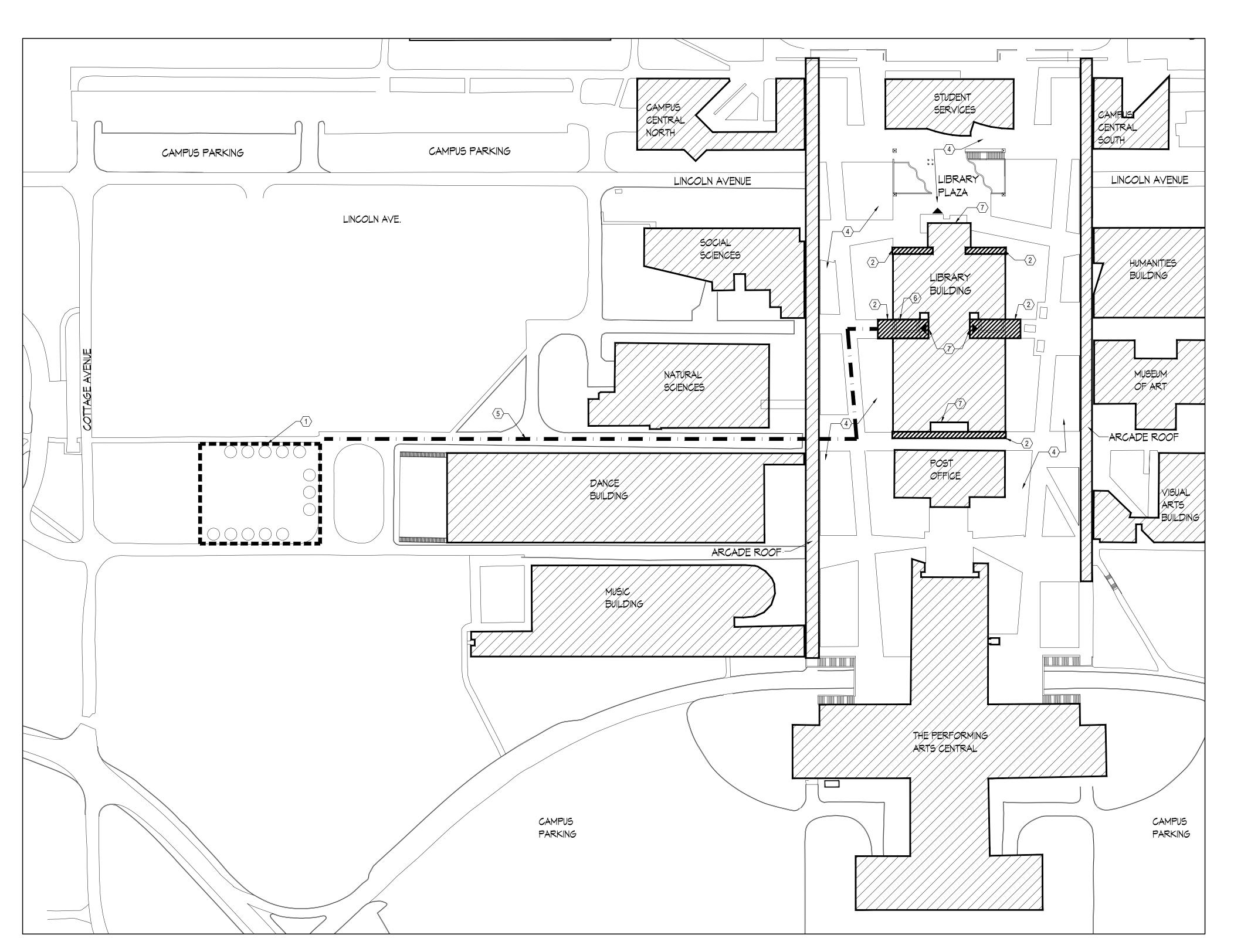
No. Date Revision 28 July 2023 Issue for 50% DD 13 Nov. 2023 Issue for Pre-Bid 23 Feb. 2024 Re-Issue for Pre-Bid 07 May 2024 Issued for Bid

> NOTES, ABBREVIATIONS, **LEGEND & DRAWING LIST**



00-00-2023 RRA Project No. 4256 AS NOTED

G-001.00



#### KEY NOTES:

- CONTRACTOR GENERAL STAGING AREA. GC TO PROVIDE CHAIN LINK FENCING & SECURITY. PROTECT ALL TREES. CONTRACTOR TO PREVENT EROSION OF SOIL & CONTROL SOIL FROM LEAVING THE THE STAGING AREA. PROVIDE GRAVEL AT GATE AND PROVIDE FOR WEEKLY CLEANING OF ROAD AT ENTRANCE.
- PROVIDE SIDEWALK OVERHEAD PROTECTION AT ALL BUILDING EXITS AND ENTRANCES AND PUBLIC PLAZAS ADJACENT TO WORK, MINIMUM IO' DEEP FROM EXTERIOR WALL COVERED WALKWAYS SHALL HAVE A CLEAR HEIGHT OF NOT LESS THAN 8 FEET AS MEASURED FROM THE FLOOR SURFACE TO THE CANOPY OVERHEAD. ADEQUATE LIGHTING SHALL BE PROVIDED AT ALL TIMES. COVERED WALKWAYS SHALL BE DESIGNED TO SUPPORT ALL IMPOSED LOADS. THE EGRESS PATH MAY NOT BE OBSTRUCTED OR CONSTRICTED IN ANY WAY.
- (3) CONTRACTOR TO PROVIDES EXTERIOR STAIR ACCESS TO ROOF FOR ALL DELIVERIES & MORKER USE. ACCESS THROUGH LIBRARY WILL NOT BE AVAILABLE.
- MAX LOADING AT LIBRARY PLAZA IS 150 Ib/SQ. SUBMIT TO OWNER ANY REQUESTS TO BRING EQUIPMENT ONTO PLAZA. ALL EQUIPMENT ARE REQUIRED TO HAVE RUBBER TIRES TO LIMIT DAMAGE TO PAVERS.
- $\overline{\langle 5 \rangle}$  ACCESS ROUTE FROM GENERAL STAGING AREA TO SITE.
- 6 CONTRACTOR SUB-STAGING AREA ADJACENT TO WORK AREA.
  PROVIDE CHAIN LINK FENCING & PLYWOOD PROTECTION FOR FLOOR
  PAVERS, ENSURE TO LEAVE BUILDING FIRE EGRESS ROUTE CLEAR.
- 7 ALL LOCATIONS OF EGRESS MUST REMAIN OPERATIONAL THROUGH OUT CONSTRUCTION.



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Structural Engineer

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TEMPORARY SHED PROTECTION

EXISTING BUILDING

EXIT FROM LIBRARY BUILDING



Date 00-00-20
RRA Project No. 4256
Drawing By MM, SG

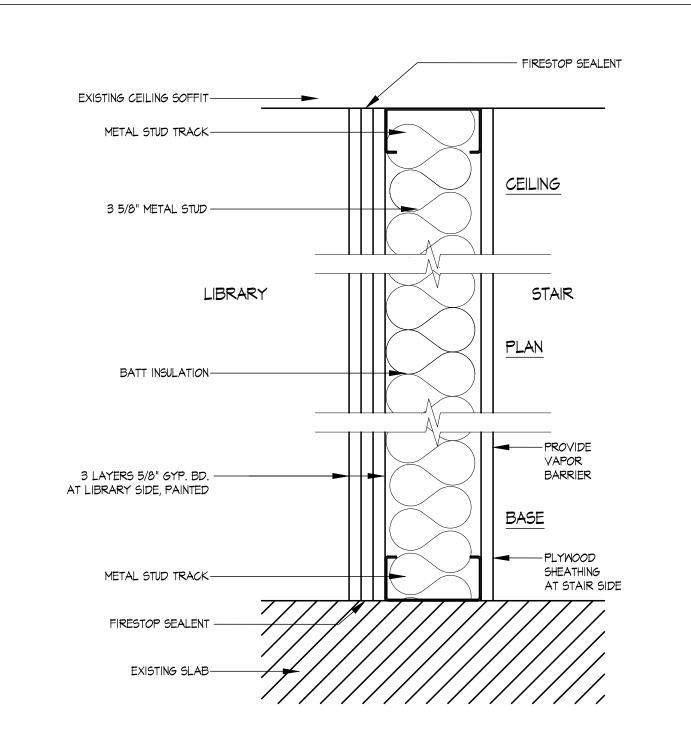
PROTECTION AND SITE

STAGING PLAN

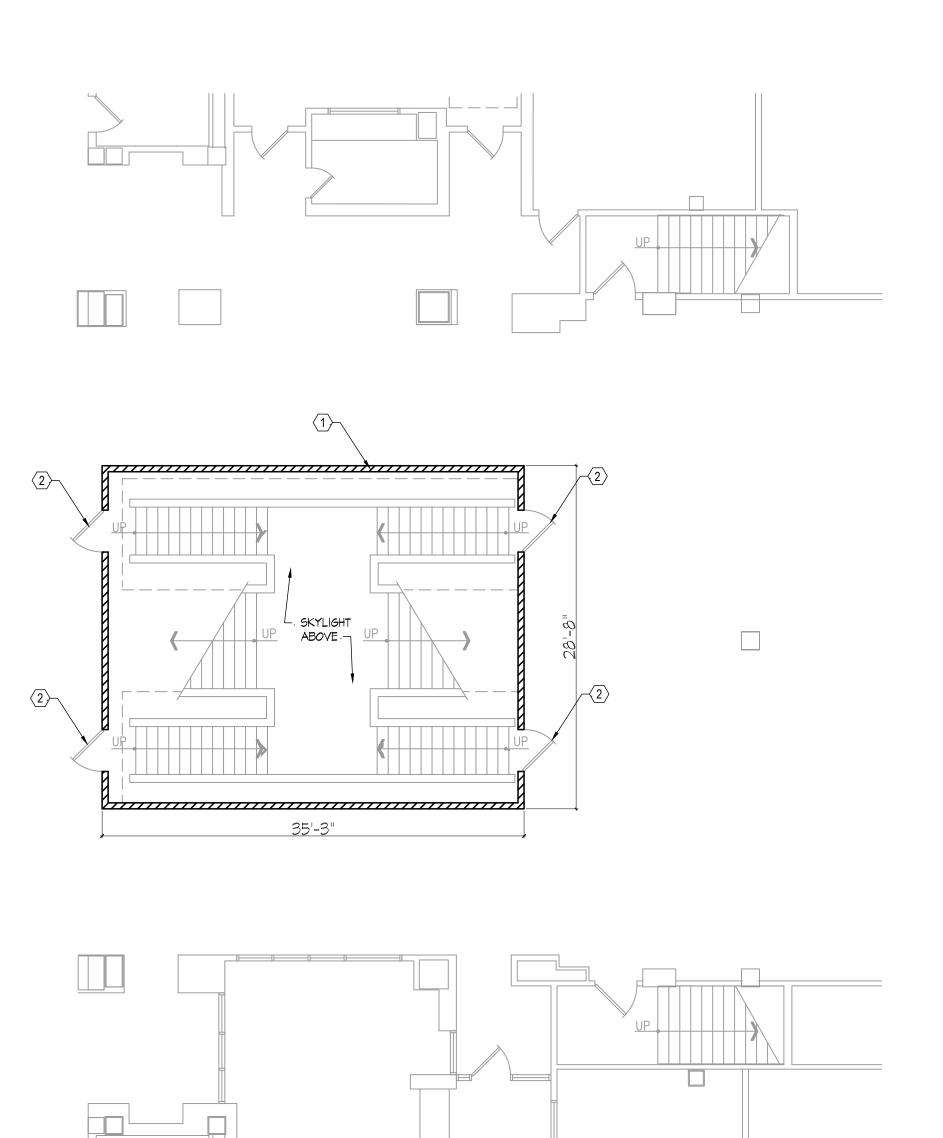
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AS NOTED



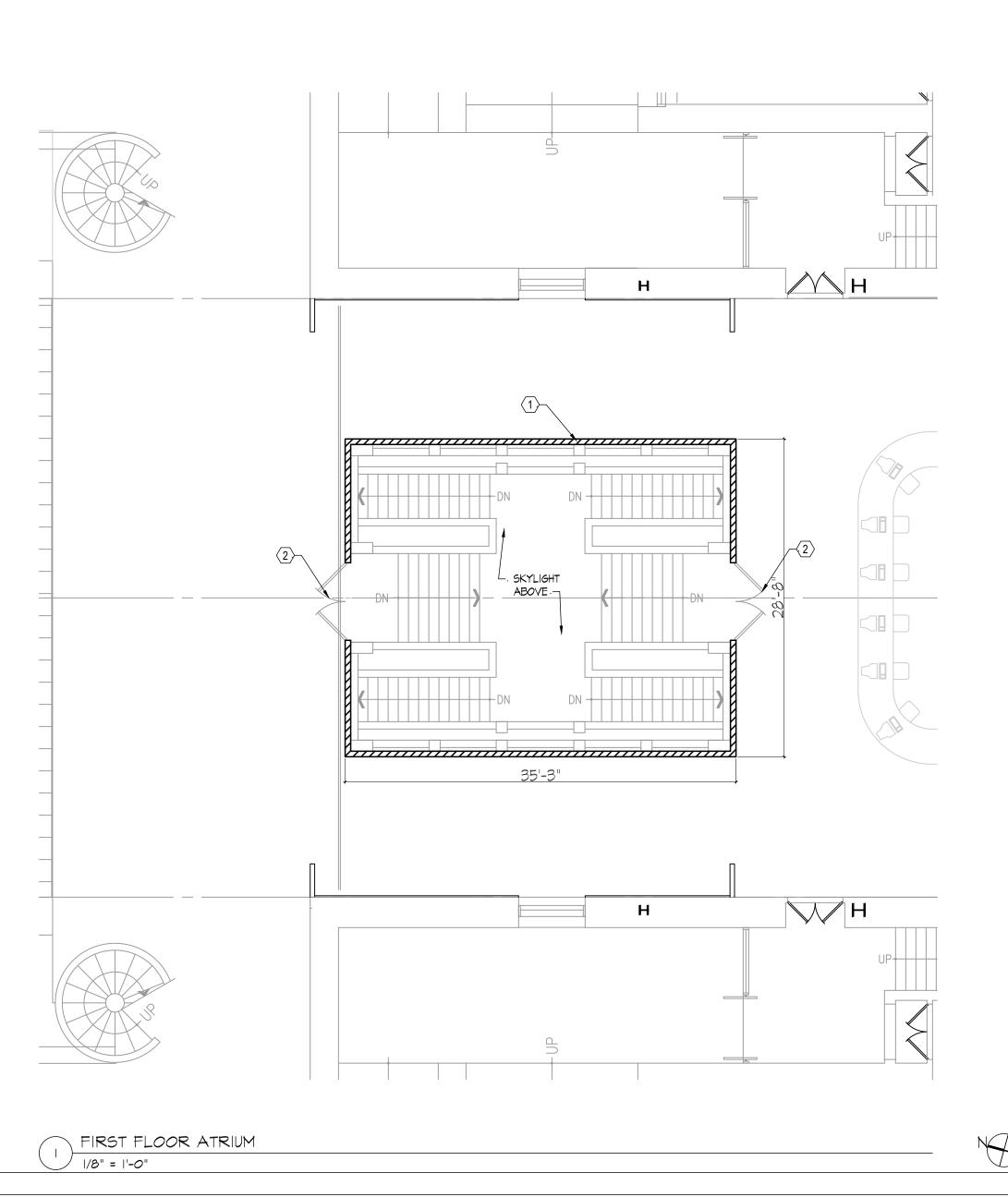


TEMPORARY PARTITION PLAN



BASEMENT FLOOR ATRIUM

| 1/8" = 1'-0"



#### KEY NOTES:

- PROVIDE PAINTED & TEMPORARY PARTITION WITH INSULATION.
  BRACE TEMPORARY WALL PANELS TO EACH OTHER TO PREVENT DAMAGE TO EXISTING FINISHES.
- $\overline{2}$  PROVIDE LOCKABLE ACCESS DOORS AT STAIR ENTRY POINTS.

LEGEND:

TEMPORARY PARTITION

#### GENERAL NOTES:

- 1 PROTECT ALL EXISTING CONDITIONS TO REMAIN.
- 2 ENSURE TEMPORARY PARTITIONS ARE SEALED TO PREVENT DUST FROM ENTERING THE LIBRARY.



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STATE UNIVERSITY COLLEGE AT PURCHASE

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MEP Engineer

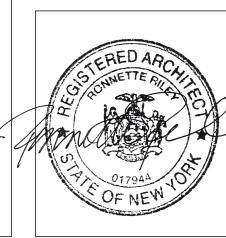
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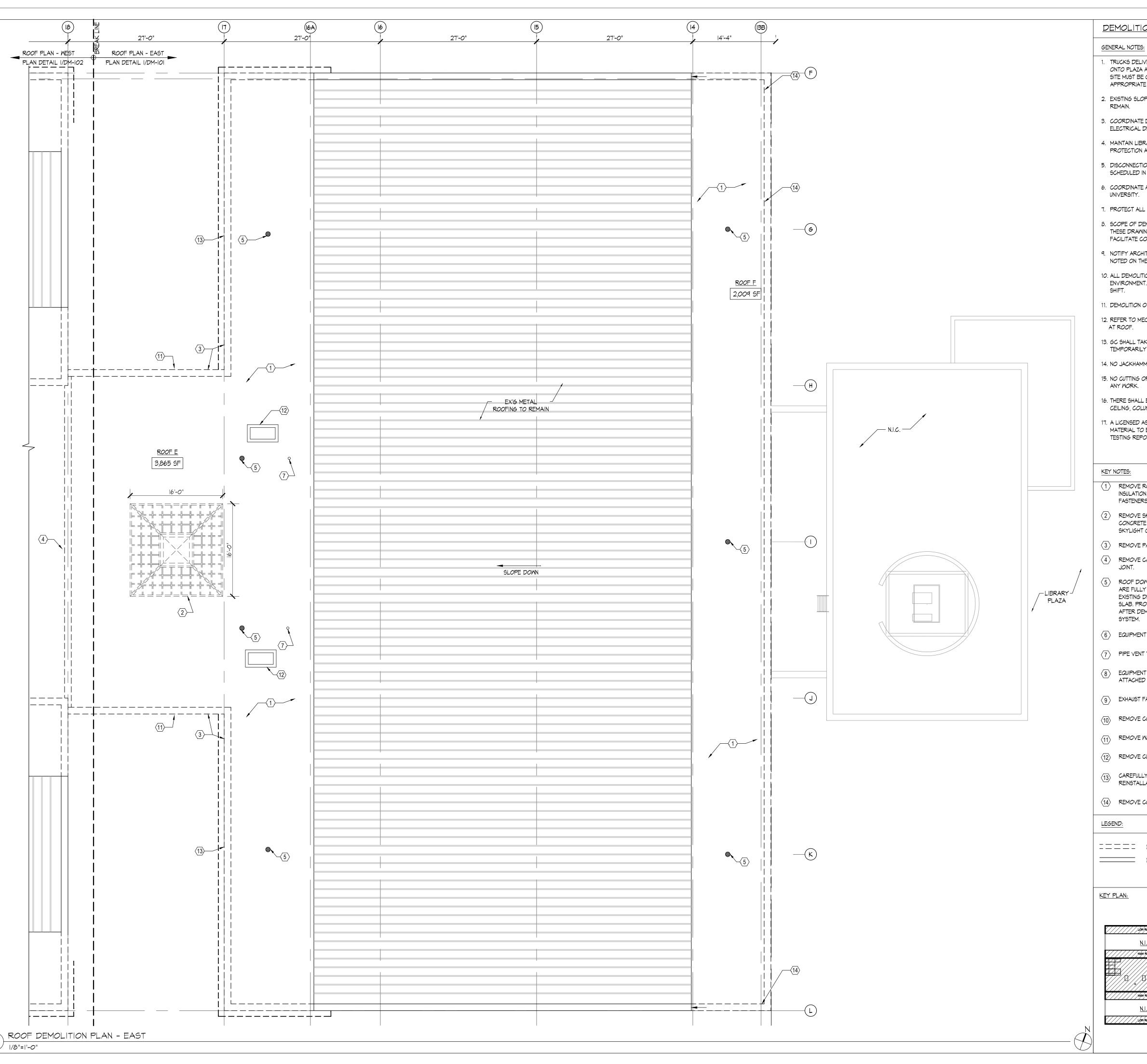
# INTERIOR PROTECTION PLAN AT SKYLIGHT



RRA Project No. 4256

Crawing By
CHK By
EP
AS NOTED

G-003.00

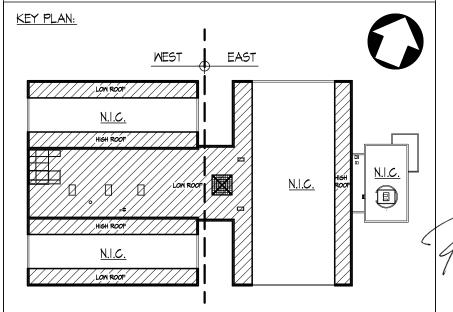




- TRUCKS DELIVERING MATERIALS OR REMOVING DEBRIS MAY NOT DRIVE ONTO PLAZA ADJACENT TO THE BUILDING. ALL TRUCKS ARRIVING TO THE SITE MUST BE COORDINATED WITH THE UNIVERSITY TO IDENTIFY AN APPROPRIATE LOADING/UNLOADING LOCATION.
- 2. EXISTING SLOPED METAL ROOFS AND ADJACENT METAL COPING WILL
- 3. COORDINATE DEMOLITION WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
- 4. MAINTAIN LIBRARY OPERATIONS THROUGHOUT CONSTRUCTION. PROVIDE PROTECTION AND MAINTAIN EGRESS PROVISIONS WITH OWNER.
- 5. DISCONNECTION OF EXISTING EQUIPMENT SHALL BE COORDINATED AND SCHEDULED IN ADVANCE WITH THE UNIVERSITY. REFER TO MECH. DWGS.
- 6. COORDINATE ALL MECHANICAL SHUTDOWNS IN ADVANCE WITH THE
- 7. PROTECT ALL EXISTING CONDITIONS TO REMAIN.
- 8. SCOPE OF DEMOLITION AND REMOVAL WORK SHALL NOT BE LIMITED BY THESE DRAWINGS, BUT SHALL INCLUDE ALL WORK NECESSARY TO FACILITATE CONSTRUCTION.
- 9. NOTIFY ARCHITECT IF FIXTURES OR DEVICES EXIST WHICH ARE NOT NOTED ON THE PLANS.
- 10. ALL DEMOLITION TO BE DONE WITH MINIMAL IMPACT ON WORK ENVIRONMENT. AREAS TO BE LEFT CLEAN AND SAFE AT END OF EACH
- 11. DEMOLITION OF LOAD-BEARING WALLS ARE PROHIBITED.
- 12. REFER TO MECH. DWGS. FOR PROTECTION OF VIEWS & MECH. EQUIP.
- 13. GC SHALL TAKE ALL NECESSARY STEPS IN SHORING THE WORK TEMPORARILY UNTIL ALL PERMANENT WORK IS IN PLACE.
- 14. NO JACKHAMMERS TO BE USED ON THIS PROJECT.
- 15. NO CUTTING OR CHANNELING OF BUILDING STRUCTURE IS PERMITTED FOR
- 16. THERE SHALL BE NO CHOPPING INTO THE CONCRETE FLOOR SLAB, CEILING, COLUMNS, OR SHEAR WALLS FOR ANY REASON.
- 17. A LICENSED ASBESTOS INSPECTOR PERFORMED TESTS ON THE MATERIAL TO BE DEMOLISHED PRIOR TO CONSTRUCTION REPORTED TESTING REPORTS PROVIDED IN SPEC. BOOK.
- (1) REMOVE ROOFING ASSEMBLY, ASSOCIATED COMPONENTS INCLUDING INSULATION, NAILING BOARDS, TRIMS, FLASHINGS AND ALL FASTENERS DOWN TO CONCRETE DECK.
- $\overline{\langle 2 \rangle}$  REMOVE SKYLIGHT, FRAME AND ASSOCIATED FLASHING DOWN TO CONCRETE DECK. PROVIDE PROTECTION FOR INTERIOR SPACES AT SKYLIGHT OPENING THROUGHOUT CONSTRUCTION.
- (3) REMOVE PARAPET COPING AND REFER DETAIL 6/A501 & 25/A503.
- $\langle 4 \rangle$  REMOVE CAP, FLASHING AND COMPRESSIBLE FILL AT EXPANSION JOINT.
- $\overline{\langle 5 \rangle}$  ROOF DOWNSPOUTS AND DRAIN BOWLS TO REMAIN. ENSURE DRAINS ARE FULLY WATERPROOFED WHEN VAPOR BARRIER IS INSTALLED. EXISTING DRAIN BOWLS MAY BE RAISED ABOVE THE HEIGHT OF THE SLAB. PROVIDE FOR PUMPING OF ROOF AS NEEDED AFTER RAINFALL AFTER DEMOLITION AND BEFORE INSTALLATION OF FINAL ROOFING
- 6 EQUIPMENT CURB/VENTS TO REMAIN.
- $\overline{7}$  PIPE VENT TO REMAIN.
- 8 EQUIPMENT DUNNAGE TO REMAIN. REMOVE METAL SCREEN WALL ATTACHED TO DUNNAGE AND STORE FOR REINSTALLATION.
- $\left\langle 9\right\rangle$  EXHAUST FAN TO BE TEMPORARILY REMOVED AND REINSTALLED.
- $\langle \overline{10} \rangle$  REMOVE CONDENSING UNIT (MR. SLIM).
- (11) REMOVE WALL MOUNTED METAL FRAME ACCENT DETAIL.
- $\langle \overline{12} \rangle$  REMOVE CURB AT VENT, REFER TO MECH. DWGS.
- $\overleftarrow{\text{(13)}}$  Carefully remove climbing barrier and store for reinstallation.
- $\langle 14 \rangle$  REMOVE COPING AT HIGH ROOFS. MASONRY PARAPET TO REMAIN.

\_ \_ \_ \_ DENOTES EX'G TO REMOVE

DENOTES EX'G TO REMAIN





## REPLACE LIBRARY ROOF

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SUCF PROJECT #291071

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T 646 869 6850

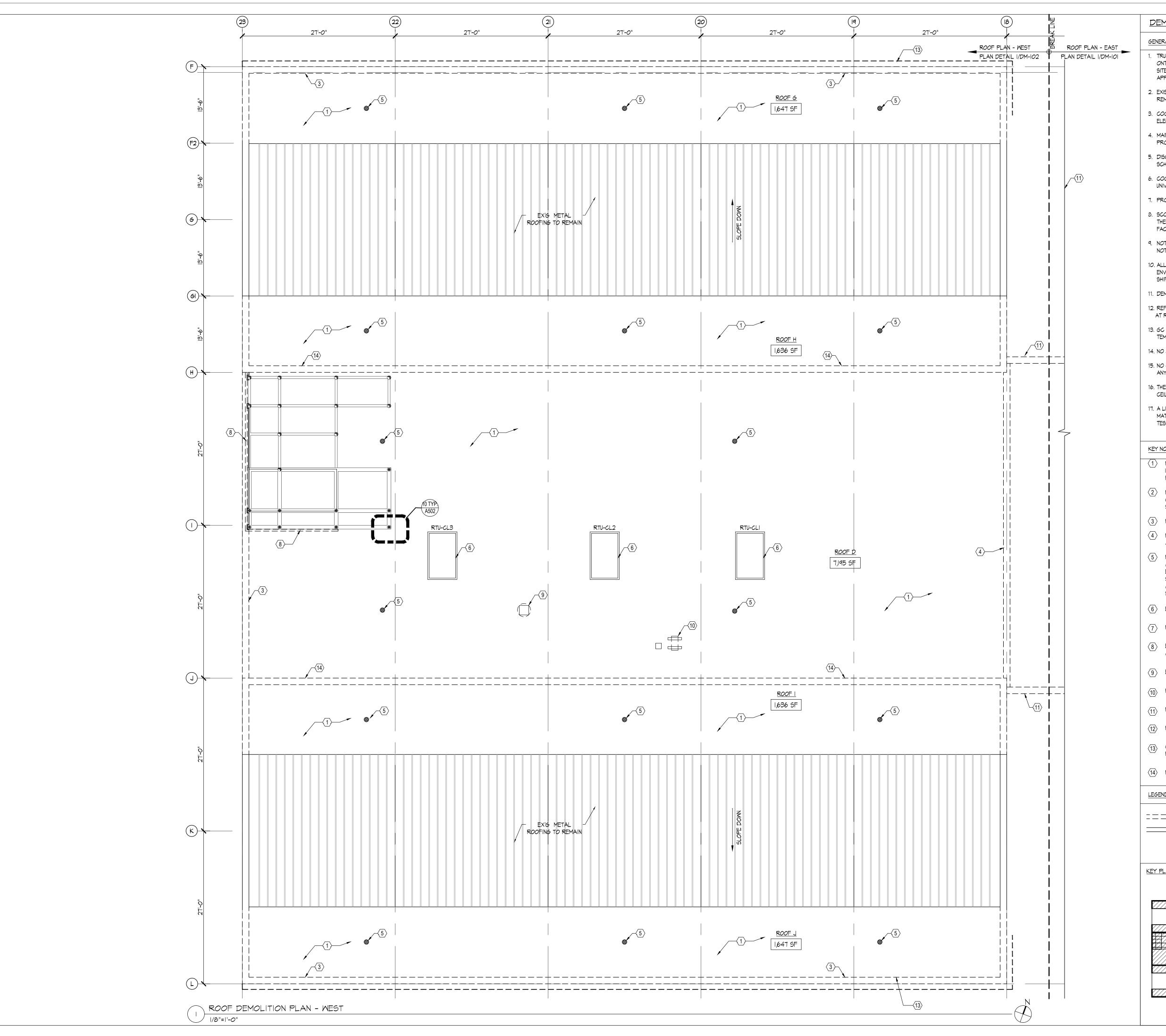
Ysrael A. Seinuk, PC 228 East 45th Street, 2nd Floor New York, NY 10017

# No. Date Revision 28 July 2023 Issue for 50% DD 13 Nov. 2023 Issue for Pre-Bid 23 Feb. 2024 Re-Issue for Pre-Bid 07 May 2024 Issued for Bid

# ROOF DEMOLITION PLAN - EAST



AS NOTED



#### DEMOLITION PLAN NOTES

#### GENERAL NOTES:

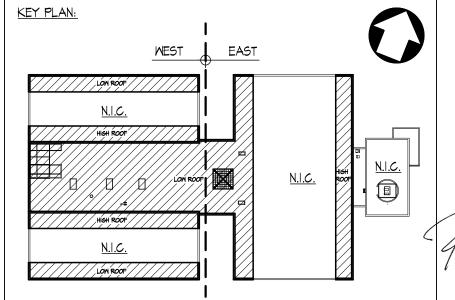
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- 2. EXISTING SLOPED METAL ROOFS AND ADJACENT METAL COPING WILL
- 3. COORDINATE DEMOLITION WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
- 4. MAINTAIN LIBRARY OPERATIONS THROUGHOUT CONSTRUCTION. PROVIDE PROTECTION AND MAINTAIN EGRESS PROVISIONS WITH OWNER.
- 5. DISCONNECTION OF EXISTING EQUIPMENT SHALL BE COORDINATED AND SCHEDULED IN ADVANCE WITH THE UNIVERSITY. REFER TO MECH. DWGS.
- 6. COORDINATE ALL MECHANICAL SHUTDOWNS IN ADVANCE WITH THE
- 7. PROTECT ALL EXISTING CONDITIONS TO REMAIN.
- 8. SCOPE OF DEMOLITION AND REMOVAL WORK SHALL NOT BE LIMITED BY THESE DRAWINGS, BUT SHALL INCLUDE ALL WORK NECESSARY TO FACILITATE CONSTRUCTION.
- 9. NOTIFY ARCHITECT IF FIXTURES OR DEVICES EXIST WHICH ARE NOT NOTED ON THE PLANS.
- 10. ALL DEMOLITION TO BE DONE WITH MINIMAL IMPACT ON WORK ENVIRONMENT. AREAS TO BE LEFT CLEAN AND SAFE AT END OF EACH
- 11. DEMOLITION OF LOAD-BEARING WALLS ARE PROHIBITED.
- 12. REFER TO MECH. DWGS. FOR PROTECTION OF VIEWS & MECH. EQUIP. AT ROOF.
- 13. GC SHALL TAKE ALL NECESSARY STEPS IN SHORING THE WORK TEMPORARILY UNTIL ALL PERMANENT WORK IS IN PLACE.
- 14. NO JACKHAMMERS TO BE USED ON THIS PROJECT.
- 15. NO CUTTING OR CHANNELING OF BUILDING STRUCTURE IS PERMITTED FOR ANY MORK.
- 16. THERE SHALL BE NO CHOPPING INTO THE CONCRETE FLOOR SLAB, CEILING, COLUMNS, OR SHEAR WALLS FOR ANY REASON.
- 17. A LICENSED ASBESTOS INSPECTOR PERFORMED TESTS ON THE MATERIAL TO BE DEMOLISHED PRIOR TO CONSTRUCTION REPORTED TESTING REPORTS PROVIDED IN SPEC. BOOK.

#### KEY NOTES:

- $\langle 1 \rangle$  REMOVE ROOFING ASSEMBLY, ASSOCIATED COMPONENTS INCLUDING INSULATION, NAILING BOARDS, TRIMS, FLASHINGS AND ALL FASTENERS DOWN TO CONCRETE DECK.
- $\langle 2 \rangle$  REMOVE SKYLIGHT, FRAME AND ASSOCIATED FLASHING DOWN TO CONCRETE DECK. PROVIDE PROTECTION FOR INTERIOR SPACES AT SKYLIGHT OPENING THROUGHOUT CONSTRUCTION.
- REMOVE PARAPET COPING AND REFER DETAIL 6/A501 & 25/A503.
- $\overline{\langle 4 \rangle}$  REMOVE CAP, FLASHING AND COMPRESSIBLE FILL AT EXPANSION
- $\langle 5 \rangle$  ROOF DOWNSPOUTS AND DRAIN BOWLS TO REMAIN. ENSURE DRAINS ARE FULLY MATERPROOFED WHEN VAPOR BARRIER IS INSTALLED. EXISTING DRAIN BOWLS MAY BE RAISED ABOVE THE HEIGHT OF THE SLAB. PROVIDE FOR PUMPING OF ROOF AS NEEDED AFTER RAINFALL AFTER DEMOLITION AND BEFORE INSTALLATION OF FINAL ROOFING
- 6 EQUIPMENT CURB/VENTS TO REMAIN.
- $\overline{7}$  PIPE VENT TO REMAIN.
- 8 EQUIPMENT DUNNAGE TO REMAIN. REMOVE METAL SCREEN WALL ATTACHED TO DUNNAGE AND STORE FOR REINSTALLATION.
- $\overline{9}$  EXHAUST FAN TO BE TEMPORARILY REMOVED AND REINSTALLED.
- (10) REMOVE CONDENSING UNIT (MR. SLIM).
- REMOVE WALL MOUNTED METAL FRAME ACCENT DETAIL.
- $\langle 12 \rangle$  REMOVE CURB AT VENT, REFER TO MECH. DWGS.
- CAREFULLY REMOVE CLIMBING BARRIER AND STORE FOR REINSTALLATION.
- (14) REMOVE COPING AT HIGH ROOFS. MASONRY PARAPET TO REMAIN.

\_ \_ \_ \_ DENOTES EX'G TO REMOVE

DENOTES EX'G TO REMAIN





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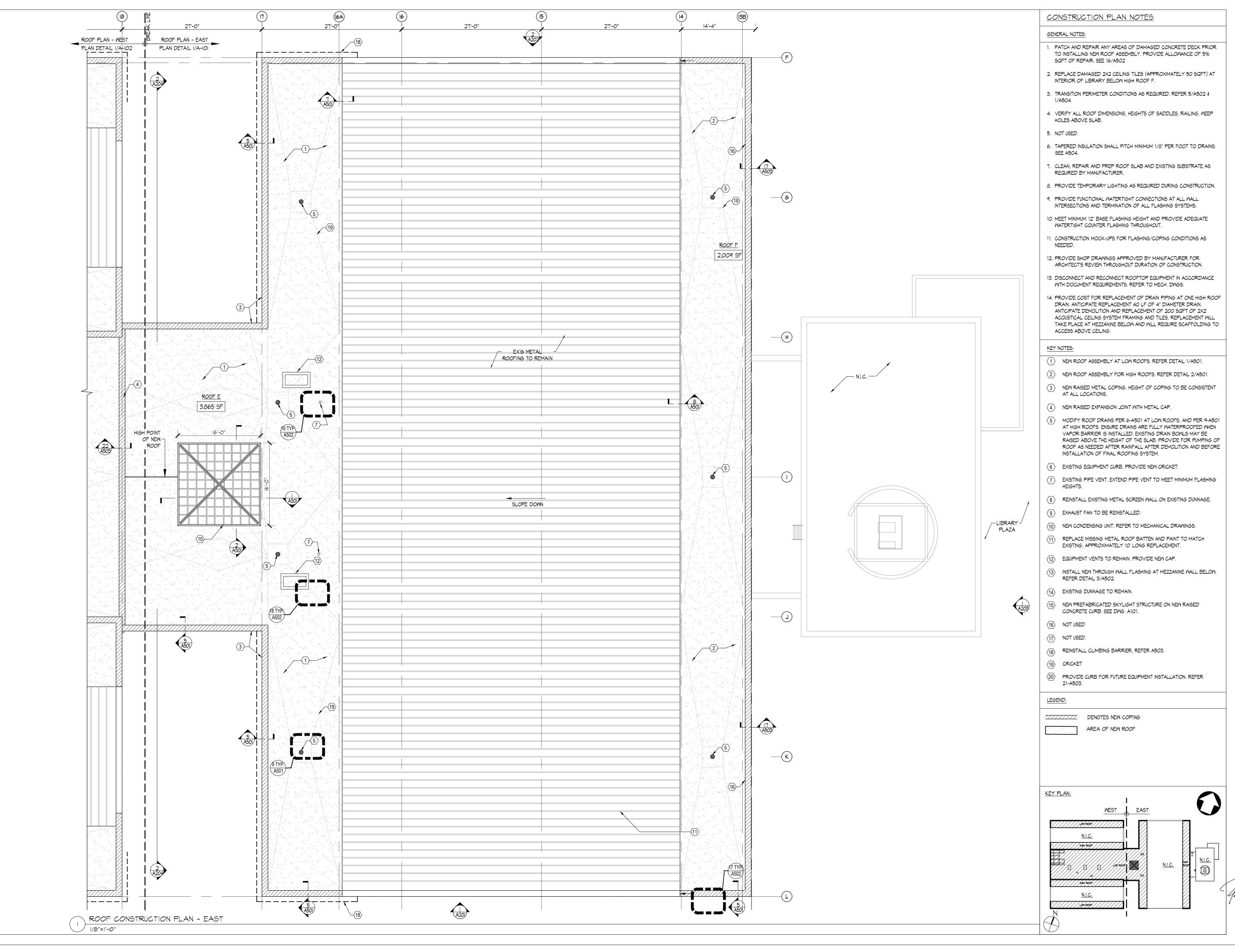
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# ROOF DEMOLITION PLAN - WEST







# State University Construction Fund

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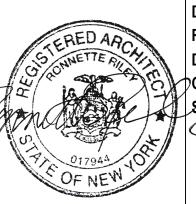
535 Eighth Avenue, Suite 21S New York, NY 10018 T 646 253 9000 F 646 224 8497 Structural Engineer

Ysrael A. Seinuk, PC

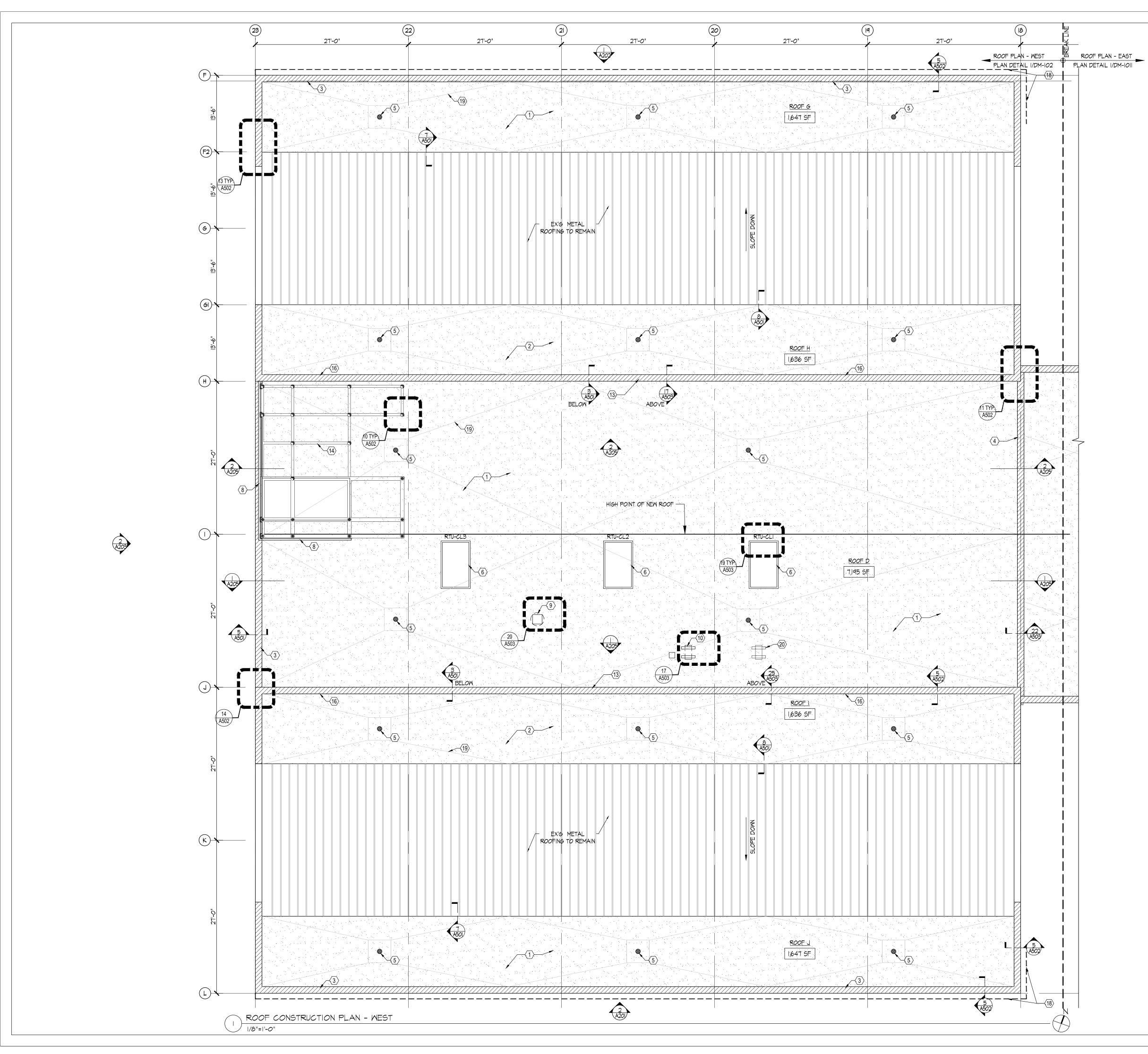
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# ROOF CONSTRUCTION PLAN - EAST



AS NOTED



#### CONSTRUCTION PLAN NOTES

#### GENERAL NOTES:

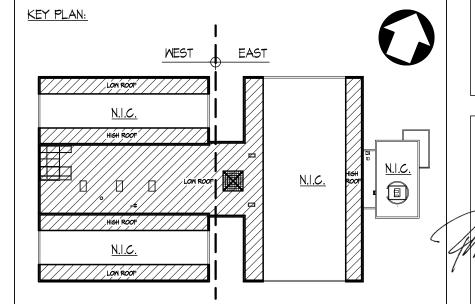
- PATCH AND REPAIR ANY AREAS OF DAMAGED CONCRETE DECK PRIOR TO INSTALLING NEW ROOF ASSEMBLY. PROVIDE ALLOWANCE OF 5% SQFT OF REPAIR. SEE 16/A502
- 2. REPLACE DAMAGED 2X2 CEILING TILES (APPROXIMATELY 50 SQFT) AT INTERIOR OF LIBRARY BELOW HIGH ROOF F.
- 3. TRANSITION PERIMETER CONDITIONS AS REQUIRED. REFER 5/A502 &
- 4. VERIFY ALL ROOF DIMENSIONS, HEIGHTS OF SADDLES, RAILING, WEEP HOLES ABOVE SLAB.
- 5. NOT USED.
- 6. TAPERED INSULATION SHALL PITCH MINIMUM 1/8" PER FOOT TO DRAINS.
- 7. CLEAN, REPAIR AND PREP ROOF SLAB AND EXISTING SUBSTRATE AS REQUIRED BY MANUFACTURER.
- 8. PROVIDE TEMPORARY LIGHTING AS REQUIRED DURING CONSTRUCTION.
- 9. PROVIDE FUNCTIONAL WATERTIGHT CONNECTIONS AT ALL WALL INTERSECTIONS AND TERMINATION OF ALL FLASHING SYSTEMS.
- 10. MEET MINIMUM 12" BASE FLASHING HEIGHT AND PROVIDE ADEQUATE WATERTIGHT COUNTER FLASHING THROUGHOUT.
- 1. CONSTRUCTION MOCK-UPS FOR FLASHING/COPING CONDITIONS AS
- 12. PROVIDE SHOP DRAWINGS APPROVED BY MANUFACTURER FOR ARCHITECT'S REVIEW THROUGHOUT DURATION OF CONSTRUCTION.
- 13. DISCONNECT AND RECONNECT ROOFTOP EQUIPMENT IN ACCORDANCE WITH DOCUMENT REQUIREMENTS. REFER TO MECH. DWGS.
- 14. PROVIDE COST FOR REPLACEMENT OF DRAIN PIPING AT ONE HIGH ROOF DRAIN. ANTICIPATE REPLACEMENT 40 LF OF 4" DIAMETER DRAIN. ANTICIPATE DEMOLITION AND REPLACEMENT OF 200 SQFT OF 2X2' ACOUSTICAL CEILING SYSTEM FRAMING AND TILES. REPLACEMENT WILL TAKE PLACE AT MEZZANINE BELOW AND WILL REQUIRE SCAFFOLDING TO ACCESS ABOVE CEILING.

#### KEY NOTES:

- 1 NEW ROOF ASSEMBLY AT LOW ROOFS. REFER DETAIL 1/A501.
- $\langle 2 \rangle$  NEW ROOF ASSEMBLY FOR HIGH ROOFS. REFER DETAIL 2/A501.
- $\langle 3 \rangle$  NEW RAISED METAL COPING.
- $\overline{\langle 4 \rangle}$  NEW RAISED EXPANSION JOINT WITH METAL CAP.
- $\overline{\left\langle 5\right\rangle }$  MODIFY ROOF DRAINS PER 6-A501 AT LOW ROOFS, AND PER 9-A501 AT HIGH ROOFS. ENSURE DRAINS ARE FULLY WATERPROOFED WHEN VAPOR BARRIER IS INSTALLED. EXISTING DRAIN BOWLS MAY BE RAISED ABOVE THE HEIGHT OF THE SLAB. PROVIDE FOR PUMPING OF ROOF AS NEEDED AFTER RAINFALL AFTER DEMOLITION AND BEFORE INSTALLATION OF FINAL ROOFING SYSTEM.
- $\overline{\left\langle 6\right\rangle }$  EXISTING EQUIPMENT CURB. PROVIDE NEW CRICKET.
- $\left\langle \overline{7} \right\rangle$  EXISTING PIPE VENT. EXTEND PIPE VENT TO MEET MINIMUM FLASHING
- $\langle 8 \rangle$  REINSTALL EXISTING METAL SCREEN WALL ON EXISTING DUNNAGE. PROVIDE MIN. 3" GAP BETWEEN T. O. COPING AND B. O. SCREEN.
- 9 EXHAUST FAN TO BE REINSTALLED.
- $\langle\overline{10}\rangle$  NEW CONDENSING UNIT. REFER TO MECHANICAL DRAWINGS.
- REPLACE MISSING METAL ROOF BATTEN AND PAINT TO MATCH EXISTING. APPROXIMATELY 10' LONG REPLACEMENT.
- (12) EQUIPMENT VENTS TO REMAIN. PROVIDE NEW CAP.
- 13 INSTALL NEW THROUGH WALL FLASHING AT MEZZANINE WALL BELOW. REFER DETAIL 3/A502.
- (14) EXISTING DUNNAGE TO REMAIN.
- NEW PREFABRICATED SKYLIGHT STRUCTURE ON NEW RAISED CONCRETE CURB. SEE DMG. A101.
- (16) NOT USED
- $\langle 17 \rangle$  NOT USED.
- $\langle \overline{18} \rangle$  REINSTALL CLIMBING BARRIER, REFER A503.
- 20 PROVIDE CURB FOR FUTURE EQUIPMENT INSTALLATION. REFER



DENOTES NEW PARAPET AND/OR COPING AREA OF NEW ROOF





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SUCF PROJECT #291071

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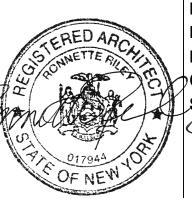
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Structural Engineer

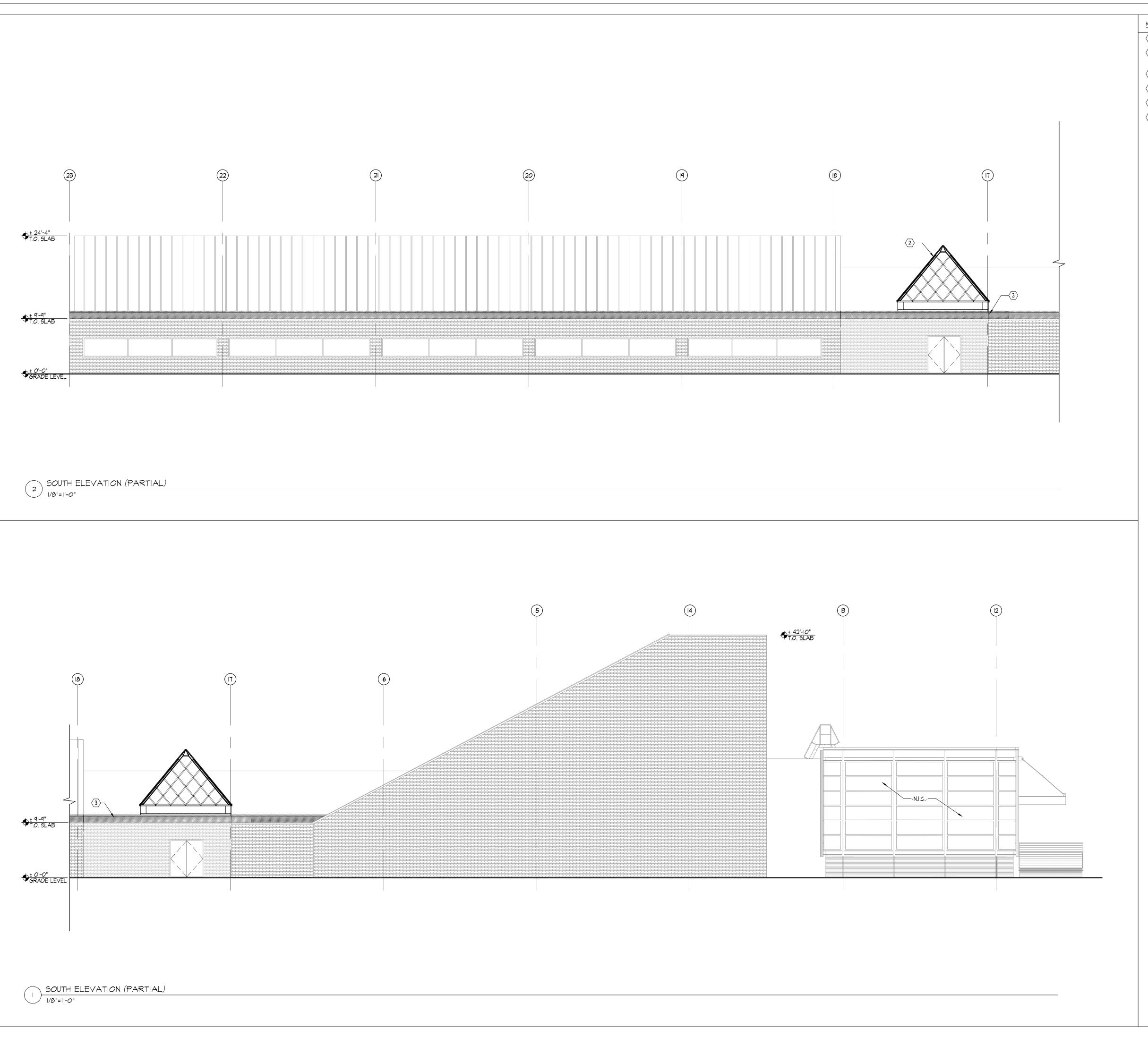
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# ROOF CONSTRUCTION PLAN - WEST



AS NOTED



#### KEY NOTES:

- $\bigcirc$  1 NEW ROOF ASSEMBLY.
- $\langle 2 \rangle$  NEW PREFABRICATED SKYLIGHT STRUCTURE ON NEW RAISED CONCRETE CURB.
- $\overline{3}$  NEW RAISED METAL COPING.
- $\overline{fame 4}$  REINSTALL EXISTING METAL SCREEN WALL ON EXISTING DUNNAGE.
- $\overline{5}$  FLASHING AT HIGH ROOF WALL.
- $raket{6}$  INSTALL NEW THROUGH WALL FLASHING AT MEZZANINE WALL.



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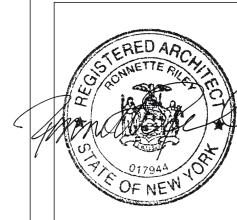
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#### Structural Engineer

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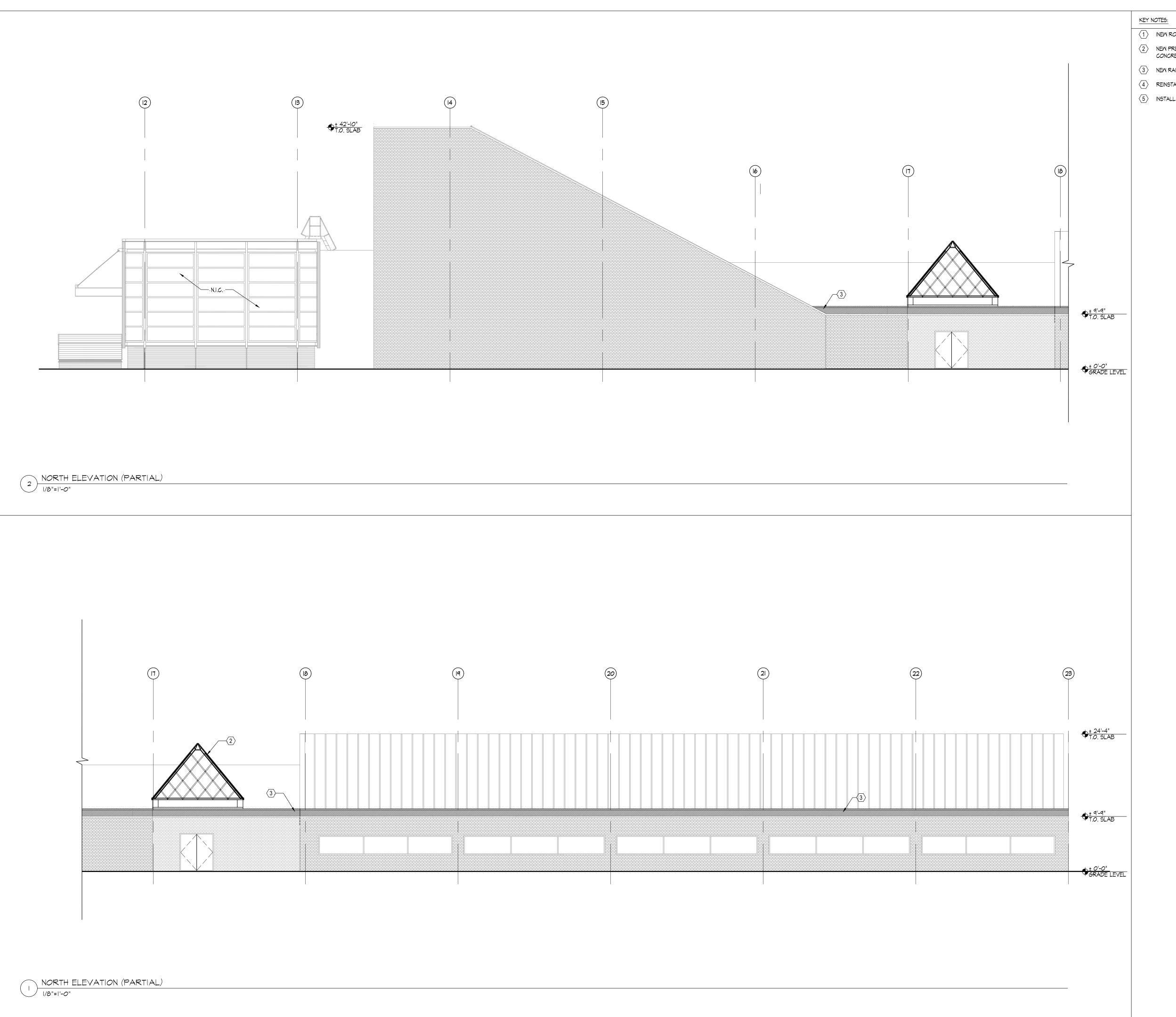
# No. Date Revision 0 28 July 2023 Issue for 50% DD 1 13 Nov. 2023 Issue for Pre-Bid 2 23 Feb. 2024 Re-Issue for Pre-Bid 3 07 May 2024 Issued for Bid

## EXTERIOR ELEVATIONS - SOUTH



Date 00-00-2023
RRA Project No. 4256
Drawing By MM, SG
CHK By EP
Scale AS NOTED

A-201.00



- $\bigcirc$  1 NEW ROOF ASSEMBLY.
- $\langle 2 \rangle$  NEW PREFABRICATED SKYLIGHT STRUCTURE ON NEW RAISED CONCRETE CURB.
- $\langle 3 \rangle$  NEW RAISED METAL COPING.
- $\langle 4 
  angle$  REINSTALL EXISTING METAL SCREEN WALL ON EXISTING DUNNAGE.
- $\langle 5 \rangle$  INSTALL NEW THROUGH WALL FLASHING AT MEZZANINE WALL.



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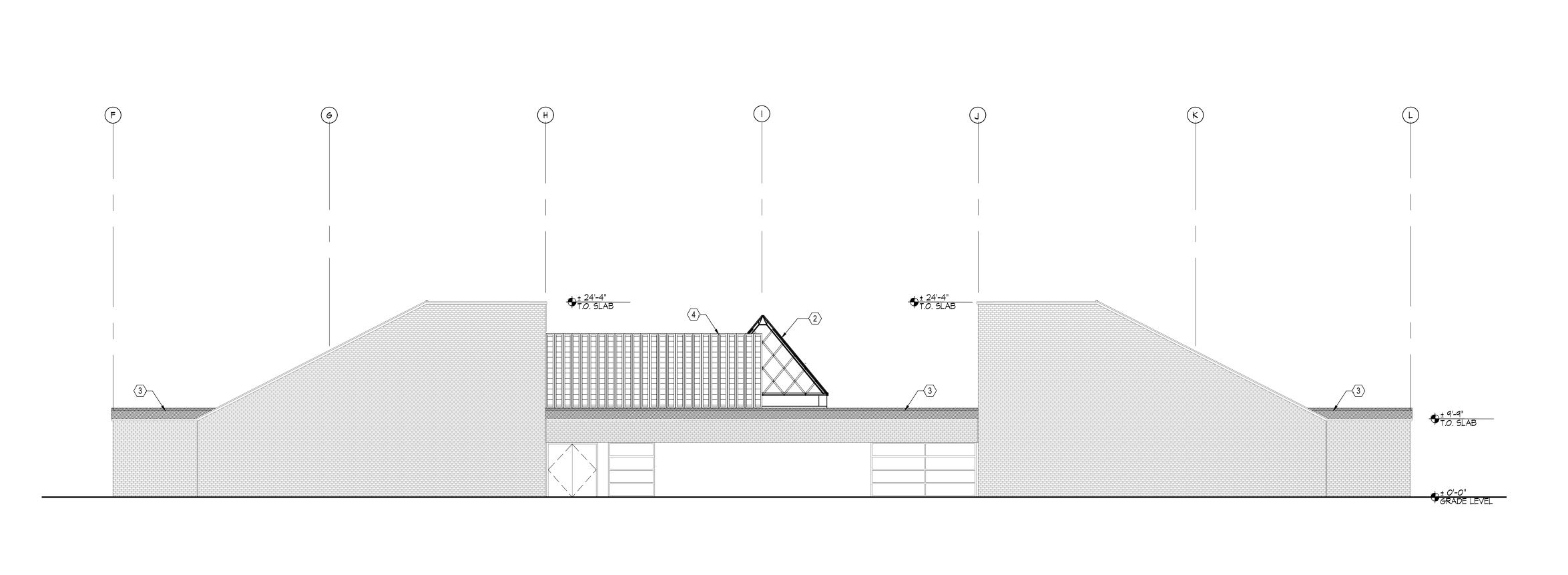
Structural Engineer

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**EXTERIOR ELEVATIONS - NORTH** 





WEST ELEVATION (PARTIAL)

1/8"=1'-0"



#### KEY NOTES:

- $\langle 1 \rangle$  INEW ROOF ASSEMBLY.
- (2) NEW PREFABRICATED SKYLIGHT STRUCTURE ON NEW RAISED CONCRETE CURB.
- $\bigcirc$  NEW RAISED METAL COPING.
- $\langle 4 
  angle$  REINSTALL EXISTING METAL SCREEN WALL ON EXISTING DUNNAGE.
- $\overline{5}$  FLASHING AT HIGH ROOF WALL BELOW.
- $raket{6}$  INSTALL NEW THROUGH WALL FLASHING AT MEZZANINE WALL.



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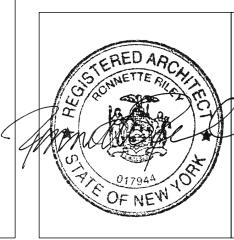
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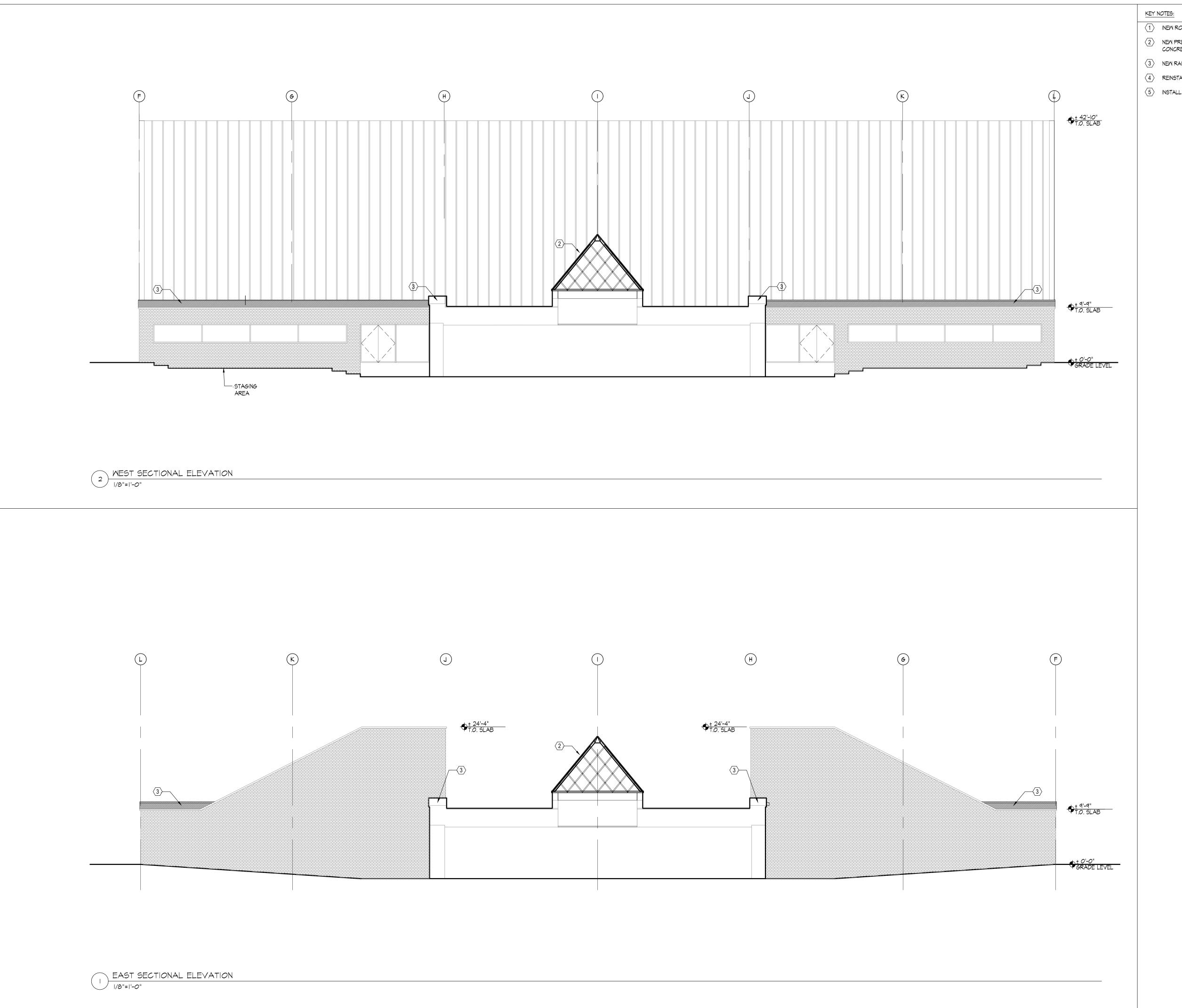
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## EXTERIOR ELEVATIONS -EAST & WEST



EAST ELEVATION (PARTIAL)

1/8"=1'-0"



- $\langle 1 \rangle$  INEW ROOF ASSEMBLY.
- (2) NEW PREFABRICATED SKYLIGHT STRUCTURE ON NEW RAISED CONCRETE CURB.
- $\bigcirc$  NEW RAISED METAL COPING.
- $\langle 4 
  angle$  REINSTALL EXISTING METAL SCREEN WALL ON EXISTING DUNNAGE.
- $\langle 5 \rangle$  INSTALL NEW THROUGH WALL FLASHING AT MEZZANINE WALL.



REPLACE LIBRARY ROOF STATE UNIVERSITY COLLEGE AT PURCHASE

> 735 Anderson Hill Rd. Purchase, NY 10577

SUCF PROJECT #291071

#### Conditions

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# **EXTERIOR SECTIONAL** ELEV. - EAST & WEST





#### KEY NOTES:

 $\langle 1 \rangle$  INEW ROOF ASSEMBLY.

(2) NEW PREFABRICATED SKYLIGHT STRUCTURE ON NEW RAISED CONCRETE CURB.

 $\bigcirc$  NEW RAISED METAL COPING.

 $\langle 4 
angle$  REINSTALL EXISTING METAL SCREEN WALL ON EXISTING DUNNAGE.

 $\overline{5}$  FLASHING AT HIGH ROOF WALL BELOW.

 $raket{6}$  INSTALL NEW THROUGH WALL FLASHING AT MEZZANINE WALL.



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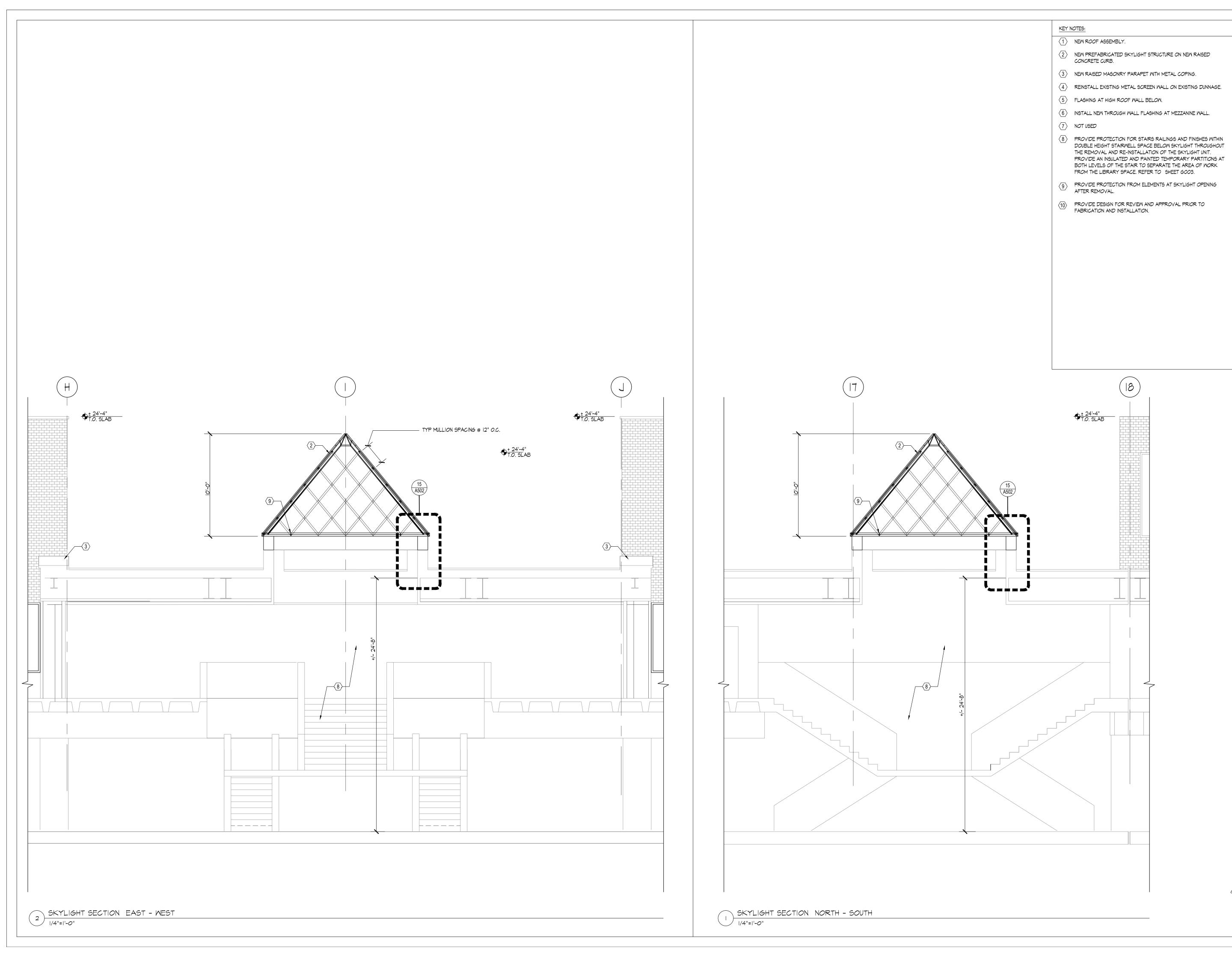
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# **EXTERIOR SECTIONAL** ELEV. - NORTH & SOUTH







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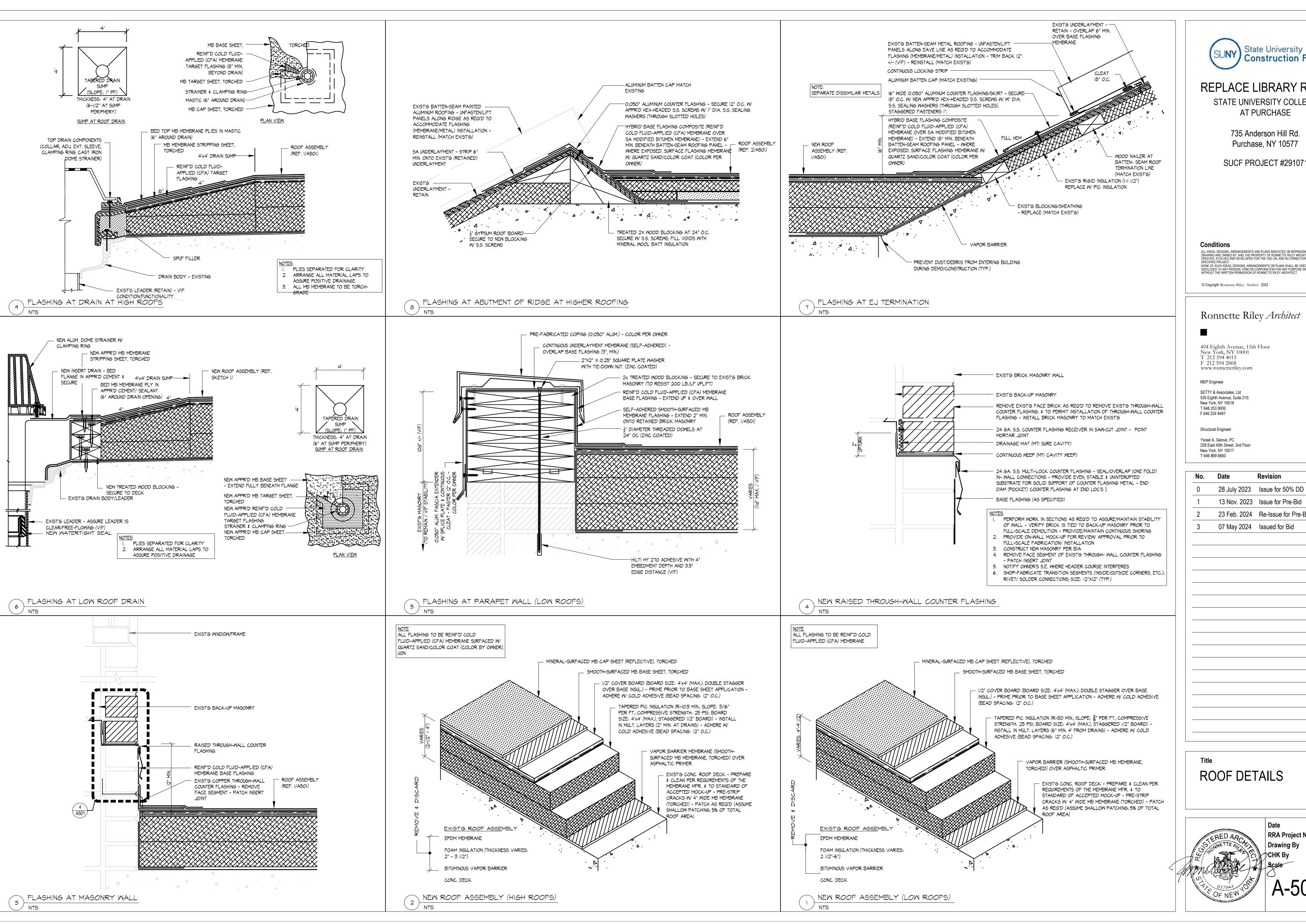
1 13 Nov. 2023 Issue for Pre-Bid 2 23 Feb. 2024 Re-Issue for Pre-Bi	No.	Date	Revision
2 23 Feb. 2024 Re-Issue for Pre-Bi	0	28 July 2023	Issue for 50% DD
	1	13 Nov. 2023	Issue for Pre-Bid
3 07 May 2024 Issued for Bid	2	23 Feb. 2024	Re-Issue for Pre-Bid
	3	07 May 2024	Issued for Bid

# SKYLIGHT SECTIONS



Date 00-00-2023
RRA Project No. 4256
Drawing By MM, SG
CHK By EP
Scale AS NOTED

A-301.00



State University Construction Fund

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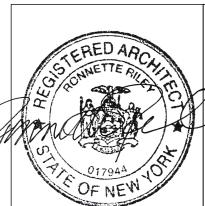
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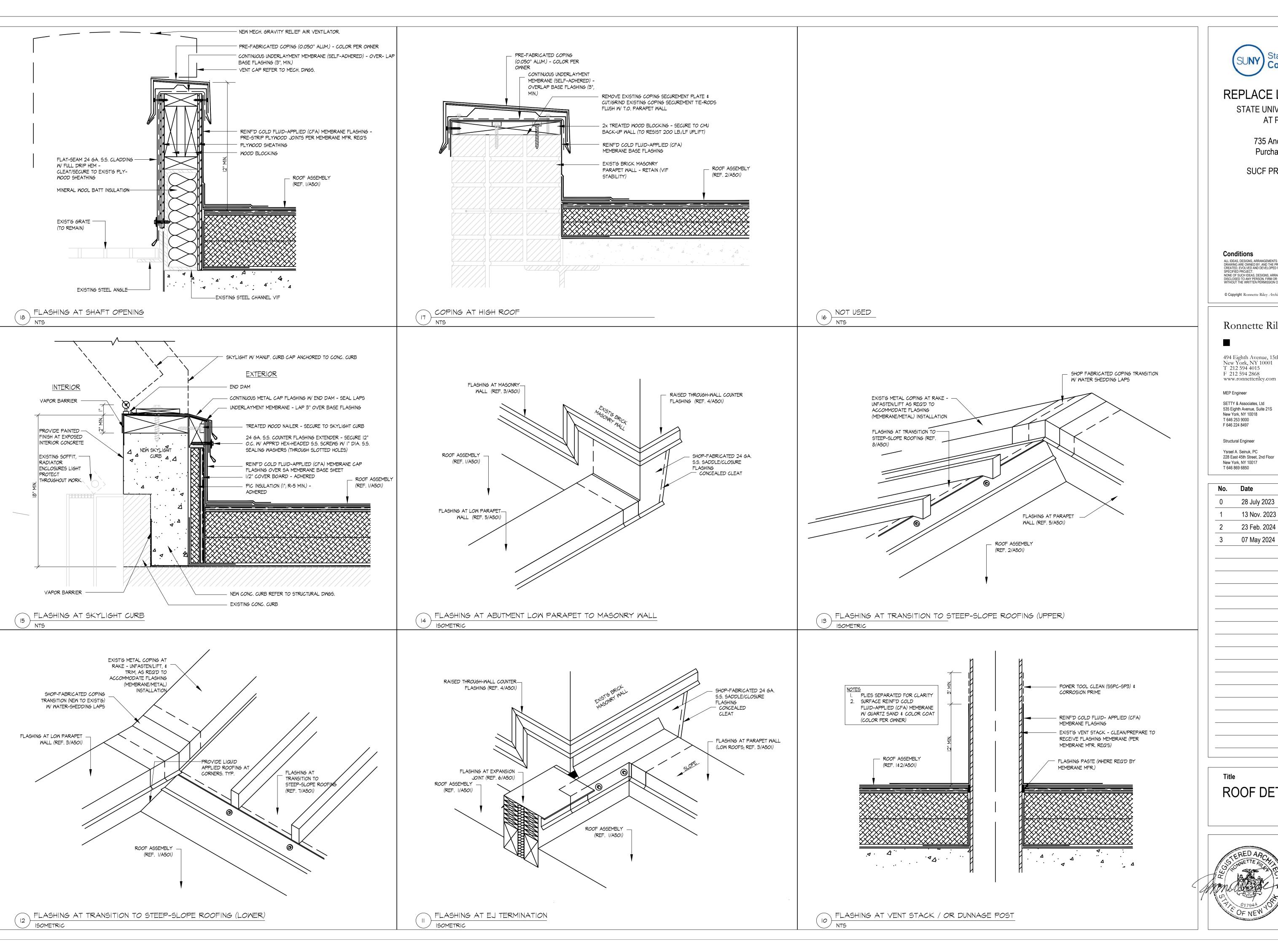
U	20 July 2023	Issue for 50% DD
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Revision

**ROOF DETAILS** 



00-00-2023 RRA Project No. 4256 AS NOTED



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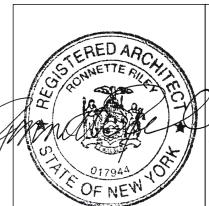
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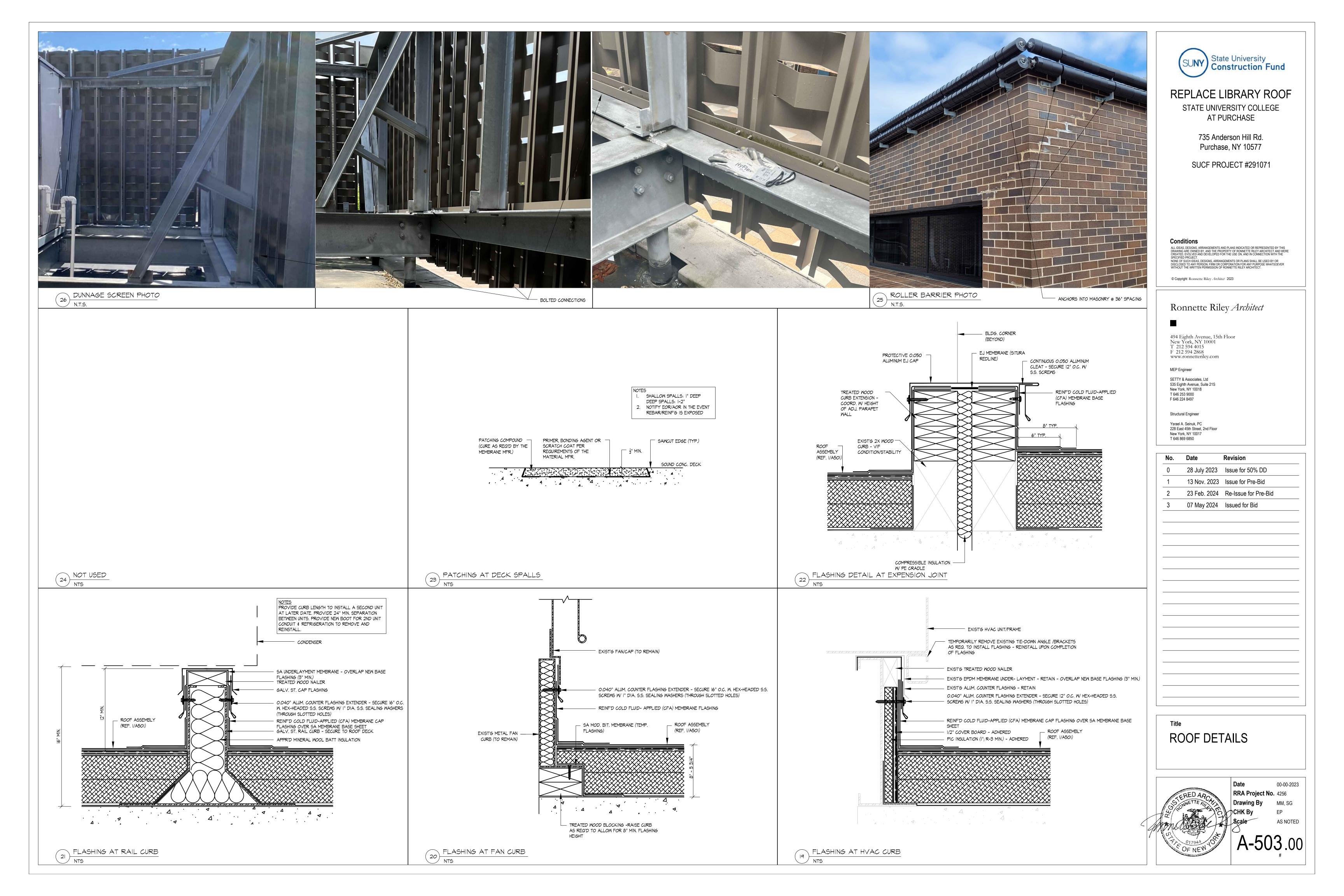
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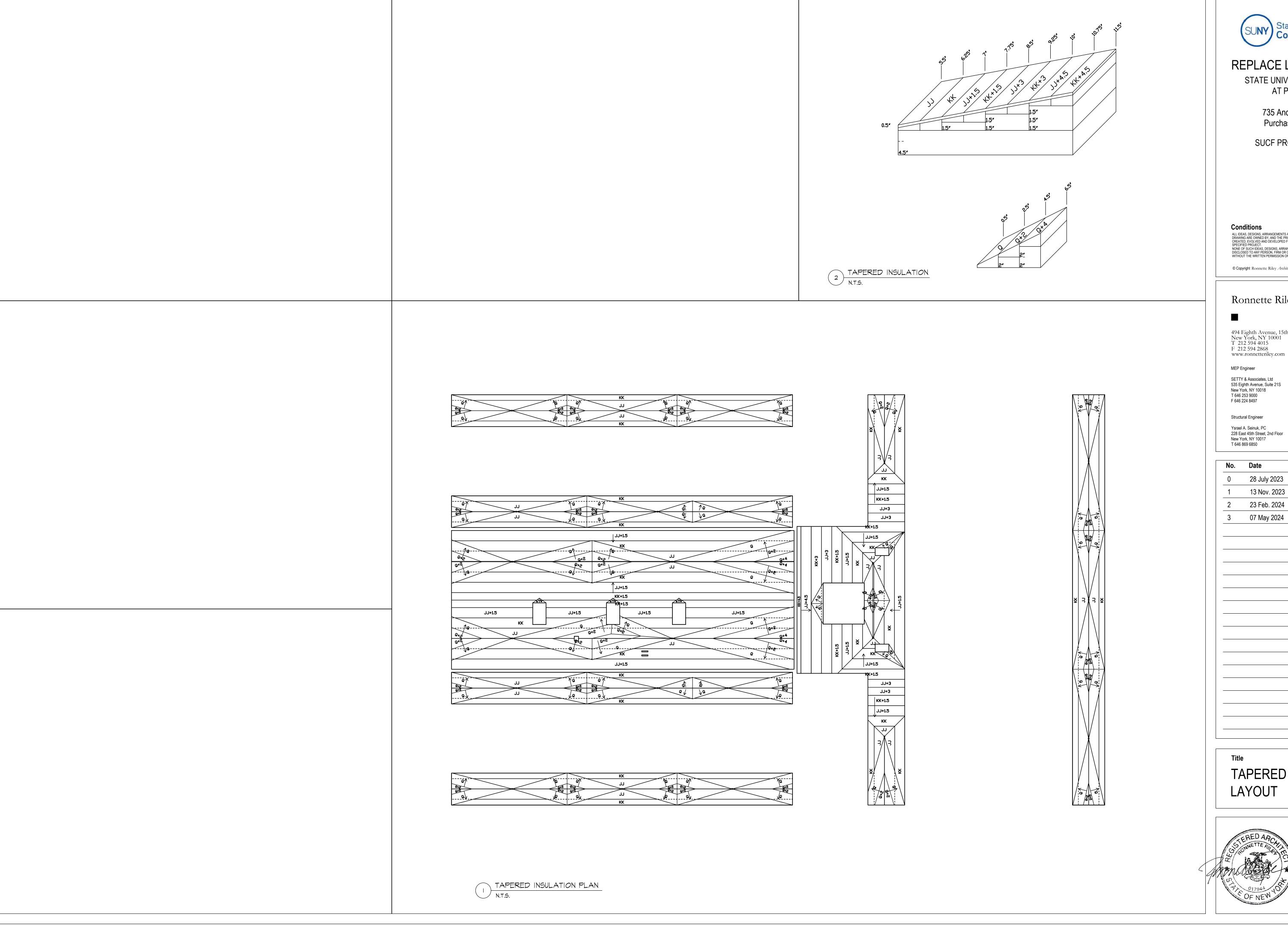
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# ROOF DETAILS



00-00-2023 AS NOTED







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AT PURCHASE

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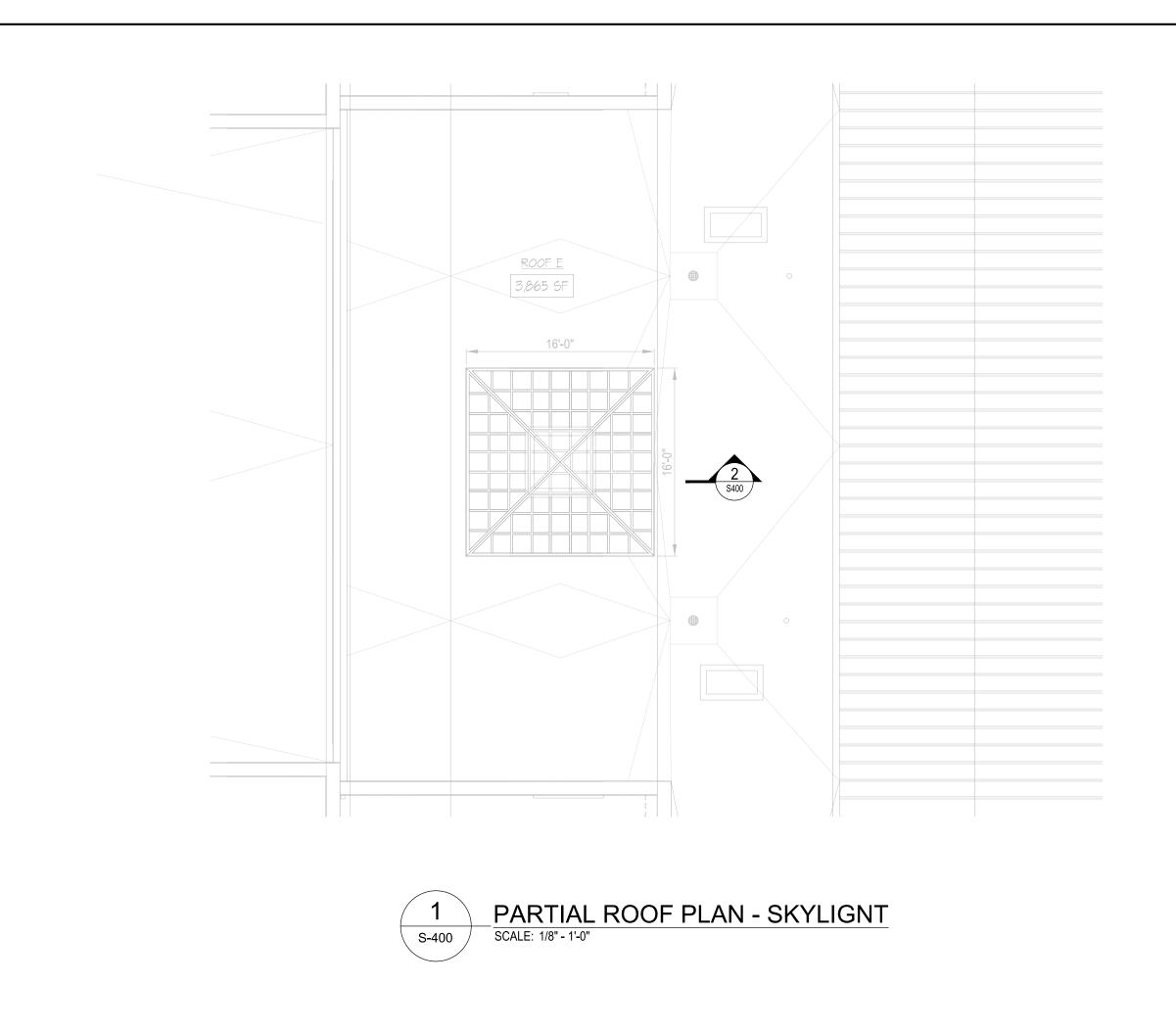
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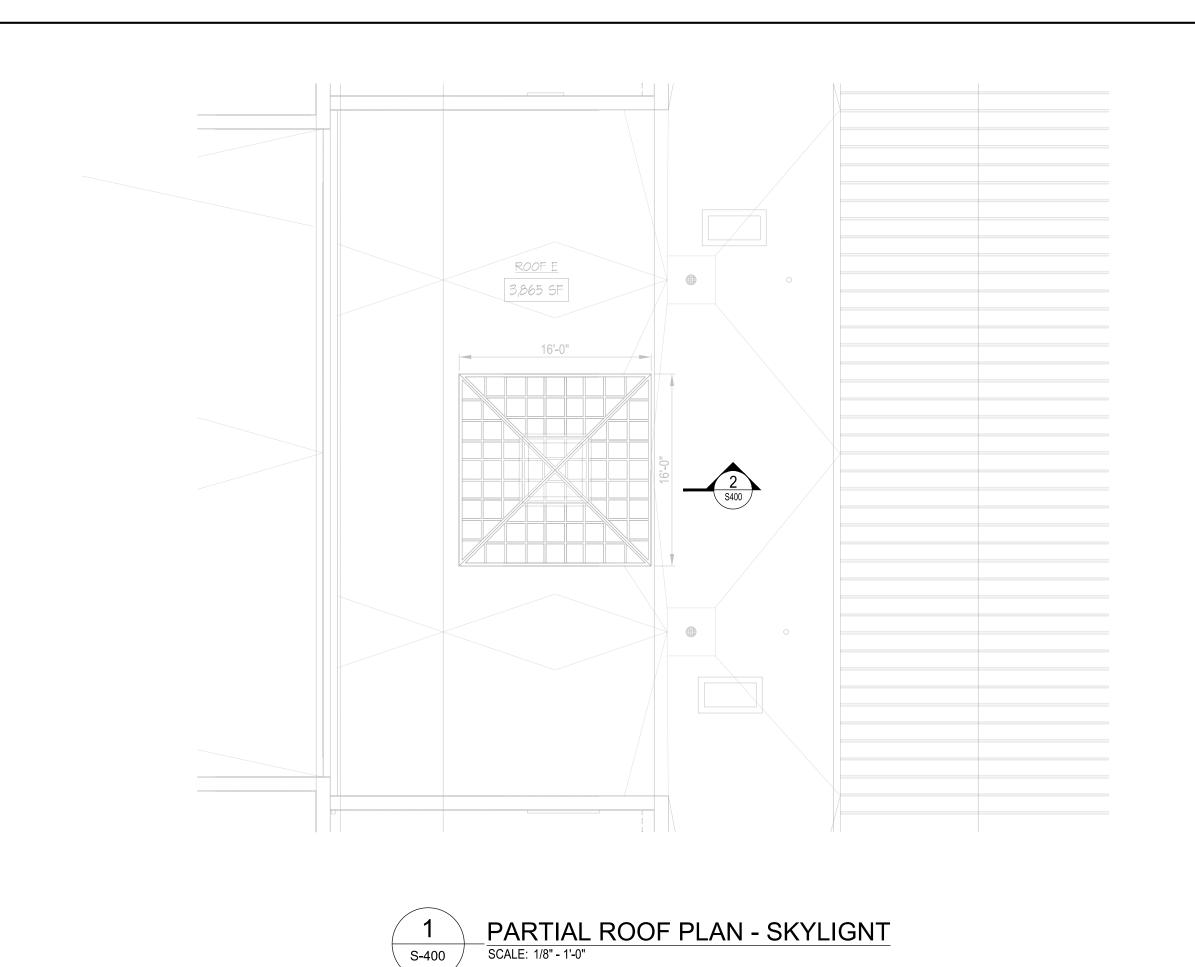
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## TAPERED INSULATION LAYOUT



A-504.00





#### **GENERAL NOTES:**

ALL WORK SHALL BE IN CONFORMANCE WITH STRUCTURAL DRAWINGS AND THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE 2020 ("THE BUILDING CODE" REFERENCED IN THE FOLLOWING

- 1. TO THE BEST OF OUR KNOWLEDGE, THE STRUCTURAL DRAWINGS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE GOVERNING BUILDING CODE.
- 2. CONSTRUCTION IS TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING BUILDING CODE NOTED ABOVE AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL CODES, STANDARDS, REGULATIONS, AND LAWS.
- 3. CONTRACTORS SHALL BE RESPONSIBLE FOR FINAL VERIFICATION OF ALL DIMENSIONS, ELEVATIONS, CLEARANCES, ETC. OF THE FRAMING SHOWN ON THE STRUCTURAL DRAWINGS AGAINST FIELD VERIFICATION INFORMATION PRIOR TO PROCEEDING WITH ANY RELATED PORTION
- 4. ALL COSTS OF INVESTIGATION AND/OR REDESIGN, DUE TO CONTRACTOR MISLOCATION OF STRUCTURAL ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE PROJECT DOCUMENTS, SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 5. IN THE EVENT THAT CERTAIN DETAILS OF THE CONSTRUCTION ARE NOT FULLY SHOWN OR NOTED ON THE DRAWINGS, THEIR CONSTRUCTION SHALL BE OF THE SAME TYPE AS FOR SIMILAR CONDITIONS WHICH ARE SHOWN AND NOTED, SUBJECT TO THE STRUCTURAL ENGINEER'S APPROVAL. DETAILS LABELED "TYPICAL" APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTIONS REGARDING THE APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE PROJECT ENGINEER.
- YSRAEL A. SEINUK, PC. (YAS) SHALL NEITHER HAVE CONTROL OVER OR CHARGE OF, NOR BE RESPONSIBLE FOR, THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, SINCE THESE ARE SOLELY THE CONTRACTOR'S RIGHTS AND RESPONSIBILITIES UNDER THE CONTRACT DOCUMENTS. YAS SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S OR ANY SUBCONTRACTOR'S FAILURE TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PROTECT PROJECT PROPERTY, HIS OWN WORK, AND THE PUBLIC FROM HARM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE SAFETY INCLUDING ALL OSHA REQUIREMENTS.
- THE STRUCTURE WAS DESIGNED TO BE SELF-SUPPORTING AND STABLE FOLLOWING INSTALLATION OF ALL COMPONENTS AS INDICATED ON THE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE METHOD AND SEQUENCE OF ERECTION PROCEDURES (INCLUDING IMPLEMENTATION OF TEMPORARY SHORING, BRACING, ETC.) AND TO ENSURE SAFETY THROUGH THE PERIOD OF CONSTRUCTION. CONTRACTOR AGREES THAT HE WILL HOLD OWNER, ARCHITECT, ENGINEER, AND/OR ANY OF THEIR EMPLOYEES OR AGENTS, HARMLESS FROM ANY AND ALL DAMAGE AND CLAIMS WHICH MAY ARISE BY A REASON OF ANY NEGLIGENCE ON THE PART OF THE CONTRACTOR, OR ANY OF HIS SUBCONTRACTORS, OR ANY MATERIAL AND EQUIPMENT SUPPLIERS, AND/OR ANY OF THEIR EMPLOYEES OR AGENTS, IN THE PERFORMANCE OF THIS CONTRACT. IN CASE ANY ACTION IS BROUGHT AGAINST THE OWNER, OR ARCHITECT, OR ENGINEER, OR ANY OF THEIR EMPLOYEES OR AGENTS, CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DEFENSE THEREOF, TO THE FULL SATISFACTION OF THE LATTER PARTY.

#### CONCRETE AND STEEL REINFORCEMENT NOTES

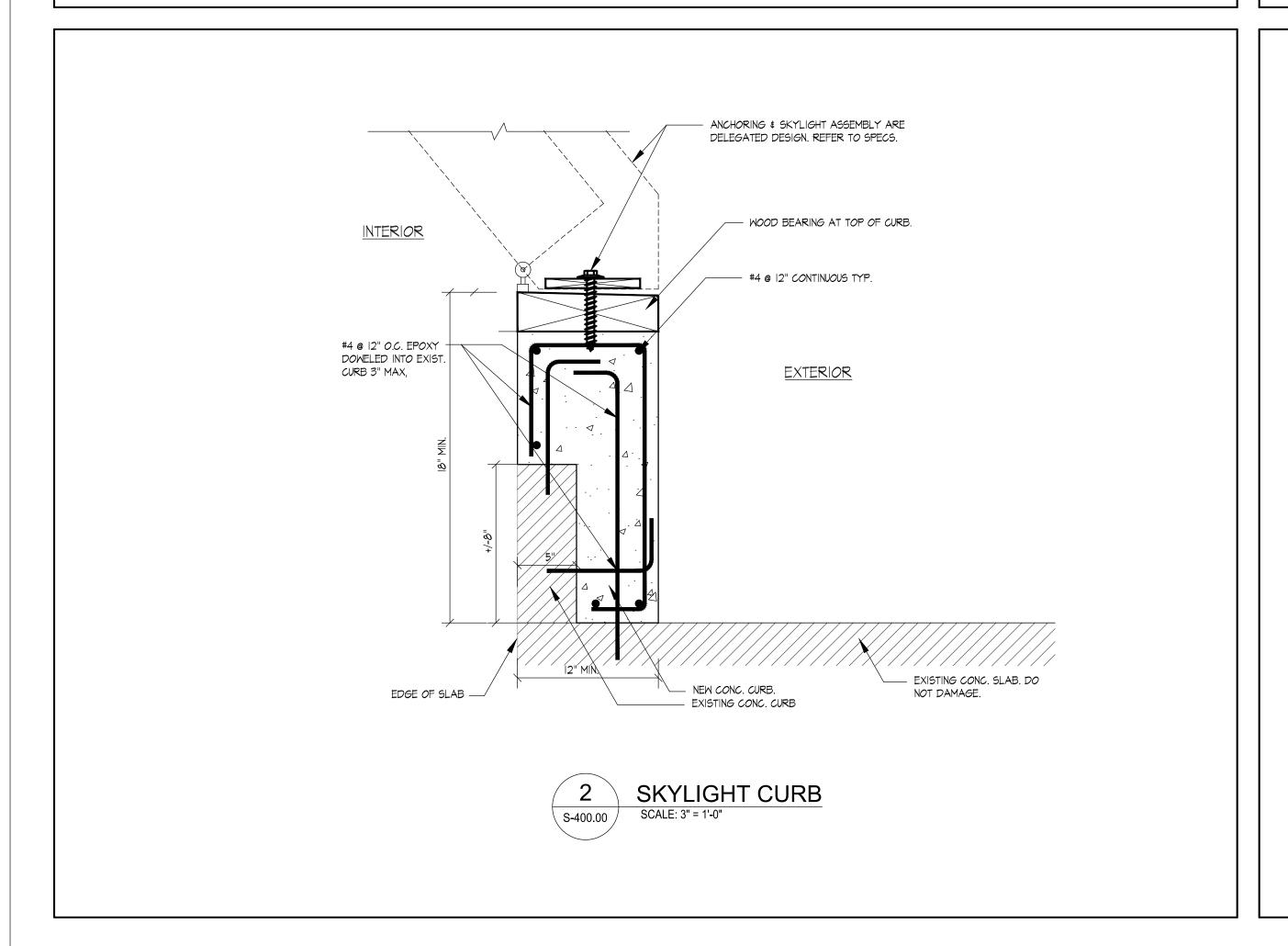
- ALL CONCRETE WORK SHALL BE IN CONFORMANCE WITH THE CODE, AND AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" ACI 318 - 14 ("ACI").
- 1.1. "ACI MANUAL OF CONCRETE PRACTICE" PART 1 TO 6, BY AMERICAN CONCRETE INSTITUTE.
- 1.2. "MANUAL OF STANDARD PRACTICE" BY CRSI.
- 1.3. "ACI DETAILING MANUAL" BY ACI.
- ALL CONCRETE SHALL BE NORMAL WEIGHT CONTROLLED CONCRETE (U.O.N) AND COMPLY WITH THE BUILDING CODE, PROJECT SPECIFICATIONS, ACI 301, AND ACI 318. APPLICATION FOR CONTROLLED CONCRETE WITH CONCRETE DESIGN MIX PREPARED BY AN APPROVED LABORATORY MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW.

- 3. CONCRETE STRENGTH SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
- 3.1. CURB AND PIERS: 4500 PSI AT 28 DAYS, STONE CONCRETE.
- 4. ALL STEEL REINFORCEMENT SHALL HAVE AN ULTIMATE TENSILE STRENGTH OF 90,000 PSI AS PER ASTM A615, GRADE 60. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE NECESSARY CHAIRS, REBARS, TIES, SPACERS, ETC., TO SECURE AND SUPPORT THE REINF. WHILE PLACING THE CONCRETE. REINFORCING SHALL BE EPOXY COATED WHERE INDICATED IN THESE NOTES AND/OR
- ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS SHALL COMPLY WITH THE REQUIREMENTS OF ACI 315 AND ACI 318. THE CONTRACTOR MUST SUBMIT REINFORCING SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW. NO CONSTRUCTION IS TO BE STARTED UNTIL THE SHOP DRAWINGS ARE REVIEWED BY THE ENGINEER AND APPROVED BY THE BUILDING
- 6. THE STRUCTURAL ENGINEER OR HIS FIELD QUALIFIED REPRESENTATIVE SHALL CHECK AND APPROVE ALL STEEL REINFORCEMENT PRIOR TO CONCRETE PLACEMENT. THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF 10% OF ADDITIONAL REINFORCING STEEL, INCLUDING FABRICATION, BENDING, FURNISHING AND PLACING. THIS EXTRA STOCK SHALL BE USED FOR SPECIAL CONDITIONS AS DIRECTED BY THE ARCHITECT, THE ARCHITECT'S AGENT OF THE OWNER'S CONSTRUCTION SUPERVISOR. THE COST OF ALL UN-USED EXTRA STOCK SHALL BE CREDITED TO THE OWNER'S ACCOUNT.
- 7. REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED AND FIRMLY TIED IN PLACE, WITH APPROPRIATE BAR SUPPORTS AND SPACERS. LAP CONTINUOUS REINFORCING THE GREATEST OF 48 BAR DIAMETER AND LAP SPLICE TABLES INDICATED ON DRAWING. LAP BOTTOM STEEL OVER SUPPORTS AND TOP STEEL AT MIDSPAN (UNO). HOOK DISCONTINUOUS ENDS OF ALL TOP BARS AND ALL BARS IN WALLS (UNO). PROVIDE COVER REINFORCING AS FOLLOWS:

BOTTOM TOP SIDE BEAMS ABOVE GRADE 1 ½" WALLS AND CURBS

- 8. ALL SPLICES SHALL BE LAPPED IN ACCORDANCE WITH ACI 318. THE LOCATIONS SHALL BE INDICATED ON THE SHOP DRAWINGS AND APPROVED BY THE ENGINEER OF RECORD. GENERALLY, ALL SPLICES SHALL BE STAGGERED AND LOCATED AWAY FROM THE SECTION OF MAXIMUM TENSILE STRESS. ALL REINFORCEMENT SHALL BE ACCURATELY PLACED AND SECURELY WIRED TO PREVENT DISLOCATION FROM PROPER POSITION. PROVIDE CHAIRS FOR SUPPORT OF ALL REINFORCEMENTS. LIFTING OF BARS OR MESH DURING PLACEMENT OF CONCRETE IS NOT PERMITTED.
- 9. DO NOT INCREASE QUANTITY OF WATER IN EXCESS OF THAT ESTABLISHED BY DESIGN MIX. IF LOSS OF SLUMP OCCURS BECAUSE OF THE USE OF FIBERMESH; ADD SUPERPLASTICIZER IN ACCORDANCE WITH TESTING LABORATORIES INSTRUCTIONS.
- 10. WHEN MEAN-DAILY-TEMPERATURE RISES ABOVE 90F, PROVIDE HOT WEATHER PROTECTION IN ACCORDANCE WITH ACI-305. WHEN MEAN-DAILY-TEMPERATURE FALLS BELOW 40F, PROVIDE COLD WEATHER PROTECTION IN ACCORDANCE WITH ACI 306. SUBMIT PROPOSED METHODS FOR COLD AND/OR HOT WEATHER CONCRETING FOR REVIEW.
- 11. DESIGN AND CONSTRUCTION OF FORMWORK IS TO COMPLY WITH THE ACI CODE. PROVIDE ¾" CHAMFER FOR ALL EXPOSED CORNERS.
- 12. WHERE NO REINFORCEMENT IS SPECIFIED ON DRAWINGS, PROVIDE MINIMUM TEMPERATURE REINFORCEMENT IN ACCORDANCE WITH ACI-318; BUT, NOT LESS THAN #4 REBARS AT 16" ON
- 13. WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF THE CONCRETE. HOLES SHALL BE BLOWN CLEAN PRIOR TO PLACING BOLTS OR ADHESIVE
- 14. VOID FORMERS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE RIGID CLOSED CELL EXPANDED POLYSTYRENE CONFORMING TO ASTM C578. VOID FORMERS SHALL UNDERGO 10% DEFORMATION WHEN SUBJECTED TO THE FOLLOWING LOADS AS PER ASTM D1621.

14.1.COMPRESSIBLE VOID FORMERS 5.0 PSI 14.2.RIGID VOID FORMERS 25.0 PSI



	SUNY at Purchase - Replace Library Roof	Date: By:	4/30/2024 SXS
Λ	Crevity Leads		
А.	Gravity Loads	Design Code:	N13BC 2020
	Except as noted, loading information for the roof top mechanical equipment this criteria. Live loads are reducible except where noted NR (not reducible superimposed dead and live loads taken for each occ		
	1 Main Roof - (ordinary flat and not occupiable)	(psf)	
	Live Load	20	
В	Wind Load		
	Risk Category	II	
	Ultimate design wind speed (3 second gust) per code 1620.2	116 mph	
	50year MRI	90 mph	
	Wind exposure category	С	
	Average Design Wind Pressure (For Main Lateral Force Resisting System	1)	
	Per ASCE 7, Analytical Procedure:	29 (psf)	
	Ultimate Design Wind Pressure for Roof Component and Cladding (V ultimate)  1) 10 SQ FT Tributary Area  2) 50 SQ FT Tributary Area  3) 100 SQ FT Tributary Area  Zone 1 = -47 psf; Zone 2 = -75 psf, Zone 1 = -44 psf; Zone 2 = -71 psf, Zone 1 = -44 psf; Zone 2 = -71 psf, Zone 2 = -71	one 3 = -103 psf	
С	Seismic Load		
	This Roof Replacement Project has no added seismic weight in compa building condition. Seismic design requirement is not applicable.	arison to the origi	inal
D	Snow load		
	This Roof replacement project has no change to the roof geometry and roof snow load condition. Ground Snow Load is 30 psf.	no change to th	e existing
Е	Roof Rain load		
	This Roof replacement project has no change to the roof geometry and	no change to th	e existing
	roof drainage condition.		
	Special Inspection per Code Chapter 17		
	oncrete Construction per 1705.3		
	Inspect reinforcement Inspect post installed anchors.		
	Verify concrete design mix.		
	Inspect formwork for shape, location, and dimensions.		

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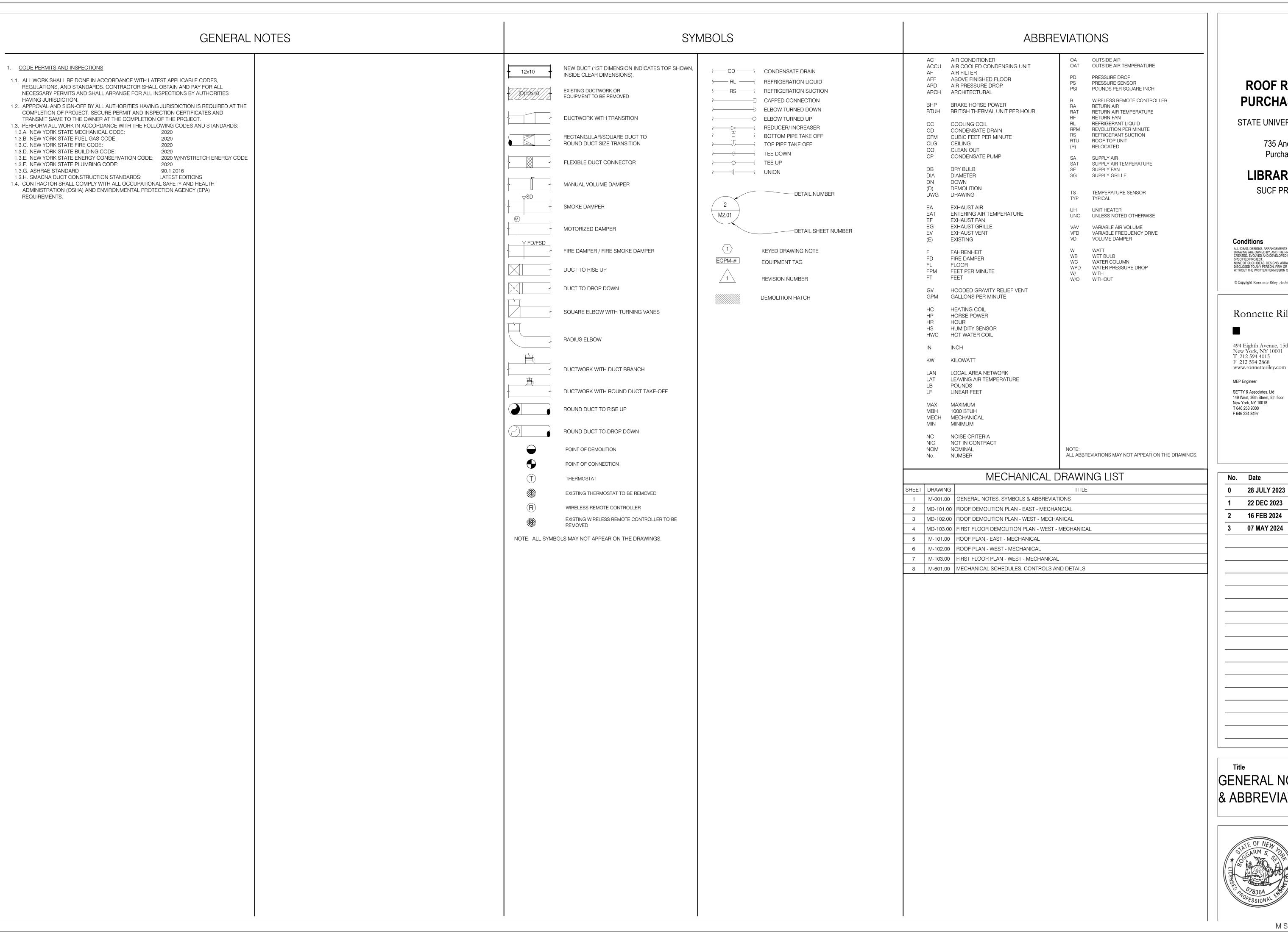
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SKYLIGHT DETAIL AND NOTE



AS NOTED



#### **ROOF RENOVATION PURCHASE COLLEGE**

STATE UNIVERSITY OF NEW YORK

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#### LIBRARY BUILDING

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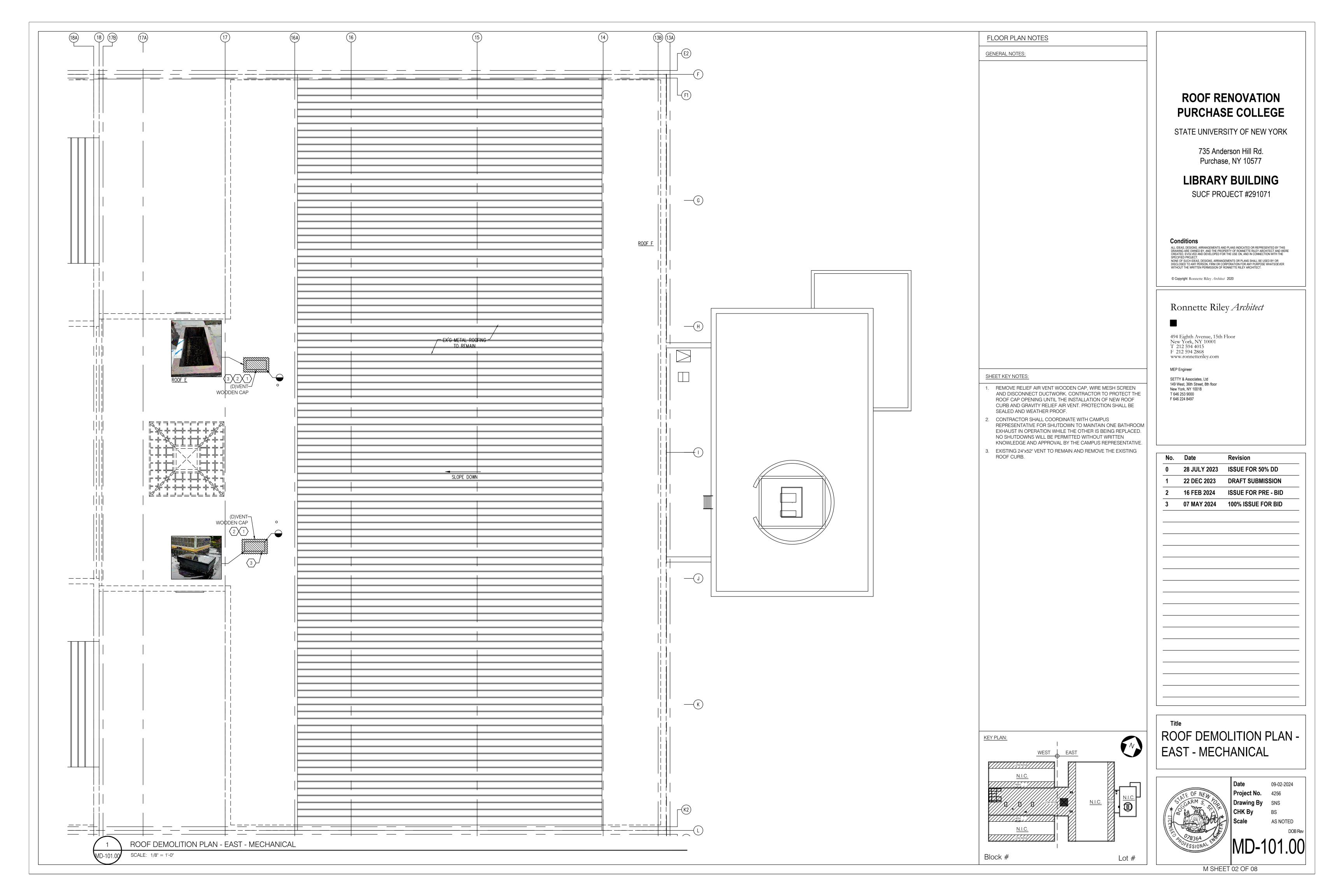
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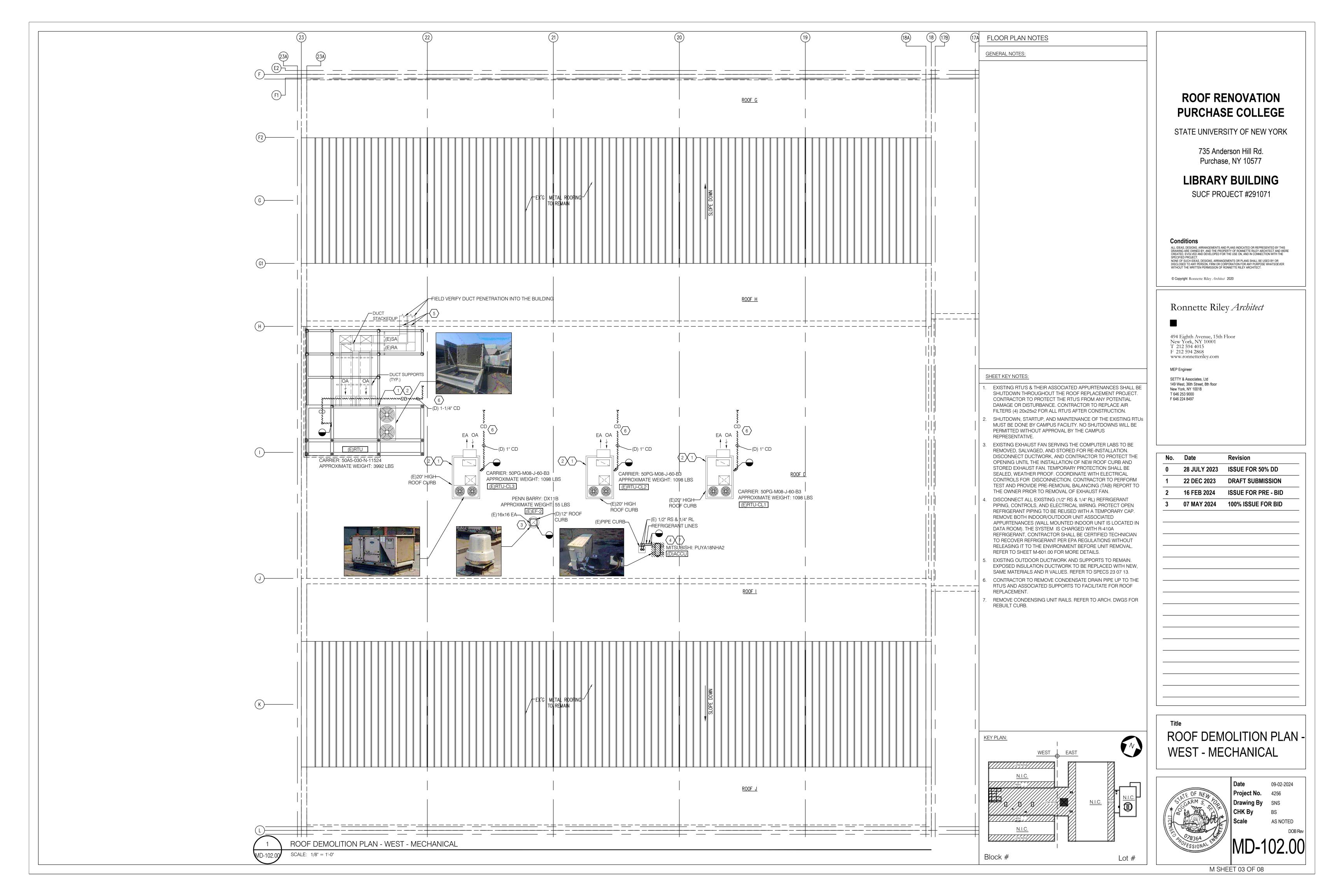
0	28 JULY 2023	ISSUE FOR 50% DD
1	22 DEC 2023	DRAFT SUBMISSION
2	16 FEB 2024	ISSUE FOR PRE - BID
3	07 MAY 2024	100% ISSUE FOR BID

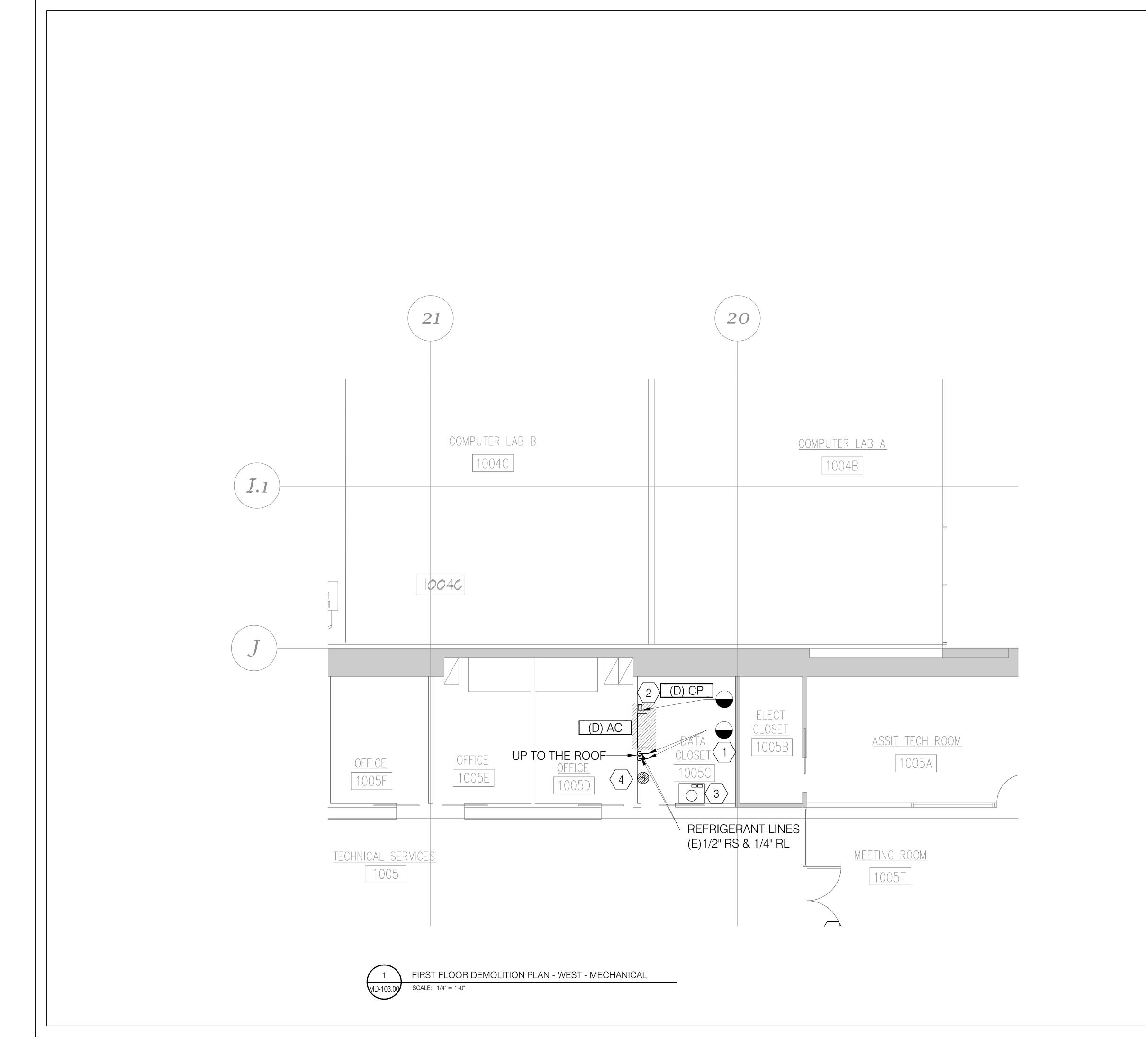
# GENERAL NOTES, SYMBOLS & ABBREVIATIONS



M SHEET 01 OF 08







#### FLOOR PLAN NOTES

GENERAL NOTES:

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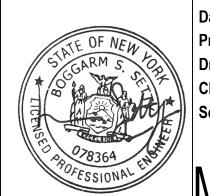
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# No. Date Revision 0 28 JULY 2023 ISSUE FOR 50% DD 1 22 DEC 2023 DRAFT SUBMISSION 2 16 FEB 2024 ISSUE FOR PRE - BID 3 07 MAY 2024 100% ISSUE FOR BID

# FIRST FLOOR DEMOLITION PLAN - WEST- MECHANICAL



Date 09-02-202
Project No. 4256
Drawing By SNS
CHK By BS
Scale AS NOTE

MD-103.0

M SHEET 04 OF 08



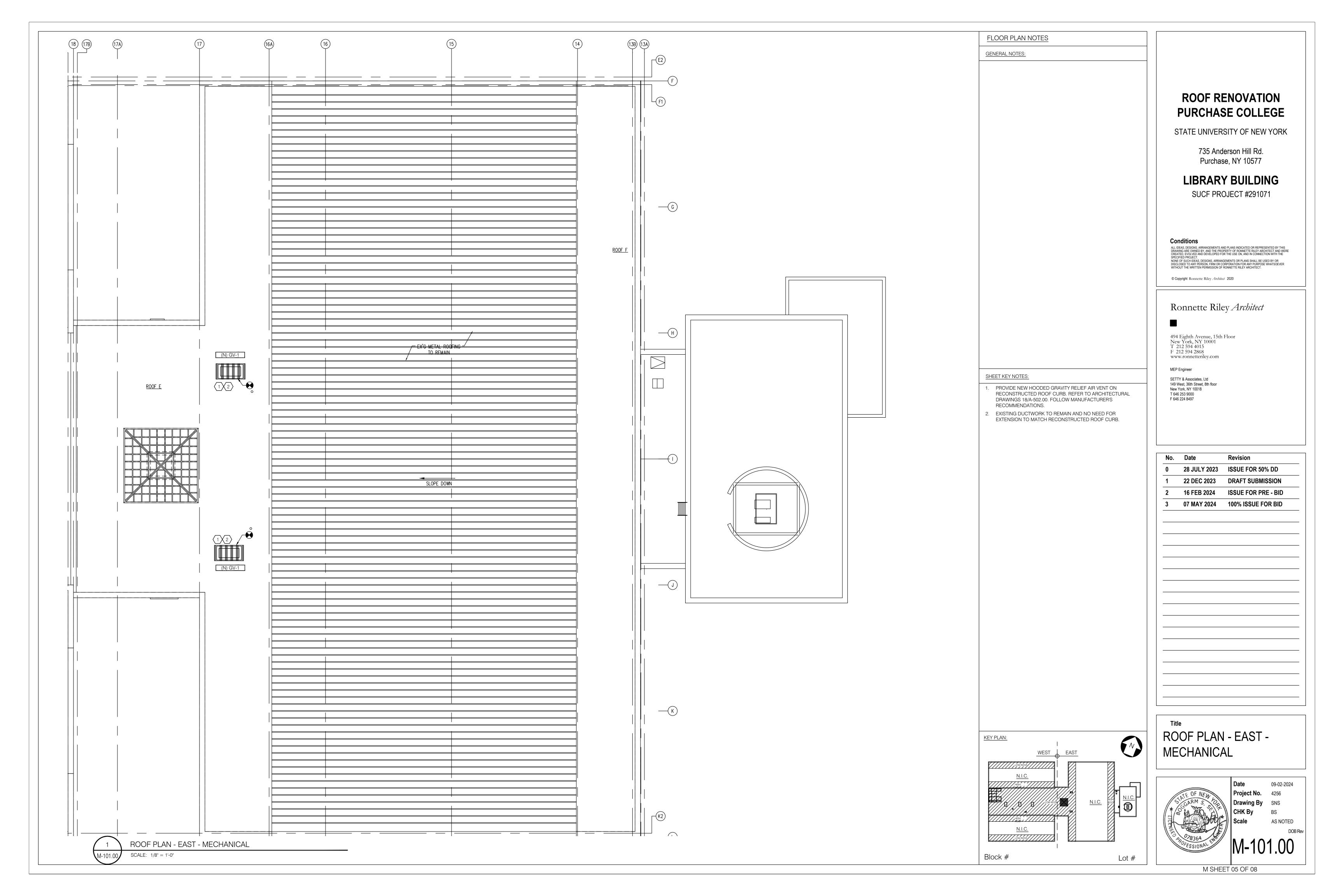
KEY PLAN:

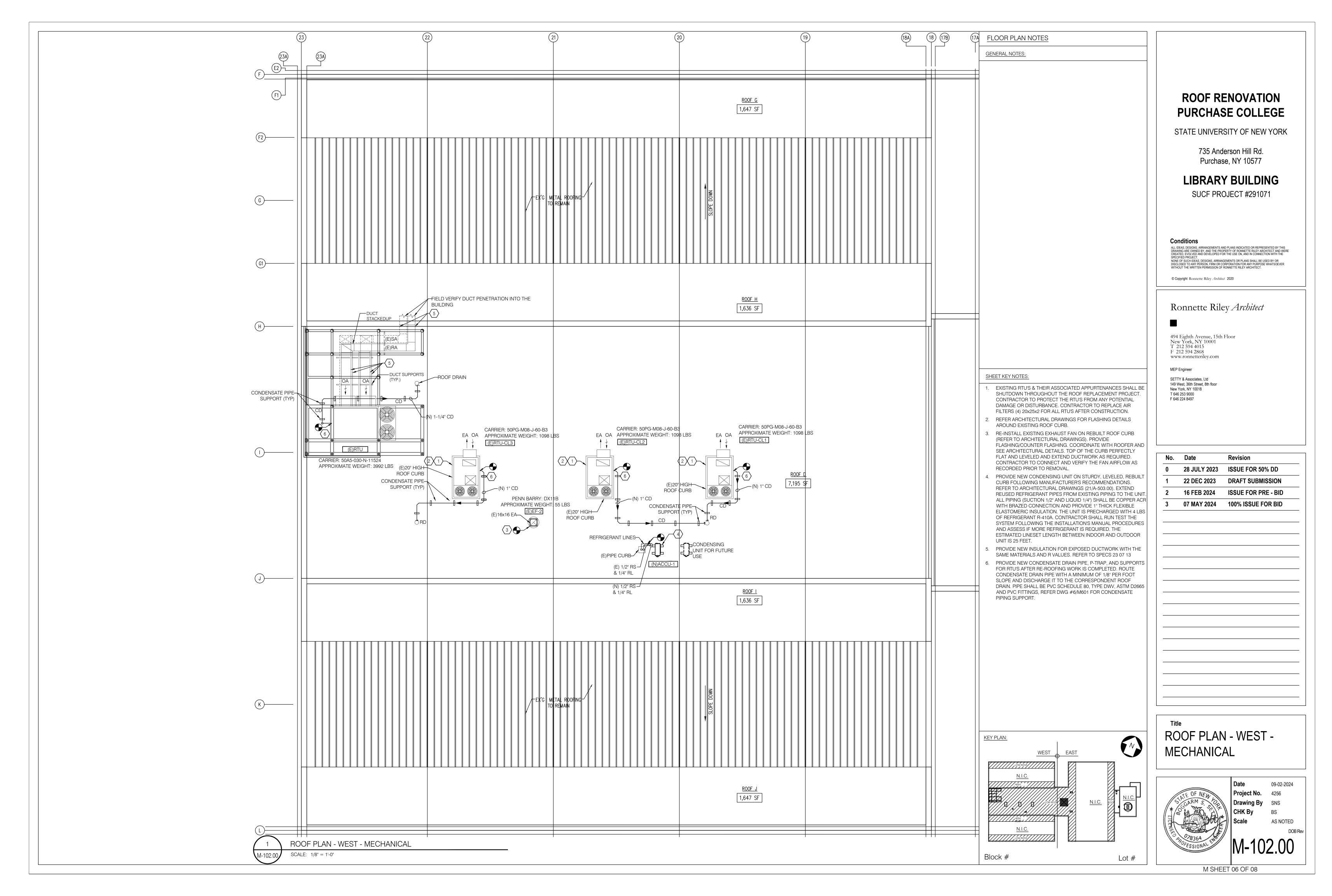
- 1. EXISTING REFRIGERANT PIPES TO BE DISCONNECTED FROM WALL MOUNTED UNIT. PROTECT OPEN REFRIGERANT PIPING TO BE REUSED WITH A TEMPORARY CAP. THE SYSTEM IS CHARGED WITH R-410A REFRIGERANT, CONTRACTOR SHALL HAVE CERTIFIED TECHNICIAN TO RECOVER REFRIGERANT PER EPA REGULATIONS WITHOUT RELEASING IT TO THE ENVIRONMENT BEFORE UNIT REMOVAL
- REMOVE WALL MOUNTED CONDENSATE PUMP AND DISCONNECT ASSOCIATED PIPING. PREPARE FOR RECONNECTION.
- PROVIDE TEMPORARY 1.5 TON (115V/1/60) PORTABLE AIR CONDITIONER DURING THE DURATION OF THE REPLACEMENT OF THE INDOOR AND OUTDOOR UNIT. CONTRACTOR TO ENSURE EMPTYING THE CONDENSATE TANK WHEN IT IS REQUIRED, AND REPLACE TO RESUME OPERATION. TEMPORARY UNIT ALARM IS DISPLAYED WHEN TANK IS FULL.
- DISPLAYED WHEN TANK IS FULL.

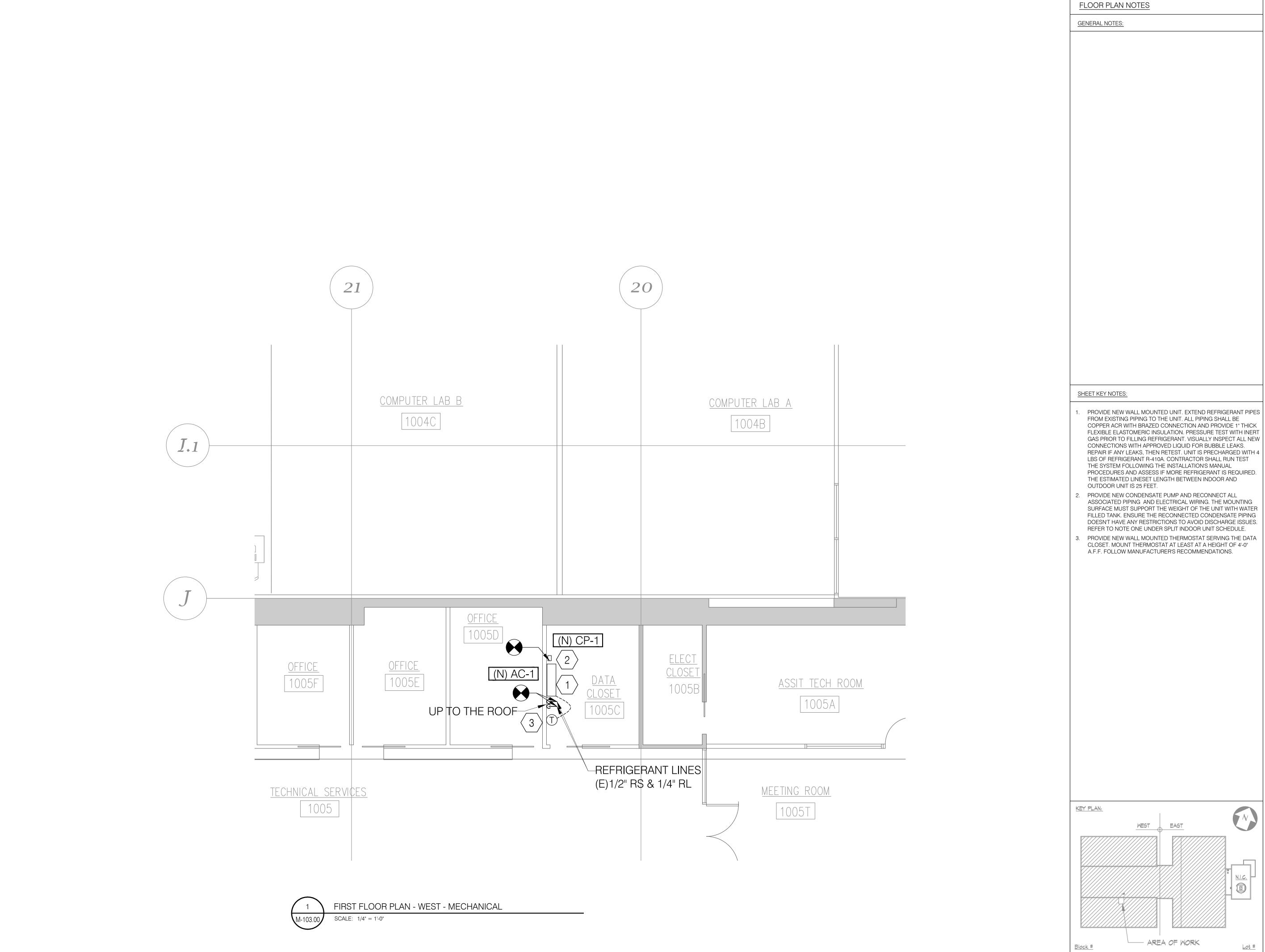
  4. REMOVE EXISTING REMOTE CONTROLLER MOUNT.

AREA OF WORK

Lot##







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# WEST EAST

AREA OF WORK

FIRST FLOOR PLAN - WEST MECHANICAL

M SHEET 07 OF 08

						SPLIT INDOOR UI	NIT SCHEDULE						
					COOLING RA	ATED @ 95 °F	UNIT ELEC	TRICAL DATA (POWERED BY OUTD	OOR UNIT)		BASIS OF	DESIGN	
UNIT MARK	LOCATION	NOMINAL TONS	SUPPLY AIR CFM	MOTOR (HP)	TOTAL COOLING CAPACITY (MBH)	SENSIBLE COOLING CAPACITY (MBH)	MCA (A)	FLA (A)	V/PH/HZ	CONTROLS	MANUFACTURER	MODEL	NOTES
AC-1	SERVER ROOM	1.5	425	30 W	18.0	12.2	1	0.33	208/1/60	THERMOSTAT	MITSUBISHI	TPKA0A0181HA70A	SEE NOTE

. PROVIDE CONDENSATE DRAIN PUMP (N) CP-1, UL LISTED, 115V/1/60, 1/30HP, 1.5A. PROVIDE SAFETY SWITCH AND CHECK VALVE LITTLE GIANT MODEL VCMA-20ULS OR EQUIVALENT MANUFACTURER'S SUCH AS DIVERSITECH, BECKETT, OR MICROBLUE (FASCIA KIT).

2. UNIT SHALL USE R-410A REFRIGERANT. 3. PROVIDE DIGITAL WALL MOUNTED PROGRAMMABLE THERMOSTAT.

4. EXISTING REFRIGERANT PIPING IS EXISTING TO REMAIN AND TO BE REUSED FOR UNIT CONNECTIONS. ANY SUBSTITUTIONS TO BASIS OF DESIGN MANUFACTURER THAT REQUIRE DIFFERENT REFRIGERANT PIPING SHALL BE AT CONTRACTOR'S EXPENSE.

5. SUCTION AND LIQUID LINE SHALL BE Ø1/2" AND Ø1/4" RESPECTIVELY. PRE-FLUSH TO REMOVE ANY LOOSE DEBRIS BEFORE CONNECTING REFRIGERANT PIPING.

								SPLIT OU	JTDOOR UNIT SC	HEDULE								
UNIT MARK	LOCATION	INDOOR UNIT SERVED	COC	DLING		COMPRESSOR			CONDENSER FAN		EER	CEED		ELECTRICAL DATA		APPROX. WEIGHT (LBS)	BASIS O	F DESIGN
ONIT WARK	LOCATION	INDOOR OINII SERVED	NOMINAL TONS	AMBIENT TEMP (°F)	QTY.	RLA	LRA	QTY.	HP	FLA	EEN	SEER	V/PH/HZ	MCA (A)	MOCP (A)	ALTHOX. WEIGHT (EBS)	MANUFACTURER	MODEL
ACCU-1	ROOF	AC-1	1.5	95	1	7	12.0	1	46 W	0.5	9.9	18.5	208/1/60	11	28	99	MITSUBISHI	TRUYA0181KA70NA

. PROVIDE UNIT WITH THE FOLLOWING

NEMA RATED INTEGRAL DISCONNECT SWITCH. FRONT END WIND BAFFLES REQUIRED TO OPERATE DOWN TO 0 °F.

UNIT SHALL USE R-410A REFRIGERANT. SUBSTITUTE MANUFACTURER IS RESPONSIBLE FOR COMPLYING WITH APPLICABLE EPA SNAP RULE

. CONDENSING UNITS MUST BE INVERTER COMPRESSORS.

5. EXISTING REFRIGERANT PIPING IS EXISTING TO REMAIN AND TO BE REUSED FOR UNIT CONNECTIONS. ANY SUBSTITUTIONS TO BASIS OF DESIGN MANUFACTURER THAT REQUIRE DIFFERENT REFRIGERANT PIPING SHALL BE AT CONTRACTOR'S EXPENSE.

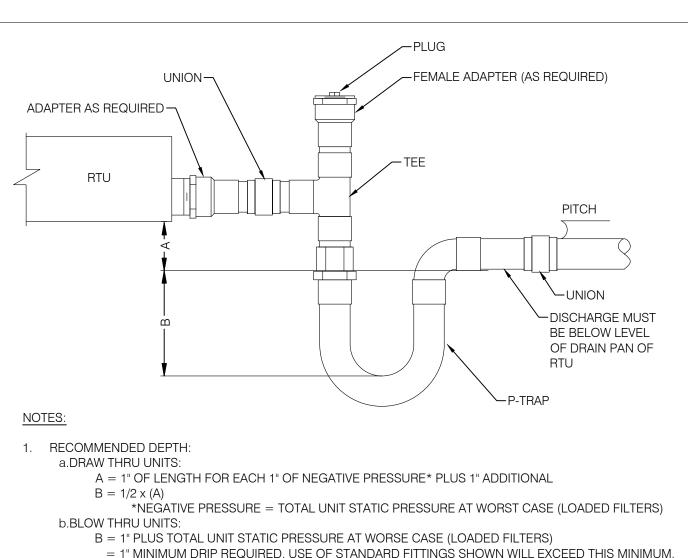
	HOODED GRAVITY RELIEF VENT SCHEDULE											
UNIT MARK	LOCATION	TYPE	AIR FLOW (CFM)	STATIC PRESSURE (IN WC)	THROAT AREA (SQ.FT)	THROAT VELOCITY (FPM)	THROAT DIMENSION (IN)			BASIS OF	NOTES	
							LENGTH	WIDTH	HEIGHT	MANUFACTURER	MODEL	
GV-1	ROOF - EAST	RELIEF	2700	0.042	12.5	420	60	30	5	GREENHECK	FGR	SEE NOTE
NOTES:												

I. UNIT SHALL BE INSTALLED AS PER MANUFACTURER RECOMMENDATION.

PROVIDE THE FOLLOWING:

- NEW EXTENDED ROOF CURB. REFER TO ARCHITECTURAL DRAWINGS 18/A-502.00

- GALVANIZED BIRD SCREEN AT HOOD PANEL OPENING

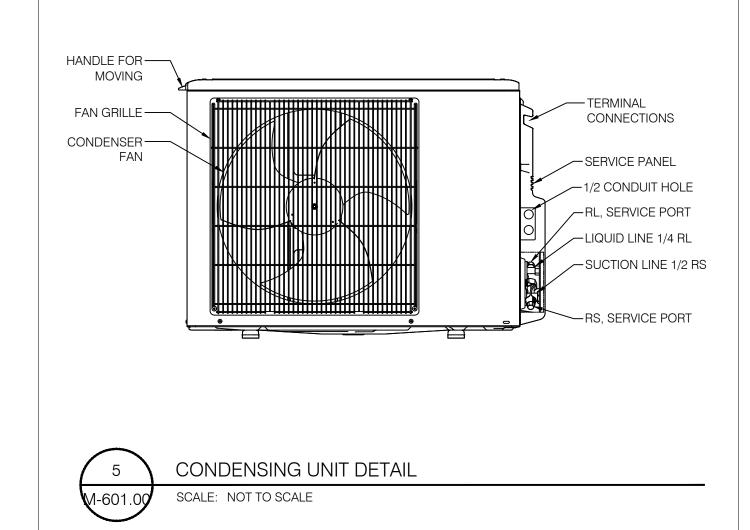


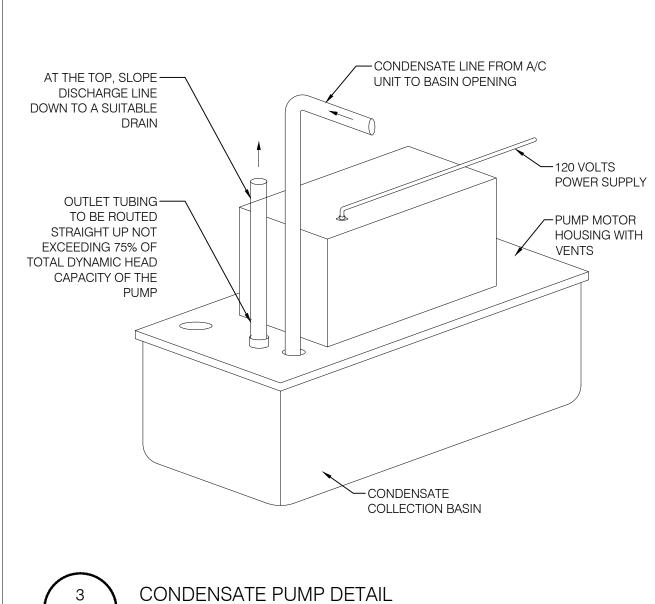
= 1" MINIMUM DRIP REQUIRED. USE OF STANDARD FITTINGS SHOWN WILL EXCEED THIS MINIMUM.

PITCH CONDENSATE DRAIN FOR PROPER RUN-OFF AND DISCHARGE TO NEAREST ROOF DRAIN.

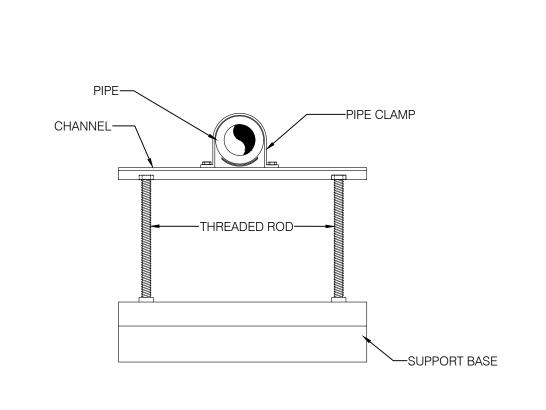
3. SUPPORT DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW. 4. MANUALLY PRIME FILL TRAP BEFORE START-UP TO FORM INITIAL DRAIN SEAL.



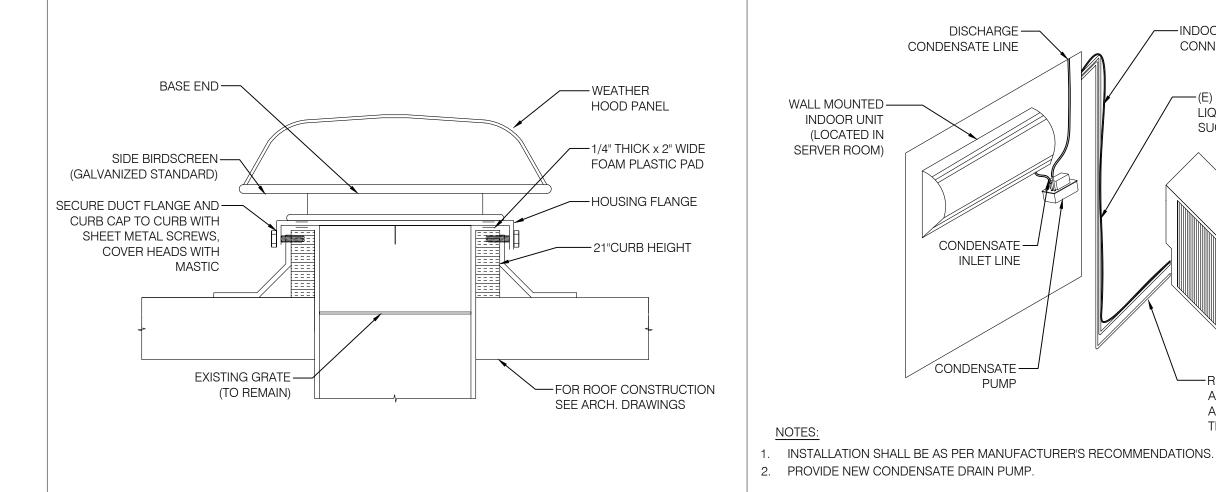




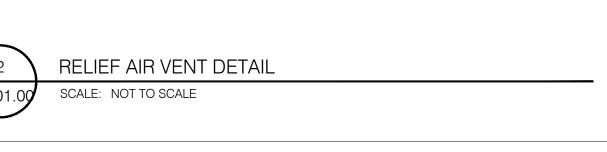
SCALE: NOT TO SCALE

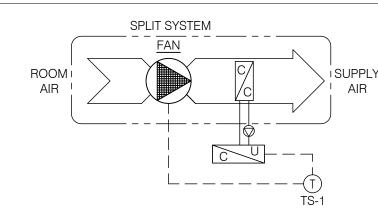












#### DUCTLESS SPLIT SYSTEM (AC) CONTROL DIAGRAM

A. WHENEVER THE SPACE TEMPERATURE IS ABOVE THE THERMOSTAT SET POINT OF 78°F (ADJ.). THE THERMOSTAT SHALL START THE FAN AND CYCLE THE COMPRESSOR IN COOLING AS REQUIRED TO MAINTAIN THE SET POINT. UPON DROP IN TEMPERATURE BELOW SETPOINT, REVERSE SHALL OCCUR.

B. SPACE TEMPERATURE CONTROL: THE OUTDOOR UNIT SHALL MODULATE ITS INTERNAL LINEAR EXPANSION VALVE (LEV) TO MAINTAIN THE TEMPERATURE SET POINT VIA THE INDOOR UNIT'S INTERNAL CONTROLS. THE SET POINT IS ADJUSTABLE/SCHEDULED AT THE REMOTE CONTROLLER.

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#### MEP Engineer

—INDOOR/OUTDOOR

LIQUID &

CONNECTION CORD

—(E) REFRIGERANT

SUCTION PIPES

**OUTDOOR UNIT** (LOCATED ON

THE ROOF)

RE-CONNECT REFRIGERANT LINES

AFTER PERFORMING VACCUM

AND PRESSURE LEAK

TEST PROCEDURES

DISCHARGE -

CONDENSATE —

INLET LINE

CONDENSATE -

SPLIT SYSTEM DETAIL

SCALE: NOT TO SCALE

CONDENSATE LINE

WALL MOUNTED —

INDOOR UNIT

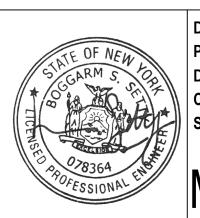
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## MECHANICAL SCHEDULES, CONTROLS AND DETAILS



M SHEET 08 OF 08

#### GENERAL PLUMBING NOTES 1. ALL WORK SHALL COMPLY WITH THE 2020 PLUMBING CODE OF NEW YORK STATE. 2. THE DRAWINGS ARE DIAGRAMMATIC ONLY. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS OF THE BUILDING AND EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT. OBTAIN AND PAY FOR ALL PERMITS, FEES AND TAXES. 4. IN ADDITION, PROVIDE FOR ANY SITE DPW PERMIT AND NOTIFICATION. MAKE NO CHANGES WITHOUT THE WRITTEN PERMISSION FROM THE SUCF. PROVIDE PROPER ARRANGEMENT OF PIPE, FIXTURES, ETC. TO CONNECT APPROVED EQUIPMENT IN A PROPER AND APPROVED MANNER. FOLLOW EQUIPMENT MANUFACTURER'S DETAILED INSTRUCTIONS AND THE CONTRACT DOCUMENTS. NOTIFY THE SUCF BEFORE PROCEEDING WITH ALL WORK. NO EQUIPMENT INSTALLATION OR CONNECTIONS SHALL BE MADE IN A MANNER THAT VOIDS THE MANUFACTURER'S WARRANTY. MAINTAIN WORK AREA CLEAN AT ALL TIMES DURING CONSTRUCTION. AFTER COMPLETING INSTALLATION OF WORK, CLEAN ALL FIXTURES OF ALL RUBBISH, PLASTER, DIRT AND OTHER DEBRIS. TEST ALL SYSTEMS. ALL FIXTURES SHALL OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. REPORT ANY DEFICIENCIES TO THE SUCF. 9. TEST ALL PIPING SYSTEMS AT DESIGN PRESSURES FOR A PERIOD OF TIME AS PRESCRIBED BY THE LOCAL AUTHORITIES HAVING JURISDICTION. 10. INSTALL ALL STORM PIPING 3" AND LARGER WITH A MINIMUM SLOPE OF 1/8" FALL PER 1'-0" OF RUN. 11. INSTALL ALL STORM PIPING 2 1/2" AND SMALLER WITH A MINIMUM SLOPE OF 1/4" FALL PER 1'-0" OF RUN. GENERAL PLUMBING REMOVAL NOTES WHERE EXISTING PLUMBING FIXTURES ARE INDICATED TO BE REMOVED, REMOVE EXISTING FIXTURE, TRIM, AND ALL ASSOCIATED PIPING AND HARDWARE. REMOVE SERVICE BRANCHES BACK TO NEAREST MAIN AND CAP. DEAD LEGS SHALL NOT EXCEED 2'-0" IN LENGTH. PERFORM REMOVALS IN SUCH A MANNER THAT WILL NOT DAMAGE ADJOINING SURFACES OR EQUIPMENT INDICATED TO REMAIN. WHERE SURFACES MUST BE REMOVED TO COMPLETE REMOVAL, REPLACE AND REPAIR THE SURFACES BACK TO THE ORIGINAL CONDITION. WHERE REMOVAL WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, NOTIFY THE SUCF PRIOR TO PROCEEDING WITH REMOVAL. COORDINATE ALL REMOVALS REQUIRED WITH SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTION .WHERE SYSTEMS MUST REMAIN IN SERVICE DURING CONSTRUCTION, PROVIDE MEANS AND METHODS OF ISOLATING THE SYSTEMS TO BE REMOVED WITH THE SYSTEMS TO REMAIN IN SERVICE. MEANS AND METHODS SHALL INCLUDE TEMPORARY CAPS AND ISOLATION VALVES. DESIGN CRITERIA 2020 EXISTING BUILDING CODE OF NEW YORK STATE 2020 BUILDING CODE CODE OF NEW YORK STATE

2020 PLUMBING CODE CODE OF NEW YORK STATE

NEW YORK STRETCH ENERGY CODE

2020 NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE (NYSECCC) WITH

### PLUMBING SYMBOLS DETAIL ANNOTATIONS -DETAIL NUMBER P-701 -WHERE THE DETAIL IS DRAWN POINT OF CONNECTION POINT OF DISCONNECTION DRAINS **ROOF DRAIN** ØRD EMERGENCY ROOF DRAIN REMOVE EXISTING ROOF DRAIN Ø(R)RD (E)VTR EXISTING VENT THROUGH ROOF **ABBREVIATIONS EXISTING** REMOVE ERD EMERGENCY ROOF DRAIN RD **ROOF DRAIN** STORM WATER SF / SQ FT SQUARE FEET TYP TYPICAL VTR VENT THRU ROOF

	PLUMBING DRAWING LIST										
HEET	DRAWING	TITLE									
1	P-001.00	GENERAL NOTES, SYMBOLS & ABBREVIATIONS									
2	PD-101.00	ROOF DEMOLITION PLAN - EAST - PLUMBING									
3	PD-102.00	ROOF DEMOLITION PLAN - WEST - PLUMBING									
4	P-101.00	ROOF PLAN - EAST - PLUMBING									
5	P-102.00	ROOF PLAN - WEST - PLUMBING									
6	P-701.00	PLUMBING SCHEDULES AND DETAILS									

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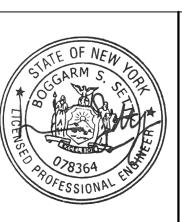
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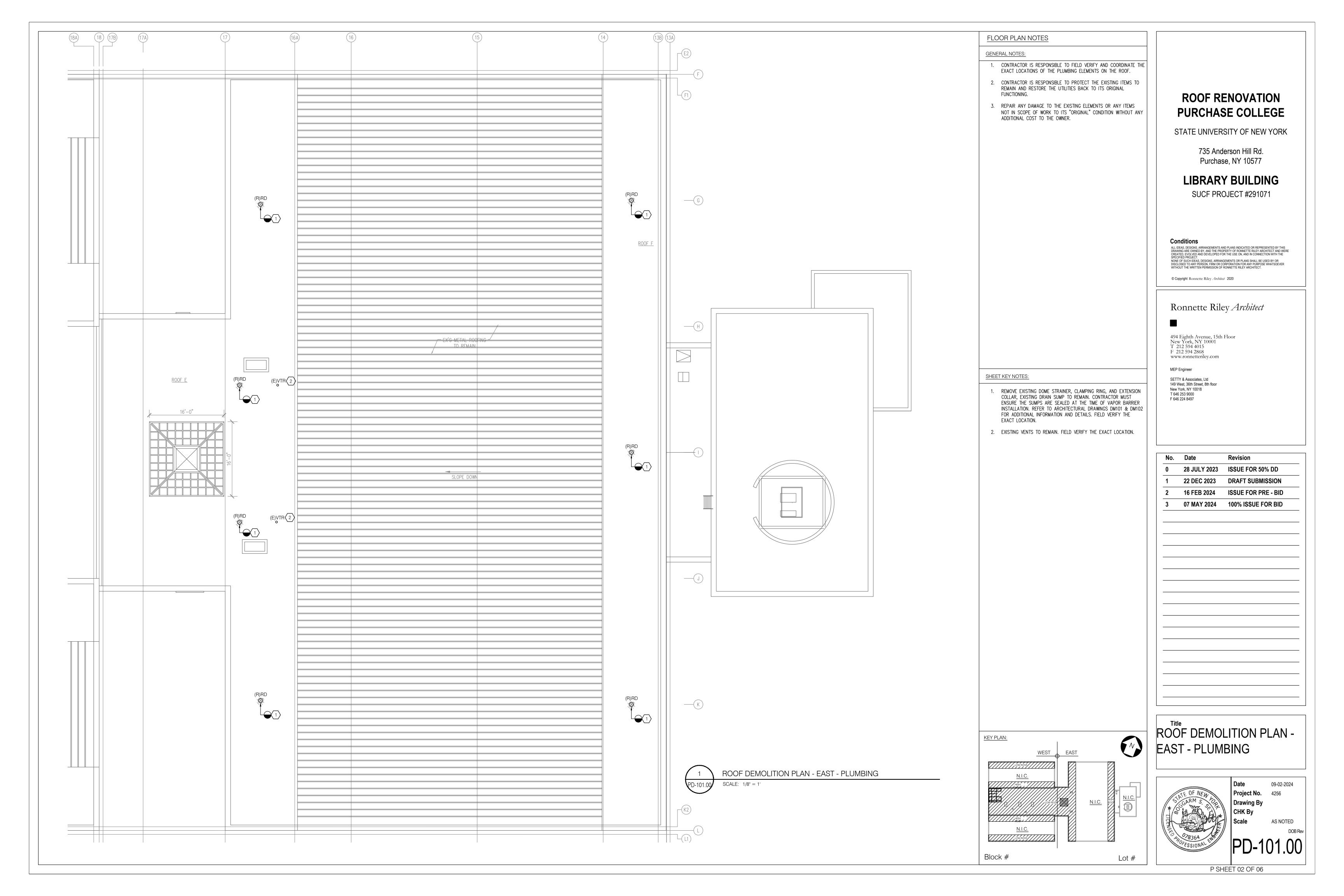
# GENERAL NOTES, SYMBOLS & ABBREVIATIONS

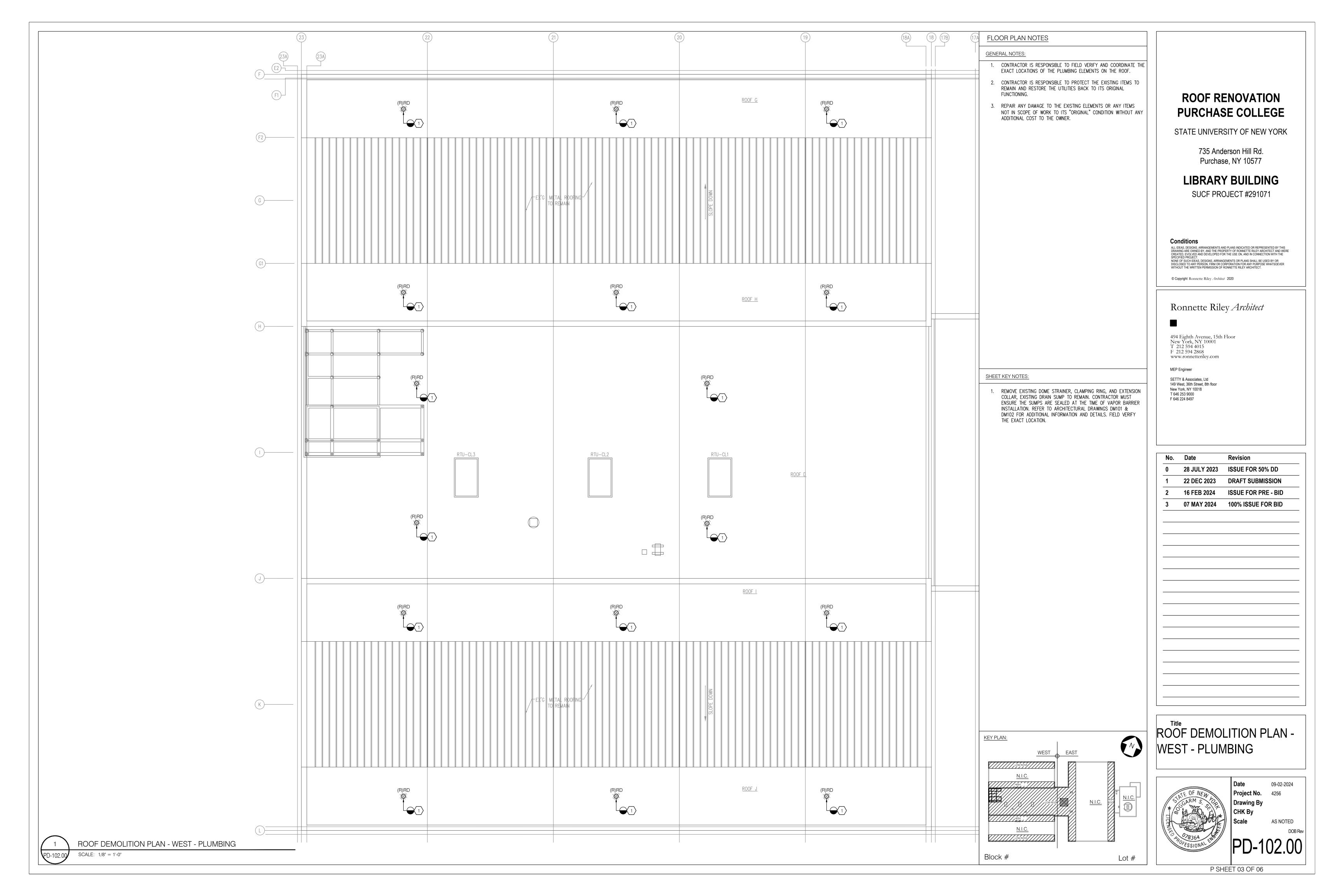


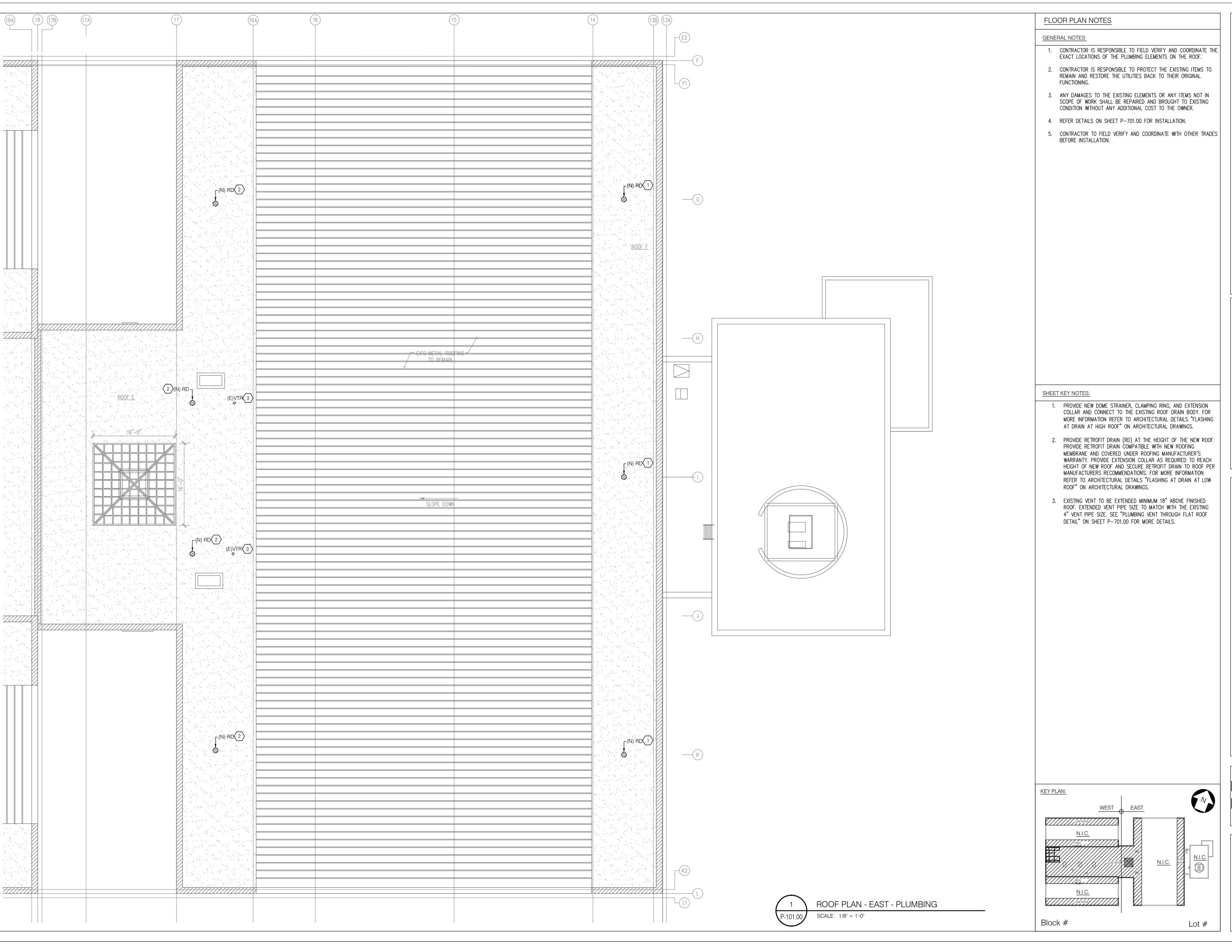
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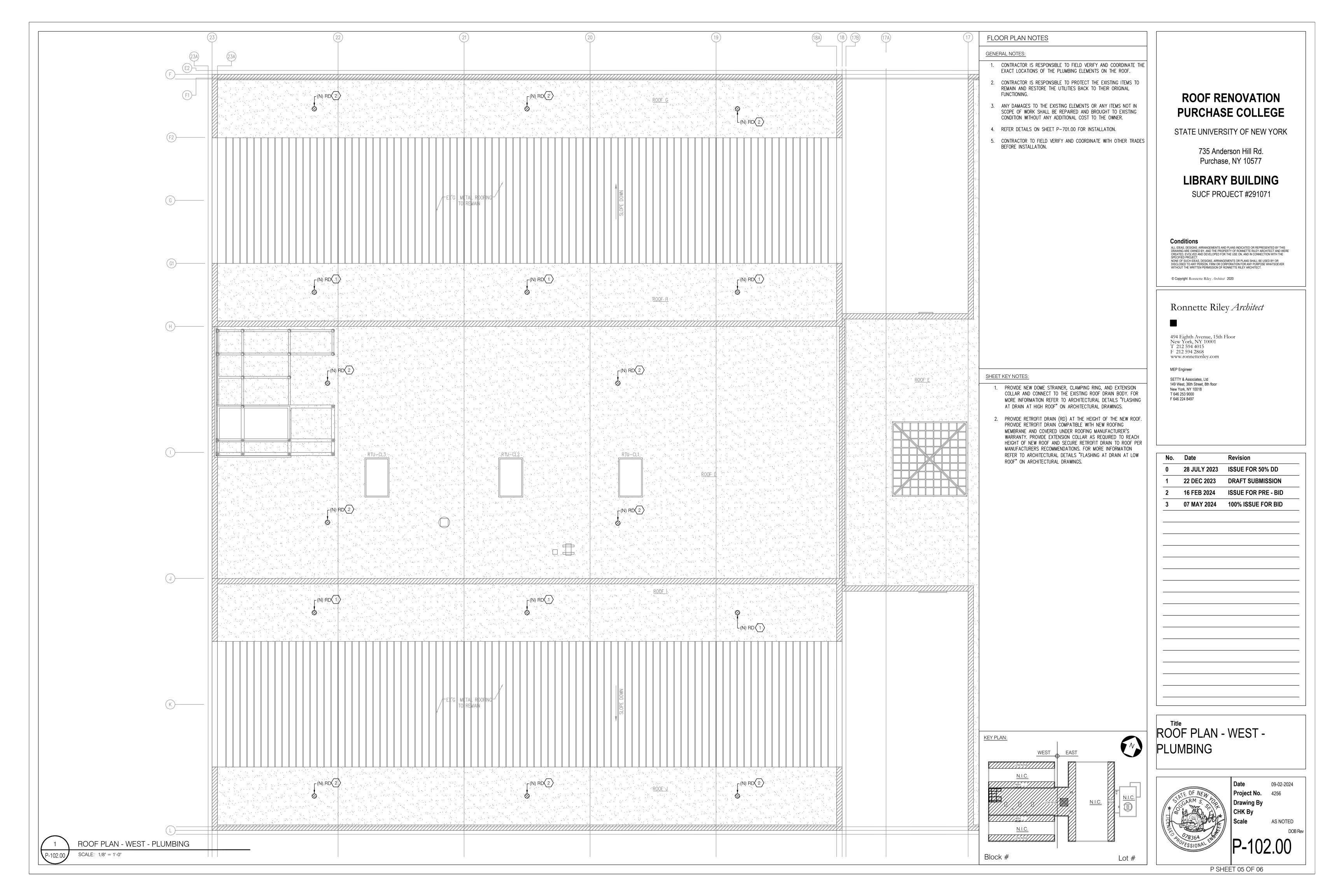
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ROOF PLAN - EAST -PLUMBING



Oate 09-02-2024
Project No. 4256
Drawing By
CHK By
Scale AS NOTED

P SHEET 04 OF 06



ID RD	ROOF DRAIN SCHEDUL  FIXTURE  ALUMINIUM RETROFIT DRAIN	REMARKS  PROVIDE RETROFIT DRAIN COVERED UNDER ROOFING MANUFACTURER'S WARRANTY, ACCEPTED MANUFACTURER'S FOUND IN SPECIFICATIONS. PROVIDE DOME STRAINER TO BE INSTALLED ON TOP OF RETROFIT DRAIN.
		TOWER TOD. CHANGESCERIE COPPOSITION OF SEASON FROM THE PROPERTY OF SEASON FROM THE PRO

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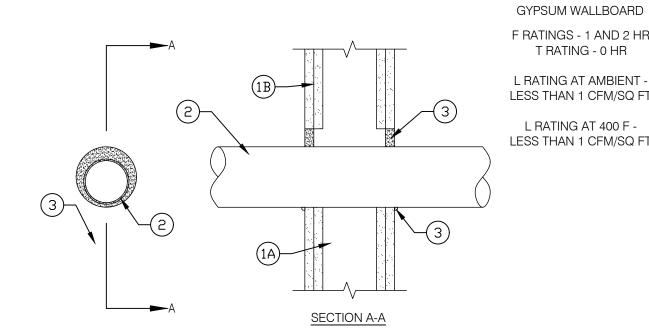
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Revision

## JMBING SCHEDULES AND TAILS

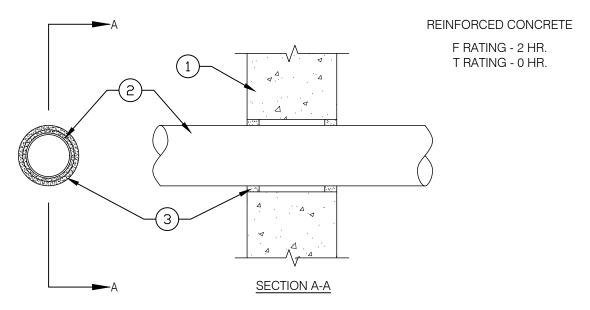


P SHEET 06 OF 06



- 1. WALL ASSEMBLY THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- 1.1. STUDS WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE AND SPACED MAX 24 IN. OC.
- 1.2. GYPSUM BOARD\* THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IN WOOD STUD WALLS IS 8 IN. MAX DIAM OF OPENING IN STEEL STUD WALLS IS 14 IN. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
- 2. THROUGH PENETRANT ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM. THE SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE A MIN 0 IN. (POINT CONTACT) TO A MAX 2 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
- 2.1. STEEL PIPE NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.
- 2.2. IRON PIPE NOM 12 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
- 2.3. CONDUIT NOM 4 IN. DIAM (OR SMALLER) ELECTRICAL METALLIC TUBING, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT
- 2.4. COPPER TUBING NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
- 2.5. COPPER PIPE NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- 3. FILL, VOID OR CAVITY MATERIAL\* CAULK MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 3/8 IN. DIAM BEAD OF FILL MATERIAL APPLIED AT POINT CONTACT LOCATION AT THE PENETRANT/GYPSUM BOARD INTERFACE ON BOTH

PENETRATIONS THROUGH STRUCTURE SHALL MAINTAIN FIRE RESISTANCE AND COMPLY WITH 2020 BUILDING CODE OF NEW YORK STATE. ALL ANNULAR SPACES BETWEEN RATED STRUCTURE/ENCLOSURE SHALL BE FILLED WITH APPROVED MATERIAL COMPLYING WITH REQUIREMENTS OF UL 1479.



- 1. WALL ASSEMBLY MIN 6 IN. (152 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS\*. MAX DIAM OF OPENING IS 25 IN. (635 MM). SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR THE NAMES OF MANUFACTURERS.
- 2. THROUGH PENETRANT ONE METALLIC PIPE, TUBING OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPES, TUBING OR CONDUITS AND PERIPHERY OF OPENING IS DEPENDENT UPON THE TYPE AND MAX DIAM OF THE THROUGH PENETRANT AS TABULATED BELOW. PIPE, TUBING OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES,
- TUBING OR CONDUITS MAY BE USED: 2.1. STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
- 2.2. IRON PIPE NOM 24 IN. (610 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
- 2.3. COPPER TUBING NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
- 2.4. COPPER PIPE NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- 2.5. CONDUIT NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING. NOM 6 IN. (152 MM) DIAM GALV STEEL CONDUIT OR NOM 1 IN. DIAM FLEXIBLE STEEL CONDUIT.

YPE OF THROUGH PENETRANT	MAX DIAM OF THROUGH PENETRANT, IN. (MM)	MIN & MAX ANNULAR SPACE, IN. (MM)
TEEL OR IRON PIPE	4 (102)	0, 1-1/2 (38)
TEEL TUBING OR CONDUIT	4 (102)	0, 1-1/2 (38)
TEEL CONDUIT	6 (152)	1/8 (3), 1/2 (13)
TEEL OR IRON PIPE	24 (610)	1/8 (3), 1/2 (13)
OPPER TUBING OR PIPE	6 (152)	1/8 (3), 1/2 (13)

3. FILL, VOID OR CAVITY MATERIAL\* - SEALANT - MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN THROUGH PENETRANT AND CONCRETE, A MIN 3/8 IN. (10 MM) DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/THROUGH PENETRANT INTERFACE ON BOTH SURFACES OF WALL.

PENETRATIONS THROUGH STRUCTURE SHALL MAINTAIN FIRE RESISTANCE AND COMPLY WITH 2020 BUILDING CODE OF NEW YORK STATE. ALL ANNULAR SPACES BETWEEN RATED STRUCTURE/ENCLOSURE SHALL BE FILLED WITH APPROVED MATERIAL COMPLYING WITH REQUIREMENTS OF UL 1479.



SCALE: NOT TO SCALE

THROUGH-PENETRATION FIRE STOP DETAILS

#### ELECTRICAL GENERAL NOTES

- INSTALLATION OF ALL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING
  - A. 2020 NY STRETCH ENERGY CODE REFERENCING ASHRAE 90.1-2016.
- B. NATIONAL ELECTRICAL CODE 2017. C. 2020 BUILDING CODE OF NEW YORK STATE.
- D. SUCF DESIGN DIRECTIVES.

REGULATIONS, CODES, ETC.:

- CONTRACTOR TO PROVIDE SUFFICIENT NOTICE TO THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK TO ALLOW ADEQUATE TIME FOR COORDINATION OF EXISTING BUILDING ACTIVITIES WITH THE CONSTRUCTION WORK.
- CONTRACTOR TO INCLUDE IN THEIR SCOPE ALL LABOR, MATERIALS, SERVICES, APPARATUS AND SHOP DRAWINGS IN ADDITION TO THE CONTRACT DOCUMENTS AS REQUIRED TO COMPLY WITH ALL APPLICABLE GOVERNING LAWS, CODES AND JURISDICTION REQUIREMENTS. PROVIDE ELECTRICAL EQUIPMENT WITH ALL ASSOCIATED ACCESSORIES, BRANCH CIRCUIT WIRING AND CONDUIT INFRASTRUCTURE AS REQUIRED TO ENSURE A COMPLETE AND OPERATIONAL
- 4. ALL MATERIALS AND WORK SHALL BE ACCORDING TO PROJECT SPECIFICATIONS.
- IF MATERIAL OR EQUIPMENT IS INSTALLED BEFORE IT IS APPROVED, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO ADDITIONAL CHARGE OR IF IN THE OPINION OF THE ARCHITECT OR ENGINEER, THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE DRAWINGS
- ALL SLAB PENETRATIONS MUST BE X-RAYED OR SCANNED WITH A RADAR PRIOR TO CORE DRILLING. OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO ANY CORE DRILLING.
- PROVIDE FIRESTOPPING MATERIALS TO MAINTAIN INTEGRITY OF THE FIRE RATED CONSTRUCTION WHERE CONDUITS PASS THROUGH WALLS AND FLOORS.
- 8. CONTRACTOR TO PROVIDE ALL EQUIPMENT WITH INTEGRAL OR REMOTE MOUNTED ACCESSORY DEVICES WITH ALL NECESSARY COMPONENTS, BRANCH CIRCUIT WIRING AND CONDUITS TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM. MAKE ALL FINAL CONNECTIONS TO THE EQUIPMENT.
- 9. ELECTRICAL SYSTEMS SHALL BE GROUNDED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- 10. NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. PROVIDE THE NUMBER AND SIZE AS NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER SPECIFICALLY INDICATED ON PLAN OR NOT.
- 11. UNLESS OTHERWISE NOTED, ALL CONDUCTORS SHALL BE #12 AWG MINIMUM. PROVIDE EACH CIRCUIT HOMERUN WITH A DEDICATED NEUTRAL CONDUCTOR AND INSULATED EQUIPMENT GROUNDING CONDUCTOR.
- 12. COORDINATE WITH MECHANICAL, PLUMBING AND OTHER TRADES TO PROVIDE ALL EQUIPMENT ASSOCIATED WITH THEIR RESPECTIVE TRADES WITH NECESSARY WIRING AND CONDUIT INFRASTRUCTURE FOR ALL SENSORS, CONTROL SYSTEMS AND REMOTE MOUNTED CONTROL PANELS AS REQUIRED.
- 13. CONTRACTOR TO PROVIDE DEDICATED CIRCUIT FOR CONNECTION TO EACH MECHANICAL, PLUMBING AND MISCELLANEOUS EQUIPMENT CONTROL PANELS AS REQUIRED. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL DRAWINGS
- 14. CONTRACTOR TO COORDINATE ELECTRICAL WORK TO AVOID INTERFERENCE BETWEEN ALL OTHER TRADES.
- A. DETERMINE INTERFERENCE BEFORE WORK IS FABRICATED OR INSTALLED. THE CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH ALL DETAILS OF WORK AND WORKING CONDITIONS AND COORDINATE WORK DURING PRELIMINARY STAGES TO ENSURE ACTUAL ERECTION WILL PROCEED WITHOUT INTERFERENCE. COORDINATION IS OF PARAMOUNT IMPORTANCE AND NO REQUESTS FOR ADDITIONAL PAYMENT WILL BE CONSIDERED WHERE REQUEST IS BASED ON INTERFERENCE.
- B. WHERE JOB CONDITIONS REQUIRE REASONABLE DEVIATIONS FROM CONTRACT DOCUMENTS. MAKE DEVIATIONS WITHOUT ADDITIONAL COST TO OWNER, AFTER OBTAINING APPROVAL OF ARCHITECT.
- C. PROVIDE MAXIMUM PRACTICAL SPACE FOR OPERATION, REPAIR, REMOVAL, AND TESTING OF ELECTRICAL EQUIPMENT. DEVIATIONS MAY BE MADE TO PROVIDE REQUIRED ACCESSIBILITY PROVIDED THEY ARE APPROVED BY THE OWNERS OR THE ARCHITECTS.
- D. KEEP CONDUITS, WIREWAYS AND SIMILAR ITEMS AS CLOSE AS POSSIBLE TO CEILING, WALLS AND COLUMNS IN ORDER TO TAKE UP MINIMUM AMOUNT OF SPACE. ALL WORK TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. E. PROVIDE OFFSETS, FITTINGS AND SIMILAR ITEMS NECESSARY TO ACCOMPLISH REQUIREMENTS OF COORDINATION WITHOUT ADDITIONAL EXPENSE TO
- F. PROVIDE ACCESS TO AND CLEARANCES AROUND EQUIPMENT AS REQUIRED BY THE N.E.C
- 15. CONTRACTOR IS RESPONSIBLE FOR ALL ASPECTS OF BUILDING POWER SHUTDOWN AND TIE IN. THE CAMPUS WILL NOT BE PERFORMING ANY MEDIUM OR HIGH VOLTAGE ELECTRICAL SHUTDOWNS AT THE BUILDING. THE MANHOLE. THE LOOP, OR THE MAIN CAMPUS SWITCHGEAR. CONTRACTOR TO COORDINATE TO OPERATE THE EXISTING LOOP SWITCHES WITH THE CAMPUS.
- ALL CONDUIT WORK IN EXPOSED CEILING AREAS SHALL BE ROUTED ALONG THE BOTTOM SURFACE OF THE WAFFLE CEILING IN LINE WITH THE WEBS. INSTALL CONDUITS PARALLEL TO WAFFLE STRUCTURE.

#### ELECTRICAL GENERAL DEMOLITION NOTES

- 1. GENERAL:
- A. THE GENERAL EXTENT OF EXISTING ELECTRICAL WORK TO BE DISMANTLED AND REMOVED OR RELOCATED IS INDICATED ON THE DRAWINGS.
- B. ALL COMPONENTS ASSOCIATED WITH SYSTEMS AND EQUIPMENT TO BE REMOVED OR RELOCATED MAY NOT BE SPECIFICALLY INDICATED. REMOVE ALL ASSOCIATED ELECTRICAL ACCESSORIES AND COMPONENTS INCLUDING BUT NOT LIMITED TO HANGERS, WIRING, CONDUIT, BOXES AND ALL ADDITIONAL MISCELLANEOUS ITEMS RELATED TO THE EXISTING EQUIPMENT INDICATED TO BE REMOVED OR RELOCATED. REMOVE ALL ASSOCIATED WIRING AND CONDUIT BACK TO THE SOURCE OF SUPPLY IN EXISTING CIRCUITS WHICH ARE TO BE DEMOLISHED. UNLESS SPECIFICALLY INDICATED, NO EQUIPMENT, MATERIALS OR ASSOCIATED COMPONENTS SHALL BE ABANDONED IN PLACE.
- C. ABANDON ALL CONDUITS CONCEALED IN CONCRETE WALLS OR SLABS. REMOVE ALL WIRING FROM ABANDONED CONDUITS BACK TO SOURCE OF
- 2. DISPOSAL OF DEMOLITION:
- A. CONTRACTOR SHALL CLEAN THE PROJECT SITE AT THE END OF EACH WORKING DAY. NOTIFY THE BUILDING OWNER PRIOR TO DISPOSAL OF DEMOLISHED MATERIALS TO ALLOW SALVAGE OF ANY USABLE MATERIALS. AFTER INSPECTION FROM THE OWNER'S REPRESENTATIVE, ALL UNUSED MATERIALS SHALL BE REMOVED FROM THE JOB SITE WITH DISPOSAL IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS AND REGULATIONS.
- 3. PROTECTION:
- A. PROTECT FROM DAMAGE ALL EXISTING EQUIPMENT, DEVICES AND MATERIALS TO REMAIN. ANY EXISTING MATERIALS AND EQUIPMENT DAMAGED DURING THE COURSE OF THE CONSTRUCTION PROCESS SHALL BE REPLACED WITH MATERIALS AND EQUIPMENT CONFORMING TO EXISTING SPECIFICATIONS AT NO ADDITIONAL COST TO THE OWNER.
- 4. TERMINATION AND PATCHING:
- DISCONNECT EXISTING EQUIPMENT AND DEVICES WITH ASSOCIATED ACCESSORIES, CONDUIT AND WIRING BACK TO SOURCE OF SUPPLY.
- B. WHERE EXISTING FLOORS, WALLS AND ROOFS MUST BE CUT OR ARE DAMAGED DURING THE CONSTRUCTION PROCESS, PATCH THE CUT OR DAMAGED AREAS TO MATCH THE ADJACENT CONSTRUCTION.
- C. THE CONTINUITY OF ALL EXISTING CONDUITS AND FEEDERS SERVICING AREAS AND EQUIPMENT TO REMAIN SHALL BE MAINTAINED. MODIFY THE EXISTING CIRCUITS IF REQUIRED IN ORDER TO MAINTAIN THE EXISTING CIRCUITRY.

#### 120V BRANCH CIRCUIT WIRING CONDUCTOR SIZE

DEPENDING ON BRANCH CIRCUIT RUN LENGTH FROM PANELBOARD TO THE LAST DEVICE ON THE BRANCH CIRCUIT, THE CONTRACTOR SHALL INCREASE THE BRANCH CIRCUIT WIRE SIZE AS PER THE TABLE BELOW.

MAXIMUM #10 WIRE SHALL BE USED FOR GENERAL RECEPTACLE CIRCUIT WIRING.

LENGTH (FEET)	VOLTAGE (V)	AMPACITY (A)	WIRE SIZE (AWG TYP.)
0-66	120	20	#12
0-102	120	20	#10

#### ELECTRICAL SYMBOL LIST (STANDARD SYMBOLS, ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS)

\$ <sub>M</sub>	MOTOR RATED SWITCH WITH THERMAL OVERLOAD CURRENT PROTECTION, MOUNTED @ 48" AFF OR UNIT MOUNTED
Φ	WALL-MOUNTED DUPLEX RECEPTACLE, 20A, 125V, NEMA 5-20R

FUSIBLE DISCONNECT SWITCH

KEYED DRAWING NOTE EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULES FOR EQUIPMENT DESCRIPTION

#### **ABBREVIATIONS**

AFF

AHJ

ANSI

ASHRAE

AWG

CB

CU

DISC. SW.

DWG

E, EX

EMT

FAAP

FACP

FASP

FATC

GRS

HVAC

HWH

IECC

**IESNA** 

HORSE POWER

CONDITIONING

HERTZ

HOT WATER HEATER

ISOLATED GROUND

INTERNATIONAL ENERGY

ILLUMINATING ENGINEERING

SOCIETY OF NORTH AMERICA

CONSERVATION CODE

HEATING, VENTILATION AND AIR

INTERNATIONAL BUILDING CODE

(STANDARD ABBREVIATIONS, ALL ABBREVIA

NDARD ABBREVIATIONS, ALL ABBREVIAT	IONS MAY NOT	APPEAR ON THE DRAWINGS)
AMPERE AMERICANS WITH DISABILITIES ACT FUSE RATING IN AMPS	KCMIL KVA KW	THOUSANDS OF CIRCULAR MILS KILOVOLT-AMPS KILOWATT
ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION ALUMINUM AMERICAN NATIONAL STANDARDS	LM LTG	LUMEN LIGHTING
INSTITUTE AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS TRIP RATING IN AMPS AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE	MCA MCB MDP MISC MLO MOCP	MINIMUM CIRCUIT AMPS MAIN CIRCUIT BREAKER MAIN DISTRIBUTION PANEL MISCELLANEOUS MAIN LUGS ONLY MAXIMUM OVERCURRENT PROTECTION
CONDUIT CIRCUIT BREAKER COPPER	N NEC NEMA	NEW NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
EXISTING TO BE DEMOLISHED DISCONNECT SWITCH	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
DIVISION DRAWING	NFSS NL NTS	NON FUSED SAFETY SWITCH NIGHT LIGHT FIXTURE NOT TO SCALE
EXISTING TO REMAIN DEVICE ON EMERGENCY CIRCUIT ELECTRICAL METALLIC TUBING	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL FIRE ALARM SMOKE PURGE PANEL FIRE ALARM TERMINAL CABINET	P PH, Ø PNL	POLE PHASE PANEL
FULL LOAD AMPS FUSIBLE SAFETY SWITCH	R REC RR	RELOCATED AT NEW LOCATION RECEPTACLE REMOVE AND RELOCATE
GROUND GROUND FAULT INTERRUPTER GALVANIZED RESISTIVE CONDUIT	S/N SPD	SOLID NEUTRAL SURGE PROTECTIVE DEVICE

SURGE PROTECTIVE DEVICE SWBD SWITCHBOARD

T. XFMR TRANSFORMER UNDERWRITER'S LABORATORIES UON UNLESS OTHERWISE NOTED

WEATHERPROOF

VFD VARIABLE FREQUENCY DRIVE

#### SUBSCRIPTS

WP

RECEPTACLE OUTLETS AND JUNCTION BOX DEVICES MAY BE INDICATED WITH THE FOLLOWING SUBSCRIPTS:

GFI : GROUND FAULT INTERRUPTER

MD: MOTORIZED DAMPER

WP: WEATHER PROOF OUTLET WITH PROTECTIVE IN-USE COVER

	ELECT	RICAL DRAWING LIST
SHEET	DRAWING	TITLE
1	E-001.00	GENERAL NOTES, SYMBOLS & ABBREVIATIONS
2	ED-101.00	FIRST FLOOR DEMOLITION PLAN - WEST- ELECTRICAL
3	ED-102.00	ROOF DEMOLITION PLAN - WEST- ELECTRICAL
4	E-201.00	FIRST FLOOR POWER PLAN - WEST- ELECTRICAL
5	E-202.00	ROOF POWER PLAN - WEST- ELECTRICAL
6	E-501.00	ELECTRICAL RISER DIAGRAM AND SCHEDULES
7	E-601.00	PANEL SCHEDULES

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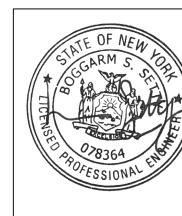
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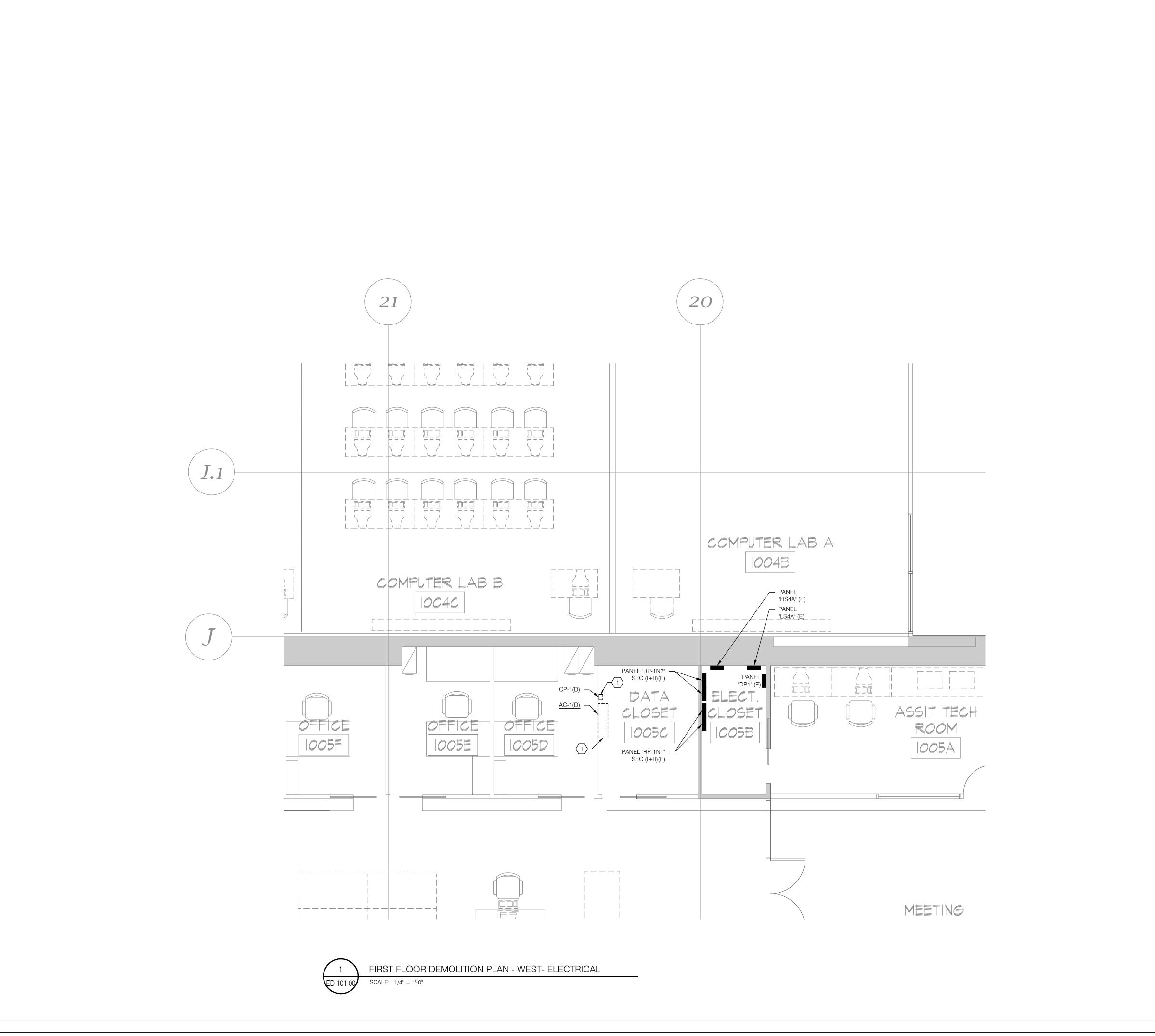
No. Date Revision 28 JULY 2023 ISSUE FOR 50% DD 22 DEC 2023 DRAFT SUBMISSION 16 FEB 2024 ISSUE FOR PRE - BID 07 MAY 2024 100% ISSUE FOR BID

# GENERAL NOTES, SYMBOLS & ABBREVIATIONS



09-02-2024 Drawing By

E SHEET 01 OF 07



#### FLOOR PLAN NOTES

#### GENERAL NOTES:

SHEET KEY NOTES:

- REFER TO THE ELECTRICAL COVER SHEET DRAWING FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- 2. REFER TO MECHANICAL DEMOLITION DRAWINGS FOR ADDITIONAL EQUIPMENT TO BE DEMOLISHED.
- FOR ALL DEMOLISHED EQUIPMENT AND DEVICES, REMOVE ALL ASSOCIATED ACCESSORIES, BRANCH CIRCUIT WIRING AND CONDUIT BACK TO SOURCE OF SUPPLY.
- I. COORDINATE WITH THE BUILDING ENGINEER TO VERIFY THE DEMOLISHED EQUIPMENT AND DEVICES WHICH ARE TO BE RETURNED TO BUILDING OWNER FOR STORAGE
- 5. ALL EXISTING DEVICES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS.
- 6. THE CONTINUITY OF EXISTING CIRCUITS SERVING EXISTING DEVICES AND EQUIPMENT TO REMAIN SHALL BE MAINTAINED.
- 7. UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL ELECTRICAL DEVICES SHOWN WITH A DASHED LINE INDICATE EXISTING EQUIPMENT TO BE DEMOLISHED. DEVICES SHOWN WITH A CONTINUOUS LINE INDICATE EXISTING EQUIPMENT TO REMAIN.

DISCONNECT AND REMOVE BRANCH CIRCUIT WIRING AND CONDUIT BACK TO

SOURCE OF SUPPLY, INCLUDING STARTERS, VFD'S AND DISCONNECT SWITCHES OF

MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWING MD-103.00 FOR MORE

INFORMATION. REMOVAL OF INDOOR UNIT IS BY DIVISION 23 AND REMOVAL OF

ELECTRICAL CONDUIT/DISCONNECT SWITCHES IS BY DIVISION 26.

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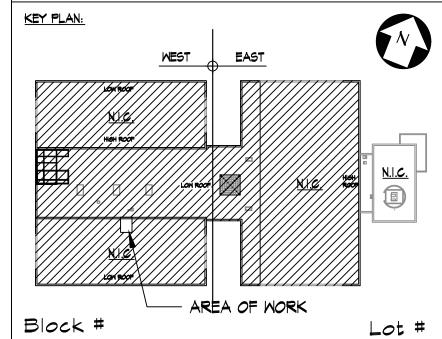
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3	07 MAY 2024	100% ISSUE FOR BID



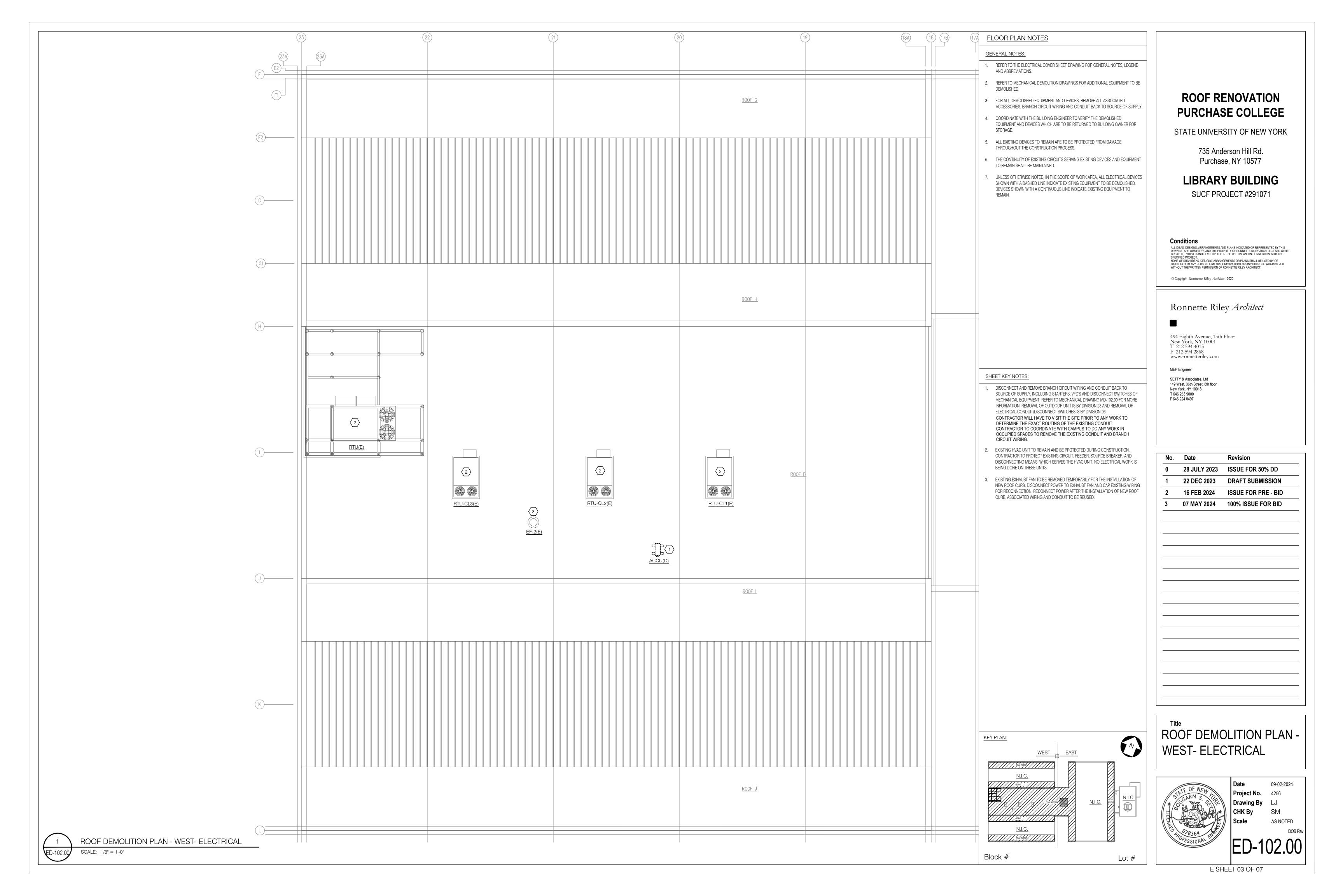
# FIRST FLOOR DEMOLITION PLAN - WEST- ELECTRICAL

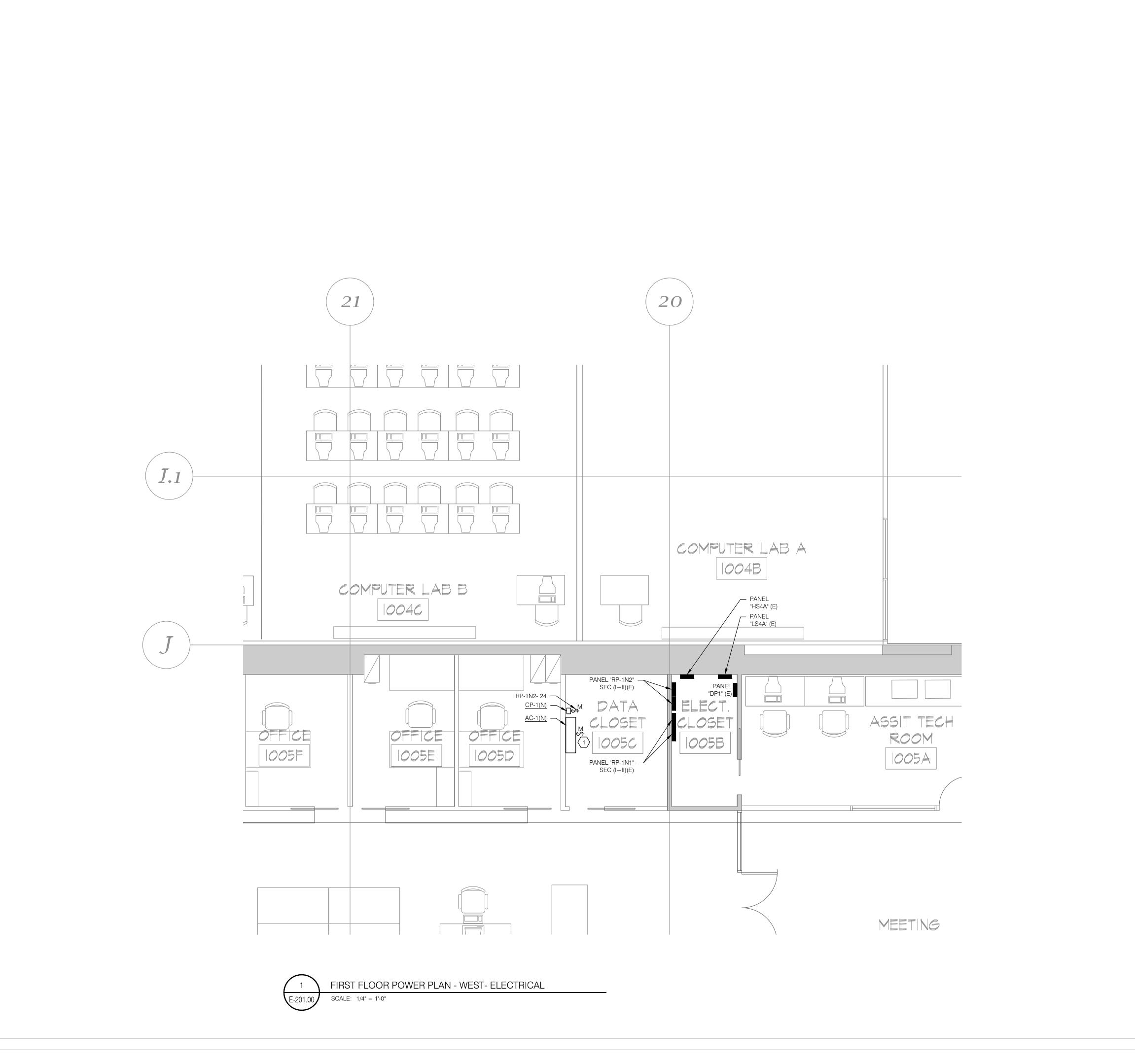


Date 09-02-202
Project No. 4256
Drawing By LJ
CHK By SM
Scale AS NOTE

ED-101.00

E SHEET 02 OF 07





#### FLOOR PLAN NOTES

SHEET KEY NOTES:

KEY PLAN:

Block #

- AREA OF WORK

POWERED THROUGH CORRESPONDING OUTDOOR CONDENSING

UNIT. CONTRACTOR TO PROVIDE (1) EMPTY CONDUIT FOR POWER AND (1)

EMPTY CONDUIT FOR CONTROLS BETWEEN INDOOR UNIT TO OUTDOOR UNIT.

#### GENERAL NOTES:

- REFER TO THE ELECTRICAL COVER SHEET DRAWING FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- 2. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL OUTLETS.
- 3. COORDINATE WITH CONTRACT DOCUMENTS FOR ALL OTHER DISCIPLINES AND TRADES FOR EXACT LOCATION OF ASSOCIATED EQUIPMENT.
- THE CONTINUITY OF EXISTING CIRCUITS SERVING EXISTING DEVICES AND EQUIPMENT TO REMAIN SHALL BE MAINTAINED.
- ALL NEW OUTLETS AND DEVICES MUST BE FLUSH MOUNTED WITH CONCEALED CONDUITS. ANY SURFACE MOUNTED OUTLETS, DEVICES AND CONDUITS IN THE SCOPE OF WORK AREA MUST BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
- ALL REUSED CIRCUIT NUMBERS INDICATED ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH THE AS-BUILT CONDITION OF THE EXISTING CIRCUITS SERVING THE AREA. CONTRACTOR TO VERIFY AND UPDATE THE CIRCUIT NUMBERS UTILIZED DURING CONSTRUCTION.
- 7. UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL ELECTRICAL OUTLETS AND DEVICES SHOWN WITH A SUBSCRIPT "N" OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED. DEVICES SHOWN WITH A SUBSCRIPT "E" INDICATE EXISTING EQUIPMENT TO REMAIN.

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# FIRST FLOOR POWER PLAN WEST- ELECTRICAL

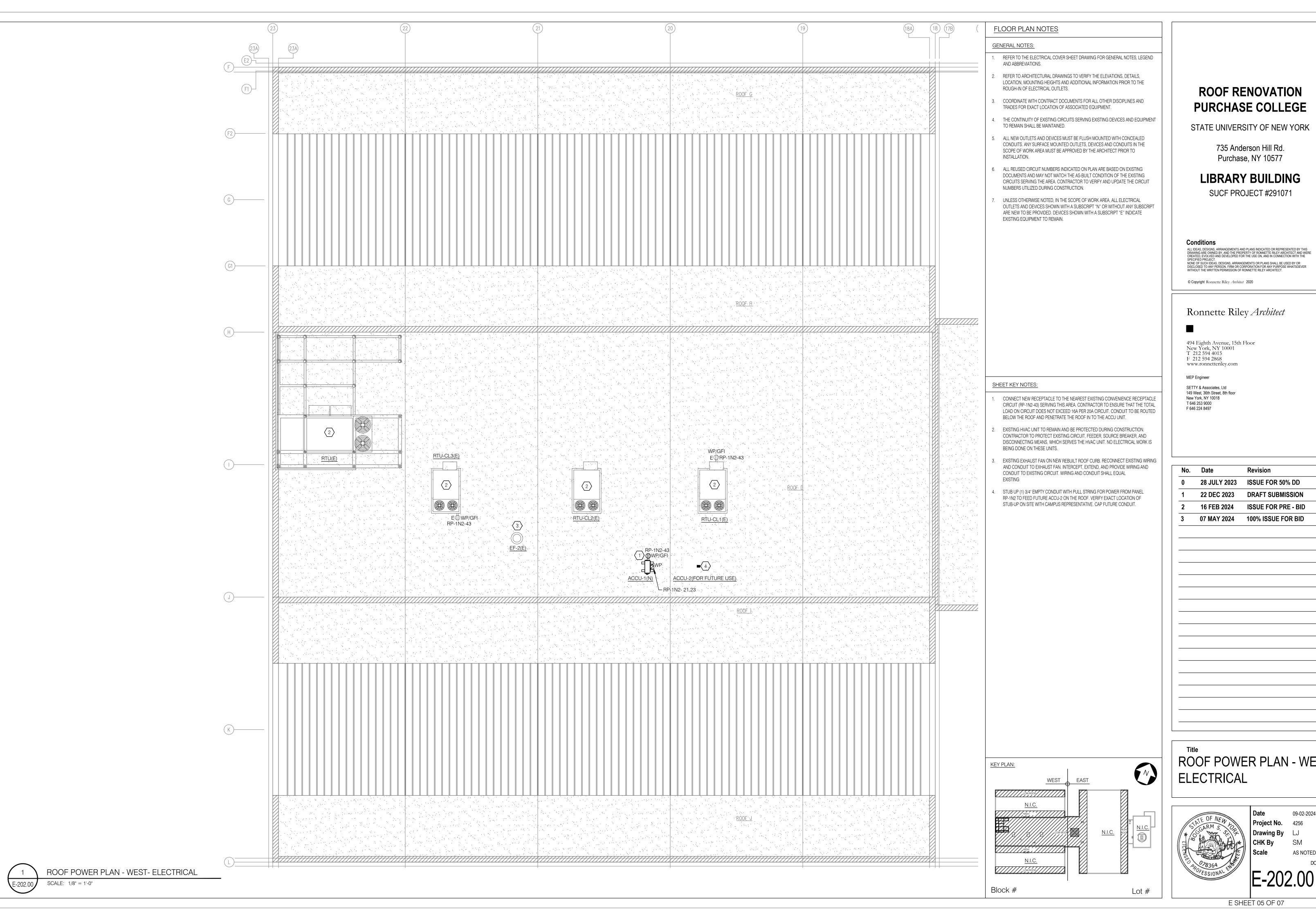
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Date 09-02-202
Project No. 4256
Drawing By LJ
CHK By SM
Scale AS NOTE

E-201.00

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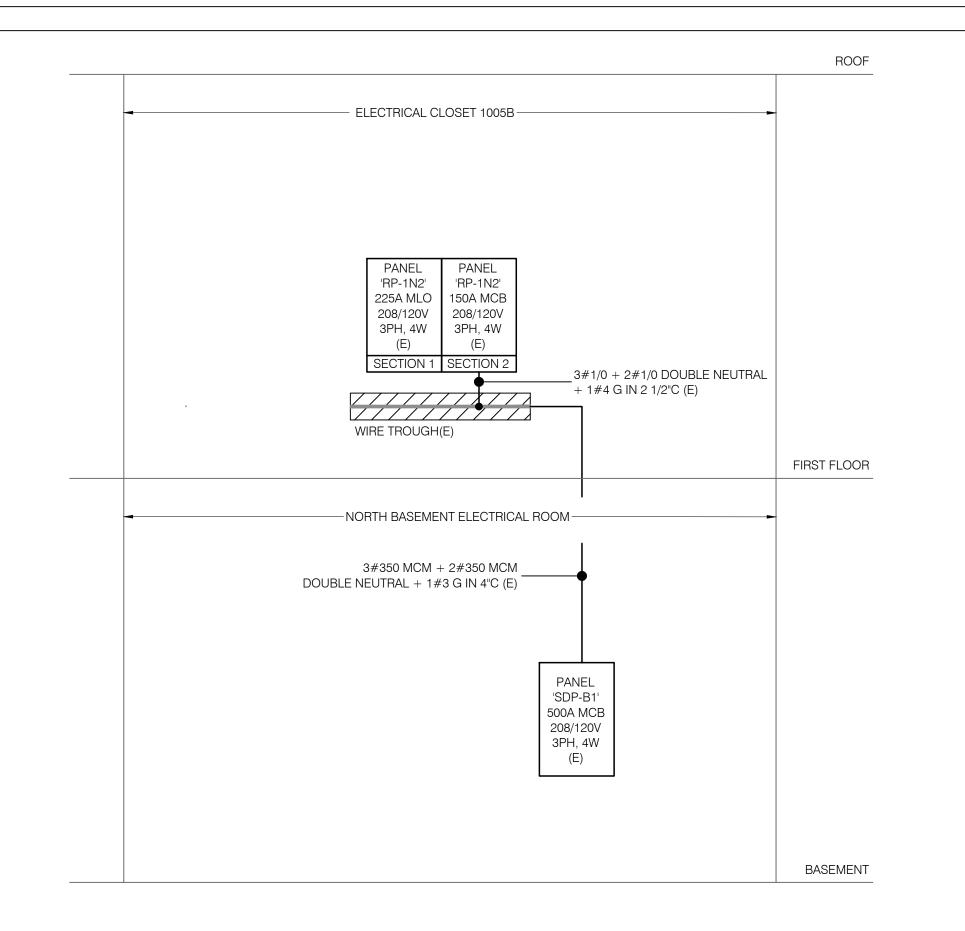
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# ROOF POWER PLAN - WEST-



1 E-501.00

ELECTRICAL PARTIAL POWER RISER DIAGRAM - FOR REFERENCE ONLY

SCALE: NTS

	MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE															
UNIT MARK	UNIT DESCRIPTION	VOLTAGE /	НР	LOAD	EI A	DACA	МОСР		UNIT D	ISCONNECT	SWTCH		FEEDER	REMARKS		
UNII WARK	UNIT DESCRIPTION	PHASE	ПР	KW	FLA	MCA	IN PANEL	SIZE	TYPE	FURNISHED BY	INSTALLED BY	POWERED BY	PEEDER	REWARNS		
CP-1	CONDENSATE PUMP	120/1	1/30	-	1.5	1.87	20	-	SM	DIV. 26	DIV. 26	DIV. 26	2#12 + 1#12 G IN 3/4"C			
AC-1	INDOOR SPLIT SYSTEM COOLING UNIT	208/1	-	0.03	0.33	1	20	-	SM	DIV. 26	DIV. 26	DIV. 26	2#12 + 1#12 G IN 3/4"C	POWERED VIA OUTDOOR UNIT		
ACCU-1	OUTDOOR CONDENSING UNIT	208/1	-	-	8.8	11	20	30/20	FSS	DIV. 23	DIV. 23	DIV. 26	2#10 + 1#10 G IN 3/4"C			
ACCU-2 (FUTURE USE) OUTDOOR CONDENSING UNIT		208/1	-	-	-	-	-	-	-	-	-	-	EMPTY 3/4" CONDUIT WITH PULL STRING	NEW CONDUIT PROVIDED FOR FUTURE ACCU-2		

ABBREVIATIONS: SM - MOTOR RATED SWITCH; NFSS - NON FUSED SAFETY SWITCH; FSS - FUSED SAFETY SWITCH; VFD - VARIABLE FREQUENCY DRIVE

NOTES:

1. ALL OUTDOOR DISCONNECT SWITCHES SHALL BE IN NEMA 3R ENCLOSURE TYPE, UNLESS OTHERWISE NOTED.

2. ALL FUSE SIZES FOR EQUIPMENT DISCONNECT SWITCH SHALL BE BASED ON THE EQUIPMENT NAME PLATE DATA AND EQUIPMENT MANUFACTURER RECOMMENDATIONS.

3. CONTRACTOR TO PROVIDE ELECTRICAL CONNECTIONS FOR ALL ASSOCIATED CONDENSATE PUMP, CONTROL PANEL, ALARM AND MISCELLANEOUS ACCESSORY DEVICES SERVING EQUIPMENT AS REQUIRED.

4. ALL FUSES SHALL BE DUAL ELEMENT TYPE.

			VOLTAGE	DROP CALCULATION	IS FOR ROOF EQUIPI	MENT CIRCUITS		
CIRCUIT	EQUIPEMENT	VOLTAGE (V)	PHASE	CIRCUIT LENGTH (FT)	CIRCUIT LOAD (A)	WIRE SIZE (AWG)	VOLTAGE DROP (V)	VOLTAGE DROP (%)
RP-1N2-21, 23	ACCU-1	208	1	20	8.8	2 #12 AWG + 1 #12 AWG G IN 3/4"C	1.004	0.480

FLOOR PLAN NOTES

GENERAL NOTES:

SHEET KEY NOTES:

1. UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPEMENT, PANELS AND FEEDERS ARE EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY.

# ROOF RENOVATION PURCHASE COLLEGE

STATE UNIVERSITY OF NEW YORK

735 Anderson Hill Rd. Purchase, NY 10577

## LIBRARY BUILDING

SUCF PROJECT #291071

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0 28 JULY 2023 ISSUE FOR 50% DD

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1	22 DEC 2023	DRAFT SUBMISSION
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# ELECTRICAL RISER DIAGRAM AND SCHEDULES



Project No. 4256
Prawing By LJ
CHK By SM
Scale AS NO

E-501.00

E SHEET 06 OF 07

PROJ	ECT:	SUN	IY PURCHASE LIBRARY ROOF R	EPLA	CEME	ENT		PANEL	- VOLT	AGE:		1	20/208	3V			AIC RATING:		22K	
PANE	<b>.:</b>	RP-	1N2(SEC I) (E)					PHASE	& WIR	E:		3	PH, 4\	N			MOUNTING:	SU	RFA	ACE
LOCA	TION	ELE	CTRICAL CLOSET 1005B					BUS/M	IAIN (A	MPS):		22	25A ML	_O			NEMA TYPE:		1	
СКТ	OCD	)			L	OAD (KV	A)		3 PH	SEQUE	NCE		L	OAD (KV	A)			OCD		СКТ
NO.	Α	Р	DESCRIPTION	MISC	HWH	HVAC	REC	LTG	Α	В	С	MISC	HWH	HVAC	REC	LTG	DESCRIPTION	Α	Р	NO.
1	20	1	COMPUTER LAB C 1011G DESKS (E)				1.4		2.6						1.2		COMPUTER LAB C 1011G DESKS (E)	20	1	2
3	20	1	COMPUTER LAB C 1011G DESKS (E)				1.4			2.6					1.2		COMPUTER LAB C 1011G DESKS (E)	20	1	4
5	20	1	COMPUTER LAB C 1011G DESKS (E)				1.4				2.6				1.2		COMPUTER LAB C 1011G DESKS (E)	20	1	6
7	20	1	COMPUTER LAB C 1011G DESKS (E)				1.4		2.6						1.2		COMPUTER LAB C 1011G DESKS (E)	20	1	8
9	20	1	COMPUTER LAB C 1011G DESKS (E)				1.4			2.6					1.2		COMPUTER LAB C 1011G DESKS (E)	20	1	10
11	20	1	COMPUTER LAB C 1011G DESKS (E)				1.4				2.6				1.2		COMPUTER LAB C 1011G DESKS (E)	20	1	12
13	20	1	COMPUTER LAB C 1011G DESKS (E)				1.4		2.6						1.2		COMPUTER LAB C 1011G DESKS (E)	20	1	14
15	20	1	COMPUTER LAB C 1011G DESKS (E)				1.4			2.6					1.2		COMPUTER LAB C 1011G DESKS (E)	20	1	16
17	20	1	COMPUTER LAB C 1011G DESKS (E)				1.4				2.6				1.2		COMPUTER LAB C 1011G DESKS (E)	20	1	18
19	20	1	COMPUTER LAB C 1011G DESKS (E)				1.4		2.6						1.2		COMPUTER LAB C 1011G DESKS (E)	20	1	20
21	20	2	ACCU-1 1			0.9				0.9							SPARE	20	1	22
23	/	/	,			0.9					1.1			0.2			CP-1	20	1	24
25	20	1	COMPUTER LAB C 1011G INSTRUCTOR (E)				1.2		2.4						1.2		COMPUTER LAB C 1011G PROJECTION SCF	20	1	26
27	20	1	COMPUTER LAB C 1011G PROJECTOR (E)				1.2			2.4					1.2		COMPUTER LAB C 1011G GENERAL RECEP	20	1	28
29	20	1	TECH SUPPORT 1005A COMPUTER RECEPT	T (E)			1.2				2.4				1.2		TECH SUPPORT 1005A SCANNER/READER	20	1	30
31	20	1	TECH SUPPORT 1005A GENERAL RECEPT(I	E)			1.2		2.4						1.2		MEETING RM 1005K WIRELESS LAN (E)	20	1	32
33	20	1	TECH SERVICES 1005L COMPUTER DESKS	(E)			1.2			2.4					1.2		TECH SERVICES 1005L COPY MACHINE (E)	20	1	34
35	20	1	OFFICE 1005Q/1005R COMPUTER RECEPT	(E)			1.2				2.4				1.2		OFFICE 1005Q/1005R GENERAL RECEPT (E	20	1	36
37	20	1	OFFICE 1005P COMPUTER RECEPT (E)				1.2		2.4						1.2		OFFICE 1005N COMPUTER RECEPT (E)	20	1	38
39	20	1	OFFICE 1005N/1005P GENERAL RECEPT (E)	)			1.2			2.4					1.2		COMPUTER LAB A/B 1001H PRINTER (E)	20	1	40
41	20	1	COMPUTER LAB A/B 1011H PRINTER (E)				1.2				2.4				1.2		COMPUTER LAB C 1011G PRINTER (E)	20	1	42
CONNE	CTED	LOAD	(KVA)	0.0	0.0	1.8	25.0	0.0	17.7	16.0	16.1	0.0	0.0	0.2	22.8	0.0				
TOTAL	CONN	ECTE	D LOAD (SECTION 1)	0.0	0.0	2.0	47.8	0.0												
TOTAL	CONN	ECTE	D LOAD (SECTION 2)	0.2	0.0	1.2	0.4	0.0												
25% OF	LARG	GESTI	MOTOR (KVA)																	
TOTAL	CONN	ECTE	D LOAD (KVA)	0.2	0.0	3.2	48.2	0.0												
DEMAN	D FAC	CTOR		1.0	1.25	1.0	X	1.25									TOTAL DEMAND (KVA)	33		
TOTAL	DEMA	ND LO	OAD (KVA)	0.2	0.0	3.2	29.1	0.0									LINE CURRENT (AMPS)	90		

1 PROVIDE NEW CIRCUIT BREAKER

PROJ	ECT:	SUI	NY PURCHASE LIBRARY ROOF R	EPLA	CEME	ENT		PANEI	L VOLT	AGE:		1:	20/208	3V			AIC RATING:		22K	(
PANE	L:	RP-	1N2(SEC II) (E)					PHASI	E & WIF	RE:		3	PH, 4\	Ν			MOUNTING:	SI	JRFA	ACE
OCA	TION	ELE	ECTRICAL CLOSET 1005B					BUS/N	IAIN (A	MPS):		15	OA MO	СВ			NEMA TYPE:		1	
CKT	OCE	)			L	OAD (KV	A)		3 PH	SEQUE	NCE	LOAD (KVA)						OCD		CK
NO.	Α	Р	DESCRIPTION	MISC	HWH	HVAC	REC	LTG	Α	В	С	MISC	HWH	HVAC	REC	LTG	DESCRIPTION	Α	Р	NO.
43	20	1	ROOFTOP SERVICE LIGHT&RECEPTACLE (I	0.2					1.4					1.2			EXHAUST FAN EF-12 (E)	20	1	44
45	20	1	COMPUTER LAB A/C WRELESS LAN (E)				0.4			0.4							SPARE	20	1	40
47	20	1	SPARE								0.0						SPARE	20	1	48
49	20	1	SPARE						0.0								SPARE	20	1	50
51	20	1	SPARE							0.0							SPARE	20	1	52
53	20	1	SPARE								0.0						SPARE	20	1	54
55	20	1	SPARE						0.0								SPARE	20	1	50
57	20	1	SPARE							0.0							SPARE	20	1	58
59	20	1	SPARE								0.0						SPARE	20	1	60
61	20	1	SPARE						0.0								SPARE	20	1	62
63	20	1	SPARE							0.0							SPARE	20	1	64
65	20	1	SPARE								0.0						SPARE	20	1	66
67	20	1	SPARE						0.0								SPARE	20	1	68
69	20	1	SPARE							0.0							SPARE	20	1	70
71	20	1	SPARE								0.0						SPARE	20	1	72
73	20	1	SPARE						0.0								SPARE	20	1	74
75	20	1	SPARE							0.0							SPARE	20	1	76
77	20	1	SPARE								0.0						SPARE	20	1	78
79	20	1	SPARE						0.0								SPARE	20	1	80
81	20	1	SPARE							0.0							SPARE	20	1	82
83	20	1	SPARE								0.0						SPARE	20	1	84
CONNI	ECTED	LOA	D (KVA)	0.2	0.0	0.0	0.4	0.0	1.4	0.4	0.0	0.0	0.0	1.2	0.0	0.0				
25% OI	FLAR	GEST	MOTOR (KVA)														-			
TOTAL	CONN	NECTE	ED LOAD (KVA)	0.2	0.0	1.2	0.4	0.0												
DEMA	ND FA	CTOR		1.0	1.25	1.0	X	1.25								TOTAL DEMAND (KVA)				
TOTAL	AL DEMAND LOAD (KVA)			0.2	0.0	1.2	0.4	0.0									LINE CURRENT (AMPS)	5		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (N.E.C. 220-44)

1 PROVIDE NEW CIRCUIT BREAKER

HWH - HOT WATER HEATER

- 2. AT COMPLETION OF THE PROJECT, PROVIDE TYPE WRITTEN SCHEDULES FOR ALL PANEL BOARDS UTILIZED DURING THE
- 4. ALL UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT ARE TO BE GROUNDED BY WIRE TIES OR SIMILAR MEANS AT LEAST ONE LOCATION EITHER WITHIN THE PANEL BOARD OR AT THE OTHER POINT OF ORIGINATION.

**KEY PANELS** "RP-1N2(SEC I)" | "RP-1N2(SEC II)" (E)

#### GENERAL NOTES

- 1. TURN ALL SPARE CIRCUIT BREAKERS TO "OFF" POSITION AT COMPLETION OF WORK.
- CONSTRUCTION PROCESS INDICATING AS-BUILT CONDITION.
- 3. PROVIDE RED COLOR LOCKABLE BREAKERS FOR CIRCUITS SERVING LIFE SAFETY PANEL BOARDS.

PANEL SCHEDULES

E SHEET 07 OF 07

**ROOF RENOVATION** 

**PURCHASE COLLEGE** 

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