

DRAWING LIST

ARCHITECTURAL

A-1 FLOOR PLANS AND NOTES

PLUMBING

P-1 FLOOR PLANS AND NOTES

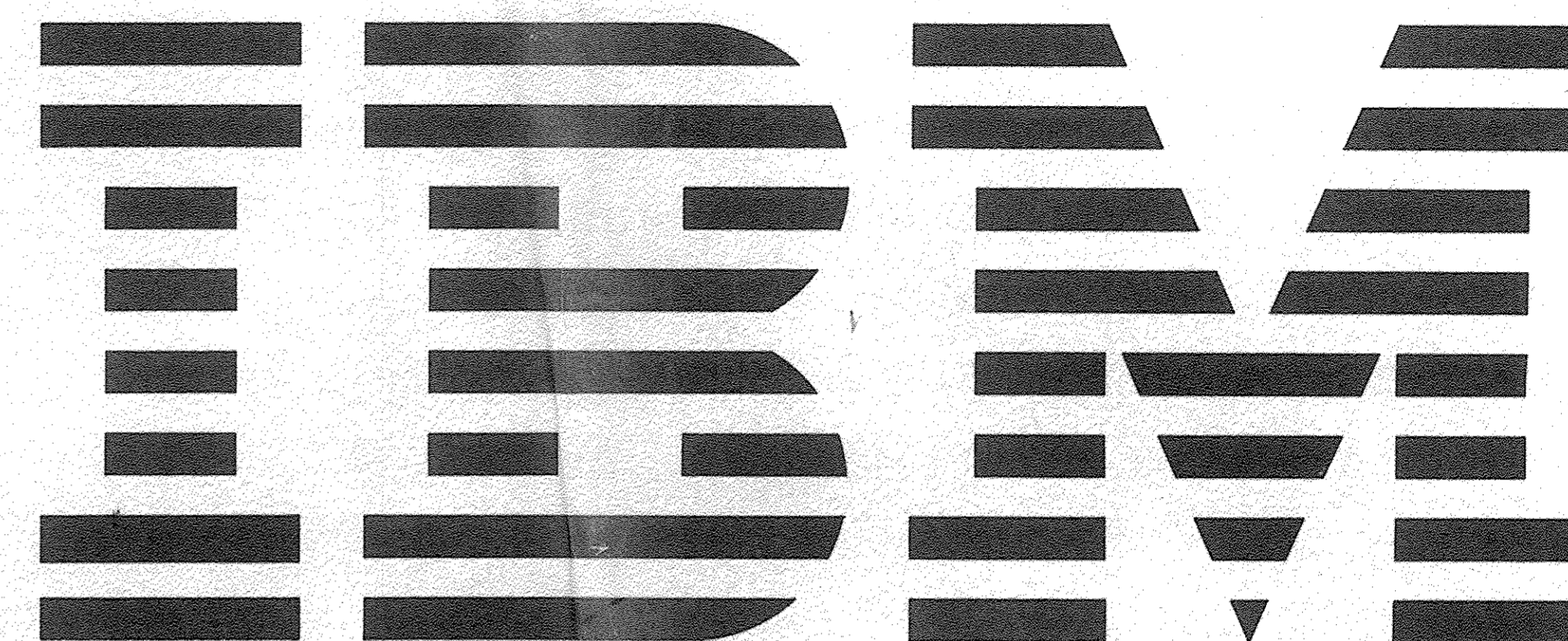
P-2 SPECIFICATIONS

MECHANICAL

H-1 FLOOR PLANS AND NOTES

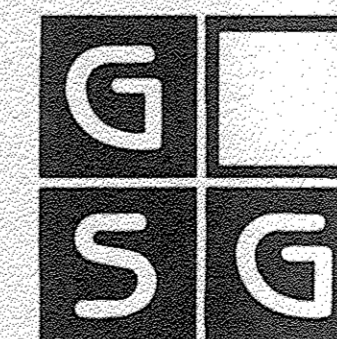
ELECTRICAL

E-1 FLOOR PLANS AND NOTES



**CUSTOMER EXECUTIVE  
EDUCATION CENTER  
INSTALLATION OF MOP RECEPTORS  
PALISADES, NEW YORK**

Getter, Segner & Gironda, P.E., P.C.



Sutton Park North 465 Columbus Avenue

Valhalla, N.Y. 10595-1326

**ARCHITECTURAL SPECIFICATION**

**1.1 General Requirements**

Comply with General Conditions, Supplementary General Conditions, IBM Construction Agreement, and all other Contract Documents.

**1.2 Work Included**

- A. This Contract requires complete, finished alteration of the areas indicated by the Contract Documents, and shall include all materials and labor necessary to complete same, regardless of whether or not each and every necessary item is specifically indicated under "Work Included" or any other portion of the drawings and/or specifications.
- B. The following specifications are generally broken down into industry recognized category of work strictly for Contractor's convenience. The Contractor is solely responsible for dividing and subcontracting the work in the most suitable manner, and ascertaining that the architectural, mechanical and electrical work is fully coordinated and complete. Specifications and requirements indicated in a particular portion of the drawing or specifications shall be construed to apply to the entire project.
- C. Where materials referenced on drawings, or necessary to complete the work of this contract are not specified herein, provide best quality materials. Where materials are intended to match existing, provide closest possible match, subject to Owner's approval.
- D. Protect adjacent materials to remain. Install and maintain dust barriers to keep dirt from being transmitted to adjacent areas.
- E. This contractor shall make all necessary arrangements with the existing roof manufacturers and pay all fees etc., required to have the existing roof Bonding company verify methods, installation, inspect work and certify that the Bond on the roof is still valid after the construction work required for this alteration has been completed.
- F. Disposal and cleanup: Remove from the site and legally dispose of demolished materials, clean work areas thoroughly.

- G. Protect floor surfaces: Provide tempered hardboard or 3/8" C.D plywood, tape all joints.

**1.3 Masonry Walls**

- A. Extend concrete masonry walls to underside of structural slab. Cut masonry units and solidly grout to fit metal decking.
- B. Masonry units shall be 2-hr. rated conforming to UL 618 solid load-bearing type conforming to ASTM-C145-85, or hollow load bearing units meeting ASTM-90-85.
- C. Mortar: Type S in accordance with ASTM-C-270-89.
- D. Horizontal Joint Reinforcement: Fabricate from cold drawn steel wire conforming to ASTM-A-82-88.
- E. Lay hollow masonry units so as to preserve the vertical continuity of the cells. Place horizontal joint reinforcement in every other joint. Spread all bed joints with mortar for the full thickness of the face shells. Butler head joints for full thickness of face shell.
- F. Tool joints when mortar is thumbprint hard.
- G. After mortar has set in joints, thoroughly clean exposed masonry surfaces and patch defects in joints.
- H. Prepare cementitious surfaces to be painted by removing efflorescence, chalk, dirt, grease and oil.

**1.4 Painting**

- A. Painting and finishing of all new and altered exposed items and surfaces and all previously painted items within the area of work.
- B. Paints and finishes shall be first-line products of Benjamin Moore, Pratt and Lambert, Pittsburgh Paint, Glidden, or Sherwin Williams. All tinting of paints shall be done by manufacturer.
- C. Generally, surfaces shall be finished in accordance with the following schedule.

**1.5 Paint Schedule**

- A. Masonry:
  1. Bottom Coat: Block filler.
  2. Intermediate Coat: Interior latex primer.
  3. Two top coats: Interior alkyd odorless semigloss, color to match existing.
- B. Interior gypsum board or plaster walls:
  1. Primer - One coat Latex Primer Sealer. (If not previously painted).
  2. Finish - Two coats odorless Alkyd, color to match existing.

**1.6 Execution**

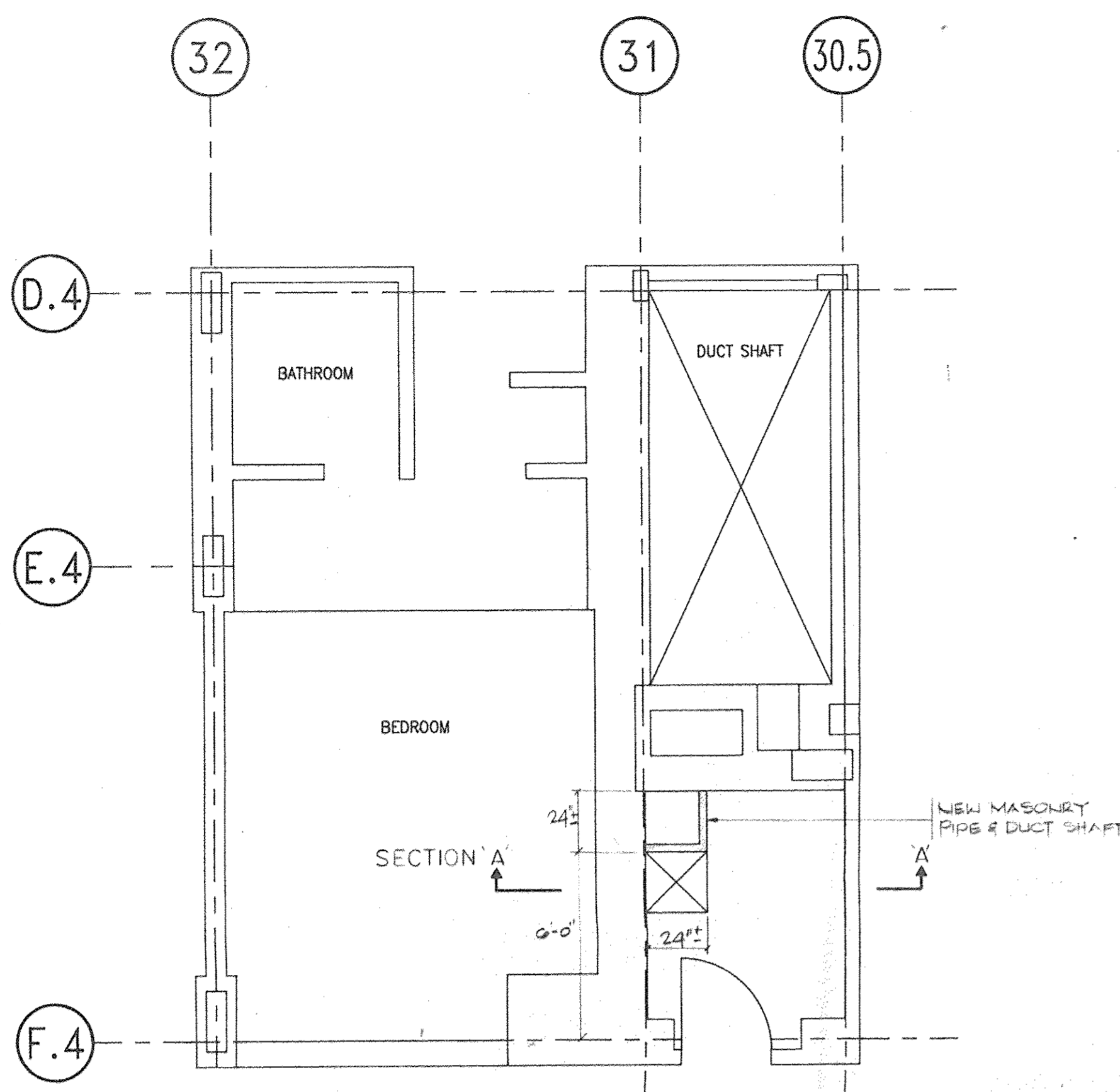
- A. Examine the areas and conditions under which painting work is to be applied. Remedy any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.
- B. Starting of painting work will be construed as Applicator's acceptance of surfaces and conditions within any particular area.
- C. Prepare and clean surfaces in strict accordance with the paint manufacturer's instructions, highest industry standards, and as herein specified.

**Application**

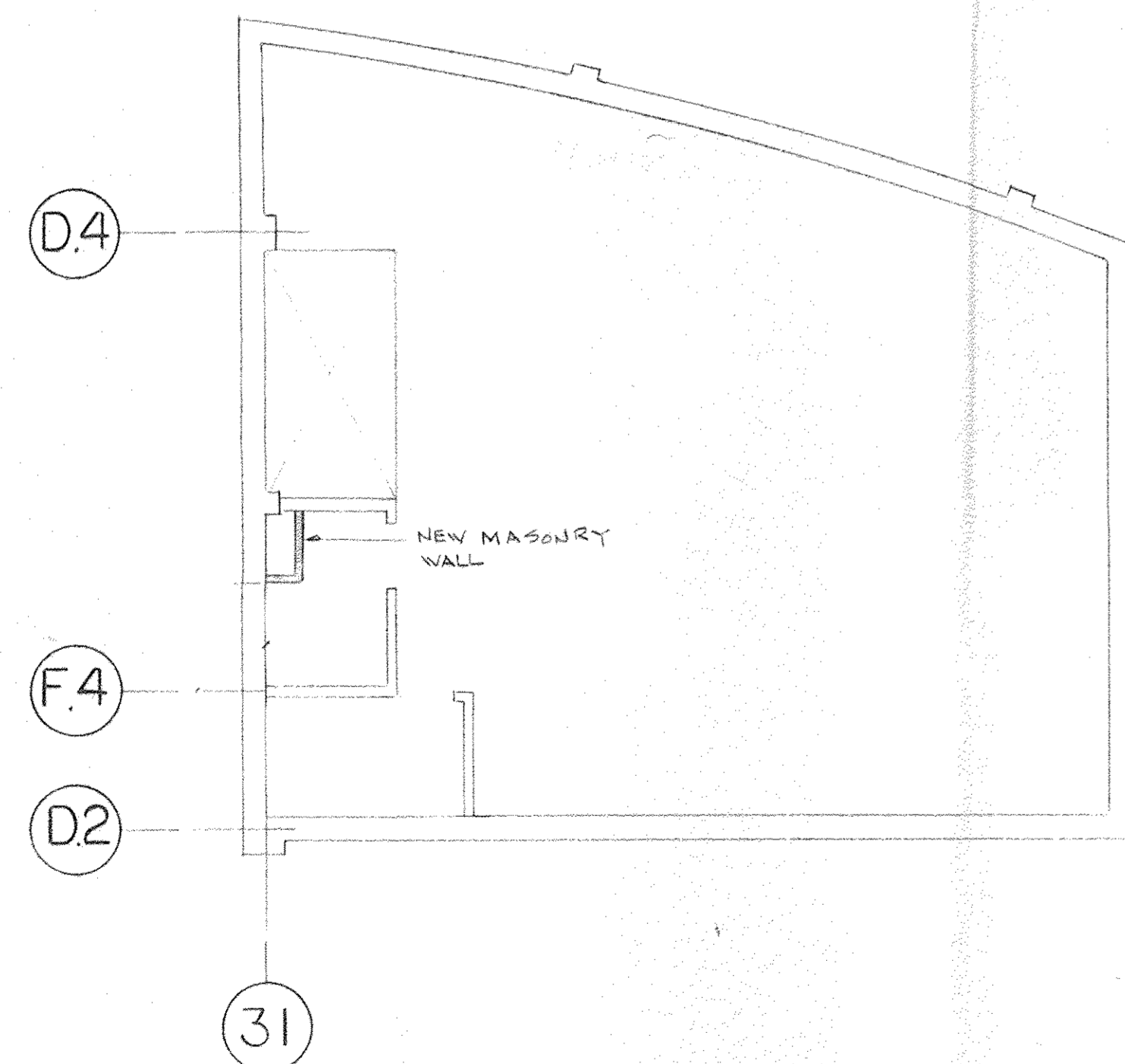
1. Mix, prepare and apply paint in accordance with the manufacturer's directions. Use applicators and techniques best suited for the type of material being applied.
2. Apply additional coats when undercoats, stain or other conditions show through the final coat of paint, until the paint film is of uniform finish, color and appearance.
3. Match existing colors, texture and coverings. Remove refinish or repaint work until unsatisfactory conditions have been corrected.

**1.7 Clean-Up and Protection**

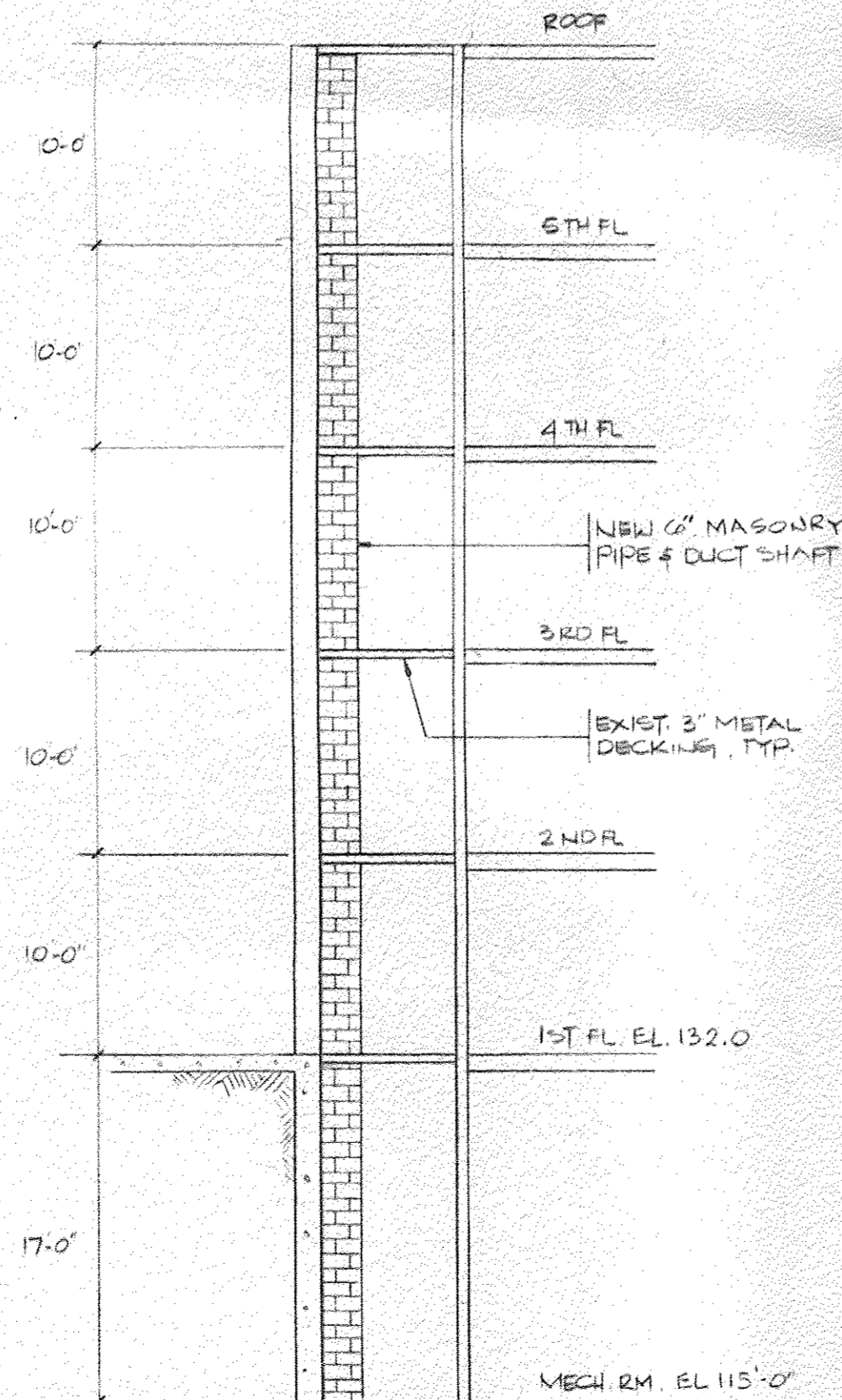
- A. Upon completion of painting work, clean all paint-spattered surfaces by proper methods, using care not to scratch or otherwise damage finished surfaces.
  1. Remove all hardware, receptacle and switch plates, and the like, before painting, and afterwards replace same.
  2. Protect work of other trades, whether to be painted or not, against damage by painting and finishing work.
  3. Provide "wet paint" signs.



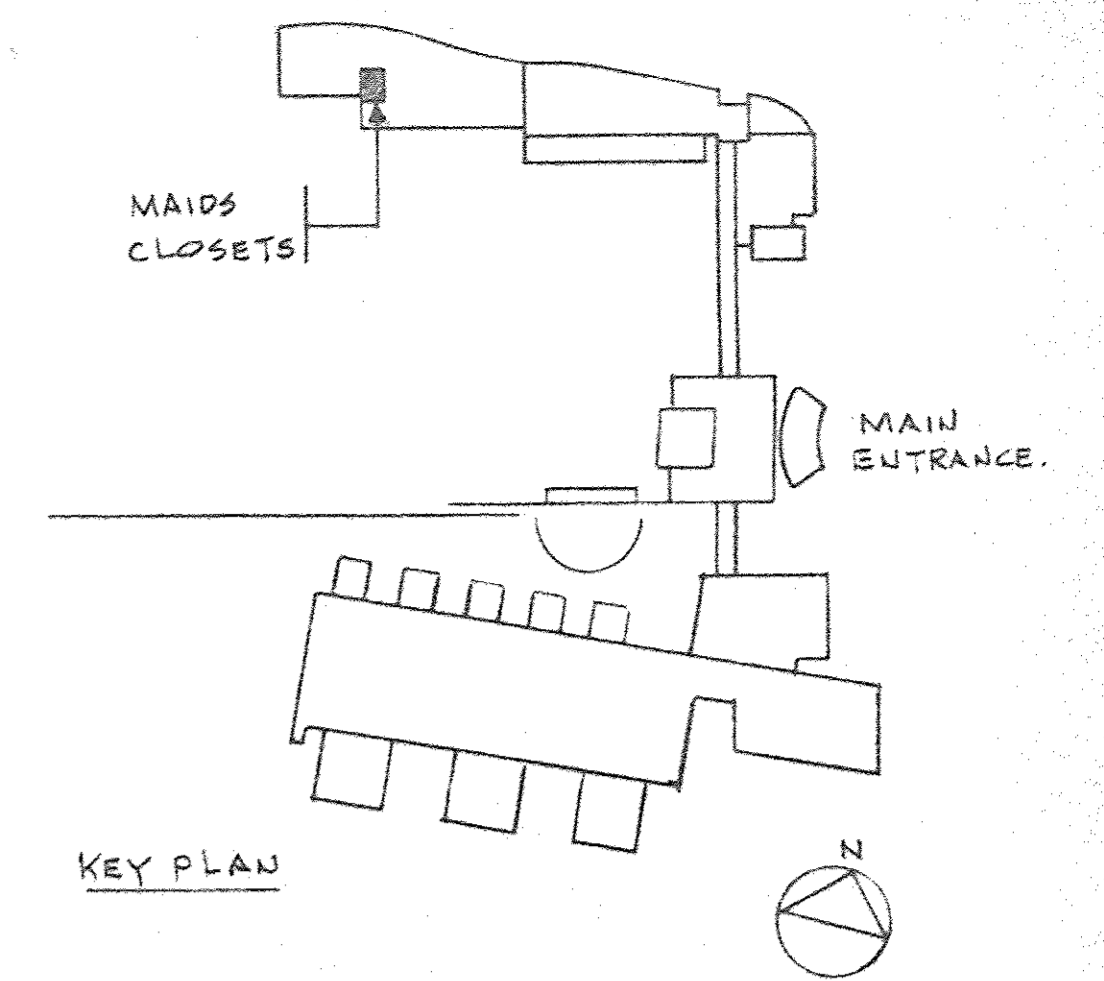
**MAIDS CLOSETS (FF 1ST FL 132'-0")**  
FLOORS 1ST THRU 5TH  
SCALE: 1/4" = 1'-0"



**MECH. EQUIP. RM. 2 (FF 115'-0")**  
SCALE: 1/8" = 1'-0"




**SECTION 'A'**  
SCALE: 1/8" = 1'-0"

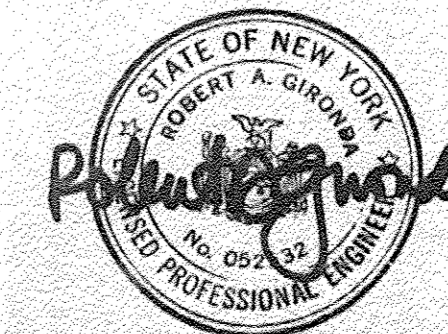


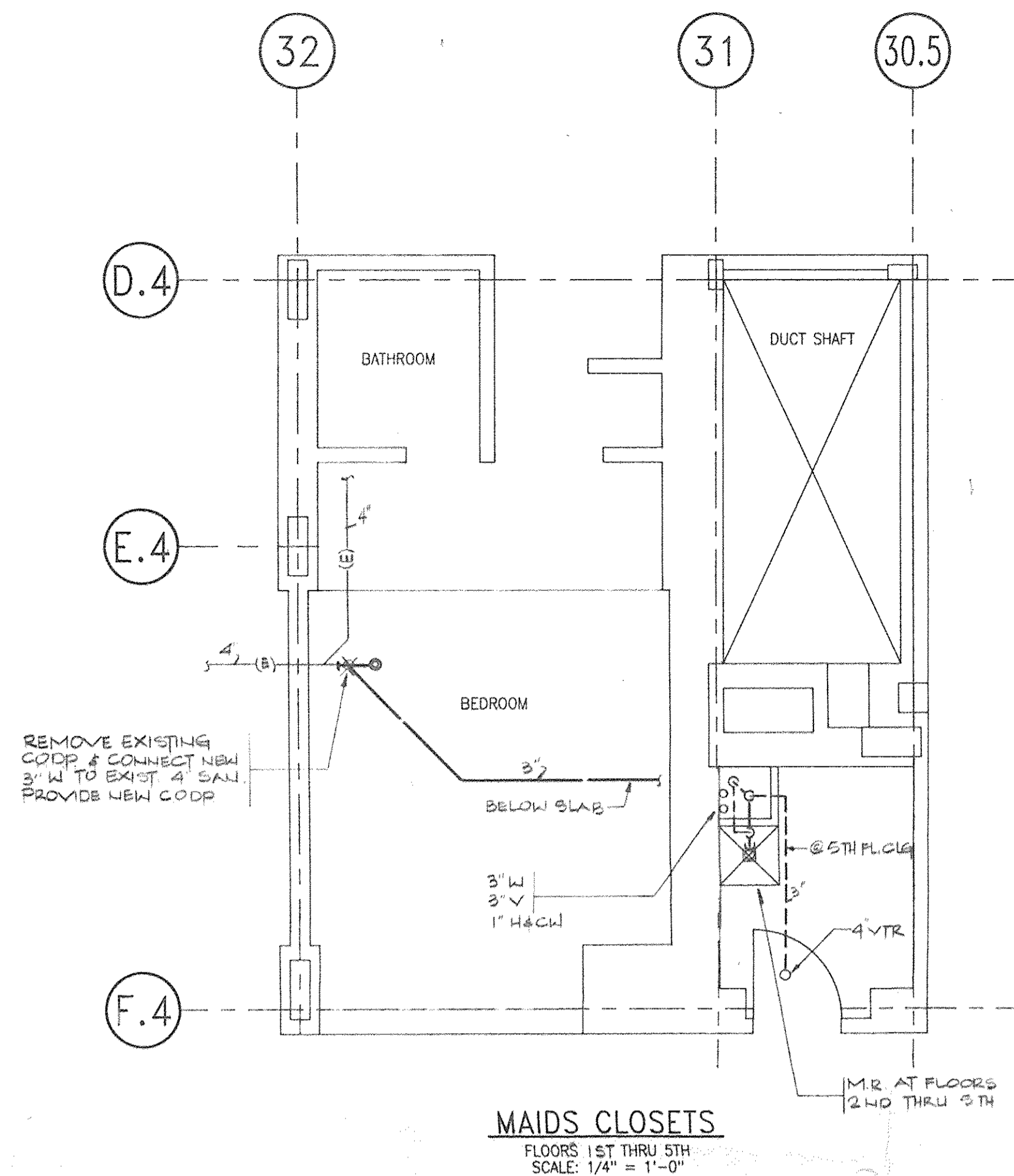
**KEY PLAN**

| No. | REVISION DESCRIPTION | APPROVAL INITIAL AND DATE |
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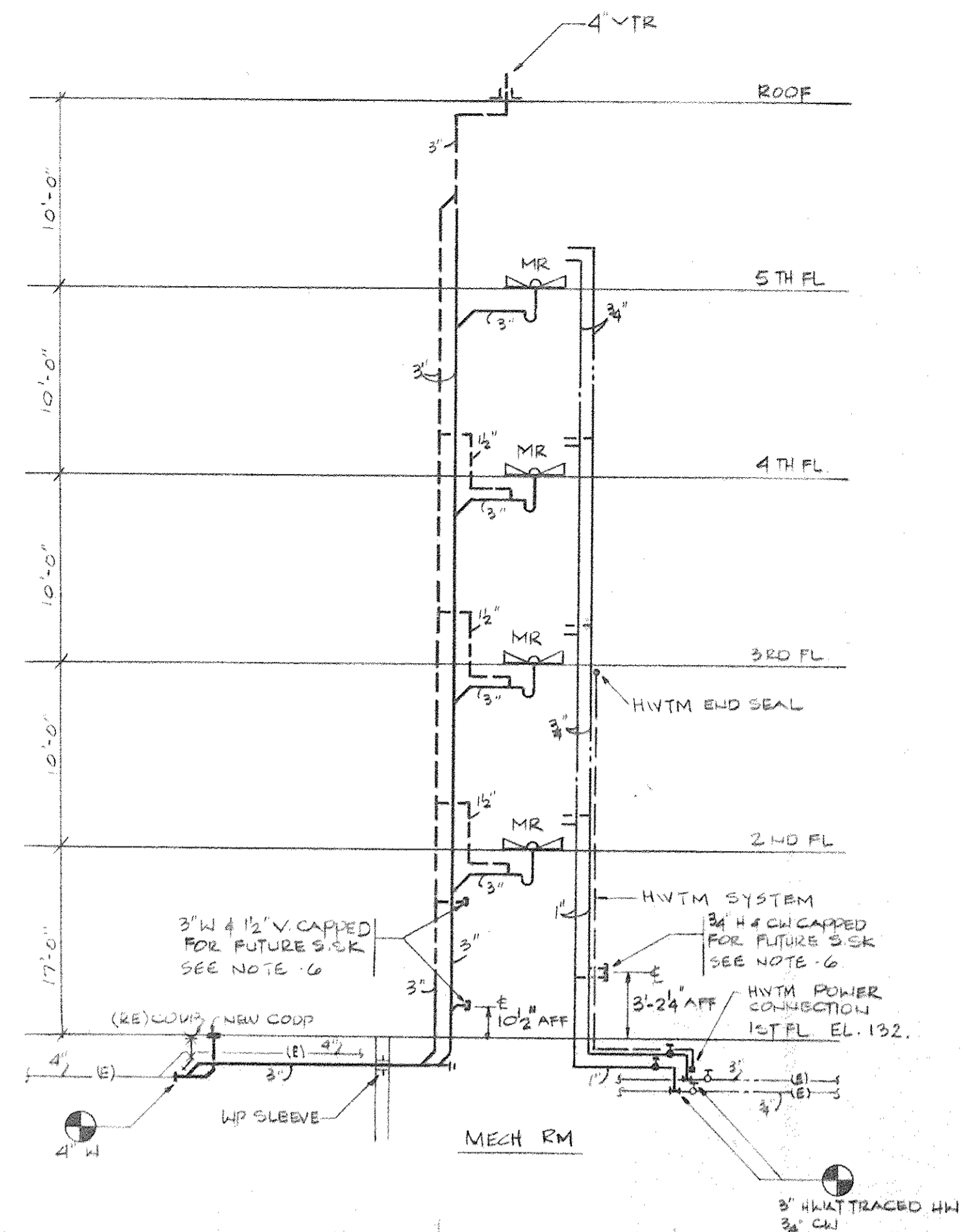
**Getter, Segner & Gironda, P.E., P.C.**  
Sutton Park North - 465 Columbus Avenue  
Valhalla, NY 10595-1326

|   |                   |  |
|---|-------------------|--|
| PROJECT TITLE   |                   | <br>US HEADQUARTERS DESIGN AND ENGINEERING<br>208 Herber Drive<br>P.O. Box 10501<br>Stamford, Ct 06904-2501 |
| <b>INSTALLATION OF MOP RECEPTORS</b><br>PALISADES, N.Y. |                   |  |
| DRAWING TITLE   |                   | DRAWING No.<br><b>A-1</b>  |
| <b>FLOOR PLAN AND NOTES</b>                             |                   |  |
| DRAWN BY<br>EC PC                                       | SCALE<br>AS SHOWN |  |
| BUILDING  | FLOOR             | PRJ. No.<br>248.00   |





**MAIDS CLOSETS**  
FLOORS 1ST THRU 5TH  
SCALE: 1/4" = 1'-0"

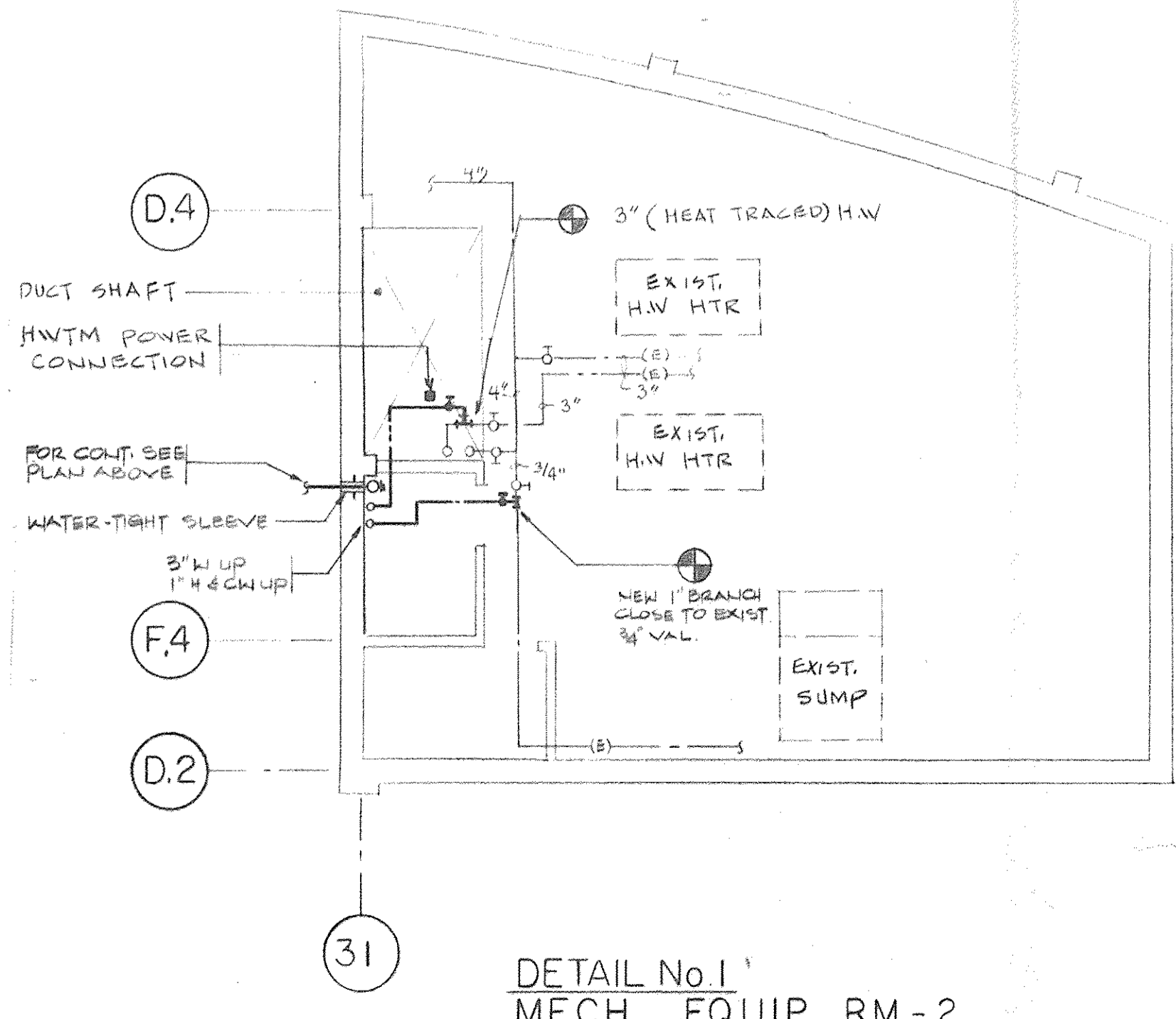
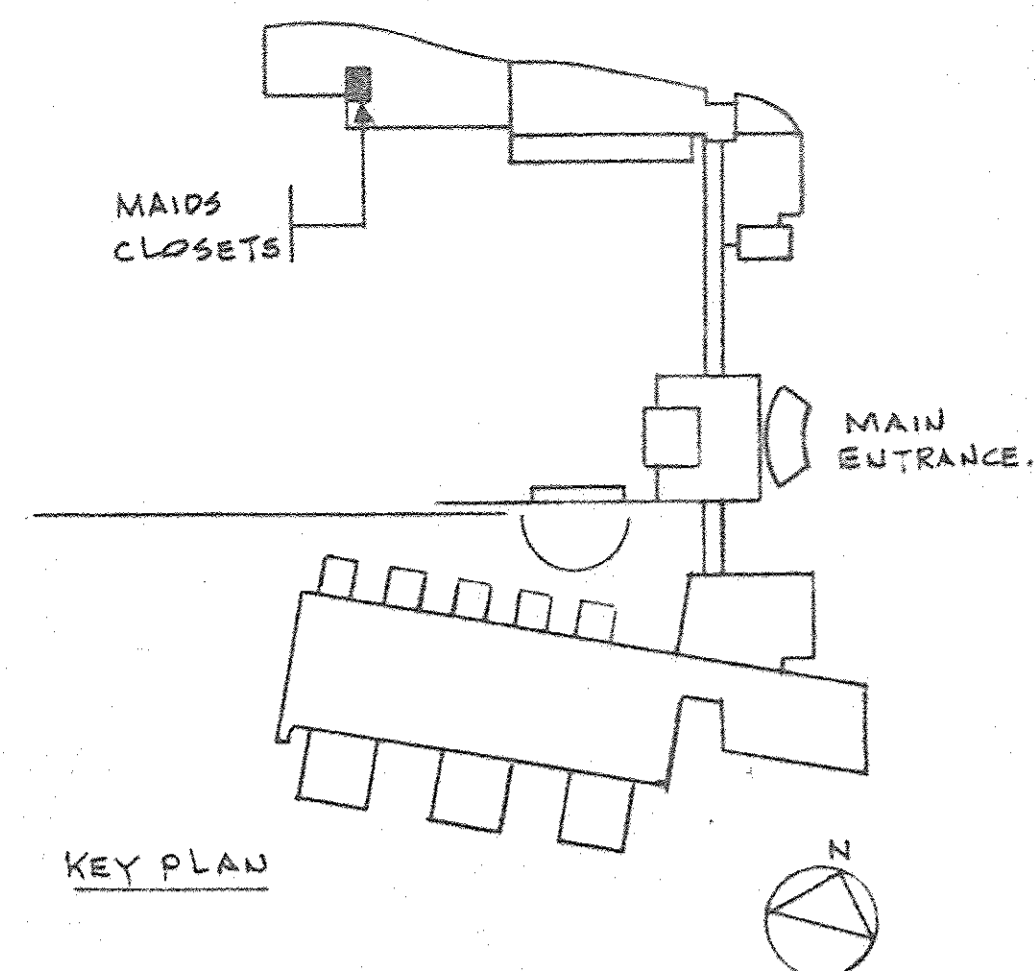


**RISER DIAGRAM**  
NTS

| SYMBOL LIST |                                   |
|-------------|-----------------------------------|
|             | COLD WATER PIPING W/ VALVE        |
|             | HOT WATER PIPING W/ VALVE         |
|             | WASTE PIPING BELOW SLAB           |
|             | VENT                              |
|             | EXISTING PIPING                   |
|             | VENT THRU ROOF                    |
|             | HEATER                            |
|             | REMOVE EXISTING                   |
|             | WATER PROOF                       |
|             | MOP RECEPTOR                      |
|             | CONNECT TO EXISTING               |
|             | CLEANOUT DECK PLATE               |
|             | CEILING                           |
|             | VENT                              |
|             | SERVICE SINK                      |
|             | WASTE                             |
|             | SANITARY                          |
|             | HOT WATER TEMPERATURE MAINTENANCE |

**GENERAL NOTES:**

- Contractor shall examine these drawings and drawings of all other trades, specifications and site conditions, and from his own investigation satisfy himself as to nature of work, including phasing, disposal, handling and storage of materials.
- It is not intended that the drawings indicate all existing work and or conditions.
- Locations of existing piping are shown in an approximately way only. The contractor shall determine the exact locations of all existing piping before commencing work.
- Phase piping interconnections to existing systems with Owner and other trades, interruptions shall be kept to a minimum length of time and coordinated with Owner as to exact time and duration of shutdown.
- New roughing and points of connection to existing piping systems are shown for intent only. Contractor shall verify existing conditions and adjust layout to suit field conditions at no additional cost to the contract.
- CAPPED OUTLETS SHALL EXTEND THRU NEW WALL CONSTRUCTION.
- COORDINATE ROOF OPENING AND PATCHING REQUIREMENTS WITH THE GENERAL CONTRACTOR.



**DETAIL No. 1**  
**MECH. EQUIP. RM-2**

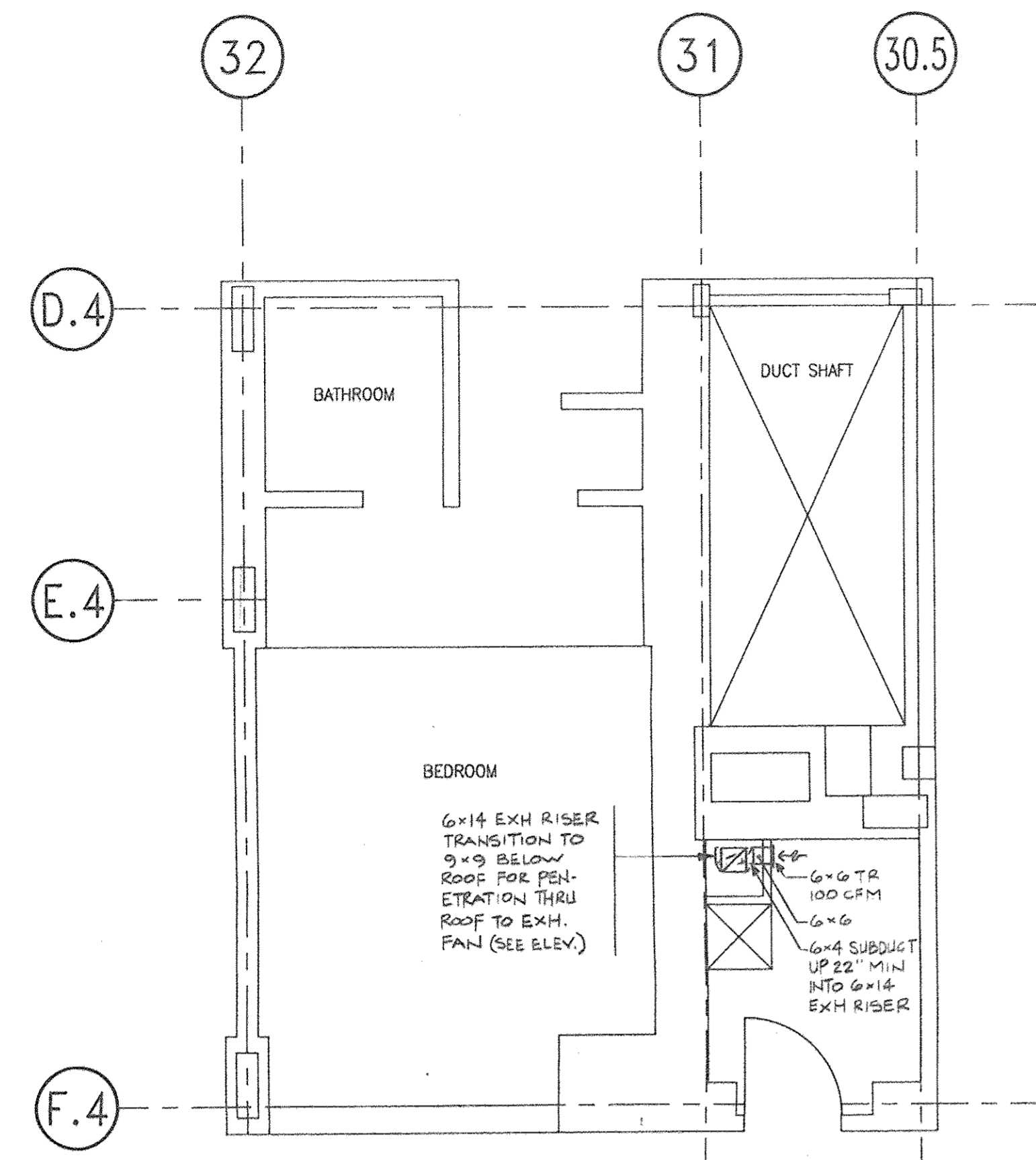
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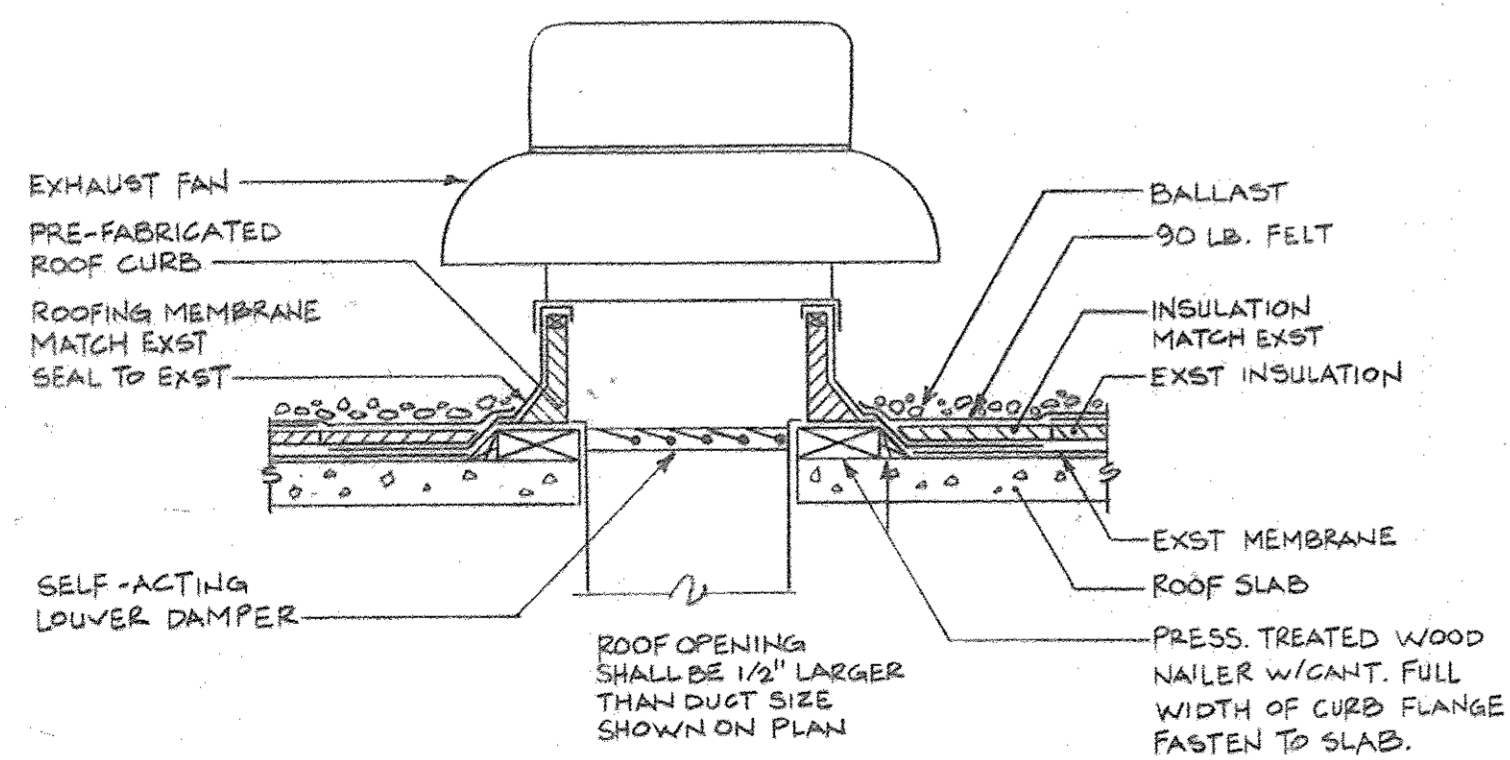
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| PROJECT TITLE:<br><b>INSTALLATION OF MOP RECEPTORS</b> |                     |   |
| PALISADES, N.Y.  |                     |   |
| DRAWING TITLE:<br><b>FLOOR PLAN AND NOTES</b>          |                     | US HEADQUARTERS DESIGN AND ENGINEERING<br>208 Harbor Drive<br>P.O. Box 10001<br>Stamford, Ct 06904-2501 |
| DRAWN BY:<br>EC PC                                     | SCALE:<br>AS SHOWN  |   |
| BUILDING:<br>FLOOR:<br>SECT.:                          | PROJ. No:<br>248.00 | DRAWING No:<br><b>P-1</b>   |





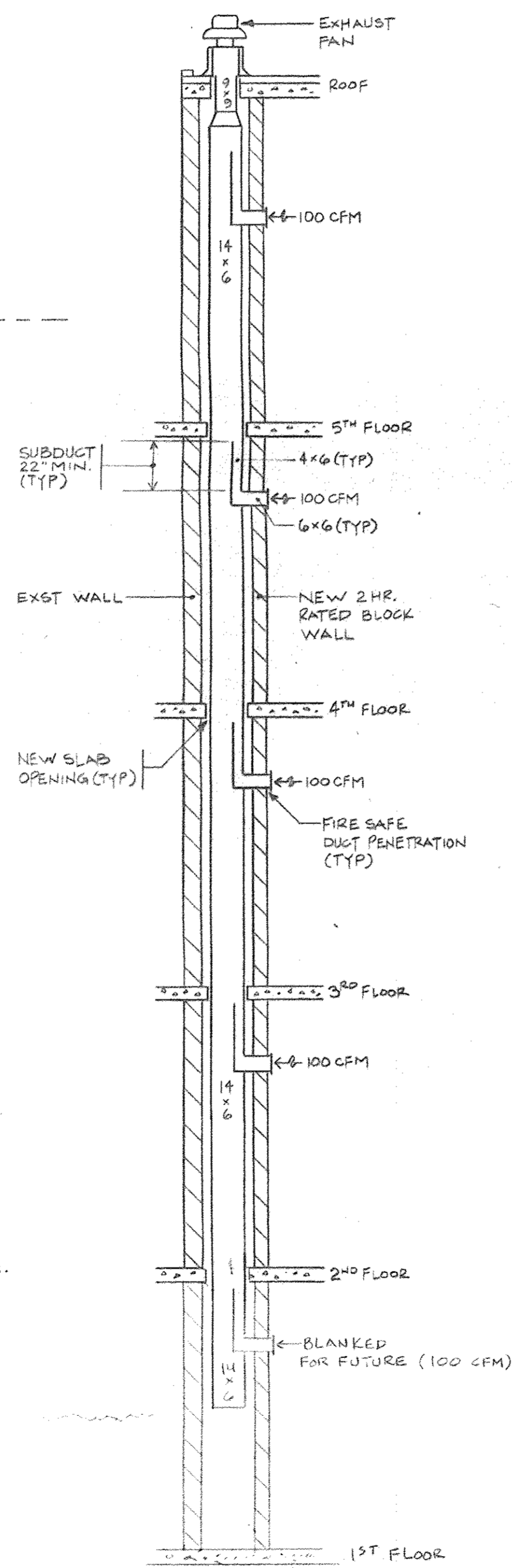


**MAIDS CLOSETS**  
FLOORS 2ND THRU 5TH  
SCALE: 1/4" = 1'-0"



**ROOF EXHAUST FAN MOUNTING DETAIL**  
NOT TO SCALE

- NOTES:
- MAID'S CLOSET EXHAUST FAN:  
500 CFM AT .375" TOTAL STATIC PRESS.  
1/2 HP MOTOR, 1750 NOM. RPM, 120V/1Ø.  
PENN DOMEX MODEL XQ04L W/LEK-TROL SPEED CONTROLLER AND UNI-BEAM ROOF CURB OR ACCEPTED EQUIVALENT.
  - COORDINATE ROOF OPENING AND PATCHING REQUIREMENTS WITH THE GENERAL CONTRACTOR.



**EXHAUST DUCT RISER ELEVATION**  
1/4" = 1'-0"

**SCOPE OF WORK**

- PROVIDE EXHAUST SYSTEM FOR MAID'S CLOSETS IN RESIDENT'S WING.

**HVAC SPECIFICATIONS**

**PART I - GENERAL**

**1.1 GENERAL CONDITIONS**

- THE GENERAL CONDITIONS FOR CONSTRUCTION (SHORT FORM) PREPARED BY IBM REAL ESTATE AND CONSTRUCTION SHALL FORM A PART OF THESE SPECIFICATIONS AND ALL WORK SHALL BE SUBJECT TO THE PROVISIONS THEREOF.

**1.2 WORK INCLUDED**

- PROVIDE ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT, ACCESSORIES, SERVICES, CONTROLS, TESTS AND PERMITS NECESSARY TO COMPLETE AND MAKE READY FOR OPERATION FOR THE WORK SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED.
- ALL WORK SHALL CONFORM TO THE NEW YORK STATE BUILDING CODE, NFPA, LOCAL AUTHORITY HAVING JURISDICTION, AND REQUIREMENTS OF THE OWNER.
- PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE BARRIERS TO KEEP DIRT, DUST, AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS. REMOVE PROTECTION AND BARRIERS AFTER DEMOLITION OPERATIONS ARE COMPLETE AND CLEAN WORK AREAS THOROUGHLY.
- LOCATE, IDENTIFY, AND PROTECT MECHANICAL SERVICES PASSING THROUGH AREA. MAINTAIN SERVICES TO AREAS OUTSIDE SCOPE OF WORK LIMITS. WHEN SERVICES MUST BE INTERRUPTED, COORDINATE WITH THE OWNER, AND INSTALL TEMPORARY SERVICES FOR AFFECTED AREAS AND REMOVE SERVICES AT COMPLETION OF WORK.
- DISPOSAL AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS.

**1.3 RELATED WORK SPECIFIED ELSEWHERE**

- GENERAL CONDITIONS
- ELECTRICAL WORK

**1.4 SUBMITTALS**

- SUBMIT A MINIMUM OF THREE (3) COPIES OF SHOP DRAWINGS AND MANUFACTURER'S DATA FOR ENGINEER'S REVIEW IN ACCORDANCE WITH THE GENERAL CONDITIONS PRIOR TO FABRICATION OR INSTALLATION.
- THE ACCEPTANCE OF SUBMITTALS WILL BE GENERAL AND SHALL NOT BE CONSTRUED AS PERMITTING ANY DEPARTURE FROM THE CONTRACT REQUIREMENTS OTHER THAN THOSE SPECIFICALLY BROUGHT TO THE ENGINEER'S ATTENTION AND SO ACCEPTED.
- SUBMITTALS SHALL INCLUDE ALL PERTINENT INFORMATION NECESSARY TO INDICATE COMPLIANCE WITH THESE SPECIFICATIONS AND SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO THE FOLLOWING:
  - TOILET EXHAUST FAN SHEETMETAL LAYOUT (3/8" SCALE) AND SHOP STANDARDS
  - AIR INLETS
  - TEST & BALANCE REPORT ON CERTIFIED FORMS

**PART 2 - PRODUCTS**

**2.1 FIRE SAFING:**

- SILICONE SEALANT:**  
FIRE RESISTANT SILICONE SEALANT TO SEAL ALL JOINTS 1/2" WIDE OR LESS IN FLOORS AND FIRE RATED WALLS AND PARTITIONS PENETRATED BY DUCTS AND OTHER ITEMS; SHALL BE SEALED TO PREVENT THE PASSAGE OF FIRE, SMOKE, OR TOXIC GASES FROM ONE FLOOR OR AREA TO ANOTHER.  
"FIRE STOP SEALANT" BY DOW CORNING OR "RTV 7493" BY GENERAL ELECTRIC COMPANY.
- SILICONE FOAM:**  
FIRE RESISTANT SILICONE FOAM PENETRATION SEALANT TO SEAL ALL OPENINGS FROM 1/2" TO 4" IN WIDTH IN FLOORS AND FIRE RATED WALLS AND PARTITIONS PENETRATED BY DUCTS AND OTHER ITEMS; AND USED TO PREVENT THE PASSAGE OF FIRE, SMOKE, TOXIC GASES OR WATER FROM ONE FLOOR OR AREA TO ANOTHER.  
"FIRE STOP FOAM", DOW CORNING CORP.  
"PENSIL 851", GENERAL ELECTRIC CO.

**2.2 DUCTWORK AND ACCESSORIES**

- DUCTS AND FITTINGS FABRICATED FROM NEW HOT DIPPED GALVANIZED SHEET STEEL CONSTRUCTED AND SEALED PER SMACNA DUCT STANDARDS FOR 2" W.G. PRESSURE CLASS AND SEAL CLASS A.

**2.3 MAID'S CLOSET EXHAUST FAN**

- GENERAL:** UNIT CAPACITY AND PERFORMANCE SHALL BE AS SCHEDULED ON THE DRAWINGS. UNIT RATINGS SHALL BE AMCA CERTIFIED.
- FAN/MOTOR:** DIRECT DRIVE CENTRIFUGAL FAN IN A ONE PIECE HEAVY GAUGE WEATHERPROOF SPUN ALUMINUM HOUSING WITH DRAINAGE AT BOTTOM. PERMANENT SPLIT CAPACITOR MOTOR WITH MOTOR AND FAN ASSEMBLY ON VIBRATION ISOLATION MOUNTS. CONDUIT CHASE WITHIN UNIT FOR ELECTRICAL CONNECTION. PROVIDE WITH SPEED CONTROL SWITCH FOR UNIT MOUNTING.
- ACCESSORIES:** PROVIDE WITH GRAVITY BACKDRAFT DAMPER, ALUMINUM BIRD SCREEN WITH MINIMUM 8 3/4" FREE OPENING, AND PREFABRICATED 12" HIGH INSULATED ROOF CURB WITH OPTIONAL WOOD NAILER.  
MFR: PENN VENTILATOR; MODEL DOMEX WITH LEK-TROL SPEED CONTROL AND UNI-BEAM CURB OR APPROVED EQUIVALENT.

**2.4 AIR INLETS**

- TOP REGISTERS (TR): RITUS MODEL 350RL OR APPROVED EQUIVALENT. SIZES AS SHOWN ON THE DRAWINGS. PROVIDE WITH OPPOSED BLADE DAMPER (MODEL AG-15).

**PART 3 - EXECUTION**

**3.1 GENERAL**

- ALL CUTTING, PATCHING AND CORE DRILLING REQUIRED SHALL BE DONE BY THIS CONTRACTOR.
- PATCHING: PATCH EXISTING CONSTRUCTION AND FINISHES DEFACED, DAMAGED OR LEFT INCOMPLETE DUE TO ALTERATIONS AND REMOVALS. FINISH PATCHED SURFACES AS CLOSELY AS PRACTICABLE TO EXISTING CONDITIONS.
- MATERIALS OR ITEMS DEMOLISHED AND NOT DESIGNATED TO BECOME THE PROPERTY OF THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE OWNER'S PROPERTY IN A LEGAL MANNER.
- IMMEDIATELY RESTORE TO SERVICE AND REPAIR ANY DAMAGE CAUSED BY CONTRACTOR'S WORKMEN TO EXISTING PIPE AND CONDUITS, WIRES, CABLES, ETC., WHICH ARE NOT SCHEDULED FOR DISCONTINUATION OR ABANDONMENT.
- THE EXISTING BUILDING SHALL NOT BE USED AS A WORK SHOP. NEITHER SHALL THE FURNISHINGS OR EQUIPMENT IN ANY ROOM BE USED AS WORK BENCHES. SHOULD ANY DAMAGE OCCUR DURING THE PROGRESS OF THE WORK TO ANY FURNITURE, FIXTURES OR EQUIPMENT, IT SHALL BE MADE GOOD BY THE CONTRACTOR WITHOUT EXTRA COST TO THE OWNER.
- ALL DEBRIS SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE SITE PROPERLY.
- IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO CLOSELY SCHEDULE HIS WORK SO THAT THE WORK WILL BE INSTALLED AT THE PROPER TIME AND WITHOUT DELAYING THE COMPLETION OF THE PROJECT.
- WHEN CONFLICT OCCURS IN THE SPECIFICATIONS OR ON THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OR GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
- ALL STAGES OF THE INSTALLATION WILL BE INSPECTED FOR COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY PORTION OF THE CONSTRUCTION THAT DOES NOT MEET SUCH REQUIREMENTS, DUE TO THE SATISFACTION OF THE OWNER, OR HIS REPRESENTATIVE.
- ANY DEVIATION OR SUBSTITUTION TO ITEMS OR LABOR SPECIFIED OR DESCRIBED IN THE CONTRACT DOCUMENTS WILL ONLY BE PERMITTED UPON WRITTEN APPROVAL BY THE OWNER.
- THE CONTRACTOR SHALL PROVIDE ALL ITEMS OF LABOR AND MATERIALS AS SPECIFIED ON THE DRAWINGS AND HEREIN, AND AS REQUIRED TO COMPLETE THE INTENDED INSTALLATIONS.
- UPON COMPLETION OF THE WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIALS AND SCRAP LEAVING HIS WORK IN PERFECT CONDITION.

**3.2 SUBMITTALS**

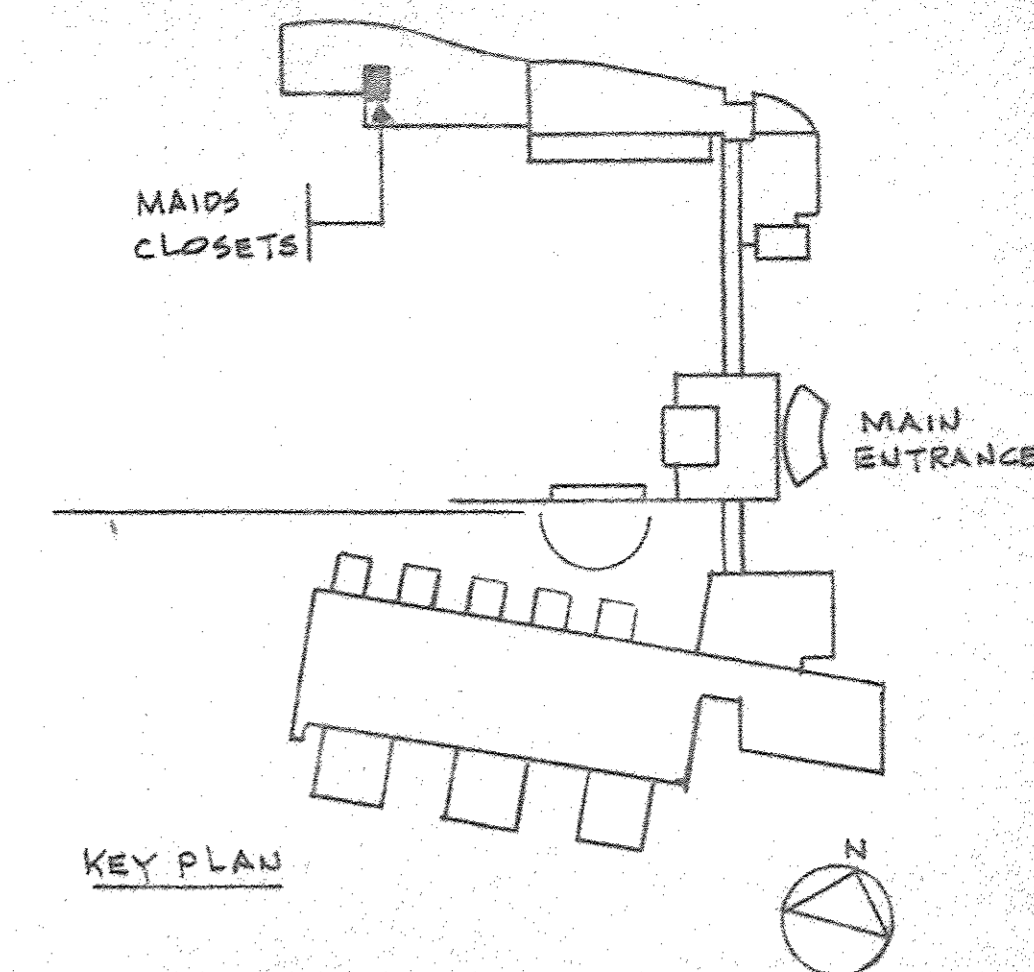
- THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER A MINIMUM OF (3) THREE COPIES OF DUCTWORK SHOP DRAWINGS AT A SCALE OF 3/8" = 1' - 0", MANUFACTURER'S CATALOGUE CUTS AND PERFORMANCE DATA OF ALL SPECIFIED EQUIPMENT AND BALANCING REPORT FOR REVIEW.

**3.3 METAL DUCTWORK**

- INSTALL AND SUPPORT DUCTWORK IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

**3.4 TESTING AND BALANCING**

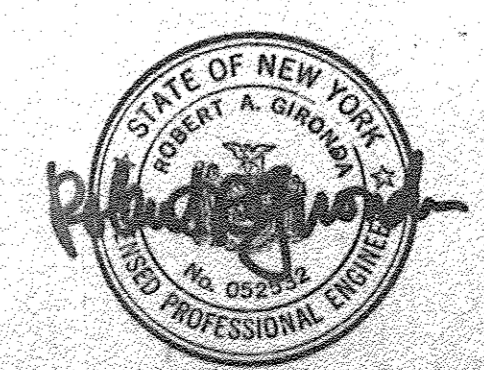
- TEST, ADJUST AND BALANCE THE EXHAUST SYSTEM TO WITHIN 5% OF THE CFM QUANTITIES SHOWN FOR EACH AIR INLET ON THE DRAWING.
- RECORD AND REPORT DATA
  - RECORD ALL DATA OBTAINED DURING TESTING, ADJUSTING AND BALANCING ON AABC OR NEBB CERTIFIED FORMS.
  - REPORT SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO THE FOLLOWING:
    - FAN RPM
    - EACH EXHAUST REGISTER'S FLOW RATE
    - SYSTEM STATIC AND TOTAL PRESSURE



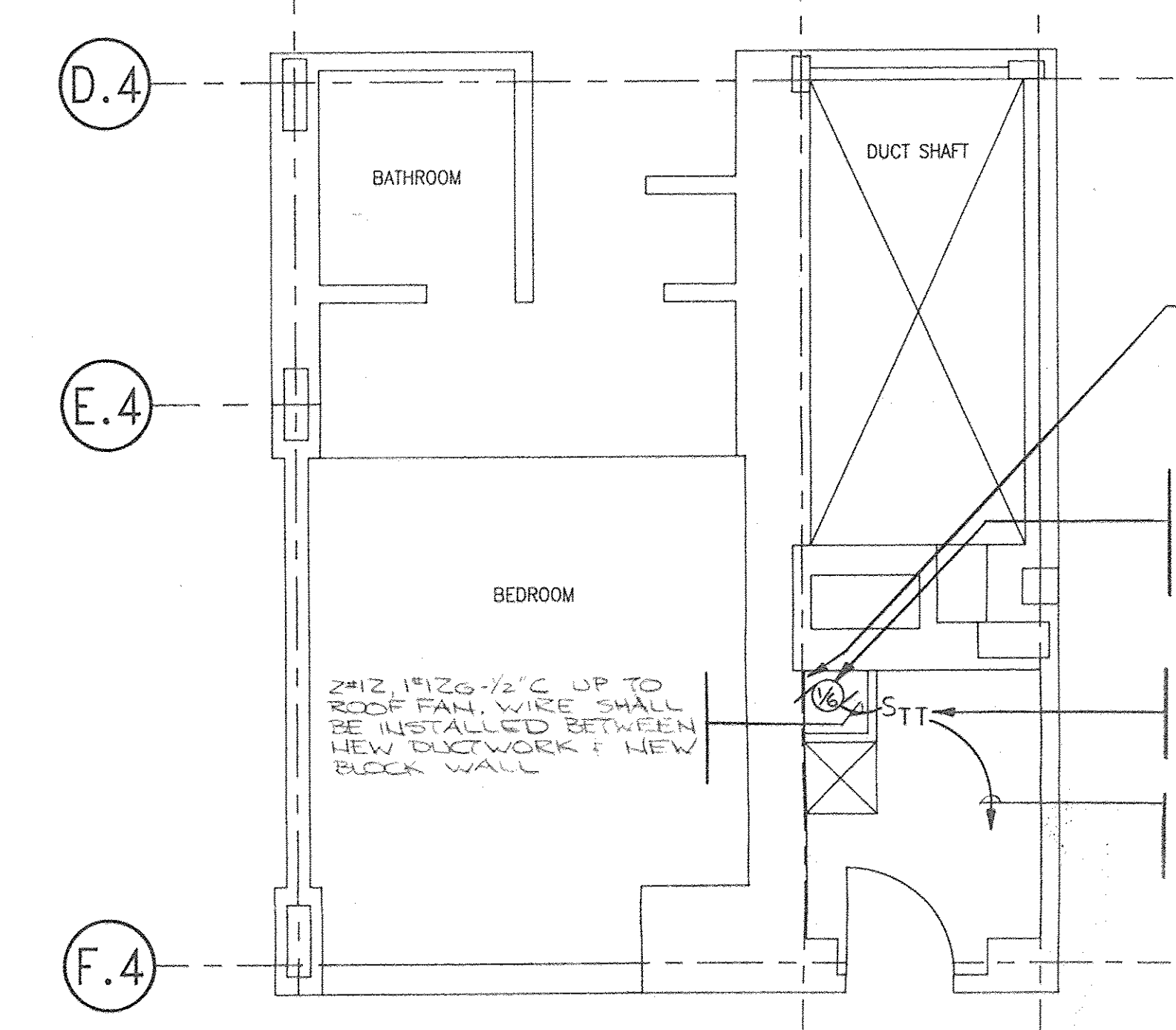
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Sutton Park North • 465 Columbus Avenue  
Valhalla, NY 10595-1526

|                               |          |        |           |   |
|-------------------------------|----------|--------|-----------|---|
| PROJECT TITLE                 |          |        |           |   |
| INSTALLATION OF MOP RECEPTORS |          |        |           |   |
| PALISADES, N.Y.               |          |        |           | US HEADQUARTERS DESIGN AND ENGINEERING<br>208 Harbor Drive<br>P.O. Box 10501<br>Stanford, CT 06904-2501 |
| DRAWING TITLE                 |          |        |           |   |
| FLOOR PLAN AND NOTES          |          |        |           | DRAWING No.<br><b>H-1</b>   |
| DRAWN BY                      | SCALE    | DATE   | PROJ. No. |   |
| MF                            | AS NOTED | 5-6-91 | 248.00    |   |
| BUILDING                      | FLOOR    | SECT.  |           |   |



32      31      30.5



FIRST FLOOR;  
 RELOCATE EXISTING ELECTRICAL DEVICE ON THIS WALL THAT WOULD CONFLICT WITH THE INSTALLATION OF THE NEW DUCTWORK & BLOCK WALL.

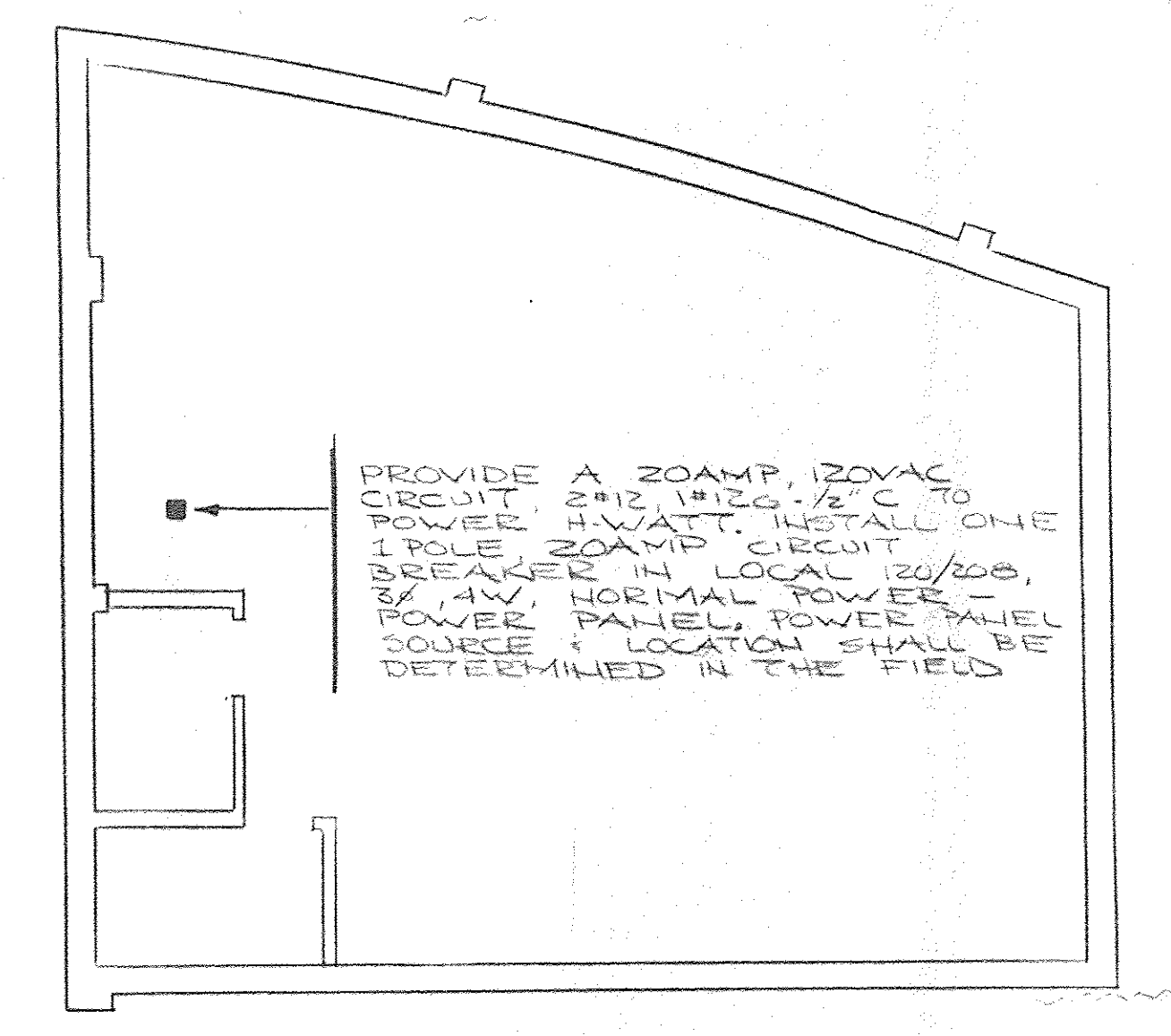
NEW EXHAUST FAN MOTOR ON ROOF COORDINATE EXACT LOCATION WITH MECH. DWG. H-I. INSTALL SPEED CONTROLLER SWITCH (PROVIDED BY MECH.) IN FAN HOUSING ON ROOF.

NEW SINGLE POLE, 20A, 120VAC THERMAL OVERLOAD SWITCH WITH PILOT LIGHT FLUSH MOUNT 5'-0" ABOVE FLOOR.

2#12, 1#12G-1/2" C ABOVE CEILING TO AN EXISTING 120VAC BEDROOM RECEPTACLE CIRCUIT. CIRCUIT SHALL BE DETERMINED IN THE FIELD.

**5TH FLOOR MAIDS CLOSET**

SCALE: 1/4" = 1'-0"



**MECH. EQUIP. RM. 2  
 ELEVATION 115'-0"**

**SCOPE OF WORK**

1. PROVIDE ELECTRIC SERVICE TO EXHAUST SYSTEM FOR MAID'S CLOSETS IN RESIDENT'S WING.
2. PROVIDE POWER TO HEAT TRACE IN MECHANICAL ROOM 2.

**ELECTRICAL SPECIFICATIONS**

**PART I - GENERAL**

**1.1 GENERAL CONDITIONS**

- A. THE GENERAL CONDITIONS FOR CONSTRUCTION (SHORT FORM) PREPARED BY IBM REAL ESTATE AND CONSTRUCTION SHALL FORM A PART OF THESE SPECIFICATIONS AND ALL WORK SHALL BE SUBJECT TO THE PROVISIONS THEREOF.

**1.2 WORK INCLUDED**

- A. WORK OF THIS SECTION INCLUDES ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO COMPLETE THE ELECTRICAL INSTALLATION AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
  1. POWER DISTRIBUTION.
  2. CUTTING AND PATCHING FOR ELECTRICAL WORK.
  3. CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS.

**1.3 RELATED WORK**

- A. ALL MOTORS AND MOTOR DRIVEN EQUIPMENT WILL BE FURNISHED AND INSTALLED BY OTHERS, CONNECTED UNDER THIS SECTION.

**1.4 QUALITY ASSURANCE**

- A. **CODES**
  1. ALL ELECTRIC WORK SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF THE LATEST EDITIONS OF THE FOLLOWING:
    - A) NATIONAL ELECTRICAL CODE (NEC)
    - B) NATIONAL FIRE CODE (NFPA)
    - C) APPLICABLE STATE BUILDING CODE
  2. ALL ELECTRICAL WORK SHALL ALSO COMPLY WITH ANY APPLICABLE REQUIREMENTS OF LOCAL AUTHORITIES, FIRE DEPARTMENT, UTILITY COMPANIES, ETC.
- B. **STANDARDS**
  1. ALL ELECTRICAL MATERIALS, EQUIPMENT, AND INSTALLATION SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF UL, NEMA, ANSI, IEEE, ICEA, AND FM. ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE UL AND/OR ETL LISTED AND LABELED.

**PART 2 - PRODUCTS**

**2.1 FIRE SAFING:**

- A. **SILICONE SEALANT:**  
 FIRE RESISTANT SILICONE SEALANT TO SEAL ALL JOINTS 1/2" WIDE OR LESS IN FLOORS AND FIRE RATED WALLS AND PARTITIONS PENETRATED BY ELECTRICAL CONDUITS; SHALL BE SEALED TO PREVENT THE PASSAGE OF FIRE, SMOKE, OR TOXIC GASES FROM ONE FLOOR OR AREA TO ANOTHER.  
 "FIRE STOP SEALANT" BY DOW CORNING OR "RTV 7493" BY GENERAL ELECTRIC COMPANY.

**2.2 RACEWAY AND FITTINGS**

- A. ELECTRICAL METALLIC TUBING (EMT) SHALL BE GALVANIZED STEEL, MINIMUM 1/2 INCH TRADE SIZE.
- B. FLEXIBLE CONDUIT SHALL BE GALVANIZED STEEL. PROVIDE WITH PVC LIQUIDTIGHT JACKET WHERE INSTALLED OUTDOORS OR IN WET AREAS.
- C. EMT CONNECTORS AND COUPLINGS SHALL BE STEEL SET-SCREW TYPE (DIE-CAST NOT PERMITTED), EXCEPT THAT OUTDOORS OR IN WET AREAS THEY SHALL BE RAIN-TIGHT COMPRESSION TYPE. ALL CONNECTIONS SHALL BE INSULATED - THROAT TYPE.
- D. BOXES AND FITTINGS SHALL BE GALVANIZED SHEET - STEEL TYPE FOR INDOOR, DRY LOCATIONS. BOXES AND FITTINGS FOR OUTDOOR OR WET LOCATIONS SHALL BE CAST-METAL WITH GASKETED COVERS.
- E. PROVIDE ALL DEVICE BOX ACCESSORIES REQUIRED FOR EACH INSTALLATION, INCLUDING SUPPORTS, BRACKETS, EXTENSION RINGS, FIXTURE STUDS, CABLE CLAMPS, DEVICE COVERS, ETC.

**2.3 WIRE AND CABLE**

- A. ALL CONDUCTORS SHALL BE COPPER - SOLID FOR #10 AWG AND SMALLER.
- B. SINGLE CONDUCTOR WIRE SHALL HAVE TYPE THW, 75°C THERMOPLASTIC INSULATION.
- C. ARMORED CABLE (BX) SHALL BE TYPE AC, WITH MAXIMUM #10 AWG CONDUCTORS, 60°C. TYPE TW INSULATION, AND A GREEN-COLORED INSULATED GROUND CONDUCTOR.

**2.4 WIRING DEVICES**

- A. PROVIDE WIRING DEVICES IN TYPES AND RATINGS INDICATED, SPECIFICATION GRADE.
- B. PROVIDE COMPATIBLE WALLPLATE FOR EACH DEVICE.

**2.5 MOTOR CONTROLS**

- A. STARTERS FOR FRACTIONAL-HORSEPOWER SINGLE PHASE MOTORS SHALL BE TOGGLE TYPE SWITCH WITH OVERLOAD PROTECTION. WHERE LOCATED REMOTE FROM THE MOTOR, PROVIDE A PILOT LIGHT IN THE STARTER ENCLOSURE.

**2.6 MISCELLANEOUS ITEMS**

- A. PROVIDE ALL MISCELLANEOUS SUPPORT STEEL, HANGER RODS, BEAM CLAMPS, NAMEPLATES, I.D. LABELS, WIRE CONNECTORS, ETC. AS INDICATED, OR AS REQUIRED FOR A COMPLETE INSTALLATION.

**PART 3 - EXECUTION**

**3.1 INSPECTION**

- A. EXAMINE THE AREAS AND CONDITIONS WHERE ELECTRICAL WORK IS TO BE INSTALLED, AND NOTIFY THE ENGINEER OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF WORK. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE ENGINEER.

**3.2 INSTALLATIONS OF RACEWAY, FITTINGS, AND BOXES**

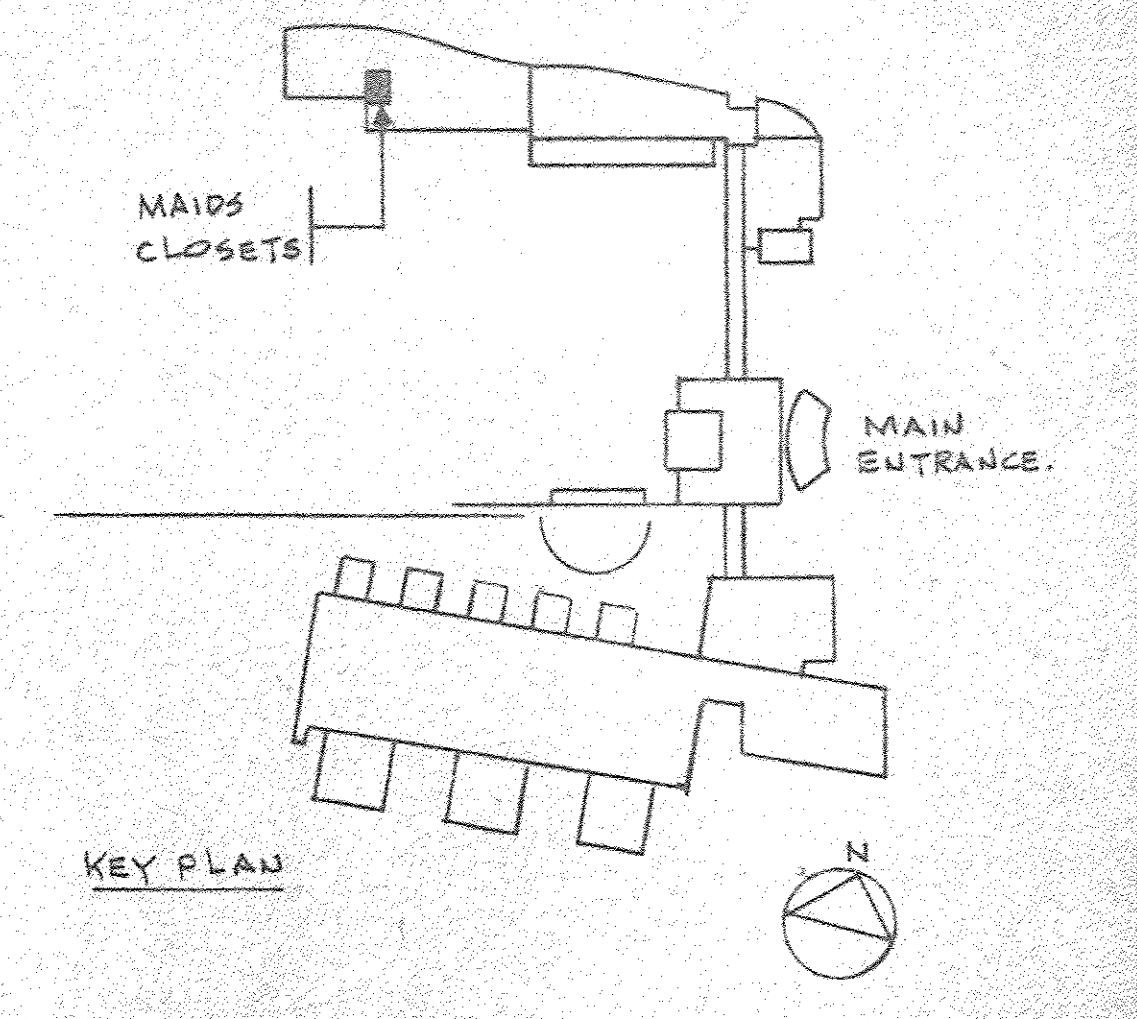
- A. INSTALL ALL RACEWAY, FITTINGS, AND BOXES WHERE INDICATED. WHERE ROUTING OR LOCATIONS ARE NOT SHOWN, THE CONTRACTOR SHALL DETERMINE THEM IN COORDINATION WITH EXISTING CONDITIONS AND ALL OTHER TRADES, AND FOR A NEAT, WORKMANLIKE INSTALLATION.
- B. IN ALL ARCHITECTURALLY FINISHED AREAS, RACEWAY SHALL BE CONCEALED AND BOXES SHALL BE RECESSED.
- C. RACEWAY AND BOXES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE.
- D. INSTALL COVERS ON ALL BOXES AND FITTINGS. PLUG ALL UNUSED OPENINGS.
- E. UNLESS OTHERWISE INDICATED, ALL WIRING SHALL BE INSTALLED IN EMT. FINAL CONNECTIONS TO MOTORS, AND OTHER ITEMS REQUIRING A FLEXIBLE CONNECTION SHALL BE MADE WITH FLEXIBLE METAL CONDUIT. CONDUIT SIZES SHALL BE AS INDICATED. WHERE NOT INDICATED, SIZES SHALL BE PER NEC.

**3.3 INSTALLATION OF WIRE AND CABLE**

- A. INSTALL A GREEN-COLORED INSULATED GROUND CONDUCTOR IN EACH RACEWAY, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.
- B. WHERE CONCEALED IN HUNG CEILINGS AND PARTITIONS, ARMORED CABLE MAY BE INSTALLED IN LIEU OF CONDUIT AND WIRE FOR BRANCH CIRCUITS. IN HUNG CEILINGS, SUPPORT CABLES FROM THE STRUCTURE - DO NOT LEAVE LYING ON CEILING, DUCTS, OR PIPES.

**3.4 INSTALLATION OF DEVICES AND EQUIPMENT**

- A. INSTALL AND CONNECT ALL DEVICES AND EQUIPMENT AS INDICATED, AND AS REQUIRED FOR INTENDED OPERATION.
- B. INSTALL ALL MISCELLANEOUS SUPPORTS AS REQUIRED.
- C. INSTALL ENGRAVED LAMINATED PLASTIC NAMEPLATES ON ALL SWITCHES, AND STARTERS INDICATING I.D. NUMBER, OR THE I.D. NAME OR NUMBER OF THE EQUIPMENT SERVED.
- D. PANELBOARD CIRCUIT DIRECTORIES SHALL BE TYPED AND WRITTEN WITH AS-BUILT CIRCUIT DESIGNATIONS, INCLUDING ROOM NUMBERS WHERE APPLICABLE.
- E. TEST ALL DEVICES AND EQUIPMENT FOR CORRECT OPERATION. REPAIR OR REPLACE AS REQUIRED.
- F. UPON COMPLETION OF WORK, LEAVE THE INSTALLATION CLEAN AND FULLY OPERATIONAL.



| No. | REVISION DESCRIPTION | APPROVAL INITIAL AND DATE |
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**Getter, Segner & Gironda, P.E., P.C.**  
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|---|------------------------|-----------------|------------------------|---|
| PROJECT TITLE:<br><b>INSTALLATION OF MOP RECEPTORS<br/>                 PALISADES, N.Y.</b> |                        |                 |                        | <br>US HEADQUARTERS<br>DESIGN AND<br>ENGINEERING<br>208 Harbor Drive<br>P.O. Box 10001<br>Stamford, CT 06904-2501 |
| DRAWING TITLE:<br><b>FLOOR PLAN AND NOTES</b>   |                        |                 |                        |   |
| DRAWN BY:<br>RAM  | SCALE:<br>1/4" = 1'-0" | DATE:<br>5-6-91 | DRAWING No.:<br>248.00 |   |
| BUILDING:   | FLOOR:                 | SECT.:          | PROJ. No.:             |   |

