# CHASE

# JP MORGAN CHASE, N.A.

## NORTH AVE. (NEW ROCHELLE)

270 NORTH AVE.
NEW ROCHELLE, NY 10804
CHASE OVP#48100R003097

*BID SET- 2024.03.01*

## PROJECT DIRECTORY

**OWNER**
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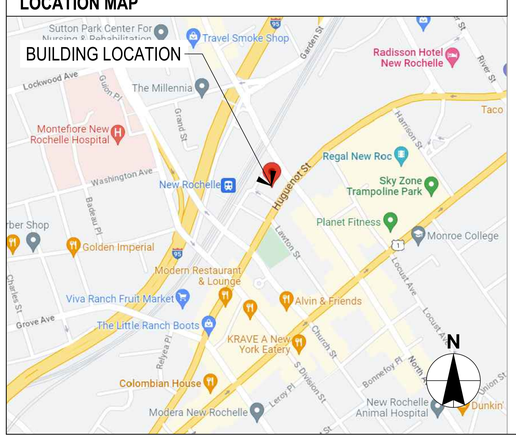
## LOCATION MAP




## CODE INFORMATION

JURISDICTION
CITY OF NEW ROCHELLE
515 NORTH AVE.
NEW ROCHELLE, NY 10801
(914) 654-2035
WWW.NEWROCHELLENY.COM

APPLICABLE CODES

| | |
|---|---|
| BUILDING CODE: | 2020 NEW YORK STATE BUILDING CODE<br>W/ 2018 INTERNATIONAL BUILDING CODE (IBC) AMENDMENTS |
| EXISTING BUILDING CODE: | 2020 NEW YORK STATE EXISTING BUILDING CODE<br>W/ 2018 INTERNATIONAL BUILDING CODE (IEBC) AMENDMENTS |
| MECHANICAL CODE: | 2020 NEW YORK STATE MECHANICAL CODE<br>W/ 2018 INTERNATIONAL MECHANICAL CODE (IMC) AMENDMENTS |
| PLUMBING CODE: | 2020 NEW YORK STATE PLUMBING CODE<br>W/ 2018 INTERNATIONAL PLUMBING CODE (IPC) AMENDMENTS |
| ENERGY CONSERVATION CODE: | 2020 NEW YORK STATE ENERGY CODE<br>W/ 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) AMENDMENTS |
| ELECTRICAL CODE: | 2017 NEW YORK STATE ELECTRICAL CODE<br>W/ NFPA 70, 2017 AMENDMENTS |
| FIRE CODE: | 2020 NEW YORK STATE FIRE CODE<br>W/ 2018 INTERNATIONAL FIRE CODE (IFC) AMENDMENTS |
| LIFE SAFETY CODE: | 2020 NEW YORK STATE FIRE CODE<br>W/ 2018 INTERNATIONAL FIRE CODE (IFC) AMENDMENTS |
| ACCESSIBILITY CODE: | 2010 ADA STANDARDS |

SCOPE OF WORK
REPLACING EXISTING UTILITIES OF EXISTING PARKING GARAGE. THE SCOPE INCLUDES CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL.
CIVIL SCOPE SUBMITTED UNDER SEPARATE COVER.

## SHEET INDEX

W/ REVISION ●
W/O REVISION ○
NOT ISSUED

| | | DRAWING ISSUE | 2023.09.08 PERMIT SET | 2024.03.01 BID SET |
|---|---|---|---|---|
| **ARCHITECTURAL** | | | | |
| A0.1 | COVER SHEET | | ○ | ○ |
| **STRUCTURAL** | | | | |
| S0.0 | GENERAL STRUCTURAL NOTES | | ○ | ○ |
| S0.1 | STRUCTURAL SPECIAL INSPECTIONS | | ○ | ○ |
| S1.0 | SECOND FLOOR SUPPORT STRUCTURE | | ○ | ○ |
| S2.0 | ROOF DUNNAGE PLAN | | ○ | ○ |
| S3.0 | SECTIONS AND DETAILS | | ○ | ○ |
| **MECHANICAL** | | | | |
| M0.0 | MECHANICAL LEGENDS AND GENERAL NOTES | | ○ | ○ |
| M1.0 | MECHANICAL FLOOR PLAN | | ○ | ○ |
| M1.1 | MECHANICAL PIPING PLAN | | ○ | ○ |
| M1.2 | MECHANICAL ROOF PLAN | | ○ | ○ |
| M2.0 | MECHANICAL SCHEDULES | | ○ | ○ |
| M3.0 | MECHANICAL DETAILS | | ○ | ○ |
| M3.1 | MECHANICAL DETAILS | | ○ | ○ |
| **ELECTRICAL** | | | | |
| E0.0 | LEGEND, ABBREVIATIONS AND NOTES | | ○ | ○ |
| E1.0 | POWER PLAN | | ○ | ○ |
| E1.1 | ROOF POWER PLAN | | ○ | ○ |
| E2.0 | POWER DETAILS AND SCHEDULES | | ○ | ○ |

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CORESTATES ARCHITECTS, INC.
ARCHITECTURE AND ENGINEERING P.C.
NEW YORK
CERTIFICATE OF AUTHORIZATION
No. 001379

ARCHITECT OF RECORD

**ISSUED FOR BID**

JAMES T. LALLI
**NEW YORK**
LICENSE NO. 034334

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

| ISSUE | DATE | DESCRIPTION |
|---|---|---|
| | 2023.09.08 | PERMIT SET |
| | 2024.03.01 | BID SET |

PROJECT INFORMATION

| | |
|---|---|
| PROJECT NO: | JPM.36475.BAU |
| DATE: | AS NOTED |
| **PROTOTYPE:** | **20.5** |
| DRAWN BY: | D.WHITEHOUSE |
| CHECKED BY: | N.MENDENHALL |
| VERSION: | DE_1.00 |

SHEET TITLE

COVER SHEET

SHEET NUMBER

A0.1

# GENERAL STRUCTURAL NOTES

**GENERAL NOTES**

1. CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND ENGINEERS.
2. DETAILS SHOWN IN ANY SECTION APPLY TO ALL SIMILAR SECTIONS AND CONDITIONS UNLESS NOTED OTHERWISE.
3. CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT ALL WORK IN PROGRESS UNTIL THE BUILDING IS COMPLETED.
4. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS AND THE ARCHITECTURAL AND MECHANICAL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ARCHITECT PRIOR TO PERFORMING WORK. IN CASE OF CONFLICT THE MOST STRINGENT CONDITION SHALL APPLY.
5. ALL DIMENSIONS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND WITH EQUIPMENT MANUFACTURER (I.E. WINDOW, DOOR, AIR HANDLER, ETC.). CONTRACTOR MUST OBTAIN AN ARCHITECTURAL DIRECTIVE IN CASE OF ANY CONFLICT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN IN STRUCTURAL DRAWINGS.
6. DO NOT SCALE OFF DRAWINGS.

**GOVERNING BUILDING CODE: 2020 NEW YORK STATE BUILDING CODE (2018 IBC)**

| | | |
|---|---|---|
| 1. | RISK CATEGORY | = II |
| 2. | MINIMUM FIRST FLOOR LIVE LOADS: | |
| | A. UNIFORM LIVE LOAD | = 100 PSF |
| | B. CONCENTRATED LIVE LOAD | = 2000 LB |
| | C. IMPACT LOAD | = N/A |
| | D. LIVE LOAD REDUCTION | = N/A |
| 3. | ROOF DEAD LOAD | = 25 PSF |
| 4. | MINIMUM ROOF LIVE LOAD | = 20 PSF |
| 5. | ROOF SNOW DATA: | |
| | A. SNOW IMPORTANCE FACTOR, Is | = 1.00 |
| | B. GROUND SNOW LOAD, Pg | = 20 PSF |
| | C. FLAT ROOF SNOW LOAD, Pf | = 20 PSF |
| | D. SNOW EXPOSURE FACTOR, Ce | = 1.0 |
| | E. THERMAL FACTOR, Ct | = 1.0 |
| | F. DRIFT LOAD DATA INDICATED ON ROOF FRAMING PLAN | |
| 6. | WIND DESIGN DATA: | |
| | A. WIND IMPORTANCE FACTOR, Iw | = 1.0 |
| | B. ULTIMATE DESIGN WIND SPEED (3 SECOND GUST), $V_{ULT}$ | = 116 MPH |
| | NOMINAL DESIGN WIND SPEED, $V_{ASD}$ | = 90 MPH |
| | C. WIND EXPOSURE CATEGORY | = B |
| | D. INTERNAL PRESSURE COEFFICIENTS | = ±0.18 |
| | E. WIND DESIGN PRESSURES PER ASCE 7-10 | |
| 7. | SEISMIC DESIGN DATA: | |
| | A. SEISMIC IMPORTANCE FACTOR, Ie | = 1.00 |
| | B. MAPPED SPECTRAL RESPONSE COEFFICIENTS | |
| | Ss | = 0.289 |
| | S1 | = 0.060 |
| | C. SITE CLASS | = D (ASSUMED) |
| | D. DESIGN SPECTRAL RESPONSE COEFFICIENTS | |
| | SDS | = 0.303 |
| | SD1 | = 0.097 |
| | E. SEISMIC DESIGN CATEGORY | = B |
| 8. | FOUNDATION DESIGN DATA | |
| | A. ALLOWABLE BEARING PRESSURE | = 1500 PSF (ASSUMED) |
| | B. MINIMUM FROST DEPTH | = 36" |
| 9. | FLOOD DESIGN DATA: | N/A |
| 10. | SPECIAL LOADS: | N/A |

**STRUCTURAL STEEL**

1. THE USE OF ROLLED STEEL SECTIONS AND/OR BOLTS MANUFACTURED OUTSIDE THE UNITED STATES WILL REQUIRE VERIFICATION THAT THE PRODUCTS COMPLY WITH APPLICABLE ASTM STANDARDS. MILL CERTIFICATES WILL BE REQUIRED FOR ALL STEEL. STRUCTURAL STEEL GRADES NOT MEETING THE ASTM SPECIFICATIONS FOR ROLLED SHAPES LISTED IN AISC STEEL CONSTRUCTION MANUAL TABLE 2-4 WILL REQUIRE TESTING BY AN APPROVED LABORATORY.
2. ALL STRUCTURAL STEEL WORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST A.I.S.C. SPECIFICATIONS.
3. STRUCTURAL STEEL SHALL CONFORM TO:

| | |
|---|---|
| WIDE FLANGE (WF) | ASTM A992 (50 KSI) |
| SHAPES (L,T,C,PL) | ASTM A36 |
| STRUCTURAL TUBE (HSS) | ASTM A500 (46 KSI) |
| STEEL PIPE (HSS) | ASTM A500 (42 KSI) |
| ANCHOR BOLTS | ASTM F1553 (36 KSI) U.N.O. |
| FRAMING BOLTS | ASTM A325 OR A490 |
| SHEAR STUDS | ASTM A108 |
| WELDING ELECTRODES | E70XX |

4. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM SPECIFICATION A325 AND SHALL BE PROVIDED WITH HARDENED WASHERS UNDER THE TURNED ELEMENT (NUT OR BOLT HEAD).
5. INSTALLATION AND TIGHTENING OF ALL HIGH STRENGTH BOLTS SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
6. SHOP CONNECTIONS MAY BE WELDED OR HIGH STRENGTH BOLTED. ALL BOLTS SHALL BE 3/4" DIAMETER MINIMUM. ALL CONNECTIONS SHALL CONFORM TO THE TYPICAL CONNECTION DETAILS SHOWN ON THE PLANS UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.
7. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE, ANS01.1, ALL WELDING SHALL BE PERFORMED USING E70XX U.N.O.
8. CUTS, HOLES, COPINGS, ETC. REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN IN THE STRUCTURAL STEEL SHOP DRAWINGS AND SHALL BE MADE IN THE SHOP. HOLES SHALL BE REINFORCED AS REQUIRED BY THE ENGINEER.
9. BURNING OF HOLES, CUTS, ETC. IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED, EXCEPT WITH THE SPECIFIC APPROVAL OF THE ENGINEER.
10. ALL STEEL MEMBERS EXPOSED TO WEATHER (SUCH AS LINTELS, DOOR JAMBS, ETC.) SHALL BE GALVANIZED.
11. FOR MISCELLANEOUS STEEL, SEE ARCHITECTURAL DRAWINGS.
12. ANY STEEL MEMBERS REQUIRED BY THE ELECTRICAL OR MECHANICAL TRADES FOR THE SUPPORT OF THEIR EQUIPMENT, WHICH ARE NOT SHOWN ON ARCHITECTURAL OR STRUCTURAL DRAWINGS, SHALL BE PROVIDED BY THE TRADE REQUIRING SUCH SUPPORT.
13. SEE SPECIFICATIONS FOR PAINTING OF STRUCTURAL STEEL. ALL FABRICATION AND ERECTION MARKS SHALL BE COVERED DURING FIELD TOUCH-UP PAINTING.
14. ALL CONNECTIONS TO BE DOUBLE ANGLE FRAMED BEAM CONNECTION PER AISC UNLESS NOTED OTHERWISE. ALL BOLTS TO BE 3/4" MINIMUM DIAMETER UNLESS NOTED OTHERWISE. SHOP CONNECTIONS MAY BE WELDED OR BOLTED. WELDS ARE TO BE EQUAL IN STRENGTH TO BOLTS.
15. DESIGN CONNECTIONS FOR THE MAXIMUM SHEAR (V IN KIPS) LISTED IN THE TABLES FOR "ALLOWABLE UNIFORM LOADS IN KIPS FOR BEAMS LATERALLY SUPPORTED" AT THE BOTTOM OF EACH PAGE IN THE "PROPERTIES AND REACTION VALUES", PART 2 OF THE LATEST EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION". PROVIDE SIGNED AND SEALED DRAWINGS AND CALCULATIONS BY A PROFESSIONAL ENGINEER.
16. A REGISTERED PROFESSIONAL ENGINEER SHALL INSPECT THE WELDING AND HIGH-STRENGTH BOLTING OF STRUCTURAL STEEL FRAMING AND WELDING, BOLTING AND FASTENING OF LIGHT WEIGHT MATERIAL SYSTEMS, AND METAL SIDINGS OF BUILDING.
17. ALL STEEL MEMBERS SHALL BE MADE IN AN APPROVED FABRICATOR'S SHOP; THE APPROVED FABRICATOR SHALL SUBMIT THE CERTIFICATE OF COMPLIANCE TO THE BUILDING INSPECTOR PRIOR TO ERECTION.

**SHOP DRAWING SUBMITTALS**

1. THE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW AND APPROVE THEM, AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND APPROVED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. PROVIDE AMPLE TIME FOR THE BUILDING OFFICIAL TO REVIEW THE DOCUMENTS.
2. REFER TO PROJECT SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.
3. SHOP DRAWINGS AND SUBMITTALS WILL BE REVIEWED FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS.
4. SUBMITTAL REVIEW WILL NOT BE CONDUCTED FOR THE PURPOSE OF DETERMINING THE ACCURACY AND COMPLETENESS OF OTHER DETAILED INFORMATION SUCH AS DIMENSIONS AND QUANTITIES, OR FOR SUBSTANTIATING INSTRUCTIONS FOR INSTALLATION OR PERFORMANCE OF EQUIPMENT OR SYSTEMS DESIGNED BY THE CONTRACTOR. ALL OF THIS REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.
5. REVIEW SHALL NOT CONSTITUTE APPROVAL OF SAFETY PRECAUTIONS OR OF ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES.
6. APPROVAL OF A SPECIFIC ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.
7. SHOP DRAWINGS AND/OR PRODUCT DATA FOR THE FOLLOWING ITEMS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL:

   A. STRUCTURAL STEEL

8. SHOP DRAWINGS ARE TO BE DISTRIBUTED ONLY FROM RETURNED SUBMITTALS BEARING AN INITIALED REVIEW STAMP AND WORK ON THESE ITEMS SHALL NOT PROCEED UNLESS THE STAMP CLEARLY INDICATES THE DRAWINGS ARE "APPROVED" OR "APPROVED AS NOTED."
9. SHOP DRAWINGS AND/OR PRODUCT DATA FOR THE FOLLOWING ITEMS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. THE ENGINEER'S REVIEW WILL BE LIMITED TO CONFORMANCE WITH DESIGN AND PERFORMANCE CRITERIA SPECIFIED IN THE CONSTRUCTION DOCUMENTS AND THE INTERFACE BETWEEN THESE ITEMS/SYSTEMS AND THE BUILDING STRUCTURE. THIS REVIEW WILL CHECK THE COMPATIBILITY OF LOADS AND POSITIONS OF LOADS IMPARTED ONTO THE BUILDING STRUCTURE, AND COMPATIBILITY OF CONNECTIONS WITH THE BUILDING STRUCTURE. THE MANUFACTURER/SUPPLIER AND IT'S SPECIALTY STRUCTURAL ENGINEER RESPONSIBLE FOR THE DESIGN OF THE ITEM/SYSTEM WILL RETAIN ALL RIGHTS AND RESPONSIBILITIES FOR THE DESIGN OF THE PRODUCT AND THE CONNECTIONS TO THE BUILDING STRUCTURE.

   A. STRUCTURAL STEEL

10. NO WORK ON STRUCTURAL ELEMENTS SUPPORTING OR RELATED TO THESE ITEMS IS TO PROCEED UNLESS THE REVIEW STAMP CLEARLY INDICATES "REVIEWED" OR "REVIEWED, SEE COMMENTS" BY THE STRUCTURAL ENGINEER.
11. CONCRETE IS A PRE-ENGINEERED MATERIAL DESIGNED BY THE SUPPLIER TO MEET THE STRENGTH AND PERFORMANCE CRITERIA SPECIFIED IN THE CONTRACT DOCUMENTS. CONCRETE MIX DESIGNS SHALL BE IN CONFORMANCE WITH ACI 318, CHAPTER 5, AND SHALL BE SUBMITTED TO THE INDEPENDENT TESTING LAB WITH APPROPRIATE HISTORICAL TEST DATA AND ANALYSIS FOR REVIEW AND APPROVAL. SUBMIT MIX DESIGNS AND THE TESTING LAB REVIEW TO THE ARCHITECT/ENGINEER FOR REVIEW.
12. MANY VARIABLES, INCLUDING MIX COMPONENTS AND ENVIRONMENTAL CONDITIONS AFFECT THE QUALITY OF CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING VARIABLES AND REQUESTING MIX MODIFICATIONS AND SHALL BE SOLELY RESPONSIBLE FOR THE QUALITY OF CONCRETE DELIVERED AND PLACED ON THE SITE.
13. GENERAL CONTRACTOR SHALL PRE-CHECK ALL SHOP DRAWINGS BEFORE SUBMISSION TO THE ENGINEER FOR REVIEW. ALL SUBMITTAL MATERIALS MUST BEAR AN INITIALED REVIEW STAMP OF THE GENERAL CONTRACTOR. SUBMITTALS WITHOUT THE REVIEW STAMP OF THE GENERAL CONTRACTOR WILL BE RETURNED WITHOUT REVIEW AND SHALL NOT BE CAUSE FOR CLAIMS OF DELAY.
14. GENERAL CONTRACTOR SHALL SCHEDULE SUBMITTALS SUFFICIENTLY IN ADVANCE OF THE DATE REQUIRED TO ALLOW REASONABLE TIME FOR DELIVERY, PROCESSING AND REVIEW BY THE DESIGN TEAM. THIS SHALL INCLUDE A MINIMUM OF TEN WORKING DAYS, EXCLUDING DELIVERY TIME, FOR ENGINEER'S PROCESSING AND REVIEW OF SHOP DRAWINGS. INCLUDE TIME FOR CONTRACTOR'S RESUBMISSION AND SUBSEQUENT REVIEW IF NECESSARY.
15. SHORTER REVIEW PERIODS WILL ONLY BE HONORED WITH PRIOR WRITTEN CONSENT FROM THE ENGINEER. THESE ACCELERATED SERVICES, AND APPROPRIATE COMPENSATION, MUST BE NEGOTIATED WITH THE ENGINEER AND ARCHITECT IN ADVANCE.
16. THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS, INCLUDING THE USE OF ELECTRONIC FILES, BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF THE INDEPENDENT PREPARATION OF SHOP DRAWINGS, SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON. SUCH USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS WILL NOT BE ALLOWED WITHOUT PRIOR CONSENT FROM THE ENGINEER.
17. WHEN USING ELECTRONIC FORMAT FOR SUBMITTALS, THE CONTRACTOR SHALL PROVIDE ONE PRINTED HARD COPY FOR ENGINEER REVIEW OR EXECUTE AN AGREEMENT FOR REIMBURSING THE ENGINEER FOR PRINTING COSTS FOR ONE COPY.

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ENGINEER OF RECORD

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|---|---|---|
| | 2023.09.08 | PERMIT SET |
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PROJECT INFORMATION

| | |
|---|---|
| PROJECT NO: | JPM.36475.BAU |
| DATE: | AS NOTED |
| **PROTOTYPE:** | **20.5** |
| DRAWN BY: | J.PEREZ |
| CHECKED BY: | E.SCALGIONE |
| VERSION: | DE_1.00 |

SHEET TITLE

GENERAL STRUCTURAL NOTES

SHEET NUMBER

S0.0

# STRUCTURAL SPECIAL INSPECTIONS

**SPECIAL INSPECTIONS**

1. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1705 OF **THE 2020 NEW YORK STATE BUILDING CODE (2018 IBC)**
2. THE OWNER WILL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE REQUIRED SPECIAL INSPECTION ITEMS.
3. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
4. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
   A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE OR WAVE ANY OF THE REQUIREMENTS OF THE DOCUMENTS.
   B. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE PROFESSIONAL-OF-RECORD, AND THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, SUBMIT A COMPLETE LIST OF ALL OUTSTANDING DISCREPANCIES ON A WEEKLY BASIS TO THE OWNER, THE BUILDING OFFICIAL, AND THE PROFESSIONAL-OF-RECORD, UNTIL ALL CORRECTIONS HAVE BEEN COMPLETED.
   C. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE BUILDING CODE.
5. STRUCTURAL OBSERVATION (AS DEFINED IN CHAPTER 17 OF THE BUILDING CODE) IS NOT REQUIRED, UNLESS SPECIFICALLY REQUIRED BY THE BUILDING OFFICIAL.
6. THE FOLLOWING AREAS OF WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE LISTED SECTIONS/LOCATIONS:

A. STEEL CONSTRUCTION (STRUCTURAL STEEL) - SECTION 1705.2.1

| SPECIAL INSPECTION AND VERIFICATION OF STRUCTURAL STEEL CONSTRUCTION | | | | | |
|---|---|---|---|---|---|
| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA | |
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION | REFERENCED STANDARD |
| PRIOR TO WELDING | | | | | |
| Y | 1. QUALIFIED WELDER | ---- | X | 1705.2.1 | N5.4-1, AISC 360-16 |
| Y | 2. VERIFY WELDING PROCEDURES (WPS) AND CONSUMABLE CERTIFICATES | X | ---- | 1705.2.1 | N5.4-1, AISC 360-16 |
| Y | 3. MATERIAL IDENTIFICATION | ---- | X | 1705.2.1 | N5.4-1, AISC 360-16 |
| Y | 4. WELDER IDENTIFICATION | ---- | X | 1705.2.1 | N5.4-1, AISC 360-16 |
| Y | 5. FIT-UP GROOVE WELDS | ---- | X | 1705.2.1 | N5.4-1, AISC 360-16 |
| Y | 6. FIT-UP OF CJP GROOVE WELDS | ---- | X | 1705.2.1 | N5.4-1, AISC 360-16 |
| Y | 7. ACCESS HOLES | ---- | X | 1705.2.1 | N5.4-1, AISC 360-16 |
| Y | 8. FIT-UP OF FILLET WELDS | ---- | X | 1705.2.1 | N5.4-1, AISC 360-16 |
| DURING WELDING | | | | | |
| Y | 1. CONTROL AND HANDLING OF WELDING CONSUMABLES | ---- | X | 1705.2.1 | N5.4-2, AISC 360-16 |
| Y | 2. CRACKED TACK WELDS | ---- | X | 1705.2.1 | N5.4-2, AISC 360-16 |
| Y | 3. ENVIRONMENTAL CONITIONS | ---- | X | 1705.2.1 | N5.4-2, AISC 360-16 |
| Y | 4. WPS FOLLOWED | ---- | X | 1705.2.1 | N5.4-2, AISC 360-16 |
| Y | 5. WELDING TECHNIQUES | ---- | X | 1705.2.1 | N5.4-2, AISC 360-16 |
| Y | 6. STEEL HEADED ANCHORS | X | ---- | 1705.2.1 | N5.4-2, AISC 360-16 |
| AFTER WELDING | | | | | |
| Y | 1. WELD IS CLEANED | ---- | X | 1705.2.1 | N5.4-3, AISC 360-16 |
| Y | 2. SIZE, LENGTH AND LOCATION OF WELDS | X | ---- | 1705.2.1 | N5.4-3, AISC 360-16 |
| Y | 3. WELDS MEET VISUAL ACCEPTANCE CRITERIA | X | ---- | 1705.2.1 | N5.4-3, AISC 360-16 |
| Y | 4. ARC STRIKES | X | ---- | 1705.2.1 | N5.4-3, AISC 360-16 |
| Y | 5. K-AREA | X | ---- | 1705.2.1 | N5.4-3, AISC 360-16 |
| Y | 6. WELD ACCESS HOLES | X | ---- | 1705.2.1 | N5.4-3, AISC 360-16 |
| Y | 7. BACKING AND WELD TABS REMOVED | X | ---- | 1705.2.1 | N5.4-3, AISC 360-16 |
| Y | 8. REPAIR ACTIVITIES | X | ---- | 1705.2.1 | N5.4-3, AISC 360-16 |
| Y | 9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT/NUMBER | X | ---- | 1705.2.1 | N5.4-3, AISC 360-16 |
| Y | 10. NO PROHIBITED WELDS | ---- | X | 1705.2.1 | N5.4-3, AISC 360-16 |
| NON-DESTRUCTIVE TESTING | | | | | |
| N | 1. CJP WELDS (RISK CAT. II) | ---- | X | 1705.2.1 | N5.5, AISC 360-16 |
| N | 2. CJP WELDS (RISK CAT. III OR IV) | X | ---- | 1705.2.1 | N5.5, AISC 360-16 |
| N | 3. WELDED JOINTS SUBJECT TO FATIGUE | X | ---- | 1705.2.1 | N5.5, AISC 360-16 |

A. STEEL CONSTRUCTION (STRUCTURAL STEEL) - SECTION 1705.2.1 (CONTINUED)

| SPECIAL INSPECTION AND VERIFICATION OF STRUCTURAL STEEL CONSTRUCTION | | | | | |
|---|---|---|---|---|---|
| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA | |
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION | REFERENCED STANDARD |
| PRIOR TO BOLTING | | | | | |
| Y | 1. CERTIFICATIONS OF FASTENERS | X | ---- | 1705.2.1 | N5.6-1, AISC 360-16 |
| Y | 2. FASTENERS MARKED | ---- | X | 1705.2.1 | N5.6-1, AISC 360-16 |
| Y | 3. PROPER FASTENERS FOR JOINT | ---- | X | 1705.2.1 | N5.6-1, AISC 360-16 |
| Y | 4. PROPER BOLTING PROCEDURE | ---- | X | 1705.2.1 | N5.6-1, AISC 360-16 |
| Y | 5. CONNECTING ELEMENTS | ---- | X | 1705.2.1 | N5.6-1, AISC 360-16 |
| Y | 6. PRE-INSTALLED VERIFICATION TESTING | ---- | X | 1705.2.1 | N5.6-1, AISC 360-16 |
| Y | 7. PROPER STORAGE | ---- | X | 1705.2.1 | N5.6-1, AISC 360-16 |
| DURING BOLTING | | | | | |
| Y | 1. FASTENER ASSEMBLIES | ---- | X | 1705.2.1 | N5.6-2, AISC 360-16 |
| N | 2. SNUG TIGHT PRIOR TO PRE-TENSIONING | ---- | X | 1705.2.1 | N5.6-2, AISC 360-16 |
| Y | 3. FASTENER COMPONENT | ---- | X | 1705.2.1 | N5.6-2, AISC 360-16 |
| N | 3. PRE-TENSIONED FASTENERS | ---- | X | 1705.2.1 | N5.6-2, AISC 360-16 |
| AFTER BOLTING | | | | | |
| Y | 1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS | X | ---- | 1705.2.1 | N5.6-3, AISC 360-16 |
| OTHER STEEL INSPECTIONS | | | | | |
| Y | 1. STRUCTURAL STEEL DETAILS | ---- | X | 1705.2.1 | N5.8, AISC 360-16 |
| Y | 2. ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL | ---- | X | 1705.2.1 | N5.8, AISC 360-16 |

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ENGINEER OF RECORD

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| ISSUE | DATE | DESCRIPTION |
|---|---|---|
| | 2023.09.08 | PERMIT SET |
| | 2024.03.01 | BID SET |

PROJECT INFORMATION

| | |
|---|---|
| PROJECT NO: | JPM.36475.BAU |
| DATE: | AS NOTED |
| **PROTOTYPE:** | **20.5** |
| DRAWN BY: | J.PEREZ |
| CHECKED BY: | E.SCALGIONE |
| VERSION: | DE_1.00 |

SHEET TITLE

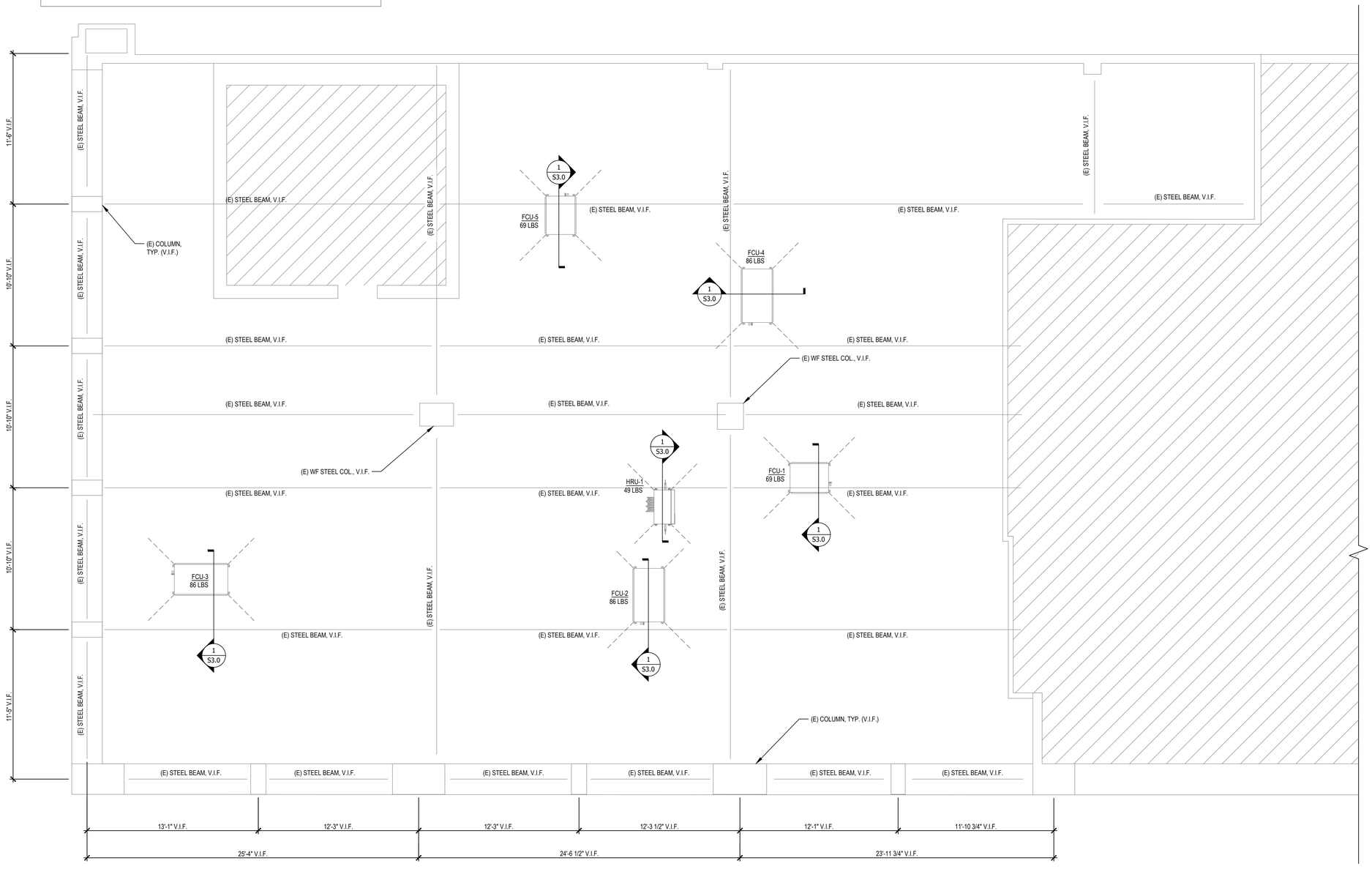
STRUCTURAL SPECIAL INSPECTIONS

SHEET NUMBER

S0.1

ENGINEER'S NOTE:

- CONDITIONS SHOWN ARE BASED ON A LIMITED SURVEY. GENERAL CONTRACTOR TO VERIFY EXISTING CONDITIONS AND REPORT DEVIATIONS TO THE BELOW PLAN TO THE ENGINEER OF RECORD IMMEDIATELY UPON DISCOVERY. REVISIONS TO THE PLANS AND DETAILS MAY BE REQUIRED BASED ON THE VERIFIED CONDITIONS.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING REQUIRED DURING DEMOLITION AND CONSTRUCTION.




SECOND-FLOOR SUPPORT STRUCTURE | SCALE 1/4"=1'-0" | 1

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SHEET TITLE

SECOND-FLOOR SUPPORT STRUCTURE

SHEET NUMBER

S1.0

ENGINEER'S NOTE:

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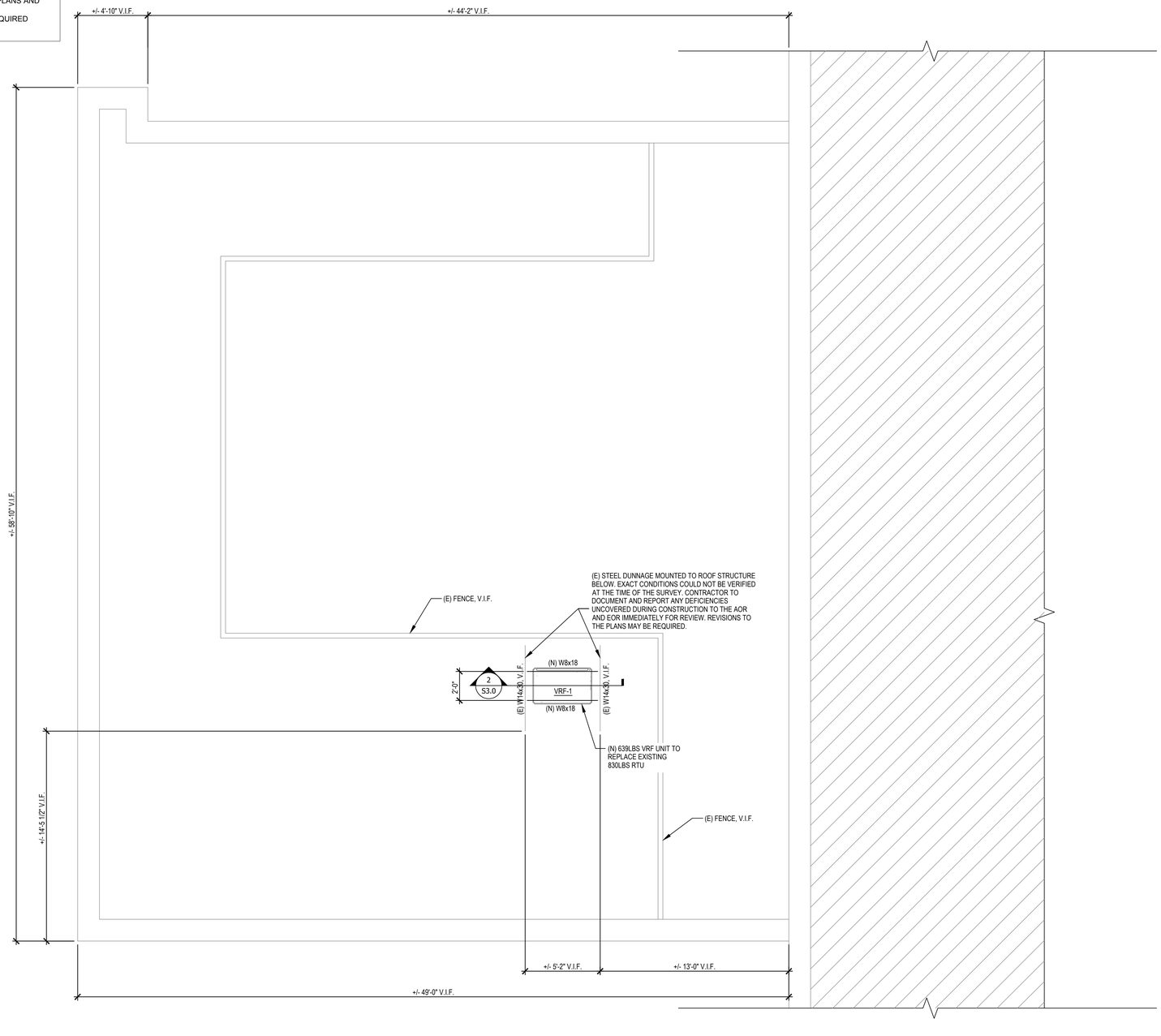


ROOF DUNNAGE PLAN | SCALE 1/4"=1'-0" | 1

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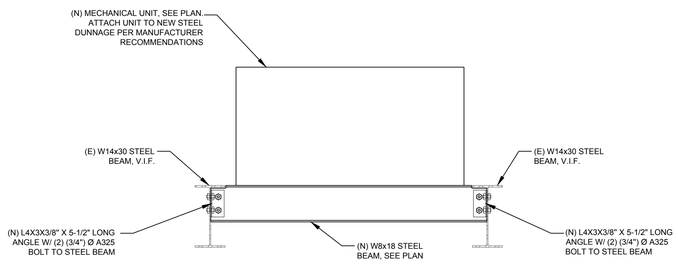
| CHECKED BY: | E.SCALGIONE |
| VERSION: | DE_1.00 |

SHEET TITLE

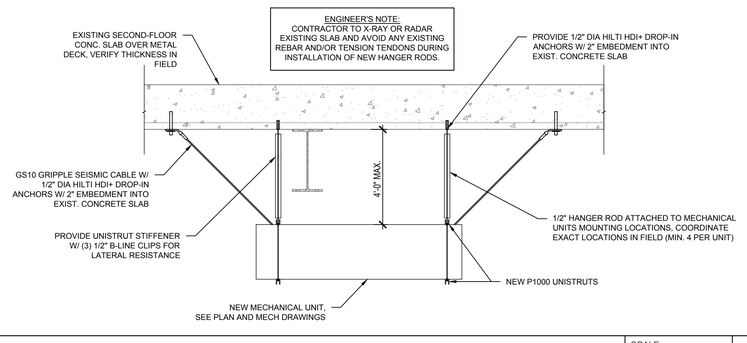
ROOF DUNNAGE PLAN

SHEET NUMBER

S2.0




NEW STEEL BEAM DETAIL | SCALE 3/4" = 1'-0" | 2




MECHANICAL UNIT SUPPORT DETAIL | SCALE N.T.S. | 1

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SHEET TITLE

SECTIONS AND DETAILS

SHEET NUMBER

S3.0

# MECHANICAL GENERAL NOTES:

| | |
|---|---|
| 1. | HVAC WORK CONSISTS OF PROVIDING AIR CONDITIONING SYSTEMS FOR A COMPLETE OPERATING SYSTEM AS INDICATED ON THE DRAWINGS. ALL WORK SHALL COMPLY WITH 2020 NEW YORK STATE MECHANICAL CODE AND ALL OTHER APPLICABLE CODES IN SPECIFICATIONS. IT IS THE INTENTION OF THE CONTRACT DRAWINGS AND SPECIFICATION TO CALL FOR COMPLETE, FINISHED WORK, TESTED, AND READY FOR OPERATION. |
| 2. | AN AIR BALANCE SHALL BE PERFORMED BY AN APPROVED INDEPENDENT THIRD PARTY AIR BALANCE CONTRACTOR IN ACCORDANCE WITH THE LATEST EDITION OF STANDARDS PUBLISHED BY THE ASSOCIATED AIR BALANCE COUNCIL (AABC), THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB), OR THE TESTING, ADJUSTING, AND BALANCING BUREAU (TABB). BALANCE EACH SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DEVICE WITHIN 5% OF REQUIREMENTS AND FURNISH A REPORT TO THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD AS AN OFFICIAL SUBMITTAL DURING THE CONSTRUCTION ADMINISTRATIVE PHASE. THE ENTIRE HVAC SYSTEM MUST BE FULLY OPERABLE, BALANCED, AND APPROVED BY THE OWNER'S REPRESENTATIVE. |
| 3. | ALL DUCT SIZES SHOWN ARE FREE AREA SIZES AND DO NOT ACCOUNT FOR INSULATION. INSULATE ALL DUCTWORK, EXCEPT EXHAUST DUCTWORK, WITH 2" FIBERGLASS DUCT WRAP INSTALLED TO A MINIMUM R VALUE OF 6. PROVIDE WITH VAPOR BARRIER AND TAPE ALL JOINTS. PROVIDE 1" THICK DUCT LINER WHERE INDICATED ON PLANS. |
| 4. | PROVIDE SPIN-IN FITTINGS AT ALL FLEXIBLE DUCT RUN OUTS TO DIFFUSERS (NO EXTRACTOR) AND DAMPER. |
| 5. | MAXIMUM LENGTH OF FLEX DUCT IS LIMITED TO 5'-0". |
| 6. | ALL PIPING SUBJECT TO THERMAL EXPANSION AND/OR CONTRACTION THAT PENETRATES A SMOKE, FIRE, OR FIRE/SMOKE WALL, PARTITION, OR FLOOR SLAB SHALL BE SUITABLY SLEEVED AND FIRE-SAFED. |
| 7. | METAL DUCTS WHICH PENETRATE 1 HOUR RATED FIRE WALLS AND ARE LESS THAN 100 SQUARE INCHES SHALL EXTEND A MINIMUM OF 5 FEET ON BOTH SIDES OF THE WALL WITHOUT AN OPENING (TO PRECLUDE THE REQUIREMENT OF A FIRE DAMPER). DUCTWORK SHALL IN NO CASE BE LIGHTER THAN 24 GAUGE STEEL. |
| 8. | PROVIDE IDENTIFICATION OF THE LOCATION OF ALL FIRE AND BALANCING DAMPERS. IDENTIFICATION TAGS SHALL BE AFFIXED TO THE WALLS OR CEILINGS AND SHALL BE VISIBLE FROM THE OCCUPIED SPACE. |
| 9. | PROVIDE ORANGE TAGS ON ALL VOLUME AND BALANCING DAMPERS ABOVE THE CEILING. TAGS AND DAMPER HANDLES SHALL BE VISIBLE AND ACCESSIBLE FOR THE TEST & BALANCE AGENCY. |
| 10. | ALL PIPING SHALL BE SUPPORTED WITH COMMERCIAL MANUFACTURED CLAMPS. PROVIDE ISOLATION SLEEVES TO PREVENT CONTACT OF DISSIMILAR METALS. |
| 11. | INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS AND RECOMMENDATIONS. |
| 12. | CONTRACTOR TO PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND MECHANICAL EQUIPMENT AND MATERIALS. |
| 13. | ALL INSULATION SHALL BE FIRE RATED IN ACCORDANCE WITH NFPA 90A 50/25 SMOKE DEVELOPMENT AND FLAME SPREAD REQUIREMENTS. INSULATION "R" VALUES SHALL COMPLY WITH APPLICABLE ENERGY CODE. |
| 14. | MOUNT CENTER OF THERMOSTATS AT 44" ABOVE THE FINISHED FLOOR UNLESS OTHERWISE NOTED. MOUNT REMOTE TEMPERATURE SENSORS AT 60" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE WITH ADJACENT EQUIPMENT. |
| 15. | INSTALL DUCT MOUNTED SMOKE DETECTORS (FURNISHED BY DIVISION 26) IN SUPPLY AND/OR RETURN AIR DUCTWORK WHERE REQUIRED AND IN ACCORDANCE WITH APPLICABLE CODE. WIRE DUCT MOUNTED SMOKE DETECTORS SUCH THAT ACTIVATION WILL DE-ENERGIZE AIR HANDLING UNIT FAN. LOCATE DUCT MOUNTED SMOKE DETECTORS THE REQUIRED DISTANCE DOWNSTREAM FROM BENDS OR INLETS AS RECOMMENDED BY THE MANUFACTURER. |
| 16. | SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT. |
| 17. | UNLESS OTHERWISE NOTED, INSTALL ALL DUCTWORK AS HIGH AS POSSIBLE, TIGHT TO THE BOTTOM OF THE STRUCTURE. COORDINATE ELEVATION AND LOCATION WITH RAIN LEADERS, WATER PIPING, PLUMBING VENTS, AND MAJOR ELECTRICAL CONDUITS OR CABLE TRAY. |
| 18. | PROVIDE DRAIN P-TRAPS IN THE CONDENSATE LINES AT ALL AIR HANDLING UNITS. SIZE PER MANUFACTURERS REQUIREMENTS. |
| 19. | CONTRACTOR SHALL NOT ATTACH SUPPORTS OR HANGERS DIRECTLY TO THE DECK, CEILING SUPPORT SYSTEM, OR DUCTWORK ABOVE. HANGERS, SUPPORTS, FASTENING DEVICES, ETC. SHALL BE FASTENED TO TOP CHORD OF THE JOIST AND/OR FLANGE OF THE BEAMS ABOVE. |
| 20. | THE ENGINEER HAS MADE AN EXTENSIVE EFFORT TO IDENTIFY ABOVE CEILING CONFLICTS. THE CONTRACTOR IS RESPONSIBLE TO CHECK FIELD CONDITIONS PRIOR TO COMMENCING WORK AND REPORT ANY PROBLEMS/CONFLICTS TO THE ENGINEER WITHIN 2 DAYS OF DISCOVERY. ANY CHANGES RESULTING FROM CONDITIONS ARISING IN THE FIELD WHICH WERE NOT BROUGHT TO THE ENGINEER'S ATTENTION ARE TO BE MADE BY THIS CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. |
| 21. | THE WORK INDICATED ON THESE DRAWINGS IS GENERALLY DIAGRAMMATIC AND IS INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF DUCTWORK AND EQUIPMENT. |
| 22. | ALL WORK IS TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. ALL DEFECTS WHICH DEVELOP OR ARE DISCOVERED WITHIN THIS PERIOD SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER. |
| 23. | UPON COMPLETION OF THE WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIALS, AND SCRAP. ALL IDENTIFIED EXISTING EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER. |
| 24. | WHEN CONFLICTS OCCUR IN SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED. |
| 25. | THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN ORDER TO AVOID CONFLICTS. |
| 26. | PROVIDE BALANCING DAMPER IN EACH BRANCH CONNECTION. |
| 27. | ALL DUCTWORK INSTALLED ON THIS PROJECT SHALL BE OF SHEET METAL CONSTRUCTION. DUCTWORK SHALL BE FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH SMACNA REQUIREMENTS. |
| 28. | MECHANICAL CONTRACTOR SHALL PROVIDE NAMEPLATE INFO TO THE FACILITY MANAGER FOR ALL MECHANICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, FAN COILS, CONDENSING UNITS, RTU'S, AND EXHAUST FANS. |
| 29. | ALL REFRIGERANT SHALL BE R-410A. NO R-22 SHALL BE USED. |
| 30. | ALL PROVISIONS FOR LINE VOLTAGE WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR. ALL PROVISIONS FOR LOW VOLTAGE WIRING SHALL BE BY THE MECHANICAL CONTRACTOR. FINAL CONNECTIONS SHALL BE BY THE MECHANICAL CONTRACTOR FOR LOW VOLTAGE WIRING UNLESS PROHIBITED BY LOCAL JURISDICTION. IN SUCH CASE THE MECHANICAL CONTRACTOR SHALL INFORM THE ELECTRICAL CONTRACTOR. |
| 31. | ROUTE FULL SIZE PVC DRAIN PIPE FROM EACH RTU (1" MIN) DRAIN PAN AND FROM EACH FCU (3/4" MIN)TO RESPECTIVE FLOOR DRAIN OR TO DAYLIGHT WITH AIR GAP. INSULATE WITH 3/4" ARMSTRONG "ARMAFLEX" INSULATION. |
| 32. | ALL MATERIALS WITHIN RETURN AIR PLENUMS OR EXPOSED WITHIN DUCTS SHALL BE NONCOMBUSTIBLE AND/OR SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTME 84. |

# ABBREVIATIONS

| | |
|---|---|
| AC | AIR CONDITIONING |
| ACH | AIR CHANGES PER HOUR |
| AD | ACCESS DOOR |
| AFF | ABOVE FINISHED FLOOR |
| AHU | AIR HANDLING UNIT |
| AP | ACCESS PANEL |
| BD | BYPASS DAMPER |
| BFF | BELOW FINISHED FLOOR |
| BHP | BRAKE HORSE POWER |
| BOT | BOTTOM |
| BTUH | BRITISH THERMAL UNIT PER HOUR |
| CD | CONDENSATE DRAIN |
| CFM | CUBIC FEET PER MINUTE |
| CHWR | CHILLED WATER RETURN |
| CHWS | CHILLED WATER SUPPLY |
| CLG | CEILING |
| CT | COOLING TOWER |
| CU | CONDENSING UNIT |
| CWR | CONDENSER WATER RETURN |
| CWS | CONDENSER WATER SUPPLY |
| DB | DRY BULB |
| DDC | DIRECT DIGITAL CONTROL |
| DG | DOOR GRILLE |
| DN | DOWN |
| DP | DEW POINT |
| DX | DIRECT EXPANSION |
| EA | EXHAUST AIR |
| EAT | ENTERING AIR TEMPERATURE |
| EDH | ELECTRIC DUCT HEATER |
| EER | ENERGY EFFICIENCY RATIO |
| EF | EXHAUST FAN |
| ET | EXPANSION TANK |
| EL | ELEVATION |
| EQUIP | EQUIPMENT |
| EWT | ENTERING WATER TEMPERATURE |
| EXIST | EXISTING |
| ESP | EXTERNAL STATIC PRESSURE |
| FD | FIRE DAMPER |
| FCU | FAN COIL UNIT |
| FD | FLOOR DRAIN |
| FL | FLOOR |
| FPM | FEET PER MINUTE |
| FSD | FIRE/SMOKE DAMPER |
| G | NATURAL GAS |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| H | HUMIDITY |
| HC | HEATING COIL |
| HX | HEAT EXCHANGER |
| HP | HORSE POWER |
| HWR | HOT WATER RETURN |
| HWS | HOT WATER SUPPLY |
| KW | KILOWATT |
| LAT | LEAVING AIR TEMPERATURE |
| LWT | LEAVING WATER TEMPERATURE |
| MD | MOTORIZED DAMPER |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| NC | NORMALLY CLOSED |
| NIC | NOT IN CONTRACT |
| NO | NORMALLY OPEN |
| OA | OUTSIDE AIR |
| OAI | OUTSIDE AIR INTAKE |
| OS&Y | OUTSIDE SCREW & YOKE |
| PD | PRESSURE DROP |
| PRESS | PRESSURE |
| RA | RETURN AIR |
| RD | ROOF DRAIN |
| RG | REFRIGERANT |
| RL | RAIN LEADER |
| RLA | RUNNING LOAD AMPS |
| RPM | REVOLUTIONS PER MINUTE |
| RTU | ROOF TOP UNIT |
| SD | SMOKE DETECTOR |
| SA | SUPPLY AIR |
| SP | STATIC PRESSURE |
| SYS | SYSTEM |
| T | TEMPERATURE |
| TYP | TYPICAL |
| UC | UNDERCUT |
| UG | UNDERGROUND |
| UL | UNDERWRITERS LABORATORY |
| UON | UNLESS OTHERWISE NOTED |
| VAV | VARIABLE AIR VOLUME |
| VD | VOLUME DAMPER |
| VFD | VARIABLE FREQUENCY DRIVE |
| VSD | VARIABLE SPEED DRIVE |
| WB | WET BULB |

# PIPING

- PIPING AND/OR EQUIPMENT TO BE REMOVED
- EXISTING PIPING TO REMAIN
- CWS — CONDENSER WATER SUPPLY
- CWR — CONDENSER WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN
- CD — CONDENSATE LINE
- REFRIGERANT PIPING
- HWS — HOT WATER SUPPLY
- HWR — HOT WATER RETURN
- DOMESTIC WATER
- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- BALL VALVE
- PLUG VALVE
- BUTTERFLY VALVE
- PRESSURE REDUCING VALVE
- SAFETY OR PRESSURE RELIEF VALVE
- VALVE IN RISER
- DIRECTION OF FLOW
- REDUCER OR INCREASER
- ECCENTRIC REDUCER
- TOP CONNECTION, 45 OR 90 DEG.
- BOTTOM CONNECTION, 45 OR 90 DEG.
- SIDE CONNECTION
- CAPPED OUTLET
- DROP IN PIPING
- RISE IN PIPING
- UNION
- OUTSIDE SCREW & YOKE (O S & Y)
- FLEXIBLE CONNECTION
- PRESSURE GAUGE
- THERMOMETER
- STRAINER WITH BALL VALVE
- EXPANSION JOINT

# GENERAL CONTROL DEVICES

- T/S — THERMOSTAT / TEMPERATURE SENSOR
- H/CO2 — HUMIDITY SENSOR / CARBON DIOXIDE SENSOR
- SMOKE DETECTOR (DUCT MOUNTED) PROVIDED BY DIV. 16 INSTALLED BY DIV. 15

# CONTROL DEVICES

- T — MANUFACTURER WIRELESS THERMOSTAT
- TS — WIRED REMOTE TEMP. SENSOR (WALL MOUNT)
- DUCT WIRED DUCT TEMP. SENSOR

# NOTE:

THESE ARE STANDARD SYMBOLS AND GENERAL NOTES AND MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS; HOWEVER WHEREVER THE SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE PROVIDED AND INSTALLED.

# DUCTWORK

- UP / DN — SUPPLY DUCT (UP & DOWN)
- UP / DN — EXHAUST DUCT (UP & DOWN)
- UP / DN — RETURN AIR DUCT (UP & DOWN)
- CEILING DIFFUSERS/GRILLES (DOUBLE LINE)
- CEILING DIFFUSERS/GRILLES (SINGLE LINE)
- SIDE WALL REGISTER OR GRILLE (DOUBLE LINE)
- SIDE WALL REGISTER OR GRILLE (SINGLE LINE)
- WIRE MESH SCREEN (DOUBLE LINE)
- WIRE MESH SCREEN (SINGLE LINE)
- 10x8 — NEW DUCT - WIDTH x DEPTH (DOUBLE LINE)
- 10x8 — NEW DUCT - WIDTH x DEPTH (SINGLE LINE)
- EXISTING DUCT TO REMAIN (DOUBLE LINE)
- EXISTING DUCT TO REMAIN (SINGLE LINE)
- EXISTING DUCT TO BE REMOVED (DOUBLE LINE)
- EXISTING DUCT TO BE REMOVED (SINGLE LINE)
- FLEXIBLE DUCTWORK (INSULATED)
- DUCT TRANSITION - CONCENTRIC (DOUBLE LINE)
- DUCT TRANSITION - CONCENTRIC (SINGLE LINE)
- DUCT TRANSITION - ECCENTRIC (DOUBLE LINE)
- DUCT TRANSITION - ECCENTRIC (SINGLE LINE)
- DUCT TRANSITION - RECT. TO RND (DOUBLE LINE)
- DUCT TRANSITION - RECT. TO RND (SINGLE LINE)
- MANUAL VOLUME DAMPER (DOUBLE LINE)
- MANUAL VOLUME DAMPER (SINGLE LINE)
- M — MOTOR OPERATED DAMPER
- BD — BACK DRAFT DAMPER
- R — INCLINED RISE, IN DIRECTION OF AIR FLOW (DOUBLE LINE)
- R — INCLINED RISE, IN DIRECTION OF AIR FLOW (SINGLE LINE)
- D — INCLINED DROP, IN DIRECTION OF AIR FLOW (DOUBLE LINE)
- D — INCLINED DROP, IN DIRECTION OF AIR FLOW (SINGLE LINE)
- FLEXIBLE CONNECTION (DOUBLE LINE)
- FLEXIBLE CONNECTION (SINGLE LINE)
- FIRE DAMPER
- SMOKE DAMPER
- FIRE/SMOKE DAMPER
- SMOKE DETECTOR (DUCT MOUNTED)
- DUCT MOUNTED COIL/HEATER (DOUBLE LINE)
- DUCT MOUNTED COIL/HEATER (SINGLE LINE)
- VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH TURNING VANES EVEN IF SYMBOL IS MISSING)
- VANED RADIUS ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH TURNING VANES EVEN IF SYMBOL IS MISSING)
- ACOUSTICALLY LINED DUCT
- VANE TURN ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF (DOUBLE LINE)
- VANE TURN ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF (SINGLE LINE)
- 100 CFM — AIR FLOW CFM
- 6" Ø / A TYP. — AIR DEVICE TYPE (EX = Existing)
- AIR DEVICE NECK SIZE

AIR DEVICES

- 2-WAY AIR FLOW
- 4-WAY AIR FLOW
- 1-WAY AIR FLOW
- 3-WAY AIR FLOW

- SUPPLY PLENUM
- CONTINUOUS LINEAR DIFFUSER, BLANK-OFF UNUSED PORTIONS
- X'-X" — TOTAL LENGTH OF LINEAR DIFFUSER
- RETURN HOOD/PLENUM

# DRAWING SYMBOLS

- 1 / 2 / 3 — SECTION NUMBER; DRAWING NUMBER WHERE DRAWN; DRAWING NUMBER WHERE CUT
- POINT OF CONNECTION
- POINT OF DISCONNECTION
- KN — KEYED NOTES

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PROJECT INFORMATION

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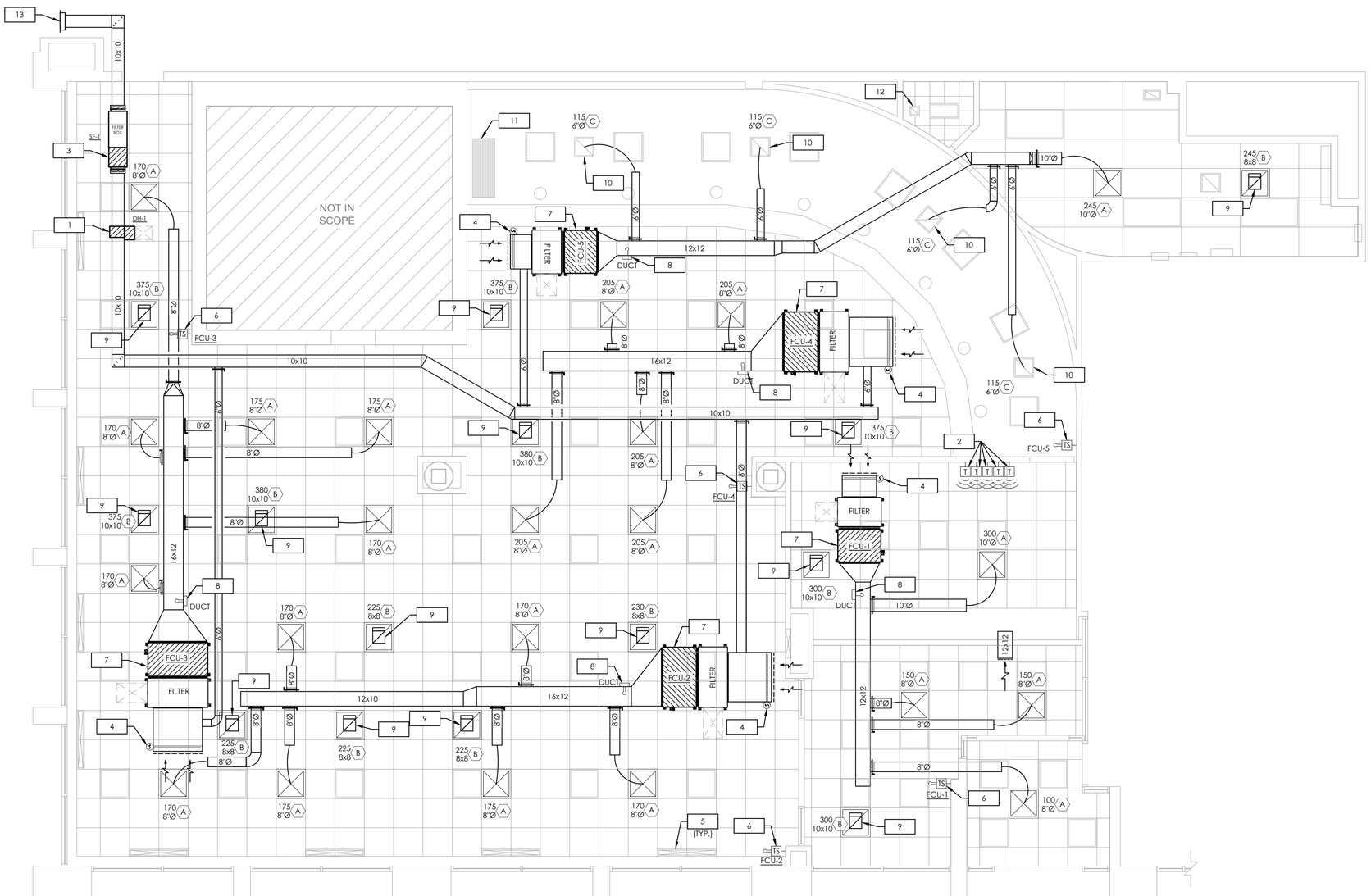
| PROJECT NO: | JPM.36475.BAU |
| DATE: | AS NOTED |
| **PROTOTYPE:** | **20.5** |
| DRAWN BY: | A.MATRISCIANO |
| CHECKED BY: | R.MOYER |
| VERSION: | DE_1.00 |

SHEET TITLE

MECHANICAL LEGENDS AND GENERAL NOTES

SHEET NUMBER

M0.0




MECHANICAL FLOOR PLAN | SCALE 1/4" = 1'-0" | 1

## MECHANICAL NOTES:

| | |
|---|---|
| 1. | CONTRACTOR TO PROVIDE AND INSTALL NEW IN-LINE DUCT HEATER IN OUTSIDE AIR DUCTWORK. FIELD VERIFY EXACT LOCATION TO ENSURE NO CONFLICT WITH EQUIPMENT AND ENSURE LOCATION PROVIDES ADEQUATE SPACE FOR SERVICING. |
| 2. | CONTRACTOR TO INSTALL NEW MANUFACTURER PROGRAMMABLE THERMOSTATS SERVING FCU-1,2,3,4,5,6,&7. THERMOSTATS SHALL BE WIRED FOR CONTROL OF RESPECTIVE FAN COIL UNIT WITH REMOTE SENSOR INPUT. MOUNT THE THERMOSTATS IN TWO ROWS WITH FOUR THERMOSTATS ON THE TOP ROW. TOP ROW SHALL BE AT 48" ABOVE FINISHED FLOOR AND BOTTOM ROW SHALL BE AT 42" ABOVE FINISHED FLOOR. REFER TO HVAC CONTROLS TABLE ON SHEET M2.0 FOR ADDITIONAL INFORMATION |
| 3. | CONTRACTOR TO PROVIDE NEW INLINE SUPPLY FAN CONNECTED TO OUTDOOR AIR DUCTWORK. INSTALL IN ACCESSIBLE LOCATION AND MAINTAIN ALL MANUFACTURER REQUIRED CLEARANCES. |
| 4. | MOUNT NEW 120V DUCT MOUNTED SMOKE DETECTOR (FURNISHED AND WIRED BY DIV 26) IN MAIN RETURN AIR DUCT. DETECTORS SHALL BE INTERLOCKED BY ELECTRICAL CONTRACTOR TO SHUT DOWN FAN COIL UNITS UPON DETECTION OF SMOKE. |
| 5. | EXISTING STEAM BASE HEATERS TO REMAIN AND BE REUSED. CONTRACTOR TO CLEAN AND ENSURE HEATERS ARE FULLY OPERATIONAL. |
| 6. | CONTRACTOR TO INSTALL STANDARD WIRED REMOTE TEMPERATURE SENSOR WITH WIRELESS SENSOR ADAPTOR (WSA) SERVING. MOUNT ON WALL 60" ABOVE FINISHED FLOOR AND COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER. REFER TO HVAC CONTROLS TABLE ON SHEET M2.0 FOR ADDITIONAL INFORMATION. |
| 7. | DUCTED FAN COIL UNIT LOCATED JUST ABOVE CEILING. SUSPEND UNIT FROM STRUCTURE AND INSTALL UNIT SUCH THAT ALL MAINTENANCE PANELS ARE IN AN ACCESSIBLE LOCATION. PROVIDE CONDENSATE PUMP, AUXILIARY DRAIN PAN, AND WATER LEVEL DETECTION DEVICE. SEE PLUMBING PLANS FOR CONDENSATE ROUTING. |
| 8. | CONTRACTOR TO INSTALL WIRED DUCT TEMPERATURE SENSOR WITH WIRELESS SENSOR ADAPTOR IN SUPPLY DUCT. |
| 9. | CONTRACTOR TO PROVIDE AND INSTALL SOUND ATTENUATION BOOT ON RETURN GRILLE. REFER TO DETAIL ON SHEET M3.0 FOR MORE INFORMATION. DUCT SIZE SHALL MATCH SIZE INDICATED ON DIFFUSER TAG. |
| 10. | EXISTING SUPPLY DIFFUSERS TO REMAIN AND BE REUSED. CONTRACTOR TO TRANSITION AND CONNECT NEW DUCTWORK TO EXISTING DIFFUSER NECK. |
| 11. | EXISTING RETURN GRILLE TO REMAIN AND BE REUSED. CONTRACTOR TO CLEAN AND CONFIRM GRILLE IS FREE OF ANY OBSTRUCTIONS. |
| 12. | EXISTING EXHAUST FAN TO REMAIN AND BE REUSED. |
| 13. | NEW 14x14 OUTDOOR AIR LOUVER TO BE INSTALLED IN BRICK WALL. CONTRACTOR TO COORDINATE PENETRATION WITH LANDLORD. ROUTE DUCTWORK TIGHT TO UNDER STRUCTURE OF PARKING GARAGE BEFORE ENTERING THE BANK. PROVIDE WITH SPRING RETURN BACK DRAFT DAMPER |

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| DRAWN BY: | A.MATRISCIANO |
| CHECKED BY: | R.MOYER |
| VERSION: | DE_1.00 |

SHEET TITLE

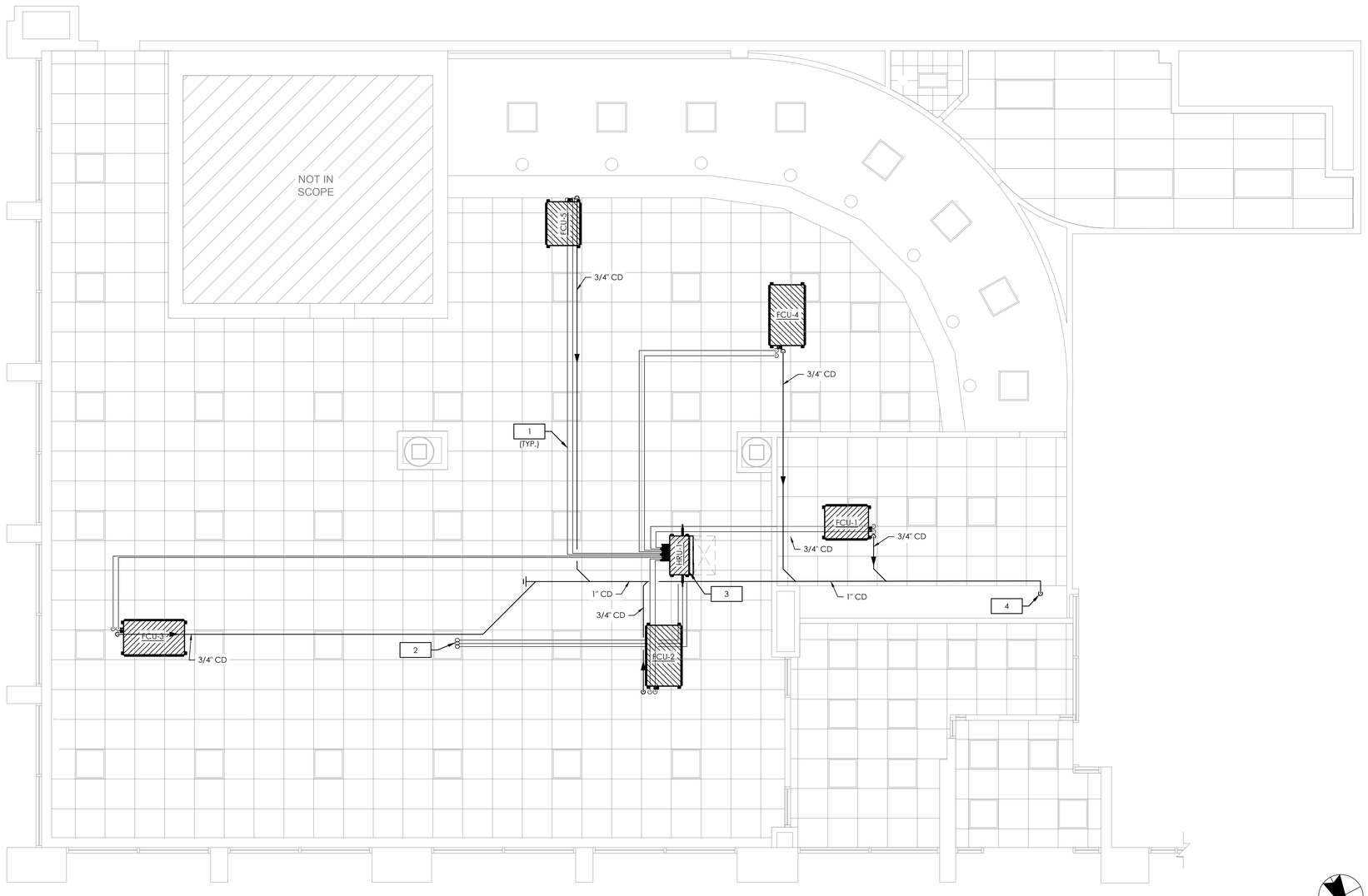
MECHANICAL FLOOR PLAN

SHEET NUMBER

M1.0

## MECHANICAL NOTES:

| | |
|---|---|
| 1. | REFRIGERANT PIPE ROUTING IS SHOWN FOR DIAGRAMMATIC PURPOSES. COORDINATE EXACT ROUTING OF REFRIGERANT PIPING AND COORDINATE PIPE SIZES WITH MANUFACTURER. ROUTE LINES ABOVE CEILING AS STRAIGHT AS POSSIBLE. |
| 2. | CONTRACTOR TO PROVIDE AND INSTALL REFRIGERANT PIPING FROM BRANCH SELECTOR UP TO CORRESPONDING CONDENSING UNIT ON ROOF. ROUTE REFRIGERANT PIPING THROUGH EXISTING PIPE PORTAL AND EXISTING ROUTING UP TO CONDENSING UNIT. CONTRACTOR TO VERIFY IN FIELD. ROUTE REFRIGERANT PIPING AS STRAIGHT AS POSSIBLE AND PROVIDE WITH 3/4" INSULATION. CONTRACTOR TO COORDINATE ALL PIPE ROUTING WITH THE LANDLORD AND TENANT ABOVE PRIOR TO COMMENCING WORK. |
| 3. | CONTRACTOR TO PROVIDE AND INSTALL BRANCH SELECTOR BOX SERVING INDOOR DUCTED FAN COILS. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND ENSURE UNIT IS INSTALLED IN AN ACCESSIBLE LOCATION. INSTALL CLOSED PIPE KIT ON UNUSED PORTS AND PROVIDE SHUT-OFF VALVES ON EACH SET OF BRANCH PIPING TO ALLOW SERVICE TO ANY INDOOR UNIT WITHOUT FIELD INTERRUPTION TO OVERALL SYSTEM OPERATION. INSTALL PER MANUFACTURER INSTRUCTIONS. |
| 4. | CONTRACTOR TO ROUTE 1" CONDENSATE DRAIN PIPING FROM FAN COIL UNITS AND TERMINATE AT APPROVED DRAIN LOCATION IN BASEMENT. CONTRACTOR TO FIELD VERIFY TERMINATION LOCATION PRIOR TO COMMENCING WORK AND NOTIFY ENGINEER OF RECORD IF A DRAIN CAN NOT BE LOCATED IN THE BASEMENT. PROVIDE ALTERNATE ROUTING TO PARKING GARAGE. |




MECHANICAL PIPING PLAN | SCALE 1/4" = 1'-0" | 1

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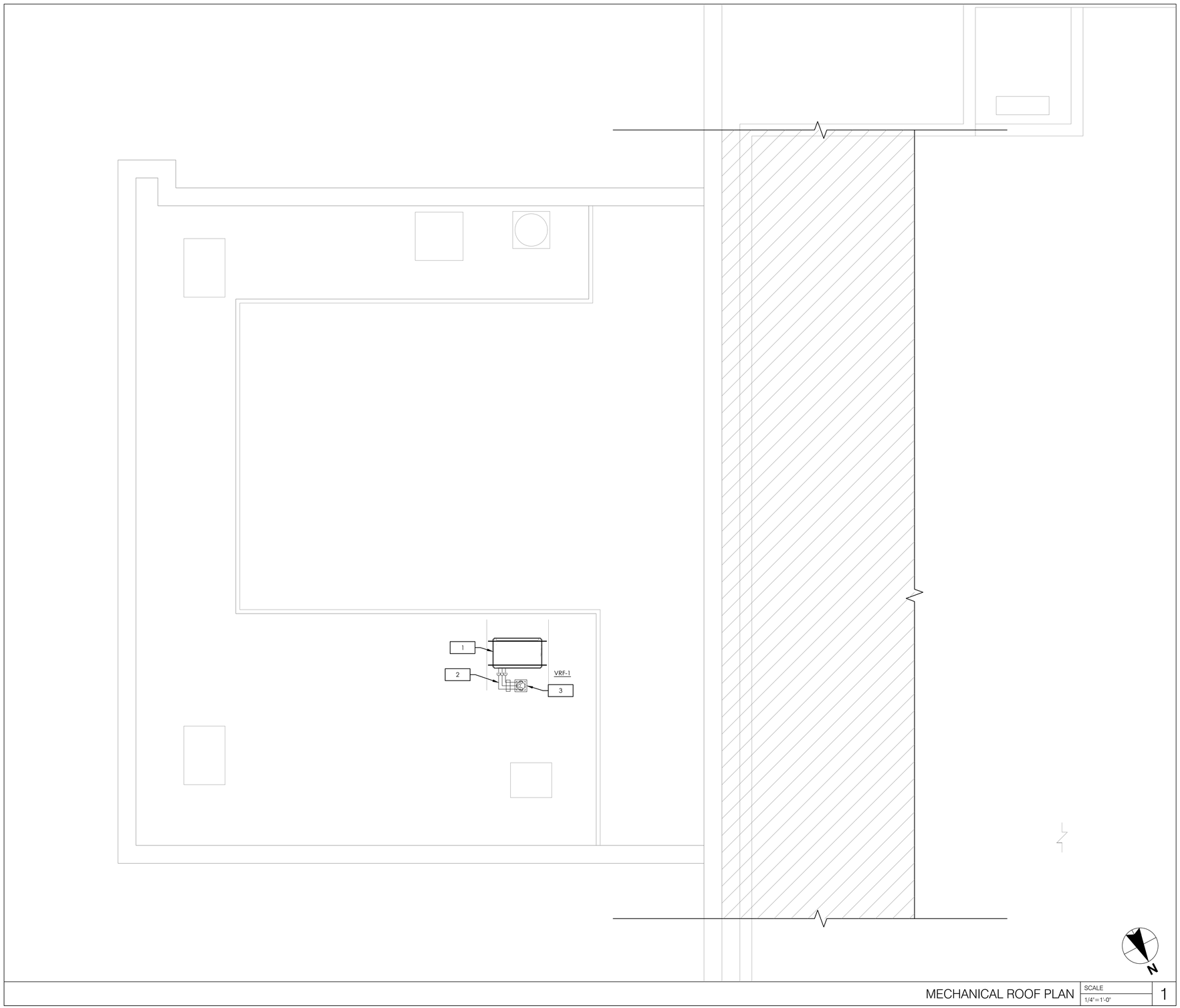
| VERSION: | DE_1.00 |

SHEET TITLE

MECHANICAL PIPING PLAN

SHEET NUMBER

M1.1




MECHANICAL ROOF PLAN | SCALE 1/4"=1'-0" | 1

## MECHANICAL NOTES:

| | |
|---|---|
| 1. | CONTRACTOR TO PROVIDE AND INSTALL NEW VRF CONDENSING UNIT. INSTALL CONDENSING UNIT ON EQUIPMENT SUPPORT RAILS. PROVIDE 2" DEFLECTION SPRING ISOLATIONS SIMILAR TO KINETIC NOISE MODEL FHSL. COORDINATE EXACT LOCATION PRIOR TO COMMENCING WORK. |
| 2. | CONTRACTOR TO PROVIDE AND INSTALL REFRIGERATION PIPING FROM ROOF MOUNTED CONDENSING UNIT DOWN THRU ROOF TO ASSOCIATED EVAPORATOR COILS. PROVIDE WITH PIPE PORTAL AND 3/4" INSULATION. PROVIDE ALL EXPOSED PIPING INSULATION WITH ULTRA-VIOLET RESISTANT PVC JACKET. |
| 3. | PROVIDE PIPE PORTAL BY RPS ACCESSORIES M# RC-2A. ROUTE REFRIGERANT PIPING AND POWER THROUGH PIPE PORTAL. |

## PIPE INSULATION

| FINAL DESIGN OPERATING TEMPERATURE RANGE (°F) | INSULATION CONDUCTIVITY | | NOMINAL PIPE SIZE (INCH) | | |
|---|---|---|---|---|---|
| | CONDUCTIVITY BTU in/(h ft2 x °F) | MEAN TEMP RATING | <1 | 1-1 1/2 | 1 1/2 TO 4 |
| | | | THICKNESS (IN) | | |
| 40-60 | 0.21-0.27 | 75 | 0.5 | 0.5 | 1.0 |
| <40 | 0.20-0.26 | 50 | 0.5 | 1.0 | 1.0 |

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| VERSION: | DE_1.00 |

SHEET TITLE

MECHANICAL ROOF PLAN

SHEET NUMBER

M1.2

## DIFFUSER, GRILLE, AND REGISTER SCHEDULE

| TAG | LOCATION | TYPE | MATERIAL | PATTERN | FACE SIZE | MANUFACTURER & MODEL NO. | GENERAL | REMARKS |
|---|---|---|---|---|---|---|---|---|
| (A) | CEILING | SUPPLY | STEEL | 4-WAY | 24x24 | TITUS OMNI-NT | LAY-IN W/ DAMPER | 1,2,3,4,5 |
| (B) | CEILING | RETURN | ALUMINUM | - | 24x24 | TITUS PAR | LAY-IN, OBD AG-15 | 1,2,3,6 |
| (C) | CEILING | SUPPLY | EXISTING | - | EXISTING | - | LAY-IN | 7 |

REMARKS:
1. COORDINATE WITH LIGHTS FOR EXACT LOCATIONS OF ALL AIR DEVICES.
2. COORDINATE FRAME STYLES WITH CEILING OR WALL SYSTEM.
3. N.C. VALUES FOR DIFFUSERS, GRILLES AND REGISTERS SHALL NOT EXCEED 30, WITH A ROOM ABSORPTION RATE OF 10db.
4. PROVIDE BACK SIDE OF SUPPLY AIR DEVICES WITH FACTORY INSTALLED R-6 INSULATION BLANKET.
5. PROVIDE DAMPER AT TAKE-OFF TO DEVICE
6. ALL LAY-IN RETURN GRILLES SHALL BE FULL-FACE AND PROVIDED WITH MAXIMUM NECK SIZE. CONTRACTOR TO THEN TRANSITION MAXIMUM NECK SIZE TO RETURN DUCT SIZE INDICATED ON PLANS.
7. EXISTING SUPPLY DIFFUSERS. CONNECT DUCTWORK TO DIFFUSER AND TRANSITION AS NECESSARY.

## VENTILATION AIR SCHEDULE

| ZONE | ROOM | OCCUPANCY | AREA (SQ. FT.) | NUMBER OF OCCUPANTS | PEOPLE OUTDOOR AIRFLOW RATE (CFM/ OCC.) | AREA OUTDOOR AIRFLOW RATE (CFM/SQ. FT.) | REQUIRED OUTDOOR AIRFLOW RATE (CFM) | OUTSIDE AIRFLOW RATE (CFM) | SYSTEM OUTDOOR AIRFLOW RATE (CFM) | PROVIDED EXHAUST AIRFLOW RATE (CFM) |
|---|---|---|---|---|---|---|---|---|---|---|
| FCU-1 | TRANSACTION VESTIBULE | UNOCCUPIED SPACE | 205 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| | WEATHER VESTIBULE | UNOCCUPIED SPACE | 77 | 0 | 0 | 0 | 0 | 0 | | - |
| | CASH | UNOCCUPIED SPACE | 233 | 0 | 0 | 0 | 0 | 0 | | - |
| FCU-2 | EXTERIOR OFFICES | OFFICE SPACE | 460 | 12 | 5 | 0.06 | 110 | 115 | 170 | - |
| | INTERIOR OFFICES | OFFICE SPACE | 185 | 6 | 5 | 0.06 | 51 | 55 | | - |
| FCU-3 | LARGE OFFICE | OFFICE SPACE | 175 | 5 | 5 | 0.06 | 44 | 45 | 70 | - |
| | BANK/PRINT | OFFICE SPACE | 298 | 0 | 5 | 0.06 | 22 | 25 | | - |
| FCU-4 | BANKING FLOOR | OFFICE SPACE | 980 | 7 | 5 | 0.06 | 117 | 120 | 120 | - |
| FCU-5 | TELLER | OFFICE SPACE | 476 | 5 | 5 | 0.06 | 67 | 70 | 105 | - |
| | LOUNGE | LOBBIES | 135 | 2 | 5 | 0.06 | 23 | 25 | | - |
| | STORAGE | LOBBIES | 94 | 0 | 5 | 0.06 | 7 | 10 | | - |
| | | | | | | TOTALS | 441 | 465 | 465 | - |

## FAN SCHEDULE

| TAG | SERVICE | LOCATION | CFM | MANUF. - MODEL | ESP (W.C) | DRIVE | TYPE | ELECTRICAL | | | | WEIGHT (LBS) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | HP | V. | Ø | Hz | | |
| SF-1 | SUPPLY | CEILING | 465 | GREENHECK- SQ-095-VG | 0.7 | DIRECT | CENT. | 1/6 | 115 | 1 | 60 | 101 | 1,2,3,4,5 |

REMARKS:
1. PROVIDE WD-400 BACKDRAFT DAMPER.
2. NEMA 1 DISCONNECT SWITCH MOUNTED ON FAN HOUSING.
3. PROVIDE VARIABLE SPEED CONTROLLER FOR ALL DIRECT DRIVE FANS. T & B CONTRACTOR SHALL MARK BALANCED POSITION ON CONTROLLER.
4. PROVIDE WITH VIBRATION ISOLATION KIT AND MOUNTING BRACKETS.
5. PROVIDE WITH FILTER BOX AND MERV 8 FILTERS.

## DUCT HEATER SCHEDULE

| TAG | DESCRIPTION | MANUFACTURER | MODEL | DUCT SIZE | AIRFLOW (CFM) | ELECTRICAL | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | kW | V. | Ø | Hz | |
| DH-1 | PREHEAT | INDEECO | QUZ | 10x10 | 465 | 10 | 208 | 3 | 60 | 1,2,3,4,5 |

REMARKS:
1. PROVIDE WITH SCR HEATER CONTROL.
2. PROVIDE WITH ELECTRONIC AIRFLOW SWITCH.
3. PROVIDE WITH DOOR INTERLOCKING DISCONNECT SWITCH.
4. PROVIDE WITH TRANSFORMER.
5. PROVIDE WITH DUCT THERMOSTAT AND SET TO DISCHARGE 65°F.

DESIGN SUMMER CONDITIONS: 92.1°F D.B. / 74.4°F W.B.
DESIGN WINTER CONDITIONS: 12.8°F D.B.

## VRV UNIT SCHEDULE

| TAG | LOCATION | BASIS OF DESIGN MANUFACTURER | MODEL | REFRIGERANT TYPE | COOLING CAPACITY | | HEATING CAPACITY | | ELECTRICAL | | | WEIGHT (LBS) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | (MBH) | EER/IEER | (MBH) | COP | POWER SUPPLY (V/PH/HZ) | MCA | MOCP | | |
| VRF-1 | ROOF | LG | ARUM144BTE5 | R-410A | 144.0 | 12.1/23.0 | 162.0 | 3.52 | 208/3/60 | 51.1 | 70 | 639 | 1,2 |

REMARKS:
1. PROVIDE WITH LG MANUFACTURER'S CONTROLLER.
2. CONTRACTOR TO PROVIDE UNIT WITH DISCONNECT SWITCH.

LG EQUIPMENT SELECTED BY KLIMANJ. LOCAL MANUFACTURER'S REPRESENTATIVE TO CONTACT PAUL DALEY AT 732.917.7412 OR PAULD@KLIMANJ.COM FOR EQUIPMENT DESIGN QUESTIONS.

## FAN COIL UNIT SCHEDULE

| TAG | CONFIGURATION | BASIS OF DESIGN MANUFACTURER | MODEL | COOLING CAPACITY (MBH) | HEATING CAPACITY (MBH) | FAN | | | | ELECTRICAL | | | WEIGHT (LBS) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SUPPLY AIRFLOW (CFM) | OUTDOOR AIR (CFM) | MOTOR OUTPUT (W) | ESP. (IN W.C.) | POWER SUPPLY (V/PH/HZ) | MCA | MOCP | | |
| FCU-1 | DUCTED HORIZTONAL | LG | ARNU243M1A4 | 24.0 | 27.0 | 700 | -- | 350 | 0.5 | 208/1/60 | 1.6 | 15 | 69 | 1,2,3,4,5,6 |
| FCU-2 | DUCTED HORIZTONAL | LG | ARNU363M2A4 | 36.0 | 40.0 | 1,130 | 170 | 350 | 0.5 | 208/1/60 | 2.3 | 15 | 86 | 1,2,3,4,5,6 |
| FCU-3 | DUCTED HORIZTONAL | LG | ARNU363M2A4 | 36.0 | 40.0 | 1,130 | 70 | 350 | 0.5 | 208/1/60 | 2.3 | 15 | 86 | 1,2,3,4,5,6 |
| FCU-4 | DUCTED HORIZTONAL | LG | ARNU363M2A4 | 36.0 | 40.0 | 1,130 | 120 | 350 | 0.5 | 208/1/60 | 2.3 | 15 | 86 | 1,2,3,4,5,6 |
| FCU-5 | DUCTED HORIZTONAL | LG | ARNU243M1A4 | 24.0 | 27.0 | 700 | 105 | 350 | 0.5 | 208/1/60 | 1.6 | 15 | 69 | 1,2,3,4,5,6 |

REMARKS:
1. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. UNIT TO BE CONTROLLED BY LG THERMOSTAT.
3. PROVIDE REFRIGERANT PIPING SIZED PER MANUFACTURER'S RECOMMENDATIONS, "ACR" COPPER ONLY.
4. PROVIDE WATER-LEVEL MONITORING DEVICE (FLOAT SWITCH), DEVICE SHALL BE INSTALLED INSIDE THE PRIMARY DRAIN PAN AND SHALL BE INTERLOCKED TO SHUT DOWN UNIT. EXTERNALLY INSTALLED DEVICES AND DEVICES INSTALLED IN THE DRAIN LINE SHALL NOT BE PERMITTED.
5. PROVIDE WITH CONDENSATE PUMP.
6. CONTRACTOR TO PROVIDE WITH MERV 13 FILTER KIT. CONTRACTOR TO COORDINATE FILTER KIT SIZE WITH FCU SIZE.

## HEAT RECOVERY UNIT SCHEDULE

| TAG | BASIS OF DESIGN MANUFACTURER | MODEL | PORT COUNT | RATED COOLING CAPACITY (MBH) | ELECTRICAL | | | WEIGHT (LBS) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | POWER SUPPLY (V/PH/HZ) | MCA | MOCP | | |
| HRU-1 | LG | PRHR063A | 6 | 60.0 PER PORT | 208/1/60 | 0.7 | 15 | 49 | 1 |

REMARKS:
1. PROVIDE WITH CLOSED PIPE KIT FOR UNUSED PORTS.

## SEQUENCE OF OPERATIONS

OCCUPIED AND UNOCCUPIED OPERATION:

A. THE TEMPERATURE CONTROL SYSTEM SHALL BE SET FOR OCCUPIED AND UNOCCUPIED HOURS.

B. DURING THE OCCUPIED HOURS THE SPACE SHALL BE MAINTAINED AT 72°F (ADJ) IN THE COOLING MODE AND 70°F (ADJ) IN THE HEATING MODE.

C. DURING UNOCCUPIED PERIODS, THE SPACE TEMPERATURE SHALL MAINTAIN 75°F (ADJ) IN THE COOLING MODE AND 65°F (ADJ) IN THE HEATING MODE.

VARIABLE REFRIGERANT VOLUME (VRF1 & FCU-1,2,3,4,&5):

A. THE INDOOR UNITS CAN BE COMMANDED ON/OFF EITHER BY A SCHEDULE IN THE CENTRAL CONTROLLER OR AT THE REMOTE CONTROLLER. IF ALL INDOOR UNITS ARE OFF, THE OUTDOOR UNIT SHALL TURN OFF.

B. DURING COOLING MODE THE INDOOR UNIT SHALL MODULATE TO MAINTAIN TEMPERATURE SET POINT.

C. DURING MECHANICAL HEATING MODE THE INDOOR UNIT SHALL MODULATE TO MAINTAIN TEMPERATURE SET POINT

D. DURING NIGHT SETBACK (UNOCCUPIED MODE) THE SYSTEM SHALL CYCLE ON DURING UNOCCUPIED PERIODS AS NEEDED TO MAINTAIN UNOCCUPIED TEMPERATURE SET POINTS.

E. IF THE SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT PRIOR TO SCHEDULED OCCUPANCY, A MORNING WARMUP MODE SHALL BE ACTIVATED. MORNING WARM UP SHALL BE SCHEDULED IN AN APPROPRIATE TIMEFRAME TO ALLOW THE SPACE TO BE CONDITIONED PRIOR TO THE SCHEDULED OCCUPANCY.

D. IF THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT PRIOR TO SCHEDULED OCCUPANCY, A MORNING PRE-COOL MODE SHALL BE ACTIVATED. MORNING PRE-COOL SHALL BE SCHEDULED IN AN APPROPRIATE TIMEFRAME TO ALLOW THE SPACE TO BE CONDITIONED PRIOR TO THE SCHEDULED OCCUPANCY.

SUPPLY FAN (SF-1):

A. FAN TO SUPPLY VENTILATION TO FAN COIL UNITS. BALANCE AIRFLOW TO REQUIRED AIRFLOW RATE LISTED IN EQUIPMENT SCHEDULE.
DURING OCCUPIED HOURS THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY. UNIT SHALL BE INTERLOCKED WITH ASSOCIATED SPRING RETURN BACKDRAFT DAMPER THROUGH DIGITAL OUTPUT FROM VARI-GREEN CONTROLLER.
DURING UNOCCUPIED HOURS THE FAN SHALL BE DE-ENERGIZED AND ASSOCIATED SPRING RETURN BACKDRAFT DAMPER SHALL BE CLOSED.

CHASE

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No. 0013579

ENGINEER OF RECORD

**ISSUED FOR BID**



| ISSUE | DATE | DESCRIPTION |
|---|---|---|
| | 2023.09.08 | PERMIT SET |
| | 2024.03.01 | BID SET |

PROJECT INFORMATION

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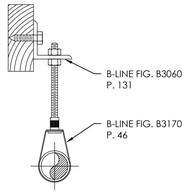
|---|---|
| PROJECT NO: | JPM.36475.BAU |
| DATE: | AS NOTED |
| **PROTOTYPE:** | **20.5** |
| DRAWN BY: | A.MATRISCIANO |
| CHECKED BY: | R.MOYER |
| VERSION: | DE_1.00 |

SHEET TITLE

MECHANICAL SCHEDULES

SHEET NUMBER

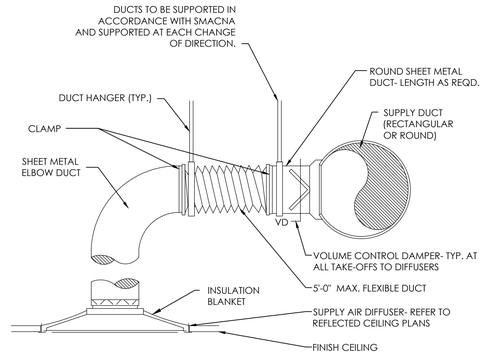
M2.0



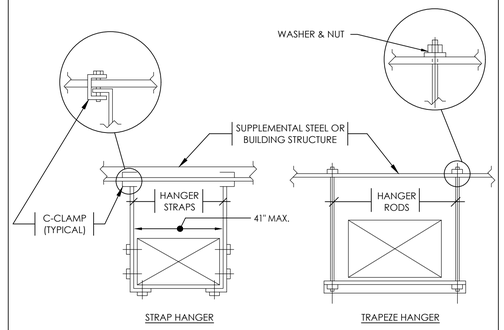

NOTES:

1. SIZE HANGER AND CLAMP TO ADEQUATELY SUPPORT LOAD (REFER TO B-LINE HANGER CATALOG).
2. FOR NFPA ROD SIZES USE B3170NF OR SUBSTITUTEB3174.
3. FOR COPPER TUBING USE COPPER PLATED OR PAINTED B3170CT, FELT LINED B3170F, OR PLASTIC COATED HANGERS.

PIPE HANGING INSTALLATION | SCALE NTS | 1



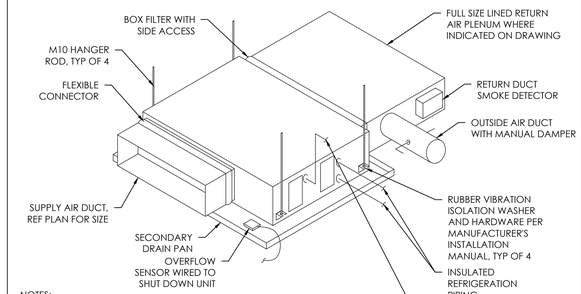

SUPPLY AIR TERMINAL | SCALE NTS | 2




NOTES

1. NO POP RIVETS ALLOWED, USE SELF-TAPPING SWEET METAL SCREWS ONLY.

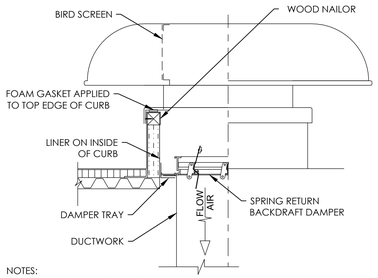
TYPICAL DUCT HANGING | SCALE NTS | 3




NOTES:

1. SLOPE CONDENSATE LINE 1/8" PER 1'.
2. SECONDARY DRAIN PAN SHALL BE MIN. 14 GA. GALVANIZED SHEET METAL WITH WELDED CORNERS AND MIN. 2" HIGH EDGES. EXTEND PAN MIN. 6" HORIZONTALLY AROUND PERIMETER OF UNIT.
3. SIZE AND INSTALL REFRIGERANT LIQUID AND SUCTION LINES PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

FAN COIL HANGING UNIT DETAIL | SCALE NTS | 4



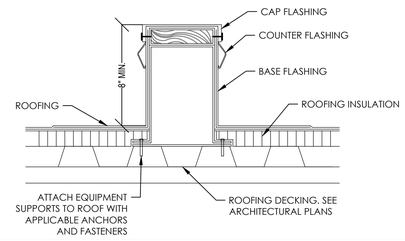

NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ALL ROOF PENETRATIONS ARE IN ACCORDANCE WITH THE ROOFING SYSTEM WARRANTY (WHERE APPLICABLE).

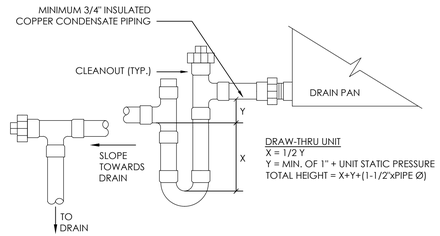
GRAVITY VENTILATOR DETAIL | SCALE NTS | 5

NOTES:

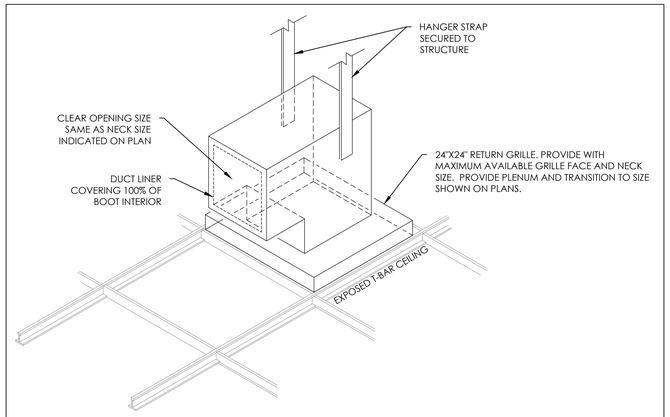
1. PROVIDE AND INSTALL LIQUID LINE SPECIALTIES IF NOT FACTORY INSTALLED.
2. PROVIDE OPERATION AND MAINTENANCE CLEARANCES AROUND ALL EQUIPMENT AS SPECIFIED BY THE MANUFACTURER.
3. OUTDOOR UNIT SHALL BE EQUIPPED WITH ISOLATION VALVES.
4. DISCONNECT SWITCHES SHALL NOT BE MOUNTED DIRECTLY ON UNITS. DISCONNECTS TO BE SUPPORTED BY UNISTRUT.
5. CONTRACTOR TO COORDINATE EQUIPMENT RAILS SIZE AND SPACING WITH EQUIPMENT MOUNTING LOCATIONS.
6. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ALL ROOF PENETRATIONS ARE IN ACCORDANCE WITH THE ROOFING SYSTEM WARRANTY (WHERE APPLICABLE).



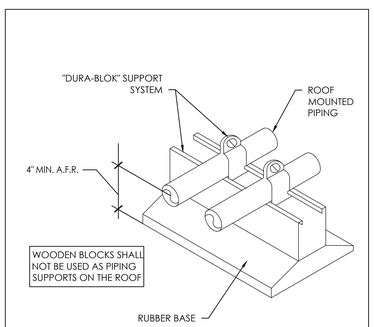

EQUIPMENT RAIL DETAIL | SCALE NTS | 6




CONDENSATE DRAIN TRAP | SCALE NTS | 7




RETURN BOOT DETAIL | SCALE NTS | 8



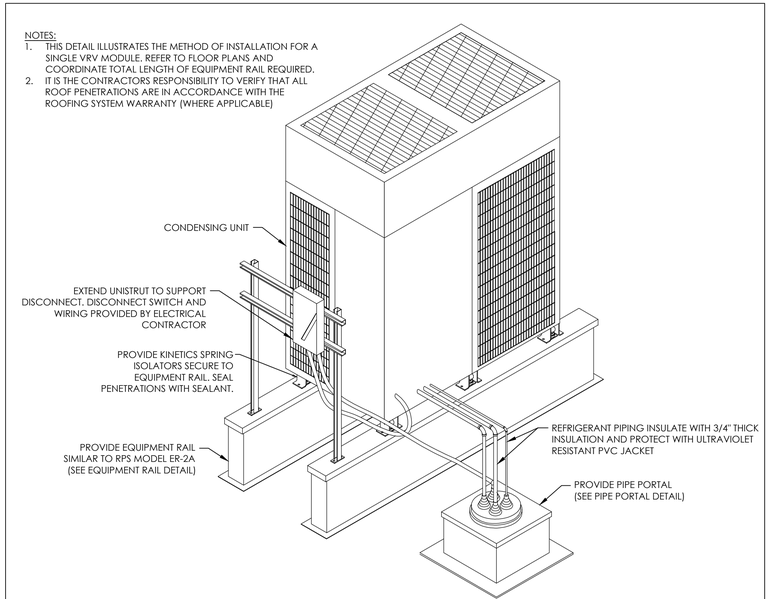

NOTES

1. SUPPORTS SHALL BE INSTALLED A MAXIMUM 8'-0" O.C. AND AT EACH CHANGE OF DIRECTION OF PIPING.

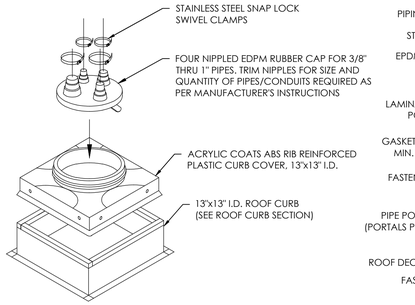
ROOF PIPE SUPPORT | SCALE NTS | 9

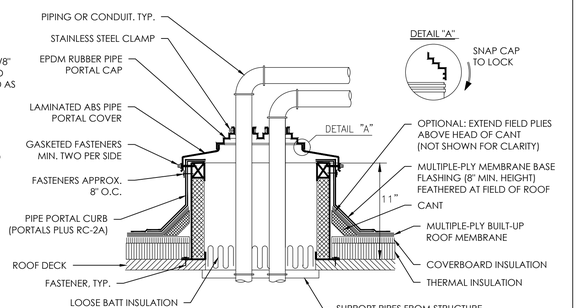
NOTES:

1. THIS DETAIL ILLUSTRATES THE METHOD OF INSTALLATION FOR A SINGLE VRV MODULE. REFER TO FLOOR PLANS AND COORDINATE TOTAL LENGTH OF EQUIPMENT RAIL REQUIRED.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ALL ROOF PENETRATIONS ARE IN ACCORDANCE WITH THE ROOFING SYSTEM WARRANTY (WHERE APPLICABLE)




VRV CONDENSING UNIT DETAIL | SCALE NTS | 10




NOTES:

1. THIS DETAIL IS BASED ON PRODUCTS MANUFACTURED BY ROOF PRODUCTS & SYSTEMS CORP. AND PORTALS PLUS
2. THIS DETAIL ILLUSTRATES THE METHOD OF GROUPING PIPING AND ELECTRICAL CONDUIT THAT MUST PENETRATE THE ROOF. REFER TO FLOOR PLANS AND COORDINATE WITH ELECTRICAL CONTRACTOR TO DETERMINE THE EXACT NUMBER OF PIPES AND CONDUITS.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ALL ROOF PENETRATIONS ARE IN ACCORDANCE WITH THE ROOFING SYSTEM WARRANTY (WHERE APPLICABLE)

PIPE PORTAL DETAIL | SCALE NTS | 11

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SHEET NUMBER

M3.0

# Note :
Power wiring, breaker size, and disconnects should follow local code and NEC.
Multi-frame outdoor units require a separate power connection for each frame.
Refer to the most up-to-date submittal sheets for applicable electrical data.
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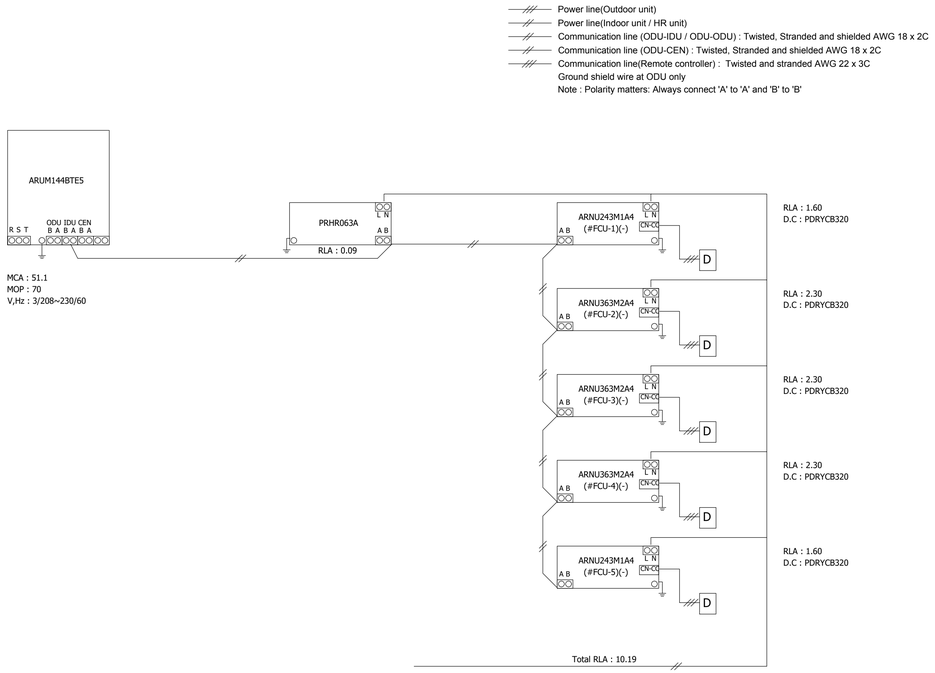
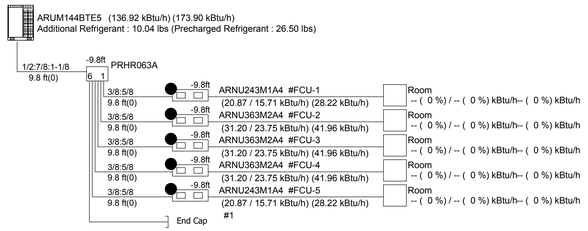



VRF WIRING SCHEMATICS | SCALE NTS | 1




VRF PIPING SCHEMATIC | SCALE NTS | 2

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SHEET NUMBER

M3.1

## ABBREVIATIONS

| | |
|---|---|
| A | AMPERE |
| AFF | ABOVE FINISHED FLOOR |
| AHU | AIR HANDLING UNIT |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AWG | AMERICAN WIRE GAUGE |
| C | CONDUIT |
| CB | CIRCUIT BREAKER |
| CKT | CIRCUIT |
| CLG | CEILING |
| CT | CURRENT TRANSFORMER |
| CU | COPPER |
| DWG | DRAWING |
| E | EXISTING |
| EB | EQUIPMENT BOARD |
| E.C. | ELECTRICAL CONTRACTOR |
| EF | EXHAUST FAN |
| EM | EMERGENCY |
| EMT | ELECTRICAL METALLIC TUBING |
| ENCL | ENCLOSURE |
| EWC | ELECTRIC WATER COOLER |
| EWH | ELECTRIC WATER HEATER |
| F | FUSE |
| FA | FIRE ALARM |
| FATC | FIRE ALARM TERMINAL CABINET |
| FACP | FIRE ALARM CONTROL PANEL |
| GFI, GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| GND,G | GROUND |
| HACR | HEATING/AIR CONDITIONING-RATED |
| HD | HAND DRYER |
| HP | HORSEPOWER |
| IG | ISOLATED GROUND |
| J | JUNCTION BOX |
| KCMIL | THOUSAND CIRCULAR MILS |
| KVA | KILOVOLT AMPERE |
| KW | KILOWATT |
| MCB | MAIN CIRCUIT BREAKER |
| MDP | MAIN DISTRIBUTION PANEL |
| MLO | MAIN LUGS ONLY |
| MTS | MANUAL TRANSFER SWITCH |
| NC | NORMALLY CLOSED |
| NEC | NATIONAL ELECTRICAL CODE |
| NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
| NF | NON-FUSED |
| NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| NL | NIGHT LIGHT |
| PNL | PANEL |
| PVC | POLYVINYL CHLORIDE CONDUIT |
| REF | REFRIGERATOR |
| SPD | SURGE PROTECTIVE DEVICE |
| SW | SWITCH |
| SWBD | SWITCHBOARD |
| TS | TIME SWITCH |
| TYP | TYPICAL |
| UG | UNDERGROUND |
| UH | UNIT HEATER |
| UON | UNLESS OTHERWISE NOTED |
| UPS | UNINTERRUPTIBLE POWER SUPPLY |
| V | VOLT |
| VAV | VARIABLE AIR VOLUME |
| VFD | VARIABLE FREQUENCY DRIVE |
| WP | WEATHER PROOF |
| WR | WEATHER RESISTANT |
| XFMR | TRANSFORMER |

NOT ALL ABBREVIATIONS WILL BE USED. USED FOR REFERENCE PURPOSES ONLY.

## GENERAL INFORMATION

1. NUMBERS SHOWN ON PLANS ADJACENT TO WIRING DEVICES INDICATE BRANCH CIRCUIT NUMBER.
2. STANDARD SYMBOLS SHOWN ON LEGEND MAY NOT APPEAR ON ALL PLANS. WHERE SYMBOL APPEARS ON PLANS FURNISH AND INSTALL AS SPECIFIED.

## POWER & COMMUNICATIONS LEGEND

REFERENCE ARCHITECTURAL ELEVATION PLANS FOR DEVICE MOUNTING HEIGHT UNLESS OTHERWISE NOTED (UON).

HOMERUN TO PANEL INDICATED (CONCEALED). MINIMUM 3/4" CONDUIT. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL CONDUCTORS. FOR HOMERUNS EXCEEDING 100' IN LENGTH PROVIDE #10 CONDUCTORS. FOR HOMERUNS EXCEEDING 150' IN LENGTH PROVIDE #8 CONDUCTORS. THERE SHALL BE A MAXIMUM OF 2 BRANCH CIRCUITS FOR SINGLE PHASE AND 3 BRANCH CIRCUITS FOR THREE PHASE PER HOMERUN (AS INDICATED ON THE PLANS). TEXT SHOWN BY HOMERUN INDICATES PANELBOARD DESIGNATION AND CIRCUIT NUMBER(S).

CONDUIT CONCEALED IN WALL OR ABOVE CEILING SPACE. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS SHOWN, INCLUDE #12 GROUND AND #12 NEUTRAL. MINIMUM 1/2" CONDUIT.

UNDERGROUND OR BELOW SLAB CONDUIT. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL. MINIMUM 3/4" CONDUIT.

J — CEILING OR WALL MOUNTED JUNCTION BOX - UON SIZE AS REQUIRED BY NEC

SPD — SURGE PROTECTIVE DEVICE AS INDICATED

PANELBOARD - BRANCH CIRCUIT TYPE - 120/208V

METER SOCKET

NON-FUSIBLE DISCONNECT SWITCH - HEAVY DUTY - SEE SPECIFICATIONS - MOUNT TOP OF ENCLOSURE 66" AFF. (UON)

FUSIBLE DISCONNECT SWITCH - HEAVY DUTY - FUSED AS INDICATED ON PLANS - SEE SPECIFICATIONS - MOUNT TOP OF ENCLOSURE 66" AFF. (UON)

ENCLOSED CIRCUIT BREAKER - HEAVY DUTY - SEE SPECIFICATIONS - MOUNT TOP OF ENCLOSURE 66" AFF. (UON)

DUPLEX RECEPTACLE - 20A, 120V - CENTER MOUNTED 18" AFF. (UON)

## GENERAL NOTES:

| | |
|---|---|
| 1. | REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR ELECTRICAL SYSTEM DEVICE AND FIXTURE LOCATIONS AND ADDITIONAL INFORMATION ON BUILDING ENVELOPE FIXTURES AND DEVICES. |
| 2. | ALL LINE- AND LOW-VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT SYSTEMS CONFORMING TO PROJECT MANUAL SPECIFICATIONS SECTION 260531. THE FOLLOWING CONDUITS ARE PERMITTED;<br>• GALVANIZED RIGID CONDUIT (GRC): HOT DIPPED GALVANIZED RIGID STEEL WITH THREADED ENDS. MEET ASTM STANDARD A-153 GALVANIZED AFTER FABRICATION.<br>• INTERMEDIATE METAL CONDUIT (IMC): RIGID MILD STEEL TUBE WITH WELDED SEAMS, HOT DIPPED GALVANIZED WITH THREADED ENDS.<br>• THIN WALL: ELECTRO-GALVANIZED ELECTRICAL METALLIC TUBING (EMT).<br>CONDUITS MUST ALSO BE;<br>• FLEXIBLE: ALLOWED WITH-IN 4'-0" FLEXIBLE CONNECTION ONLY. HOT DIPPED GALVANIZED MATERIAL OF MILD STEEL OF UNIFORM WIDTH AND THICKNESS.<br>• FLEXIBLE LIQUID TIGHT: ALLOWED WITH-IN 4'-0" FLEXIBLE CONNECTION ONLY. HOT DIPPED GALVANIZED MATERIAL OF MILD SHELL OF UNIFORM WIDTH AND THICKNESS WITH EXTRUDED MOISTURE AND OIL PROOF PVC JACKET. |
| 3. | ALL CONDUIT SYSTEMS CONFORMING TO PROJECT MANUAL SPECIFICATIONS SECTION 260531 MUST BE UTILIZED WITH APPROPRIATE CONDUIT FITTINGS;<br>• GRC CONDUIT: THREADED TYPE.<br>• IMC CONDUIT: THREADED TYPE.<br>• THIN WALL OR EMT: RAIN-TIGHT AND CONCRETE-TIGHT. GLAND COMPRESSION TYPE. INSULATED NYLON THROAT WITH DIE-CAST BODY AND STEEL NUT. APPLETON TYPE 861 SERIES OR EQUAL. FOR CONDUIT SIZES 3" AND LARGER (WHERE NOT REQUIRED TO BE RAIN OR CONCRETE TIGHT) SET-SCREW TYPE IS ACCEPTABLE.<br>• FLEXIBLE CONDUIT: SINGLE OR TWO PIECE SQUEEZE TYPE.<br>• FLEXIBLE LIQUID TYPE: COMPRESSION TYPE. |
| 4. | PREFERENCE IS FOR ALL LINE- AND LOW-VOLTAGE WIRING TO BE INSTALLED IN CONDUIT SYSTEMS CONFORMING TO PROJECT MANUAL SPECIFICATIONS SECTION 260531. TYPE MC METAL-SHEATHED CABLES WITH INSULATED GROUNDING CONDUCTORS MAY BE SUBSTITUTED FOR CONDUIT FOR LINE- AND LOW-VOLTAGE WIRING WHERE SKILLED LABOR AVAILABILITY PREVENTS THE USE OF CONDUIT SYSTEMS, AND WHERE PERMITTED BY CODE. TYPE AC ARMORED CABLE WITH UNINSULATED GROUNDING CONDUCTORS ARE NOT PERMITTED. NON-METALLIC SHEATHED CABLES (GENERALLY "ROMEX"), TYPES NM, NMC AND NMS ARE NOT PERMITTED. |
| 5. | ALL ENDS OF CONDUIT SHALL HAVE BUSHING OR A COUPLING INSTALLED FOR THE PURPOSE OF PROVIDING PROTECTION OF CONDUCTORS. IN NO CASE ARE CONDUIT ENDS PERMITTED TO REMAIN OPEN. |
| 6. | ALL LOW VOLTAGE WIRING IN INACCESSIBLE AREAS SHALL BE INSTALLED IN METALLIC CONDUIT. |
| 7. | CONDUIT SYSTEMS INSTALLED ON THE ROOF SHALL BE INSTALLED IN METALLIC CONDUIT AND SUPPORTED EVERY FIVE FEET. |
| 8. | ALL WIRING FOR THE PURPOSE OF EMERGENCY SYSTEMS SHALL BE INSTALLED IN A SEPARATE CONDUIT SYSTEM INDEPENDENT OF OTHER SYSTEMS. |
| 9. | COORDINATE WITH SPECIFICATION 260519 THAT LOW VOLTAGE CONDUCTOR AND CABLE IS COMPLIANT. SHALL CONTAIN A PROPERLY SIZED GREED GROUND CONDUCTOR AND SHALL NOT EXCEED SIX FEET (6') IN LENGTH. |
| 10. | ALL BRANCH CIRCUIT CONDUCTORS SHALL BE CONNECTED BY MEANS OF A SCREW TERMINAL. |
| 11. | THE CONTINUITY OF ANY BRANCH CIRCUIT CONDUCTOR INCLUDING ANY IDENTIFIED GROUNDED CONDUCTOR SHALL NOT DEPEND UPON DEVICE CONNECTIONS, SUCH AS LAMPHOLDERS, RECEPTACLES, ETC., WHERE THE REMOVAL OF SUCH DEVICES WOULD INTERRUPT THE CONTINUITY. |
| 12. | DE-RATING OF THE NEUTRAL IS PROHIBITED. |
| 13. | THE USE OF AUXILIARY GUTTERS, WIREWAYS, RACEWAYS, AS ENCLOSURES FOR SERVICE ENTRANCE OR TAPPING OF SERVICE ENTRANCE CONDUCTORS IS STRICTLY PROHIBITED. |
| 14. | METAL IDENTIFICATION TAGS SHALL BE INSTALLED WHERE THE GROUNDING CONDUCTOR IS CONNECTED TO THE GROUNDING ELECTRODE. |
| 15. | ALL POWER, DATA AND SECURITY CONDUIT CONNECTIONS TO SYSTEMS FURNITURE PANELS SHALL BE BY THE ELECTRICAL CONTRACTOR. COORDINATE EXACT LOCATIONS AND CONNECTION REQUIREMENTS WITH OWNER'S SYSTEMS FURNITURE VENDOR PRIOR TO ROUGH-IN. INSTALL FLUSH JUNCTION BOXES AT 8" MIN. AFF AND PROVIDE FLEXIBLE CONDUIT TO PARTITIONS SYSTEM RACEWAY. |
| 16. | REFER TO ARCHITECTURAL DRAWINGS FOR ORIENTATION OF POWER, DATA AND SECURITY SYSTEMS JUNCTION BOXES AND MUD RINGS. |
| 17. | REFER TO ARCHITECTURAL DRAWINGS FOR ELECTRICAL, DATA, AND SECURITY DEVICE AND COVER PLATE COLORS. |
| 18. | ISOLATED GROUND RECEPTACLES SHALL BE ORANGE. |
| 19. | PENETRATIONS OF FLOORS, ROOF, WALLS AND WALL MEMBRANES REQUIRED TO HAVE FIRE-RESISTANCE RATINGS SHALL BE PROTECTED WITH THROUGH-PENETRATION FIRE STOPS SUITABLE FOR THE METHOD OF PENETRATION. MAINTAIN ALL FIRE RATINGS. THROUGH-PENETRATIONS FIRE STOPS SHALL BE TESTED IN ACCORDANCE WITH UL AND BUILDING CODE REQUIREMENTS. |
| 20. | ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENTLY ENFORCED NATIONAL ELECTRICAL CODE (NEC). |
| 21. | UNLESS OTHERWISE DICTATED BY APPLICABLE CODES OR THE AHJ, ALL MATERIALS WITHIN RETURN AIR PLENUM MUST BE NONCOMBUSTIBLE AND/OR HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX NOT MORE THAN 50 IN ACCORDANCE WITH ATSM E 84 TESTING. |
| 22. | THE ELECTRICAL/DATA ROOM MUST BE 100% COMPLETE AT A MINIMUM OF 45 DAYS PRIOR TO CONSTRUCTION COMPLETION/TURNOVER DATE. |
| 23. | UNLESS OTHERWISE NOTED, ALL RECEPTACLES SHALL BE MOUNTED AT 18" AFF. REFER TO ARCHITECTURAL ELEVATIONS FOR FINAL LOCATIONS AND MOUNTING HEIGHTS. |
| 24. | E.C. TO PROVIDE LABELS ON ALL RECEPTACLES (ELECTRICAL, DATA, AND SECURITY). COORDINATE LABEL NAMING CONVENTIONS WITH OWNER PRIOR TO INSTALLATION. |
| 25. | THE G.C./E.C. IS RESPONSIBLE FOR ALL CONDUIT AND JUNCTION BOX ROUGH-INS FOR TELECOMMUNICATIONS AND SECURITY. REFER TO TC SERIES DRAWINGS INCLUDED IN CONSTRUCTION DOCUMENTS SET FOR ROUGH-IN REQUIREMENTS AND FINAL LOCATIONS. |
| 26. | THE OWNER'S FACILITY MANAGER IS REQUIRED TO BE INVITED TO MECHANICAL AND ELECTRICAL SUBCONTRACTOR KICKOFF MEETINGS, PERIODIC MEETINGS AND WALK-THROUGHS INVOLVING MECHANICAL AND ELECTRICAL WORK. |
| 27. | ALL GROUND-LEVEL ELECTRICAL EQUIPMENT ENCLOSURES ARE TO BE SPECIFIED WITH LOCK HASPS. PROVIDE KEYED-ALIKE PADLOCKS AT EACH ENCLOSURE. |
| 28. | WIRE SIZES ARE BASED ON THHW, THWN COPPER (CU) CONDUCTORS. FOR ALLOWABLE AMPACITIES, THE 60° CELSIUS COLUMN FOR BRANCH CIRCUITS RATED 100A OR LESS AND 75° CELSIUS COLUMN FOR FEEDERS RATED OVER 100A SHALL BE USED WHERE APPLICABLE. ELECTRICAL CONTRACTOR SHALL VERIFY ALL TERMINAL RATINGS AND CONFIRM ALLOWABLE AMPACITIES. IT IS ASSUMED ALL TERMINALS, EQUIPMENT, AND DEVICES ARE RATED FOR 75° CELSIUS. IF TERMINALS ARE RATED FOR OTHER THAN 75° CELSIUS, ELECTRICAL CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD. |
| 29. | WHERE THERE ARE MORE THAN THREE CURRENT-CARRYING CONDUCTORS INSTALLED IN A RACEWAY OR A CABLE, THE AMPACITY OF THE CONDUCTORS ARE TO BE DERATED PER THE REQUIREMENT OF NEC TABLE 310.15(B)(3)(a). |

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CORESTATES ARCHITECTURE AND ENGINEERING PLLC
NEW YORK No. 001357
CORESTATES CONSTRUCTION
NEW YORK No. 001357


ENGINEER OF RECORD

**ISSUED FOR BID**

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.


JOHN D. FERGUSON, P.E.
**NEW YORK**
LICENSE No. 085807


| ISSUE | DATE | DESCRIPTION |
|---|---|---|
| | 2023.09.08 | PERMIT SET |
| | 2024.03.01 | BID SET |

PROJECT INFORMATION

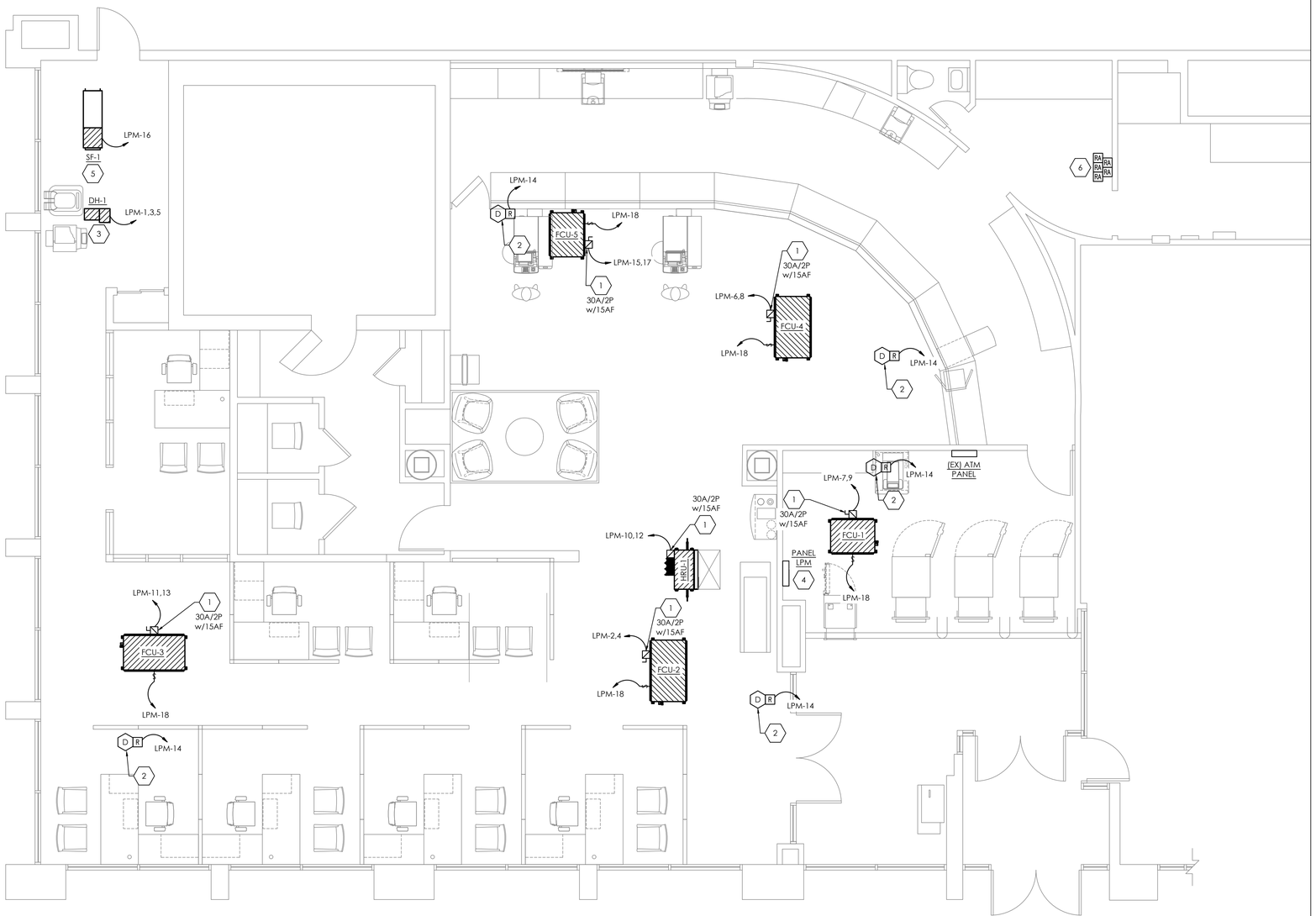
| | |
|---|---|
| PROJECT NO: | JPM.36475.BAU |
| DATE: | AS NOTED |
| **PROTOTYPE:** | **20.5** |
| DRAWN BY: | D. MULVANEY |
| CHECKED BY: | C. SACCO |
| VERSION: | DE_1.00 |

SHEET TITLE

LEGEND, ABBREVIATIONS AND NOTES

SHEET NUMBER

E0.0




POWER PLAN | SCALE 1/4" = 1' | 1

## ELECTRICAL GENERAL NOTES:

- ALL POWER CONNECTIONS TO FURNITURE (IF APPLICABLE) ARE TO BE BY THE ELECTRICAL CONTRACTOR. FINAL DATA/COMMUNICATION CABLING AND CONNECTIONS ARE TO BE BY OTHERS. COORDINATE EXACT LOCATIONS AND CONNECTION REQUIREMENTS WITH THE FURNITURE SUPPLIER/INSTALLER PRIOR TO ROUGH-IN.

## (#) ELECTRICAL KEYNOTES:

1. PROVIDE POWER TO MECHANICAL EQUIPMENT AS SHOWN. PROVIDE DISCONNECTING MEANS AS REQUIRED. COORDINATE FINAL LOCATION AND EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
2. STANDALONE DUCT DETECTOR, INSTALLED IN DUCT BY HVAC CONTRACTOR, WIRING BY ELECTRICAL CONTRACTOR. SYSTEM SENSOR MODEL D4120 OR EQUIVALENT. COORDINATE WITH MECHANICAL CONTRACTOR FOR LOCATION.
3. EXISTING DUCT HEATER TO BE REMOVED AND REPLACED WITH NEW. VERIFY EXISTING CONNECTION IN FIELD AND REMOVE ASSOCIATED WIRING AND CONDUIT FROM EXISTING UNIT BEING REMOVED BACK TO POWER SOURCE. PROVIDE POWER TO DUCT HEATER AS SHOWN. ELECTRIC DUCT HEATER PROVIDED WITH FACTORY MOUNTED DISCONNECT SWITCH. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
4. MAINTAIN REQUIRED CLEARANCES FOR ALL ELECTRICAL PANELS PER THE NEC SECTION 110.26. REFER TO POWER RISER DIAGRAM LOCATED ON POWER DETAILS AND SCHEDULES SHEET FOR ADDITIONAL INFORMATION.
5. DISCONNECT SWITCH IS BEING PROVIDED WITH EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR FOR INSTALLATION AND POWER CONNECTION. IF NO DISCONNECT WAS INCLUDED WITH SHIPMENT, COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE AS REQUIRED.
6. REMOTE DUCT MOUNTED SMOKE DETECTOR TEST SWITCH. PROVIDE SYSTEM SENSOR MODEL APA151 ANNUNCIATOR WITH PIEZO ALERT OR EQUIVALENT AND SYSTEM SENSOR MODEL RTS151 KEY TEST SWITCH OR EQUIVALENT. ACTIVATION OF A DUCT SMOKE DETECTOR SHALL INITIATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION

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| VERSION: | DE_1.00 |

SHEET TITLE

POWER PLAN

SHEET NUMBER

E1.0

ROOF POWER PLAN | SCALE 1/4" = 1' | 1

## ELECTRICAL GENERAL NOTES:

- ALL POWER CONNECTIONS TO FURNITURE (IF APPLICABLE) ARE TO BE BY THE ELECTRICAL CONTRACTOR. FINAL DATA/COMMUNICATION CABLING AND CONNECTIONS ARE TO BE BY OTHERS. COORDINATE EXACT LOCATIONS AND CONNECTION REQUIREMENTS WITH THE FURNITURE SUPPLIER/INSTALLER PRIOR TO ROUGH-IN.

## (#) ELECTRICAL KEYNOTES:

1. EXISTING ROOFTOP UNIT TO BE REMOVED AND REPLACED WITH VRF UNIT. PROVIDE POWER AND DISCONNECTING MEANS TO NEW VRF UNIT AS SHOWN. VERIFY EXISTING CONNECTION IN FIELD AND REMOVE ASSOCIATED WIRING AND CONDUIT FROM EXISTING UNIT BEING REMOVED BACK TO POWER SOURCE. COORDINATE FINAL LOCATION AND EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
2. PROVIDE WEATHERPROOF, GFI PROTECTED, WEATHER RESISTANT ROOFTOP RECEPTACLE. OUTLET BOX HOODS SHALL BE IDENTIFIED AND LISTED AS EXTRA DUTY PER ARTICLE 406.9(B)(1). ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING EXTERIOR RECEPTACLES IN FIELD AND MAINTAIN AS REQUIRED.

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SHEET TITLE

ROOF
POWER PLAN

SHEET NUMBER

E1.1

## PANELBOARD: MDP-BANK (MODIFIED) (EXISTING)

BUS AMPS: 400A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SERVES: CHASE BANK
LOCATION: BASEMENT ELECTRICAL ROOM
MOUNTING: SURFACE

| CKT NO. | DESCRIPTION | VA/PHASE A | VA/PHASE B | VA/PHASE C | WIRE NO. | BKR AMP | P | P | BKR AMP | WIRE NO. | VA/PHASE A | VA/PHASE B | VA/PHASE C | DESCRIPTION | CKT NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | 2 |
| 3 | roof sub-panel for signs | | | | | 150 | 3 | 3 | 125 | | | | | panel lpb - bank panel | 4 |
| 5 | | | | | | | | | | | | | | | 6 |
| 7 | | | | | | | | | | | 5,262 | | | | 8 |
| 9 | panel lpn1 - in bank | | | | | 100 | 3 | 3 | 60 | 4 | | 4,334 | | (2) PANEL LPM | 10 |
| 11 | | | | | | | | | | | | | 4,801 | | 12 |
| 13 | | | | | | | | | | | 6,136 | | | | 14 |
| 15 | panel lpc - bank café | | | | | 60 | 3 | 3 | 70 | 3 | | 6,136 | | (3) VRV-1 | 16 VD |
| 17 | | | | | | | | | | | | | 6,136 | | 18 |
| SUBTOTAL | | | | | | | | | | | 11,398 | 10,470 | 10,937 | SUBTOTAL | |

| | | LOAD | CONN. VA | DF | LOAD | CONN. VA | DF | |
|---|---|---|---|---|---|---|---|---|
| TOTAL PHASE A - VA | 11,398 | COOLING | 21,280 | 0 | REFRIGERATION | | 1.00 | |
| AMPS | 95 | HEATING | 31,425 | 1.00 | SIGN/DISPLAY | | 1.25 | |
| TOTAL PHASE B - VA | 10,470 | LIGHTING | | 1.25 | KITCHEN | | 1.00 | |
| AMPS | 87 | RECEPTACLES | 180 | 1.0/.5 | EXISTING | | 1.00 | |
| TOTAL PHASE C - VA | 10,937 | MOTORS | 200 | 1.00 | LARGE MOTOR | | 1.25 | TOTAL DEMAND ADDED |
| AMPS | 91 | SUPP HEAT | | 1.00 | SHOW WINDOW | | 1.25 | 32,805 VA |
| TOTAL PNLBD - VA | 32,805 | MISC EQUIP | 1,000 | 1.00 | LTG TRACK | | 1.00 | 91 A |
| AMPS | 91 | | | | | | | |

UPPERCASE LETTERING INDICATES NEW CIRCUIT BREAKER & EQUIPMENT/LOAD
LOWERCASE LETTERING INDICATES EXISTING TO REMAIN CIRCUIT BREAKER & EQUIPMENT/LOAD

## PANELBOARD: LPN-1 (EXISTING)

SHOWN FOR REFERENCE ONLY

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SERVES: CHASE BANK
LOCATION: BASEMENT
MOUNTING: SURFACE

| CKT NO. | DESCRIPTION | VA/PHASE A | VA/PHASE B | VA/PHASE C | WIRE NO. | BKR AMP | P | P | BKR AMP | WIRE NO. | VA/PHASE A | VA/PHASE B | VA/PHASE C | DESCRIPTION | CKT NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | light behind teller + atm lights | | | | | 20 | 1 | | | | | | | | 2 |
| 3 | fax + computer + camera | | | | | 20 | 1 | 3 | 60 | | | | | sub panel feed for contactor | 4 |
| 5 | lights behind teller | | | | | 20 | 1 | | | | | | | | 6 |
| 7 | receptacle | | | | | 20 | 1 | 1 | 20 | | | | | receptacle | 8 |
| 9 | receptacle | | | | | 20 | 1 | 1 | 20 | | | | | receptacle | 10 |
| 11 | receptacle | | | | | 20 | 1 | 1 | 20 | | | | | bathroom lights | 12 |
| 13 | receptacle | | | | | 20 | 1 | 1 | 30 | | | | | receptacle | 14 |
| 15 | atm lobby ceiling heater | | | | | 20 | 2 | 1 | 20 | | | | | receptacle | 16 |
| 17 | | | | | | | | 1 | 20 | | | | | receptacle | 18 |
| 19 | plugmold | | | | | 20 | 1 | 1 | 20 | | | | | lan duplex recep | 20 |
| 21 | plugmold | | | | | 20 | 1 | 1 | 20 | | | | | lan duplex recep | 22 |
| 23 | contactor sw, feed | | | | | 20 | 1 | 1 | 20 | | | | | receptacle | 24 |
| 25 | receptacle for phones | | | | | 20 | 1 | 1 | 20 | | | | | receptacle | 26 |
| 27 | comp. 3,4,5 | | | | | 20 | 1 | 1 | 20 | | | | | receptacle | 28 |
| 29 | lights | | | | | 20 | 1 | 1 | 20 | | | | | receptacle | 30 |
| 31 | comp. 1+2 | | | | | 20 | 1 | 1 | 15 | | | | | navco | 32 |
| 33 | spare | | | | | 20 | 1 | 1 | 20 | | | | | lan simplex receptacle | 34 |
| 35 | comp. 6,7,8 | | | | | 20 | 1 | | | | | | | | 36 |
| 37 | | | | | | | | 3 | 30 | | | | | ac compessor | 38 |
| 39 | atm panel | | | | | 60 | 3 | | | | | | | | 40 |
| 41 | | | | | | | | 1 | 20 | | | | | hi hats teller line + exit lights | 42 |
| SUBTOTAL | | | | | | | | | | | | | | SUBTOTAL | |

| | | LOAD | CONN. VA | DF | LOAD | CONN. VA | DF | |
|---|---|---|---|---|---|---|---|---|
| TOTAL PHASE A - VA | | COOLING | | 1.00 | REFRIGERATION | | 1.00 | |
| AMPS | | HEATING | | 0 | SIGN/DISPLAY | | 1.25 | |
| TOTAL PHASE B - VA | | LIGHTING | | 1.25 | KITCHEN | | 1.00 | |
| AMPS | | RECEPTACLES | | 1.0/.5 | EXISTING | | 1.00 | |
| TOTAL PHASE C - VA | | MOTORS | | 1.00 | LARGE MOTOR | | 1.25 | TOTAL DEMAND |
| AMPS | | SUPP HEAT | | 1.00 | SHOW WINDOW | | 1.25 | |
| TOTAL PNLBD - VA | | MISC EQUIP | | 1.00 | LTG TRACK | | 1.00 | |
| AMPS | | | | | | | | |

LOWERCASE LETTERING INDICATES EXISTING TO REMAIN CIRCUIT

## LOADCENTER: ATM PANEL (MODIFIED) (EXISTING)

SHOWN FOR REFERENCE ONLY

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SERVES: CHASE BANK
LOCATION: FIRST FLOOR ATM ROOM
MOUNTING: SURFACE

| CKT NO. | DESCRIPTION | VA/PHASE A | VA/PHASE B | VA/PHASE C | WIRE NO. | BKR AMP | P | P | BKR AMP | WIRE NO. | VA/PHASE A | VA/PHASE B | VA/PHASE C | DESCRIPTION | CKT NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | new 30a server on wall twistlock | | | | | 30 | 1 | 1 | 20 | | | | | atm recept./server recept | 2 |
| (4) 3 | SPARE | | | | | 20 | 2 | 1 | 20 | | | | | cash recycler | 4 |
| 5 | | | | | | | | 1 | 20/20 | | | | | atm #3 / atm #2 | 6 |
| (4) 7 | SPARE | | | | | 20 | 2 | 1 | 20 | | | | | atm #4 | 8 |
| 9 | | | | | | | | 1 | 20 | | | | | surround lobby lts + tele recept. | 10 |
| 11 | alarm plugmold | | | | | 30 | 1 | 1 | 20 | | | | | panel recept. / basys control box | 12 |
| SUBTOTAL | | | | | | | | | | | | | | SUBTOTAL | |

| | | LOAD | CONN. VA | DF | LOAD | CONN. VA | DF | |
|---|---|---|---|---|---|---|---|---|
| TOTAL PHASE A - VA | | COOLING | | 1.00 | REFRIGERATION | | 1.00 | |
| AMPS | | HEATING | | 0 | SIGN/DISPLAY | | 1.25 | |
| TOTAL PHASE B - VA | | LIGHTING | | 1.25 | KITCHEN | | 1.00 | |
| AMPS | | RECEPTACLES | | 1.0/.5 | EXISTING | | 1.00 | |
| TOTAL PHASE C - VA | | MOTORS | | 1.00 | LARGE MOTOR | | 1.25 | TOTAL DEMAND |
| AMPS | | SUPP HEAT | | 1.00 | SHOW WINDOW | | 1.25 | |
| TOTAL PNLBD - VA | | MISC EQUIP | | 1.00 | LTG TRACK | | 1.00 | |
| AMPS | | | | | | | | |

LOWERCASE LETTERING INDICATES EXISTING TO REMAIN CIRCUIT
UPPERCASE LETTERING INDICATES EXISTING LOAD/EQUIPMENT REMOVED AND BREAKER MADE SPARE

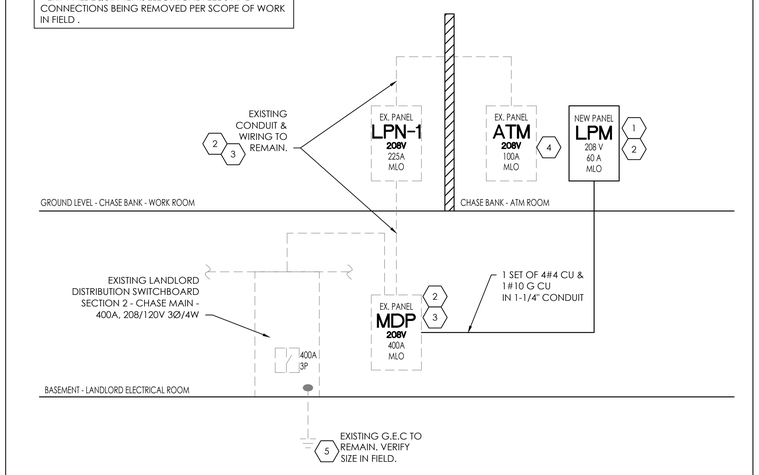
## PANELBOARD: LPM (NEW)

BUS AMPS: 60A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SERVES: CHASE BANK
LOCATION: BASEMENT
FAULT CURRENT: KAIC RATING TO MATCH OR EXCEED EXISTING EQUIPMENT
(2)
EQUIPMENT GROUND BUS
MOUNTING: RECESSED

| CKT NO. | DESCRIPTION | VA/PHASE A | VA/PHASE B | VA/PHASE C | WIRE NO. | BKR AMP | P | P | BKR AMP | WIRE NO. | VA/PHASE A | VA/PHASE B | VA/PHASE C | DESCRIPTION | CKT NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 3,333 | | | | | | 2 | 15 | 12 | 354 | | | | |
| 3 | DH-1 | | 3,333 | | 8 | 35 | 3 | | | | | 354 | | FCU-2 | 2 |
| 5 | | | | 3,333 | | | | 2 | 15 | 12 | | | 354 | | 4 |
| 7 | FCU-1 | 187 | | | 12 | 15 | 2 | | | | 354 | | | FCU-4 | 6 |
| 9 | | | 187 | | | | | 2 | 15 | 12 | | 73 | | | 8 |
| 11 | FCU-3 | | | 354 | 12 | 15 | 2 | | | | | | 73 | HRU-1 | 10 |
| 13 | | 354 | | | | | | 1 | 15 | 12 | 500 | | | | 12 |
| 15 | FCU-5 | | 187 | | 12 | 15 | 2 | 1 | 15 | 12 | | 200 | | DUCT SMOKE DETECTORS | 14 |
| 17 | | | | 187 | | | | 1 | 15 | 12 | | | 500 | SF-1 | 16 |
| 19 | SPACE | | | | | | 1 | 1 | 20 | 12 | 180 | | | CONDENSATE PUMPS | 18 |
| 21 | SPACE | | | | | | 1 | 1 | | | | | | ROOFTOP CONV. RECEPT | 20 |
| 23 | SPACE | | | | | | 1 | 1 | | | | | | SPACE | 22 |
| SUBTOTAL | | 3,874 | 3,707 | 3,874 | | | | | | | 1,388 | 627 | 927 | SPACE | 24 |
| | | | | | | | | | | | | | | SUBTOTAL | |

| | | LOAD | CONN. VA | DF | LOAD | CONN. VA | DF | |
|---|---|---|---|---|---|---|---|---|
| TOTAL PHASE A - VA | 5,262 | COOLING | 2,872 | 0 | REFRIGERATION | | 1.00 | |
| AMPS | 44 | HEATING | 13,017 | 1.00 | SIGN/DISPLAY | | 1.25 | |
| TOTAL PHASE B - VA | 4,334 | LIGHTING | | 1.25 | KITCHEN | | 1.00 | |
| AMPS | 36 | RECEPTACLES | 180 | 1.0/.5 | EXISTING | | 1.00 | |
| TOTAL PHASE C - VA | 4,801 | MOTORS | 200 | 1.00 | LARGE MOTOR | | 1.25 | TOTAL DEMAND |
| AMPS | 40 | SUPP HEAT | | 1.00 | SHOW WINDOW | | 1.25 | 14,397 VA |
| TOTAL PNLBD - VA | 14,397 | MISC EQUIP | 1,000 | 1.00 | LTG TRACK | | 1.00 | 40 A |
| AMPS | 40 | | | | | | | |

POWER RISER DIAGRAM ONLY INDICATES ELECTRICAL EQUIPMENT AFFECTED BY PROPOSED SCOPE OF WORK. VERIFY ALL EQUIPMENT, ELECTRICAL FEEDS AND CONNECTIONS BEING REMOVED PER SCOPE OF WORK IN FIELD .




POWER RISER DIAGRAM | SCALE NTS | 1

## ELECTRICAL GENERAL NOTES:

- 130.5(c) VOLTAGE DROP: THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
- FOR ALL DEMOLITION ON PANELS SCOPE OF WORK. CONTRACTOR SHALL PROVIDE NEW CONDUIT AND WIRING AS REQUIRED.
- ALL EQUIPMENT SHOWN WITH LIGHTER/DASHED LINEWEIGHT IS EXISTING TO REMAIN. EQUIPMENT SHOWN WITH SOLID/DARKER LINEWEIGHT IS NEW.

## (#) ELECTRICAL KEYNOTES:

| | |
|---|---|
| 1. | AS PER NEC 408.4, PROVIDE REQUIRED FIELD IDENTIFICATION. ALL SWITCHBOARDS, SWITCHGEAR, AND PANELBOARDS SHALL BE PERMANENTLY MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THE POWER ORIGINATES. THE LABEL SHALL BE PERMANENTLY AFFIXED, OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED, AND NOT HANDWRITTEN. |
| 2. | ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING 20A/3P BREAKER IN PANEL "MDP" FEEDING EXISTING BASEMENT AIR HANDLER BEING REMOVED AND REPLACE WITH NEW 60A/3P CIRCUIT BREAKER TO FEED NEW PANELBOARD "LPM" WITHIN CHASE BANK SPACE. VERIFY EXISTING FEED IN FIELD AND REMOVE ALL CORRESPONDING CONDUIT AND WIRING NO LONGER IN USE. PROVIDE NEW CONDUIT AND WIRING TO FEED NEW PANEL "LPM" AS REQUIRED. COORDINATE FINAL LOCATION OF NEW PANEL "LPM" WITH OWNER AS REQUIRED. |
| 3. | ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING 125A/3P BREAKER IN PANEL "MDP" FEEDING EXISTING ROOFTOP A/C UNIT AND REPLACE WITH NEW 70A/3P CIRCUIT BREAKER TO FEED NEW ROOFTOP VRF UNIT. VERIFY EXISTING FEED IN FIELD AND REMOVE ANY ASSOCIATED CONDUIT AND WIRING NO LONGER IN USE. PROVIDE NEW CONDUIT AND WIRING TO FEED NEW UNIT AS REQUIRED. |
| 4. | CIRCUIT BREAKERS FOR EQUIPMENT BEING REMOVED PER SCOPE OF WORK TO BE MADE "SPARE". ELECTRICAL CONTRACTOR SHALL VERIFY ALL EXISTING FEEDS FOR EQUIPMENT BEING REMOVED PRIOR TO DEMOLITION AND REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE AS REQUIRED. |
| 5. | ELECTRICAL CONTRACTOR TO VERIFY GEC MEETS NEC AND LOCAL CODE REQUIREMENTS. |

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POWER DETAILS AND SCHEDULES

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