WELLS FARGO

INTERIOR FIT-OUT
1130 EAST POST ROAD
MAMARONECK, NEW YORK 10022

BUILDING INFORMATION:

BLOCK NO. ———————————————— 63
LOT NO. ———————————————— 6
USE GROUP CLASSIFICATION ———————————— B BUSINESS
CONSTRUCTION CLASSIFICATION ———————————— TYPE III-B

CODE DATA:

AREA OF FIRST FLOOR (BANK) ———————————— 2,574 SQ. FT.
2,574/150 SQ. FT PER PERSON ———————————— 18 OCCUPANTS
AREA OF BASEMENT ———————————— 2,644 SQ. FT.
AREA OF WORK IN BASEMENT (STORAGE) ———————————— 108 SQ. FT.
108/300 SQ. FT PER PERSON ———————————— 1 OCCUPANT
NUMBER OF EXITS PROVIDED ———————————— 2
FIRE PROTECTION ———————————— FULLY SPRINKLERED

LIST OF DRAWINGS:

T-001 – TITLE SHEET & NOTES

STRUCTURAL:

S-000 – STRUCTURAL LEAD SHEET
S-100 – PARTIAL FOUNDATION PLAN & FIRST FLOOR FRAMING PLAN
S-101 – ROOF FRAMING PLAN
S-100 – SECTIONS & DETAILS

ARCHITECTURAL:

DM-101 – PARTIAL SITE AND FIRST FLOOR DEMOLITION PLAN
DM-102 – FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN
A-100 – CELLAR CONSTRUCTION FLOOR PLAN
A-101 – PARTIAL SITE & FIRST FLOOR CONSTRUCTION PLAN
A-102 – FIRST FLOOR CONSTRUCTION REFLECTED CEILING PLAN
A-103 – FIRST FLOOR AND PARTIAL CELLAR FINISH AND FURNITURE PLAN
A-104 – FINISH SCHEDULE
A-201 – EXTERIOR ELEVATIONS AND DETAILS
A-401 – ENLARGED TELLER LINE PLAN AND ELEVATIONS
A-402 – TELLER LINE DETAILS
A-403 – ENLARGED TOILET ROOM PLANS AND ELEVATIONS
A-404 – INTERIOR ELEVATIONS
A-501 – MILLWORK DETAILS
A-601 – DOOR SCHEDULE & DETAILS

FIRE PROTECTION:

SP-001 – SPRINKLER GENERAL INFORMATION
SP-100 – SPRINKLER HEAD LOCATION BASEMENT PLAN

PLUMBING:

P-001 – PLUMBING GENERAL INFORMATION
P-002 – PLUMBING SPECIFICATIONS SHEET 1
P-003 – PLUMBING SPECIFICATIONS SHEET 2
P-100 – PLUMBING BASEMENT PLAN
P-101 – PLUMBING FIRST FLOOR PLANS
P-200 – PLUMBING RISER AND DETAILS

MECHANICAL:

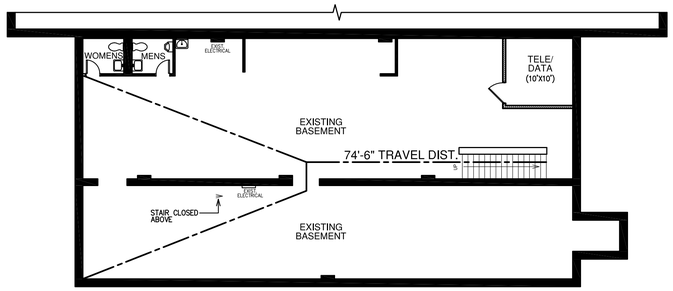
M-001 – MECHANICAL GENERAL INFORMATION
M-002 – MECHANICAL SPECIFICATIONS
M-003 – MECHANICAL BMS NOTES
M-100 – MECHANICAL DEMOLITION PLAN
M-200 – MECHANICAL FIRST FLOOR PLAN
M-300 – MECHANICAL SCHEDULES
M-400 – MECHANICAL DETAILS

ELECTRICAL:

E-001 – ELECTRICAL GENERAL INFORMATION
E-002 – ELECTRICAL SPECIFICATIONS SHEET
E-100 – CELLAR ELECTRICAL PLANS
E-101 – FIRST FLOOR ELECTRICAL PLANS
E-200 – ELECTRICAL SCHEDULES AND DETAILS

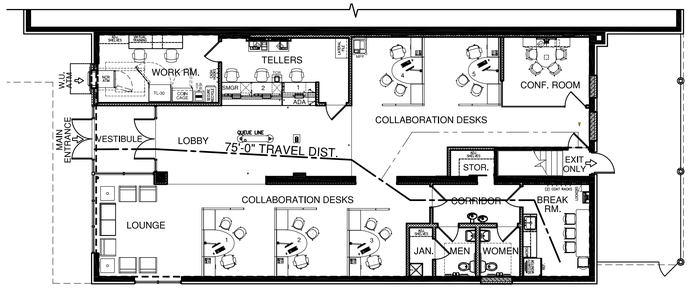
GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED FEDERAL, STATE AND LOCAL BUILDING CODES AND REQUIREMENTS OF ALL REGULATORY AUTHORITIES HAVING JURISDICTION.
2. THE GENERAL CONTRACTOR SHALL COMPLY WITH THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", AIA-DOCUMENT A201 (LATEST EDITION).
3. THE GENERAL CONTRACTOR SHALL VISIT THE SITE, VERIFY EXISTING CONDITIONS AND DIMENSIONS NEEDED FOR THE PROJECT, PRIOR TO COMMENCING OF CONSTRUCTION AND REPORT ANY DISCREPANCIES OR UNCOVERED CONDITIONS TO THE ARCHITECT. NOTE THAT NO CLAIM FOR ADDITIONAL COSTS SHALL BE CONSIDERED DUE TO THE FAILURE OF EXAMINING EXISTING CONDITIONS WHICH MAY AFFECT NEW WORK.
4. PRIOR TO COMMENCEMENT OF CONTRACTED WORK, THE GENERAL CONTRACTOR SHALL FURNISH COPIES OF THE FOLLOWING TO OWNER AND ARCHITECT:
   4.1. CERTIFICATES OF INSURANCE.
   4.2. PERFORMANCE AND LABOR BOND AS REQUIRED
   4.3. SCHEDULE OF VALUES.
   4.4. PROGRESS SCHEDULE.
   4.5. LIST OF SUBCONTRACTORS.
5. COMPLETE SETS OF CONSTRUCTION DRAWINGS, INCLUDING DEPT. OF BUILDING'S APPROVED PERMIT SET AND SPECIFICATIONS, ADDENDA SHALL BE AT THE PROJECT SITE AT ALL TIMES. POST ALL PERMITS.
6. EACH CONTRACTOR, SUBCONTRACTOR AND TRADE SHALL BE FAMILIAR WITH THE ENTIRE SET OF DRAWINGS AND SPECIFICATIONS AND ANY OTHER SUBSEQUENT DOCUMENTS AND ADDENDA.
7. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE DRAWINGS, SCOPE OF WORK AND VERIFY EXISTING CONDITIONS AND DIMENSIONS AT THE SITE AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
8. THE GENERAL CONTRACTOR SHALL COORDINATE REQUIREMENTS FOR ALL RELATED TRADES AND SUBCONTRACTORS, INCLUDING OWNERS'.
9. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, REFER TO DRAWINGS OF OTHER TRADES, AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
10. ALL WORK SHALL BE PERFORMED WITH THE BEST ACCEPTED PRACTICES OF THE RESPECTIVE TRADES AND ASSOCIATIONS.
11. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL DEVIATIONS OR MODIFICATIONS FROM THE DRAWINGS, CHANGES OF CONSTRUCTION SCOPE OR SCHEDULE AS REQUIRED BY GOVERNING AGENCIES, FIELD CONDITIONS OR OWNER, REGARDLESS OF EXTENT. ALL REVISIONS TO BE IN WRITING AS CHANGE ORDERS AND APPROVED PRIOR TO STARTING WORK. ALL MODIFICATIONS SHALL BE MARKED IN RED ON A SITE SET OF CONSTRUCTION DOCUMENTS AND AT THE END OF THE PROJECT BE SIGNED, DATED, NOTED AS RECORD DWGS WITH A COPY PROVIDED TO THE ARCHITECT. ALL REVISIONS TO BE IN WRITING AS CHANGE ORDERS AND APPROVED PRIOR TO STARTING WORK.
12. THE GENERAL CONTRACTOR SHALL OBTAIN AND PAY FOR FEES AND PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK.
13. NO CONTRACTOR SHALL PROCEED WITH ANY WORK FOR ADDITIONAL COMPENSATION (TO THE CONTRACT AMOUNT) WITHOUT WRITTEN AUTHORIZATION FROM OWNER. FAILURE TO DO SO INVALIDATES ANY CLAIM FOR ADDITIONAL COMPENSATION.
14. THERE SHALL BE SUFFICIENT LABOR AND PROMPT ARRIVAL OF MATERIALS TO SITE SO AS NOT TO DELAY WORK OF TRADES TO FOLLOW.
15. ALL MATERIALS SHALL BE U.S. MADE & INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS AND SPECIFICATIONS, INCLUDING CONNECTIONS TO ADJACENT MATERIALS.
16. CONTRACTOR TO PROVIDE EQUIPMENT, MEANS OF EGRESS AND CONSTRUCTION BARRIERS TO ENSURE THE SAFETY OF PUBLIC, TENANTS AND WORKERS AS REQUIRED BY FEDERAL, STATE AND LOCAL CODES THROUGHOUT CONSTRUCTION.
17. EXISTING AFFECTED WORK SHALL BE PREPARED TO MATCH EXISTING & TO MEET NEW CONDITIONS.
18. THE CONTRACTOR SHALL PROTECT ALL EXISTING AREAS FROM DAMAGE.
19. ALL REMOVED MATERIALS, EXCEPT AS THE OWNER MAY ELECT TO KEEP, SHALL BECOME THE PROPERTY OF THE GENERAL CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF.
20. REMOVE ALL RUBBISH AND CONSTRUCTION DEBRIS ON A DAILY BASIS, AND LEAVE THE CONSTRUCTION AREA BROOM CLEAN.
21. THE GENERAL CONTRACTOR SHALL SUBMIT WRITTEN GUARANTEE FOR HIS MATERIALS AND WORKMANSHIP FOR (1) ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
22. ALL WORK SHALL CONFORM TO THE AMERICAN WITH DISABILITIES ACT (A.D.A.) ALONG WITH ALL STATE, COUNTY, AND LOCAL APPLICABLE CODES, ORDERS, ORDINANCES AND REGULATIONS. NOTIFY ARCHITECT PRIOR TO START OF WORK OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND CODE. ALL WORK SHALL CONFORM TO THE MOST RESTRICTIVE REQUIREMENT.
23. ALL WORK DESCRIBED OR INDICATED IN THESE DOCUMENTS AND ALL WORK DEPENDANT UPON OR NECESSARY TO COMPLETE THIS WORK SHALL BE EXECUTED IN A WORKMAN LIKE MANNER CONSISTENT WITH THE BEST STANDARDS OF THE TRADE INVOLVED AND BE OF ITEMS AND MATERIALS SUITED FOR THE PURPOSE INTENDED.
24. TRADESMEN, CRAFTSMEN, INSTALLERS, FOREMEN, SUPERVISORS AND SUBCONTRACTORS SHALL BE SKILLED, EXPERIENCED AND LICENSED IF REQUIRED IN THE WORK THEY WILL BE PERFORMING.
25. PROJECT CONSTRUCTION ITEMS TO BE NEW, UNLESS NOTED OTHERWISE. NO SUBSTITUTIONS WILL BE ALLOWED UNLESS COMPLETE DESCRIPTIONS OF ITEMS INCLUDING DRAWINGS, TEST DATA, SAMPLES, COST AND SCHEDULE CHANGES ARE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. ANY ITEM NOTED ON THE DRAWINGS THAT ARE NOT AVAILABLE OR WOULD CAUSE A TIME DELAY SHALL BE IDENTIFIED BY THE GENERAL CONTRACTOR AND THE ARCHITECT NOTIFIED.
26. ALL DEMOLITION AND CONSTRUCTION WORK SHALL BE PERFORMED DURING HOURS AGREED ON BY G.C. AND OWNER/BANK.
27. GENERAL CONTRACTOR TO PAY FOR REQUIRED INDEPENDENT TESTS, INSPECTIONS AND PROVIDE REPORTS AS REQUIRED AND SHALL COORDINATE SCHEDULING OF INSPECTIONS IN A TIMELY FASHION.
28. TYPICAL DETAILS AND GENERAL NOTES SHALL BE USED WHENEVER APPLICABLE U.N.O. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS ANY QUESTIONS REGARDING THE SAME OR THEIR EXACT MEANING, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
29. PROVIDE TEMPORARY SHORING SUPPORT WHERE STRUCTURAL OR LOAD BARING MATERIALS ARE REMOVED. PROVIDE TEMPORARY STRUCTURAL LATERAL BRACING AS REQUIRED.
30. DIMENSION LINES ARE TO THE FACE OF FINISH ON EXISTING AND NEW WORK, UNLESS NOTED AS FACE OF STUD OR MASONRY OR CENTERLINE OR OTHERWISE. DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALE AND LARGER SCALE DRAWINGS SHALL HAVE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
31. CONTRACTOR TO PROVIDE EQUIPMENT TO ENSURE LIFE SAFETY OF PUBLIC, TENANTS AND WORKERS AS REQUIRED BY FEDERAL, STATE AND LOCAL CODES THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT PEDESTRIANS.
32. OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" OR AS NOTED ON PLAN BY VENDORS UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.
33. INSTALL AND APPLY ITEMS, MATERIALS, EQUIPMENT, FINISHES, ETC., INCLUDING THE PREPARATION OF SURFACES, IN STRICT ACCORDANCE WITH THE MANUFACTURERS PRINTED RECOMMENDATIONS AND INSTALLATION REQUIREMENTS.
34. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO APPROVAL BY ARCHITECT AND OWNER
35. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE 'CERTIFICATE OF OCCUPANCY' AND ANY REQUIRED 'CERTIFICATES OF COMPLETION' BY UTILITIES, STATE, LOCAL AND FEDERAL AUTHORITIES.



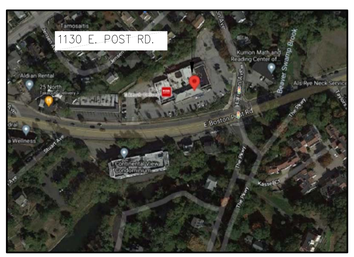
CELLAR KEY FLOOR PLAN

SCALE: 1/32" = 1'-0"



FIRST FLOOR KEY FLOOR PLAN

SCALE: 1/32" = 1'-0"

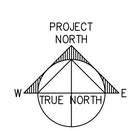


SITE VICINITY PLAN

SCALE: 1/16" = 1'-0"

APPLICABLE BUILDING CODES:

- 2020 BUILDING CODE OF NEW YORK STATE
- 2020 MECHANICAL CODE OF NEW YORK STATE
- 2020 NATIONAL ELECTRICAL CODE
- 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NYS
- 2015 EDITION NFPA 1
- ADAAG 2010



DOB APPROVAL STAMP

WELLS FARGO

INTERIOR FIT-OUT
MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-8300
FAX (908) 464-3123
0600354910

REGISTERED ARCHITECT
WILLIAM R. RYAN
017735-1
STATE OF NEW YORK
N.Y. LIC. #: 017735-1 SEAL

CONSULTANTS

DJM CONSULTING ENGINEERING
Engineering sustainable solutions for your success
606 Union Avenue • Suite 3
Brielle, NJ • 08730
Tel: (732)223-2332
Fax: (888)428-3421
www.DJM-CE.com
CERTIFICATE OF AUTHORIZATION
#24GA28223400

CONSULTANTS

DOB EMPLOYEE SIGNATURES

REVISIONS

NO.	DATE	DESCRIPTION	BY

DATE ISSUED: 8.26.21
ISSUED FOR: BID & PERMIT SET
REVIEWED BY: W.R.R.
DRAWN BY: J.M.N.

WELLS FARGO BE NUMBER
111700

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-001.00

SHT. 1 OF –

ARCHITECT PROJECT NUMBER
2174

STRUCTURAL NOTES

GENERAL NOTES:

1. THIS PROJECT HAS BEEN DESIGNED USING THE 2020 BUILDING CODE OF NEW YORK STATE.
2. STRUCTURAL SPECIAL INSPECTIONS ARE A REQUIREMENT FOR THIS PROJECT. A QUALIFIED INDEPENDENT INSPECTION AGENCY SHALL BE SELECTED TO PERFORM THIS SERVICE. ALL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE 2020 BUILDING CODE OF NEW YORK STATE ARE REQUIRED AT A MINIMUM. FOR STEEL CONSTRUCTION REFER TO SECTION 1705.2, FOR CONCRETE CONSTRUCTION SEE TABLE 1705.3,FOR WOOD CONSTRUCTION REFER TO SECTION 1705.5, AND FOR SOILS SEE TABLE 1705.6. SEE THE NOTES ON THIS DRAWING FOR ANY ADDITIONAL INSPECTIONS REQUIRED.
3. ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR ADHERING TO THE REQUIREMENTS AS INDICATED IN THE NOTES FOR THIS JOB. FAILURE OF THE CONTRACTOR TO READ THE STRUCTURAL NOTES DOES NOT PERMIT THE CONTRACTOR TO DEVIATE FROM THEIR REQUIREMENTS.
4. NO FIELD MODIFICATIONS TO ANY STRUCTURAL COMPONENTS SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE STRUCTURAL ENGINEER. THIS INCLUDES, BUT IS NOT LIMITED TO REVISIONS DUE TO MIS-LOCATION, MISFIT, OR ANY OTHER CONSTRUCTION ERRORS.
5. ALL CONSTRUCTION AND DEMOLITION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES INCLUDING ALL OSHA REGULATIONS.
6. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL PEOPLE WHO MAY BE ON OR NEAR THE WORK AREA, BY MAINTAINING A SAFE WORK AREA, SAFE WORKING CONDITIONS, AND LIMITING ACCESS TO THE WORK AREA.
7. CONTRACTOR IS FULLY RESPONSIBLE FOR HIS WORKERS' SAFETY, SAFETY EQUIPMENT, FIRST AID, AND EMERGENCY HANDLING PROCEDURES.
8. CONTRACTOR SHALL PERSONALLY SUPERVISE THE WORK AND SHALL BE PRESENT AT THE WORK SITE AT ALL TIMES DURING CONSTRUCTION WORK. CONTRACTOR SHALL PROVIDE ADEQUATE PERSONNEL FOR THE PROPER COORDINATION AND EXPEDITING OF THE WORK.
9. THESE DRAWINGS SHALL NOT BE SCALED FOR PURPOSES OF CONSTRUCTION.
10. TYPICAL DETAILS ARE NOT NECESSARILY REFERENCED ON EVERY DRAWING SHEET AND SHALL BE USED BY THE CONTRACTOR AS REQUIRED FOR ALL CONDITIONS WHERE APPLICABLE.
11. IN CASE OF CONFLICT BETWEEN STRUCTURAL DRAWINGS AND OTHER DRAWINGS OF THIS PROJECT, CONTRACTOR SHALL IMMEDIATELY CONTACT ARCHITECT FOR CLARIFICATION PRIOR TO START OF WORK.
12. IN CASE OF CONFLICT BETWEEN STRUCTURAL DRAWINGS AND STRUCTURAL SPECIFICATIONS, CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER FOR CLARIFICATION PRIOR TO START OF WORK.
13. ALL COLUMN LINE AND WALL DIMENSIONS SHOWN ON STRUCTURAL DRAWINGS ARE FOR REFERENCE AND SHALL FIRST BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO THE START OF THE PROJECT.
14. THE CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND VERIFICATION OF EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO THE LOCATION, ELEVATIONS AND DIMENSIONS OF EXISTING WALLS AND FRAMING.
15. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND TEMPORARY SHORING OF BUILDING STRUCTURE AS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. DESIGN OF SHORING, SCAFFOLDING, FORM WORK, AND OTHER MEANS AND METHODS STRUCTURES SHALL BE DESIGNED BY ENGINEERS HIRED BY THE CONTRACTOR.
16. SECTIONS SHOWN ON PLANS APPLY TO SIMILAR CONDITIONS THROUGHOUT THE BUILDING.
17. ALL COSTS OF INVESTIGATION OR REDESIGN REQUIRED TO CORRECT CONTRACTOR MIS-LOCATION OF STRUCTURAL ELEMENTS OR OTHER CONSTRUCTION DOCUMENT DEVIATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
18. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL MASONRY AND STUD NON-LOAD BEARING PARTITIONS. PROVIDE SLIP CONNECTIONS THAT ALLOW FOR VERTICAL MOVEMENT OF THE BUILDING STRUCTURE AT THE HEADS OF ALL PARTITIONS. CONNECTIONS SHALL BE DESIGNED TO SUPPORT THE TOP OF WALL LATERALLY FOR ALL CODE REQUIRED LATERAL FORCES. PROVIDE FIRE SAFING AT THE TOP OF THE WALL AS REQUIRED BY ARCHITECTURAL DRAWINGS.
19. THE DESIGN OF NON-LOAD BEARING METAL STUD AND CURTAIN WALLS SHALL BE PERFORMED BY ENGINEERS RETAINED BY THE CONTRACTOR. DRAWINGS AND CALCULATIONS FOR THESE WALLS SHALL BE PREPARED AND SUBMITTED FOR REVIEW. ALL SUBMITTALS SHALL BE SIGNED AND SEALED BY ENGINEERS LICENSED IN THE STATE OF THE PROJECT'S JURISDICTION. DESIGN OF WALL SYSTEM AND CONNECTIONS SHALL CONSIDER ALL VERTICAL AND LATERAL LOADS REQUIRED BY THE APPLICABLE BUILDING CODE.

SHOP DRAWINGS AND SUBMITTALS:

1. FOR A LISTING OF SHOP DRAWINGS AND OTHER SUBMITTALS REQUIRED FOR THIS PROJECT SEE THE SHOP DRAWING AND SUBMITTAL REQUIREMENTS TABLE. CERTAIN SUBMITTALS MUST BE PREPARED UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF THE PROJECTS JURISDICTION. THE CONTRACTOR IS REQUIRED TO RETAIN SPECIALTY ENGINEERS AS REQUIRED TO PREPARE THESE SUBMITTALS.
2. SHOP DRAWINGS AND RELATED MATERIALS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT/STRUCTURAL ENGINEER. THE GENERAL CONTRACTOR SHALL REVIEW ALL SUBMISSIONS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION, TECHNICAL CONTENT, COORDINATION OF TRADES, DIMENSIONAL ACCURACY, SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL APPROVE AND SO STAMP EACH SUBMISSION.
3. SHOP DRAWINGS, WHERE REQUIRED, SHALL BE SUBMITTED AS FOLLOWS. PROVIDE ONE (1) ELECTRONIC PDF COPY TO THE ENGINEER FOR REVIEW. ONE (1) COPY WILL BE MARKED UP AND RETURNED FOR DISTRIBUTION AS REQUIRED BY THE CONTRACTOR. ALL SHOP DRAWINGS SHALL BE CHECKED PRIOR TO SUBMISSION. CONTRACTOR SHALL ALLOW (10) WORKING DAYS IN THE CONSTRUCTION SCHEDULE FOR SHOP DRAWING REVIEW. FAX SUBMITTALS OF SHOP DRAWINGS WILL NOT BE ACCEPTED.
4. STRUCTURAL DESIGN DRAWINGS (INCLUDING ORIGINAL CAD DRAWINGS) SHALL NOT BE USED AS THE BACKGROUNDS FOR THE PRODUCTION OF ANY SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED. THIS INCLUDES REBAR PLACEMENT DRAWINGS, FABRICATION DRAWINGS, ERECTION DRAWINGS, ERECTION DETAILS, ETC. THE CONTRACTOR SHALL PREPARE THEIR OWN SHOP DRAWINGS (INCLUDING DETAILS).
5. ANY DEVIATIONS FROM THE ORIGINAL DESIGN OR DESIGN CRITERIA AS SPECIFIED ON THE "ISSUED FOR CONSTRUCTION" DESIGN DOCUMENTS OF THE PROJECT SHALL BE NOTED (BUBBLED, NOTE, ETC.) ON THE SHOP DRAWINGS THAT ARE SUBMITTED FOR APPROVAL.
6. REVIEW OF SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY CONTRACT REQUIREMENTS EVEN IF SUCH ITEMS ARE NOT SHOWN ON THE SHOP DRAWINGS. THE ENGINEER'S REVIEW OF SHOP DRAWINGS IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND PROJECT REQUIREMENTS, AND DOES NOT IMPLY APPROVAL OR VARIANCE FROM THE CONTRACT DOCUMENTS. QUANTITIES WILL NOT BE CHECKED BY THE ENGINEER.
7. ALL REVISIONS TO SHOP DRAWINGS AFTER THE FIRST SUBMISSION SHALL BE APPROPRIATELY IDENTIFIED ON SUBSEQUENT SUBMISSIONS.
8. SUBSTITUTIONS TO PRODUCTS SPECIFIED ON THE DRAWINGS IS ACCEPTABLE PROVIDED THE FOLLOWING CRITERIA ARE MET. THE CONTRACTOR SHALL SUBMIT INFORMATION ON THE PRODUCT TO BE SUBSTITUTED THAT SUBSTANTIATES ITS PERFORMANCE ON AN EQUAL OR BETTER VALUE. CONTRACTOR SHALL ALLOW A MINIMUM OF (5) WORKING DAYS IN THE CONSTRUCTION SCHEDULE FOR REVIEW OF THE SUBSTITUTED PRODUCT BY THE ENGINEER.

BUILDING STRUCTURE AND LATERAL BRACING DURING CONSTRUCTION:

1. THE GRAVITY LOAD RESISTING ELEMENTS OF THE BUILDING STRUCTURE CONSIST OF BRICK BEARING WALLS AND IN SOME INSTANCES STEEL FRAMING. LATERAL WIND AND SEISMIC FORCES ARE RESISTED BY WOOD SHEATHED SHEAR WALLS.
2. PROPER WEIGHT DISTRIBUTION OF CONSTRUCTION MATERIALS DURING CONSTRUCTION IS A MUST AND IS THE RESPONSIBILITY OF THE CONTRACTOR. DO NOT STACK CONSTRUCTION MATERIALS ON UNBRACED FRAMING. AVOID STACKING HEAVY CONSTRUCTION MATERIALS AT MID-SPAN OF FRAMING. HEAVY CONSTRUCTION MATERIALS SHOULD BE STORED AT GROUND LEVEL AND ONLY MOVED TO ELEVATED FLOOR AND ROOF LOCATIONS WHEN REQUIRED FOR INSTALLATION.
3. SINCE DRAWINGS FOR THE EXISTING BUILDING WERE NOT AVAILABLE DURING DESIGN, CERTAIN ASSUMPTIONS WERE MADE REGARDING EXISTING CONSTRUCTION. THESE ASSUMPTIONS TYPICALLY REQUIRE CONTRACTOR FIELD VERIFICATION PRIOR TO CONSTRUCTION OF THE NEW STRUCTURES. IN ANY EVENT, THE ENGINEER MUST BE NOTIFIED IMMEDIATELY IF EXISTING CONDITIONS DIFFER FROM THOSE SHOWN OR ASSUMED ON THE CONTRACT DRAWINGS. IN NO INSTANCE SHALL THE EXISTING BUILDING BE MODIFIED IF EXISTING CONDITIONS DIFFER FROM THOSE DEPICTED ON THE CONTRACT DOCUMENTS. THE ENGINEER MUST BE NOTIFIED IMMEDIATELY TO PROVIDE ADDITIONAL DETAILS AS REQUIRED IF EXISTING CONDITIONS DIFFER FROM THOSE DOCUMENTED ON THE CONTRACT DOCUMENTS.
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER UPON COMPLETION OF THE ARCHITECTURAL DEMOLITION ONCE THE EXISTING STRUCTURAL ELEMENTS ARE EXPOSED. THE EXISTING BEAM AND COLUMN SIZES SHALL BE PROVIDED TO THE ENGINEERS OFFICE PRIOR TO PROCUREMENT OF NEW STEEL FRAMING FOR THE NEW CONSTRUCTION.
5. THE DESIGN OF TEMPORARY FLOOR SHORING FOR THE INSTALLATION OF NEW BANK EQUIPMENT SHALL BE PERFORMED BY AN ENGINEER RETAINED BY THE CONTRACTOR.

FOUNDATIONS:

1. SPECIAL INSPECTIONS FOR EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT, AND LOAD BEARING REQUIREMENTS SHALL BE IN ACCORDANCE WITH CHAPTER 17 OF THE 2020 BUILDING CODE OF NEW YORK STATE AND TABLE 1705.6.
2. BOTTOM OF ALL FOOTINGS HAVE BEEN DESIGNED TO BEAR ON SOIL CAPABLE OF SAFELY SUPPORTING 2,000 PSF (ASSUMED).
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE AUTHORITIES TO LOCATE ALL POTENTIALLY BURIED UTILITIES WITHIN THE PROPOSED PROJECT SITE BUILDING FOOTPRINT PRIOR TO COMMENCING EXCAVATION FOR NEW BUILDING FOUNDATIONS.
4. EXISTING FOUNDATIONS, SLABS, PAVEMENTS, UNDERGROUND UTILITIES, AND OTHER BELOW GRADE STRUCTURES SHALL BE REMOVED FROM THE PROPOSED PROJECT SITE BUILDING FOOTPRINT.
5. CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING NEW FOUNDATION CONSTRUCTION ACTIVITIES ADJACENT TO EXISTING BUILDING FOUNDATIONS THAT ARE TO REMAIN (EVEN IF LOCATED ON AN ADJACENT PROPERTY). SINCE DRAWINGS FOR EXISTING CONSTRUCTION ARE NOT ALWAYS AVAILABLE DURING DESIGN, CERTAIN ASSUMPTIONS MAY BE MADE REGARDING EXISTING FOUNDATIONS BASED ON TYPICAL CONSTRUCTION PRACTICES. THESE ASSUMPTIONS TYPICALLY REQUIRE CONTRACTOR FIELD VERIFICATION PRIOR TO CONSTRUCTION OF THE NEW STRUCTURES. IN ANY EVENT, THE ENGINEER MUST BE NOTIFIED IMMEDIATELY IF EXISTING SITE OR FOUNDATION CONDITIONS DIFFER FROM THOSE SHOWN OR ASSUMED ON THE CONTRACT DRAWINGS. IN NO INSTANCE SHALL EXISTING BUILDING FOUNDATIONS BE UNDERMINED TO INSTALL NEW FOUNDATIONS. IF NEW BOTTOM OF FOOTING ELEVATIONS ARE LOWER THAN ADJACENT EXISTING BOTTOM OF FOOTING ELEVATIONS THE ENGINEER MUST BE NOTIFIED IMMEDIATELY TO PROVIDE ADDITIONAL DETAILS AS REQUIRED TO CONSTRUCT THE NEW FOUNDATIONS AT THE LOWER LEVEL.
6. BOTTOM OF ALL FOOTINGS MUST BE INSPECTED AND APPROVED BY A REGISTERED SOILS ENGINEER BEFORE PLACING ANY CONCRETE. APPROVAL IN WRITING MUST INDICATE THE SOIL IS ADEQUATE TO SAFELY SUSTAIN A SOIL BEARING PRESSURE OF2,000 PSF BELOW ALL FOOTINGS.
7. UNLESS OTHERWISE DICTATED BY THE GEOTECHNICAL ENGINEER, ALL FILL AND BACKFILL SHALL BE COMPACTED IN 8 INCH MAXIMUM LIFTS TO NOT LESS THAN 95% OF THE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.

BOLTS, SCREWS, & FASTENERS:

1. FASTENERS FOR MATERIALS SHOWN ON STRUCTURAL DRAWINGS SHALL BE IN ACCORDANCE WITH THE MATERIAL SPECIFICATION NOTES ON THE LEAD SHEET OR IF NOT INDICATED, THE NOTES IN THIS SECTION.
2. INSTALLATION OF ALL THE FASTENERS SHALL BE IN ACCORDANCE WITH THE FASTENER MANUFACTURERS WRITTEN INSTRUCTIONS.
3. PROVIDE CORROSION RESISTANCE ON ALL FASTENERS BASED ON APPLICATION AND MATERIAL BEING FASTENED. FOR APPLICATIONS INVOLVING PRESSURE TREATED LUMBER, OR FOR FASTENERS BEING INSTALLED IN WET AREAS, PROVIDE STAINLESS STEEL OR HOT-DIP GALVANIZED FASTENERS. ALL FASTENERS INSTALLED INTO SLAB ON GRADE APPLICATIONS SHALL BE HOT-DIP GALVANIZED OR ZINC PLATED.
4. DO NOT CUT CONCRETE REINFORCING TO INSTALL POST-INSTALLED DRILLED-IN FASTENERS.
5. ALL BOLTS UTILIZED TO FASTEN WOOD BLOCKING OR WOOD PLATES TO STEEL SHAPES SHALL BE ASTM A307, PROVIDE HOT-DIP GALVANIZED BOLTS FOR APPLICATIONS INVOLVING PRESSURE TREATED LUMBER.
6. PROVIDE STEEL WASHERS ON ALL BOLTS ANCHORING WOOD FRAMING TO STEEL SHAPES.
7. ALL POST-INSTALLED EXPANSION AND SCREW ANCHORS INTO CONCRETE SHALL BE AS MANUFACTURED BY HILTI OR APPROVED EQUAL.
8. EMBEDMENT DEPTH FOR ALL POST-INSTALLED ANCHORAGE TO CONCRETE SHALL BE AS SHOWN ON THE STRUCTURAL SECTIONS AND DETAILS. IF EMBEDMENT DEPTH IS NOT INDICATED, PROVIDE MANUFACTURERS STANDARD EMBEDMENT.
9. SEE POST-INSTALLED ADHESIVE ANCHOR NOTES FOR CHEMICAL/EPOXY ADHESIVE ANCHORS INSTALLED IN CONCRETE OR HOLLOW CMU.

CONCRETE:

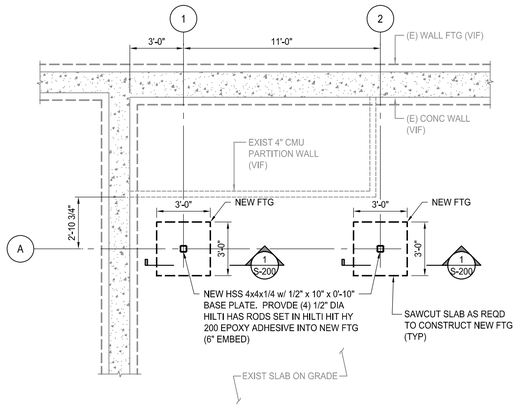
1. THE PROVISIONS OF ACI 318-14 HAVE BEEN UTILIZED FOR THE DESIGN OF CONCRETE ELEMENTS ON THIS PROJECT.
2. FLOOR FINISH TOLERANCES FOR THE SLAB ON GRADE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 117. FLOOR FINISH TOLERANCE SHALL BE MEASURED USING A 10 FOOT STRAIGHTEDGE ANYWHERE ON THE SLAB AND ALLOWING IT TO REST UPON TWO HIGH SPOTS WITHIN 72 HOURS AFTER SLAB PLACEMENT, THE GAP AT ANY POINT BETWEEN THE STRAIGHT EDGE AND THE FLOOR SHALL NOT EXCEED 1/4".
3. ALL CONCRETE SHALL BE NORMAL WEIGHT, READY-MIX. ALL CONCRETE MIX DESIGNS SHALL BE DESIGNED BY ENGINEERS RETAINED BY THE CONCRETE SUPPLIER ACCORDING TO THE CRITERIA CONTAINED WITHIN THESE NOTES AND AS SHOWN ON THE CONTRACT DRAWINGS. SUBMIT ALL CONCRETE MIX DESIGNS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. ALL SUBMITTED MIX DESIGNS SHALL INCLUDE SAMPLE CYLINDER BREAK TEST RESULTS CONFIRMING COMPRESSIVE STRENGTH OF EACH MIX DESIGN.
4. ALL CONCRETE SHALL HAVE A WATER REDUCING ADMIXTURE AS REQUIRED TO INCREASE WORKABILITY. WORKABILITY SHALL NOT BE ACHIEVED THROUGH THE ADDITION OF WATER TO THE MIX. CONCRETE SLUMP PRIOR TO ADMIXTURE ADDITION SHALL BE A MAXIMUM OF 3 INCHES. PROPORTIONS OF CONCRETE ADMIXTURES SHALL BE DETERMINED BY THE CONCRETE MIX DESIGNER.
5. DO NOT USE ADMIXTURES THAT CONTAIN CHLORIDES. FLY ASH OR OTHER POZZOLANS SHALL NOT BE USED IN ANY CONCRETE UNLESS APPROVED BY THE ENGINEER.
6. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITIONS OF THE FOLLOWING ACI PUBLICATIONS ACI 301 (SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS), ACI 302.1R (GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION), ACI 304 (GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE), ACI 311.4 (GUIDE FOR CONCRETE INSPECTION), ACI 315 (DETAILS AND DETAILING OF CONCRETE REINFORCEMENT), ACI 318 (BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE), ACI 347R (GUIDE TO FORMWORK FOR CONCRETE), AND ACI 546R (GUIDE TO CONCRETE REPAIR). IN ADDITION, REFER TO THE CRSI - MANUAL OF STANDARD PRACTICE FOR DETAILS ON THE FABRICATION AND PLACEMENT OF CONCRETE REINFORCING.
7. PRIOR TO FABRICATION OR SHIPMENT OF MATERIAL, THE CONTRACTOR SHALL SUBMIT AND RECEIVE APPROVAL OF SHOP DRAWINGS. SHOP DRAWINGS SHALL INDICATE BENDING DIAGRAMS, SPLICING, LAPPING, SHAPES, DIMENSIONS AND DETAILS OF ALL BAR REINFORCING. THE APPROVAL OF SHOP DRAWINGS WILL BE FOR ARRANGEMENT ONLY AND SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR ERRORS, OMISSIONS OR THE ACCURACY OF HIS OWN DIMENSIONS. DRAWINGS AND DETAILS SHALL CONFORM WITH ACI 315. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO THE OWNER'S REPRESENTATIVE.
8. ALL REINFORCING STEEL SHALL BE MANUFACTURED FROM NEW STRENGTH BILLET STEEL CONFORMING TO ASTM DESIGNATION A615 GRADE 60. WWF SHALL BE COMPRISED OF CARBON STEEL PLAIN WIRES FABRICATED INTO SHEETS OR ROLLS IN ACCORDANCE WITH ASTM A1064.
9. FOOTING AND SLAB REINFORCEMENT NOT SHOWN ON SECTIONS AND PLANS IS THE SAME AS THAT SHOWN IN SIMILAR SECTIONS AND AT SIMILAR LOCATIONS.
10. LAP ALL BARS MINIMUM 48 DIAMETERS. LAP ALL WWF A MINIMUM OF 8 INCHES.
11. CONTRACTOR SHALL PROVIDE ALL BULKSTERS, CHAIRS, BAR POSITIONERS, ETC. AS REQUIRED TO SET REBAR AND SLAB WWF TO REQUIRED DIMENSIONS INDICATED ON DRAWINGS.
12. REFER TO ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING DETAILS AT FOUNDATIONS, WALLS, AND SLABS.
13. ALL CONCRETE PLACED AT TEMPERATURES BELOW 50 DEGREES F. SHALL CONFORM TO THE REQUIREMENTS OF ACI 306R "GUIDE TO COLD WEATHER CONCRETING". ALL CONCRETE PLACED IN HOT WEATHER SHALL CONFORM TO THE REQUIREMENTS OF ACI 305R " GUIDE TO HOT WEATHER CONCRETING".
14. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL SLEEVES, INSERTS, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS AS REQUIRED BY OTHER TRADES.
15. ALL CONCRETE SHALL BE PROPERLY CONSOLIDATED THROUGH THE USE OF VIBRATORS. VIBRATORS SHALL NOT BE USED TO TRANSPORT CONCRETE ALONG FORMWORK.
16. UNLESS OTHERWISE SPECIFIED, A TESTING AGENCY SHALL BE EMPLOYED FOR EVALUATION AND QUALITY CONTROL OF CONCRETE PLACED. THE TESTING AGENCY PERFORMING ACCEPTANCE TESTING SHALL COMPLY WITH ASTM C1077. CONCRETE SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318. FREQUENCY OF CONCRETE TESTING SHALL MEET THE REQUIREMENTS OF ACI 318 AT A MINIMUM UNLESS REQUIRED OTHERWISE BY THE APPLICABLE BUILDING CODE.

STEEL:

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC 360-16 (SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS), AND WITH AISC 303-10 (CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES). QUALITY CONTROL AND QUALITY ASSURANCE DURING STEEL FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH CHAPTER N OF AISC 360.
2. STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM SPECIFICATION A992 (Fy = 50 KSI MIN.). ALL STEEL TUBING (HSS) SHALL CONFORM TO ASTM SPECIFICATION A500 GRADE B (Fy = 46 KSI). ALL STEEL PIPE (STANDARD, EXTRA STRONG, DOUBLE EXTRA STRONG) SHALL CONFORM TO ASTM A501 OR ASTM A53 TYPE E OR S (GRADE B, Fy = 35 KSI). ALL CHANNELS, ANGLES AND PLATE MATERIAL SHALL CONFORM TO ASTM A36.
3. ALL BOLTS SHALL BE 3/4" DIAMETER ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS, UNLESS OTHERWISE NOTED.
4. ALL ANCHOR RODS SHALL BE FABRICATED IN ACCORDANCE WITH ASTM F1554. ALL ANCHOR RODS SHALL BE 36 KSI UNLESS OTHERWISE NOTED.
5. ALL STEEL SHALL BE THOROUGHLY CLEANED BY POWER TOOL CLEANING (SSPC SP3) PRIOR TO APPLYING PRIMER OR GALVANIZING.
6. ALL STEEL SHALL HAVE A SHOP COAT OF RUST INHIBITIVE PRIMER UNLESS OTHERWISE NOTED. ALL PRIMER THAT IS DAMAGED IN THE FIELD AND ALL FIELD WELDS SHALL BE TOUCHED UP WITH FIELD APPLIED PRIMER.
7. ALL BOLTED CONNECTIONS SHALL BE BEARING TYPE WITH THREADS INCLUDED IN THE SHEAR PLANE UNLESS NOTED OTHERWISE. ALL BOLTED CONNECTIONS SHALL BE BOLTED "SNUG-TIGHT" UNLESS NOTED OTHERWISE.
8. ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY WELDERS QUALIFIED, AS DESCRIBED IN "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE" (AWS D1.1), TO PERFORM THE TYPE OF WORK REQUIRED.
9. ALL STEEL WELDING RODS SHALL BE E70XX.
10. THE MINIMUM SIZE OF ALL FILLET WELDS SHOWN ON DRAWINGS SHALL BE IN ACCORDANCE WITH AISC STEEL CONSTRUCTION MANUAL TABLE J2.4 UNLESS NOTED OTHERWISE.
11. ALL MILL CAMBER TO BE ORIENTED UPWARD DURING FABRICATION AND ERECTION.
12. PRIOR TO STEEL COLUMN AND BASE PLATE FABRICATION, PROVIDE A SURVEY OF IN-PLACE ANCHOR BOLT LOCATIONS TO THE STEEL FABRICATOR. THE STEEL FABRICATOR SHALL ADJUST ANCHOR BOLT HOLES ACCORDINGLY BASED ON SITE AS-BUILT CONDITIONS BEFORE FABRICATION OF COLUMN BASE PLATES AND DELIVERY TO THE SITE.
13. GROUT FOR BASE, LEVELING, AND BEARING PLATES SHALL BE NONMETALLIC AND SHRINKAGE-RESISTANT, 6000 PSI MINIMUM. GROUT SHALL MEET THE REQUIREMENTS OF ASTM C 1107 AND SHALL BE FACTORY-PACKAGED, NONMETALLIC AGGREGATE, NON CORROSIVE, NON STAINING, MIXED WITH WATER TO CONSTANCY SUITABLE FOR APPLICATION AND A 30-MINUTE WORKING TIME. SUBMIT GROUT MANUFACTURERS DATA SHEETS FOR APPROVAL PRIOR TO CONSTRUCTION.
14. STEEL FABRICATOR IS SOLELY RESPONSIBLE FOR SURVEYING AND VERIFICATION OF EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO THE LOCATION, ELEVATION, AND DIMENSIONS OF EXISTING WALLS AND FRAMING.
15. SUBMIT CHECKED STEEL SHOP DRAWINGS FOR REVIEW PRIOR TO ANY FABRICATION.
16. PERFORM INSPECTIONS OF STEEL CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE.

DIMENSIONAL LUMBER, ENGINEERED LUMBER, SHEATHING:

1. CONTRACTOR SHALL SUBMIT CERTIFICATION FOR ALL LUMBER USED ON PROJECT. CERTIFICATION SHALL INDICATE LUMBER COMPLIANCE WITH DESIGN PROPERTIES INDICATED IN THESE NOTES AND ON THE DRAWINGS.
2. ALL STRUCTURAL LUMBER NOTED ON PLANS SHALL BE HEM-FIR No. 1 (OR APPROVED EQUAL) AND HAVE MINIMUM ALLOWABLE PROPERTIES AS FOLLOWS: Fb = 975 PSI, Fv = 150 PSI, E = 1,500,000 PSI. ALL STRUCTURAL LUMBER TO BE STAMPED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION'S "CONSTRUCTION MANUAL".
3. ALL DIMENSIONAL LUMBER PROVIDED FOR THE PROJECT SHALL BE SURFACE DRY WITH A MAXIMUM MOISTURE CONTENT NOT EXCEEDING 19 PERCENT. GREEN LUMBER SHALL NOT BE UTILIZED FOR ANY PORTIONS OF THIS PROJECT.
4. ALL LUMBER AND WOOD CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND CODES AS SPECIFIED BELOW:
   A. AMERICAN INSTITUTE OF TIMBER CONSTRUCTION: TIMBER CONSTRUCTION MANUAL.
   B. ANSI / AF&PA: NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION 2015.
   C. ENGINEERED WOOD ASSOCIATION (APA): PLYWOOD DESIGN SPECIFICATION.
   D. AMERICAN WOOD-PRESERVERS ASSOCIATIONS STANDARDS.
   E. NATIONAL LUMBER MANUFACTURERS ASSOCIATIONS: NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENINGS.
9. ALL WOOD CONNECTIONS ARE TO BE MADE USING PREFABRICATED CONNECTORS. TOE-NAILING WILL NOT BE PERMITTED. SUBMIT MANUFACTURER'S DATA FOR APPROVAL. FASTENERS TO BE AS MANUFACTURED BY SIMPSON OR APPROVED EQUAL.
10. ALL WOOD CONNECTORS SHALL BE PROVIDED IN MANUFACTURERS STANDARD FINISH EXCEPT FOR APPLICATIONS INVOLVING PRESSURE TREATED OR FIRE-RETARDANT TREATED LUMBER. FOR TREATED LUMBER APPLICATION, ALL METAL CONNECTORS SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL. USING SIMPSON PRODUCTS AS A BASIS, CONNECTORS FOR PRESSURE TREATED APPLICATIONS SHALL BE "ZMAX", POST HOT DIPPED GALVANIZED, OR STAINLESS STEEL. ANY PRODUCT SUBSTITUTIONS MUST MEET THIS MINIMUM STANDARD.
11. FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE TREATED WOOD OR FIRE RETARDANT TREATED WOOD SHALL BE HOT-DIP GALVANIZED OR STAINLESS STEEL. PLAIN CARBON STEEL FASTENERS ARE ALLOWED IN SBX/DOT AND ZINC BORATE PRESERVATIVE-TREATED WOOD IN AN INTERIOR DRY ENVIRONMENT ONLY.
12. SIMPSON STRONG TIE CONNECTIONS HAVE BEEN SPECIFIED TO MEET THE STRUCTURAL CALCULATIONS OF PLAN ELEMENTS. PRIOR TO SUBSTITUTING ANOTHER BRAND, CONFIRM LOAD CAPACITY BASED ON RELIABLE PUBLISHED TESTING DATA OR CALCULATIONS. THE ENGINEER SHALL EVALUATE AND GIVE WRITTEN APPROVAL FOR SUBSTITUTIONS PRIOR TO INSTALLATIONS.
13. ALL NAILS FOR PROJECT SHALL BE COMMON WIRE NAILS OR POWER DRIVEN NAILS IN CONFORMANCE WITH ICC-ES EVALUATION REPORT ESR-1539. SEE PLANS AND DETAILS FOR NAILING REQUIREMENTS. STAPLES SHALL NOT BE SUBSTITUTED FOR NAILS UNLESS APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. IF THE CONTRACTOR DESIRES TO SUBSTITUTE STAPLES FOR NAILS, A FORMAL SUBMISSION MUST BE MADE TO THE ENGINEER. THE SUBMISSION MUST CLEARLY DOCUMENT HOW THE STAPLES MEET OR EXCEED THE NAILS SPECIFIED ON THE DRAWINGS. THE STAPLES MUST BE IN COMPLIANCE WITH ALL CODE REQUIREMENTS, INCOMPLETE SUBMISSIONS WILL NOT BE REVIEWED.
14. PROVIDE MINIMUM CONTINUOUS SOLID BLOCKING OR CROSS-BRIDGING LINES AT 8'-0" O/C MAX SPACING FOR ALL ROOF RAFTERS. PROVIDE A MINIMUM OF ONE LINE OF BLOCKING/CROSS-BRIDGING FOR ALL SPANS.
15. PLYWOOD PANELS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST PROVISIONS OF THE U.S. DEPARTMENT OF COMMERCE VOLUNTARY PRODUCT STANDARD PS-1 OR PS-2.
16. SHEATHING FOR SLOPED ROOFS SHALL BE 5/8 INCH THICK 40/20 SPAN RATING APA RATED SHEATHING, EXPOSURE 1. ALL JOINTS IN SHEATHING SHALL BE STAGGERED. USE PANEL CLIPS, TONGUE & GROOVE, OR LUMBER BLOCKING EDGE SUPPORTS AS RECOMMENDED BY APA FOR ROOF SHEATHING EDGES. NAILING SH



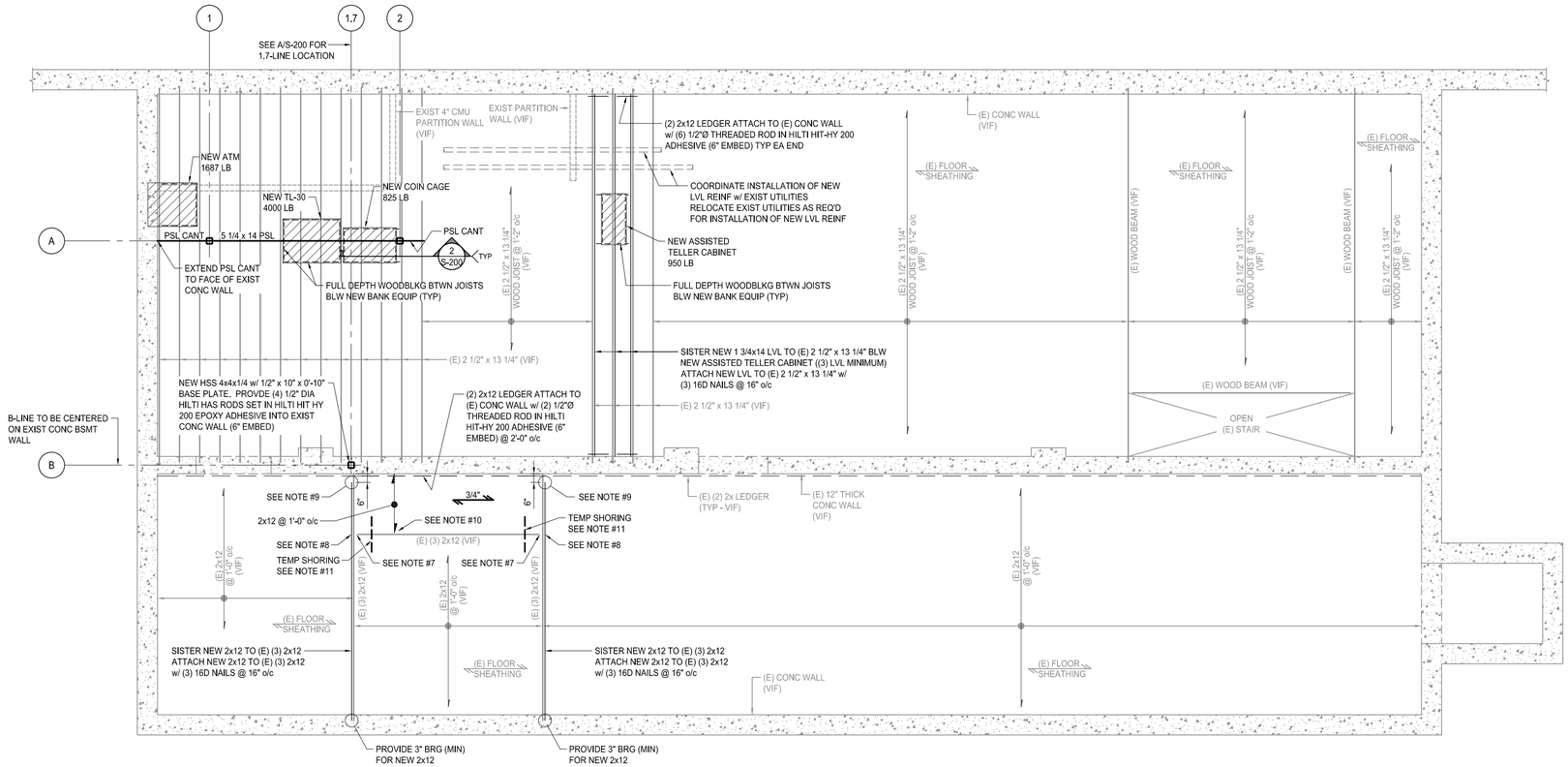
PARTIAL FOUNDATION PLAN

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

1. FINISH FLOOR ELEVATION = DATUM EL 0'-0".
2. BOTTOM OF FOOTING ELEVATION SHALL BE -1'-0" BELOW FINISH FLOOR ELEVATION.
3. SECTIONS SHOWN ON PLAN APPLY TO SIMILAR CONDITIONS THROUGHOUT THE BUILDING.
4. (E) DENOTES EXISTING.
5. ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BEFORE ANY NEW WORK IS PERFORMED.
6. (VIF) DENOTES TO VERIFY IN FIELD.

CONTRACTOR NOTE
THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. DESIGN OF SHORING AND OTHER MEANS AND METHODS STRUCTURES SHALL BE DESIGNED BY ENGINEERS HIRED BY THE CONTRACTOR.

CONTRACTOR SHALL SHORE ALL EXISTING FRAMING AS REQUIRED DURING THE REPAIR/REPLACEMENT OF EXISTING FRAMING AND DURING THE INSTALLATION OF NEW STEEL/WOOD FRAMING.



NOTE FOR FLOOR SHEATHING
SHEATHING FOR FLOORS SHALL BE 23/32" THICK, 24" SPAN RATING APA RATED SHEATHING, EXPOSURE 1. ALL JOINTS SHALL BE STAGGERED. ALL EDGES SHALL BE TONGUE & GROOVE. NAIL TO SUPPORTING FLOOR STRUCTURE w/ 10d NAILS @ 6" o/c AT SUPPORTED PANEL EDGES. SPACE 10d NAILS AT MAX 12" o/c ALONG INTERMEDIATE FRAMING MEMBERS.

CONTRACTOR NOTE
THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. DESIGN OF SHORING AND OTHER MEANS AND METHODS STRUCTURES SHALL BE DESIGNED BY ENGINEERS HIRED BY THE CONTRACTOR.

CONTRACTOR SHALL SHORE ALL EXISTING FRAMING AS REQUIRED DURING THE REPAIR/REPLACEMENT OF EXISTING FRAMING AND DURING THE INSTALLATION OF NEW STEEL/WOOD FRAMING.

FIRST FLOOR FRAMING PLAN

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

DESIGN LIVE LOAD = 100 PSF (COMMERCIAL)
= 50 PSF (OFFICE)

1. (E) FLOOR SHEATHING DENOTES SPAN OF EXIST FLOOR SHEATHING.
2. SECTIONS SHOWN ON PLAN APPLY TO SIMILAR SECTIONS THROUGHOUT THE BUILDING.
3. ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BEFORE ANY NEW WORK IS PERFORMED
4. NEW FRAMING SHALL BE TIGHT TO THE UNDERSIDE OF EXISTING WOOD FRAMING UNLESS NOTED OTHERWISE. SHIM TIGHT AS REQUIRED.
5. 3/4" DENOTES SPAN OF 3/4" PLYWOOD FLOORING. SEE PLAN FOR NAILING REQUIREMENTS.
6. SEE DRAWING S-000 FOR STRUCTURAL NOTES.
7. REPLACE EXISTING WOOD CONNECTION w/ SIMPSON HU212-3TF. SHORE EXISTING FRAMING AS REQ'D DURING INSTALLATION OF NEW CONNECTION. CUT AND REPLACE EXISTING FLOOR SHEATHING AS REQ'D FOR INSTALLATION OF NEW TOP FLANGE HANGER
8. PROVIDE (4) 1/2"Ø A307 THRU BOLTS THROUGH ALL (4) 2x12 PLY'S @ NEW WOOD CONNECTION
9. EXTEND NEW 2x12 REINF TO WITHIN 6" OF EXIST CONCRETE WALL. PROVIDE (3) 1/2"Ø A307 THRU BOLTS THROUGH ALL (4) 2x12 PLY'S AT TERMINATION OF NEW 2x12 REINF. ATTACH EXISTING (2) 2x LEDGER TO EXISTING CONC WALL w/ (4) 3/4"Ø THREADED ROD IN HILTI HIT-HY 200 ADHESIVE (6" EMBED)
10. ATTACH NEW 2x12 JOIST TO EXIST BEAM w/ SIMPSON LUS210 FACE MOUNT HANGER
11. TEMPORARY SHORING SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF NEW YORK RETAINED BY THE CONTRACTOR.

DOB APPROVAL STAMP
IS THIS REQ'D?

ISSUED FOR COORDINATION - 08-06-2021 - NOT FOR CONSTRUCTION

WELLS FARGO

INTERIOR FIT-OUT

MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
0600354910

N.Y. LIC. #: 017735-1 SEAL

CONSULTANTS
BEACH ENGINEERING ASSOCIATES, LLC
CONSULTING STRUCTURAL ENGINEERING
TWIN PONDS EXECUTIVE CAMPUS
200 BIRCHFIELD DRIVE, SUITE 205
MOUNT LAUREL, NEW JERSEY 08054
PH: 856-273-1909 FAX: 856-273-1480
EMAIL: MAIL@MABEACHASSOC.COM
WWW.MABEACHASSOC.COM
NY CERT. OF AUTHORIZATION: 12603
PROJECT No. 678.345

CONSULTANTS
ANTHONY J. VARANO
PROFESSIONAL ENGINEER
NY LIC. NO. 103051

DOB EMPLOYEE SIGNATURES
IS THIS REQ'D?

REVISIONS

NO.	DATE	DESCRIPTION	BY

DATE ISSUED: 8.06.21
ISSUED FOR: COORDINATION
REVIEWED BY: TV
DRAWN BY: KS

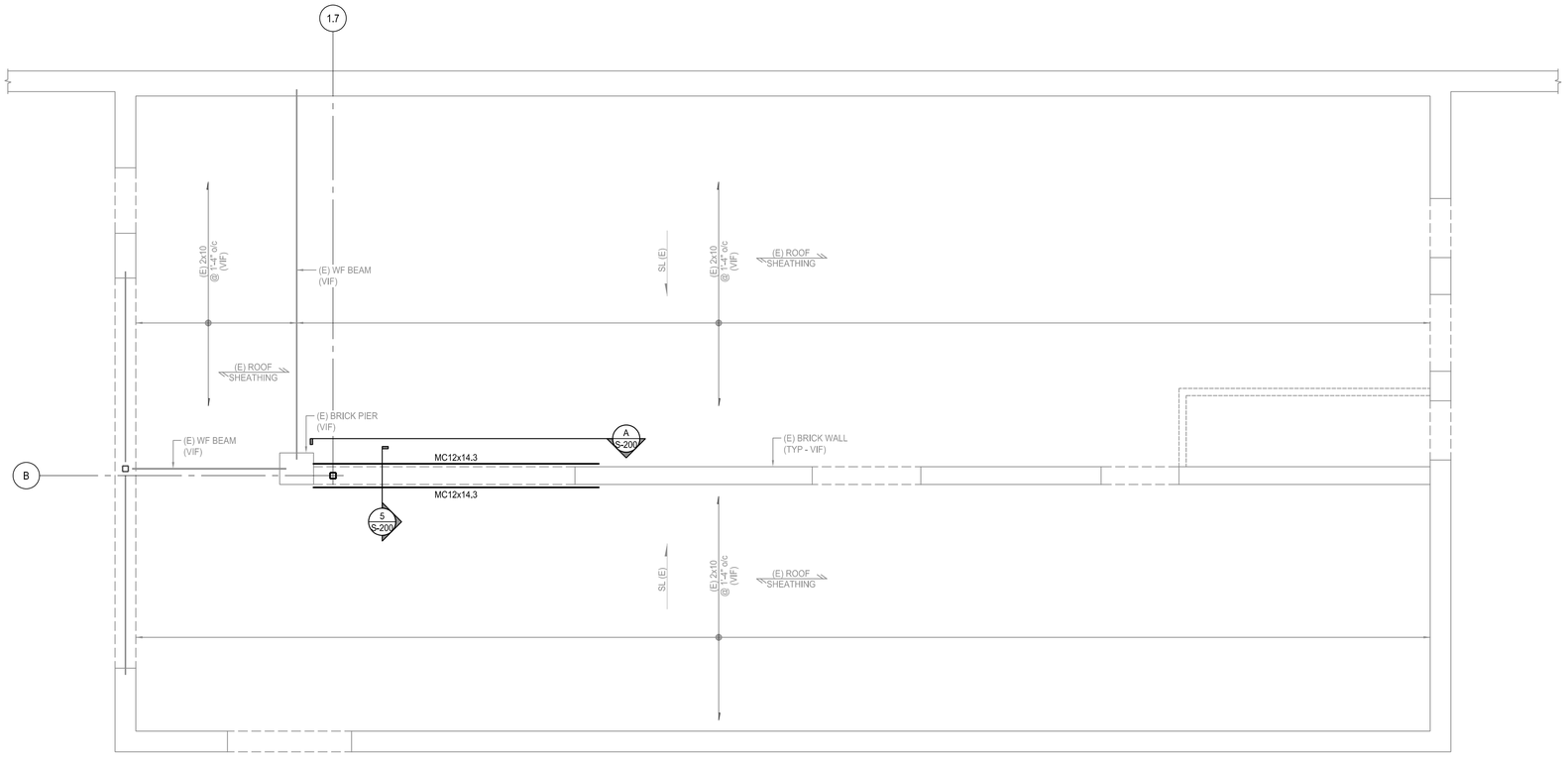
WELLS FARGO BE NUMBER
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SHEET TITLE
PARTIAL FOUNDATION PLAN AND FIRST FLOOR FRAMING PLAN

SHEET NUMBER
S-100

SHT. OF

ARCHITECT PROJECT NUMBER
2174



ROOF FRAMING PLAN

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

DESIGN LIVE LOAD = 30 PSF

PROJECT NORTH

1. (E) ROOF SHEATHING DENOTES SPAN OF EXIST ROOF SHEATHING.
2. SECTIONS SHOWN ON PLAN APPLY TO SIMILAR SECTIONS THROUGHOUT THE BUILDING.
3. (E) DENOTES EXISTING.
4. ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BEFORE ANY NEW WORK IS PERFORMED
5. SEE DRAWING S-000 FOR STRUCTURAL NOTES.
6. NEW FRAMING SHALL BE TIGHT TO THE UNDERSIDE OF EXISTING WOOD FRAMING UNLESS NOTED OTHERWISE. SHIM TIGHT AS REQUIRED.

CONTRACTOR NOTE
THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. DESIGN OF SHORING AND OTHER MEANS AND METHODS STRUCTURES SHALL BE DESIGNED BY ENGINEERS HIRED BY THE CONTRACTOR.

CONTRACTOR SHALL SHORE ALL EXISTING FRAMING AS REQUIRED DURING THE REPAIR/REPLACEMENT OF EXISTING FRAMING AND DURING THE INSTALLATION OF NEW STEEL/WOOD FRAMING.

DOB APPROVAL STAMP
IS THIS REQ'D?

ISSUED FOR COORDINATION - 08-06-2021 - NOT FOR CONSTRUCTION

WELLS FARGO

INTERIOR FIT-OUT

MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
0600354910

N.Y. LIC. #: 017735-1 SEAL

CONSULTANTS
BEACH ENGINEERING ASSOCIATES, LLC
CONSULTING STRUCTURAL ENGINEERING
TWIN PONDS EXECUTIVE CAMPUS
200 BIRCHFIELD DRIVE, SUITE 205
MOUNT LAUREL, NEW JERSEY 08054
PH: 856-273-1909 FAX: 856-273-1480
EMAIL: MAIL@MABEACHASSOC.COM
WWW.MABEACHASSOC.COM
NY CERT. OF AUTHORIZATION: 12603
PROJECT No. 678.345

CONSULTANTS
ANTHONY J. VARANO
PROFESSIONAL ENGINEER
NY LIC. NO. 103051

DOB EMPLOYEE SIGNATURES
IS THIS REQ'D?

REVISIONS

NO.	DATE	DESCRIPTION	BY

DATE ISSUED: 8.06.21
ISSUED FOR: COORDINATION
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DRAWN BY: KS

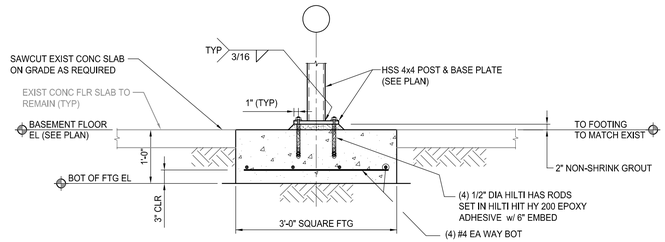
WELLS FARGO BE NUMBER
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SHEET TITLE
ROOF FRAMING PLAN

SHEET NUMBER
S-101

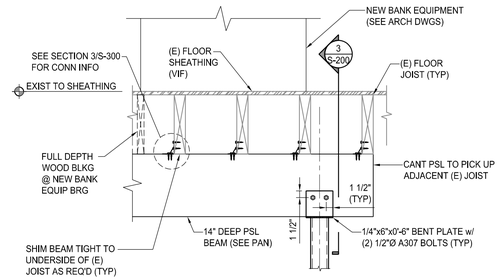
SHT. OF

ARCHITECT PROJECT NUMBER
2174

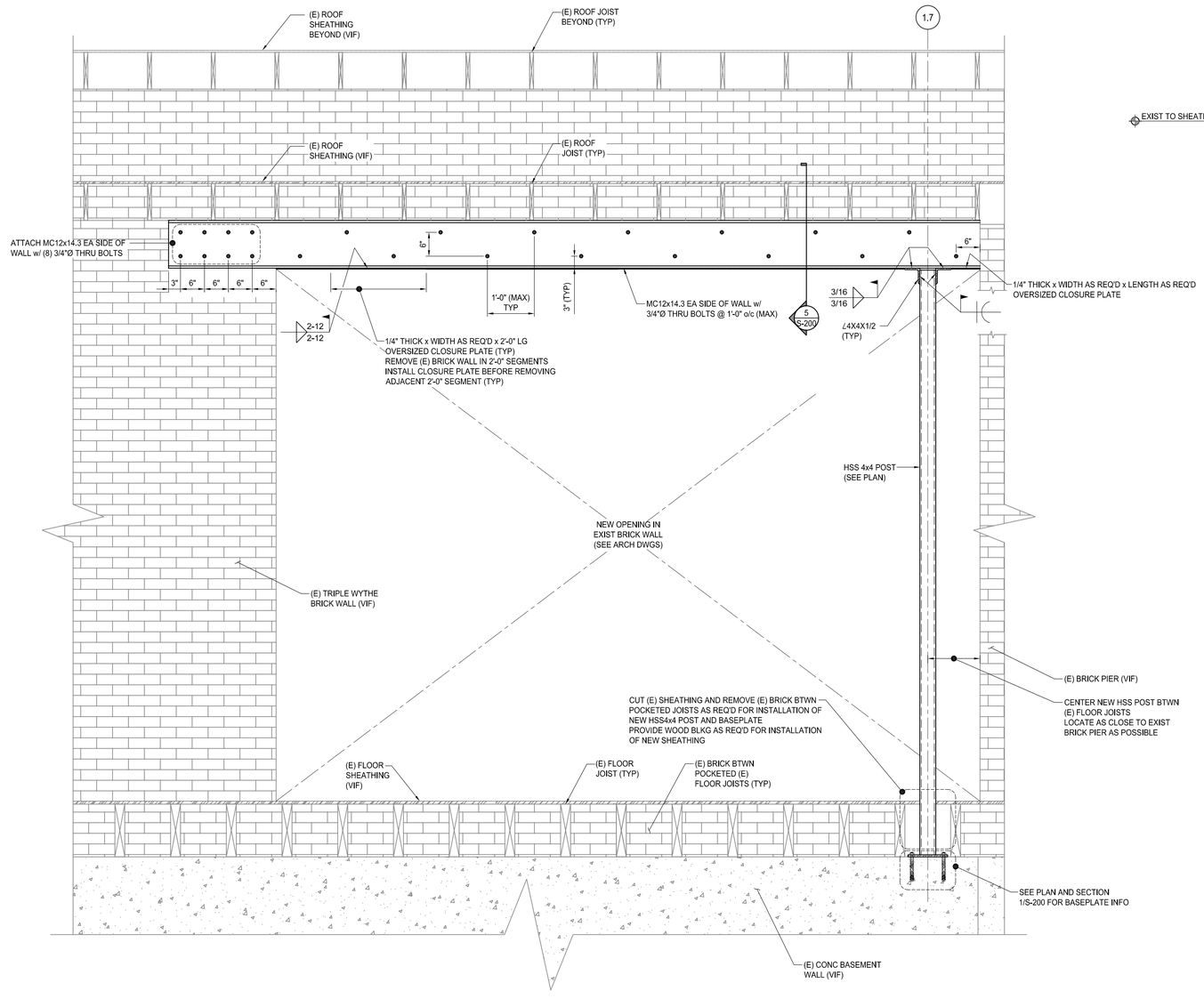


1 S-200 **SECTION** SCALE: 3/4"=1'-0"

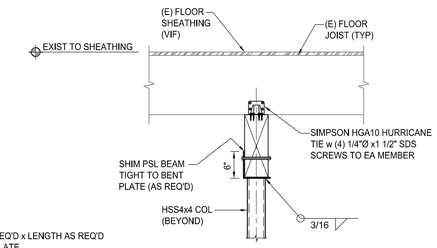
1. FOUNDATION HAS BEEN DESIGNED USING A SAFE ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF
2. DO NOT UNDERMINE ANY EXISTING FOUNATIONS



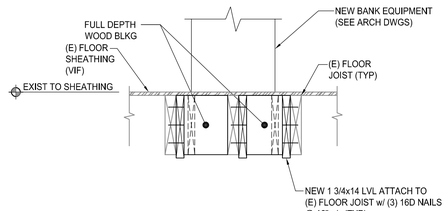
2 S-200 **SECTION** SCALE: 3/4"=1'-0"



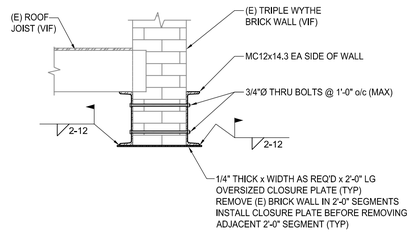
A S-200 **ELEVATION AT NEW OPENING IN EXIST BRICK WALL** SCALE: 3/4"=1'-0"



3 S-200 **SECTION** SCALE: 3/4"=1'-0"



4 S-200 **SECTION** SCALE: 3/4"=1'-0"



5 S-200 **SECTION** SCALE: 3/4"=1'-0"

ERECTION SEQUENCE

1. INSTALL NEW CHANNELS AND THRU BOLTS
2. REMOVE WALL BELOW CHANNELS AS REQUIRED FOR INSTALLATION OF NEW HSS POST (REMOVE 2'-0" MAX). INSTALL NEW HSS POST AND WELD NEW 1/4" PLATE AND ANGLES TO CHANNELS.
3. REMOVE WALL BELOW CHANNELS IN 2'-0" LONG INCREMENTS, WELD NEW 1/4" PLATE TO CHANNELS IN 2'-0" INCREMENTS AS WALL IS REMOVED.

ISSUED FOR COORDINATION - 08-06-2021 - NOT FOR CONSTRUCTION

DOB APPROVAL STAMP
IS THIS REQ'D?

WELLS FARGO

INTERIOR FIT-OUT
MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974 06000354910
TELEPHONE (908) 464-9300
FAX (908) 464-3123

N.Y. LIC. #: 017735-1 SEAL

CONSULTANTS
BEACH ENGINEERING ASSOCIATES, LLC
CONSULTING STRUCTURAL ENGINEERING
TWIN PONDS EXECUTIVE CAMPUS
200 BIRCHFIELD DRIVE, SUITE 205
MOUNT LAUREL, NEW JERSEY 08054
PH: 856-273-1909 FAX: 856-273-1480
EMAIL: MAIL@MABEACHASSOC.COM
WWW.MABEACHASSOC.COM
NY CERT. OF AUTHORIZATION: 12603
PROJECT No. 678.345

CONSULTANTS
ANTHONY J. VARANO
PROFESSIONAL ENGINEER
NY LIC. NO. 103051

DOB EMPLOYEE SIGNATURES
IS THIS REQ'D?

REVISIONS

NO.	DATE	DESCRIPTION	BY

DATE ISSUED:	8.06.21
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REVIEWED BY:	TV
DRAWN BY:	KS

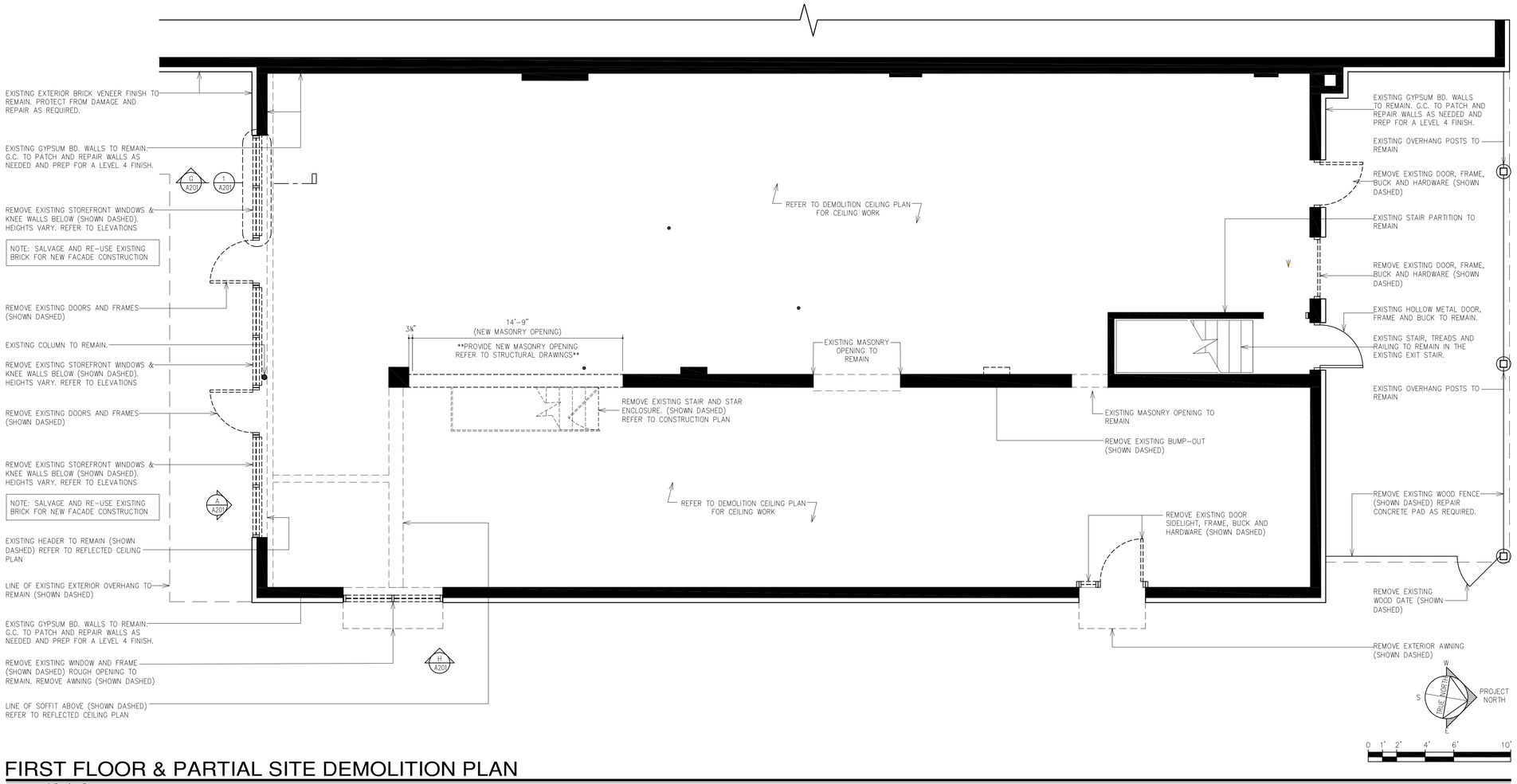
WELLS FARGO BE NUMBER
?

SHEET TITLE
SECTIONS AND DETAILS

SHEET NUMBER
S-200

SHT. OF

ARCHITECT PROJECT NUMBER
2174



FIRST FLOOR & PARTIAL SITE DEMOLITION PLAN

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

SYMBOL LEGEND

EXISTING PARTITIONS, DOORS, WINDOWS ETC. TO BE REMOVED

EXISTING PARTITIONS TO REMAIN. THICKNESS AND TYPE VARY. FIELD VERIFY AS REQUIRED.

DETAIL ELEVATION — # / A—#

DETAIL PLAN — # / A—#

DEMOLITION NOTES

1. DASHED LINES INDICATE ITEMS TO BE REMOVED OR CAPPED, UNLESS NOTED TO REMAIN. REFER TO DENOTATIONS FOR DETAILS.
2. PATCH EXISTING SURFACES TO REMAIN WHERE ADJACENT ITEMS ARE TO BE REMOVED.
3. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING AREAS ADJACENT TO THE CONSTRUCTION AREA.
4. REMOVE ALL RUBBISH AND CONSTRUCTION DEBRIS ON A DAILY BASIS, AND LEAVE THE CONSTRUCTION AREA BROOM CLEAN.
5. ALL REMOVED MATERIALS, EXCEPT AS THE OWNER MAY ELECT TO KEEP SHALL BECOME THE PROPERTY OF THE GENERAL CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF.
6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND DEMOLITION OF ALL TRADES.
7. G.C. SHALL ASSURE THAT NO BUILDING SYSTEMS WILL BE DEMOLISHED OR RELOCATED DURING DEMOLITION OR CONSTRUCTION WITHIN THE SPACE INCLUDING, BUT NOT LIMITED TO, VENTILATION AND FIRE-RATED SHAFTS, ELECTRICAL, INTERCOM, GAS, HEATING, OR PLUMBING, AMONG OTHERS.
8. G.C. WILL FIRE-SAFE ANY OPENINGS BETWEEN FLOORS AND/OR WALLS EXPOSED DURING WORK.
9. G.C. SHALL SEAL ALL VENTS, OPENINGS, CONVECTORS, ENTRY AND SERVICE DOORS WITH 6 MIL POLYETHYLENE SHEETING (OR GREATER), AND/OR DUCT TAPED DURING DEMOLITION AND CONSTRUCTION TO PREVENT DUST FROM INFILTRATING BUILDING SYSTEMS, CORRIDORS AND STAIRS.
10. GENERAL CONTRACTOR MUST CONTROL DUST AND NOISE TO THE MAXIMUM EXTENT DURING THE DEMOLITION AND CONSTRUCTION WITHIN THE SPACE, AND MUST FULLY ADHERE TO THE REQUIREMENTS OF THE BUILDING'S ALTERATION AGREEMENT THAT APPLY TO COMMERCIAL SPACE REGARDING WORK WITHIN THE SPACE AND OTHER BUILDING AREAS WHERE ACCESS IS NECESSARY TO PERFORM THE WORK WITHIN THE SPACE.
11. THE GENERAL CONTRACTOR SHALL COMPLY WITH "THE USE OF LEAD SAFE PRACTICES" FOR WORK IMPACTING 6 S.F. OR MORE OF LEAD PAINT IN BUILDING ERECTED BEFORE 1978, AND ALL APPLICABLE STATE AND LOCAL REGULATIONS. ALL WORK TO COMPLY WITH FEDERAL EPA RULE ISSUED 4/22/2008.
12. ALL SUSPENDED FRAMEWORK TO BE REMOVED
13. REFER TO MECHANICAL DRAWINGS FOR HVAC DEMOLITION

WELLS FARGO

INTERIOR FIT-OUT

MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
0600354910
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-5000
FAX (908) 464-3123

REGISTERED ARCHITECT WILLIAM R. RYAN 017735-1 STATE OF NEW YORK
N.Y. LIC. #: 017735-1 SEAL

CONSULTANTS

DJM CONSULTING ENGINEERING
Engineering sustainable solutions for your success
606 Union Avenue • Suite 3
Bristle, NJ • 08750
Tel: (732)223-2332
Fax: (888)428-3421
www.DJM-CE.com
CERTIFICATE OF AUTHORIZATION
#24GA28223400

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NO.	DATE	DESCRIPTION	BY

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DRAWN BY: J.M.N.

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SHEET TITLE

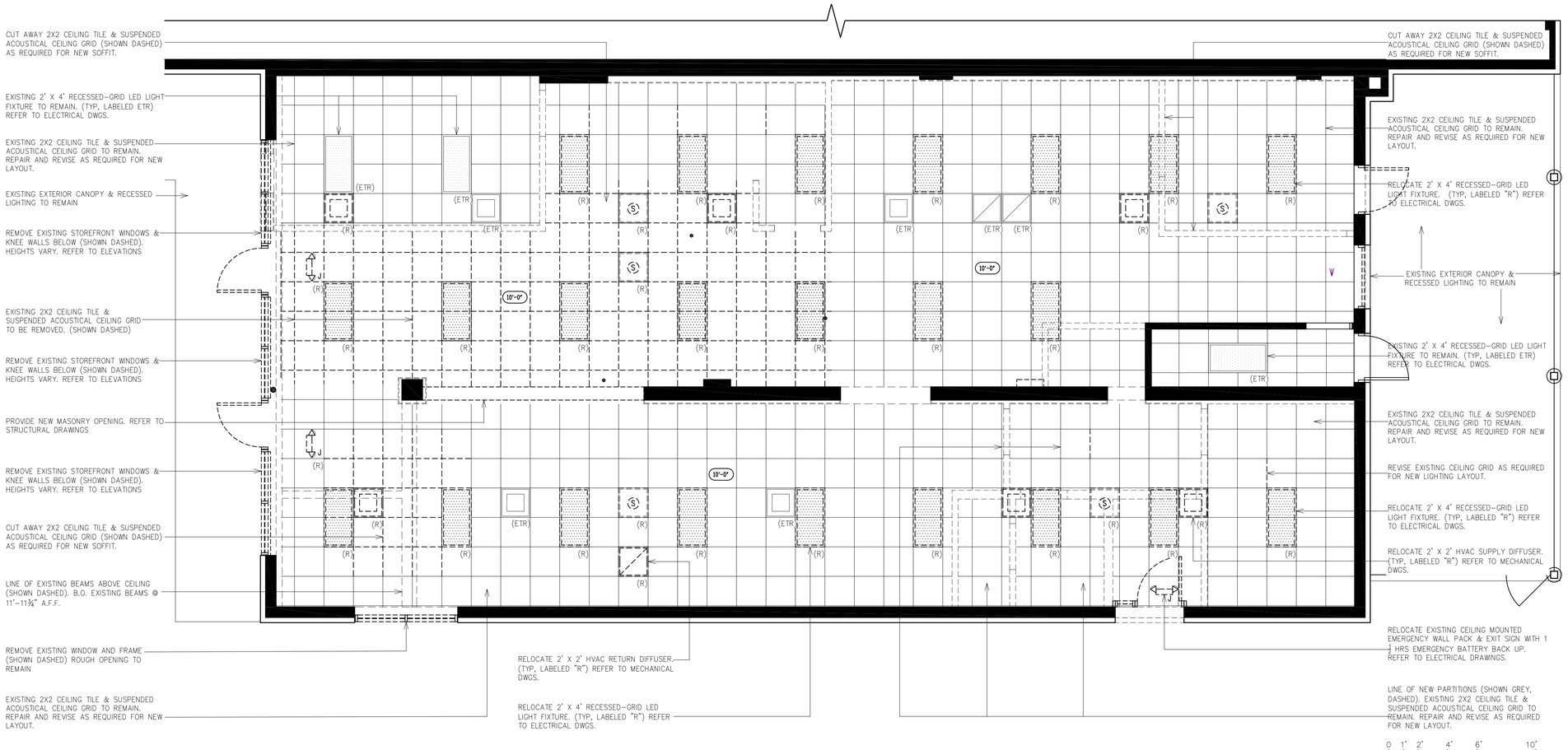
PARTIAL SITE - FIRST FLOOR DEMOLITION PLAN

SHEET NUMBER
DM-101.00

SHT. OF –

ARCHITECT PROJECT NUMBER
2174

DOB APPROVAL STAMP



FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN

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

SYMBOL LEGEND

- EXISTING 2X2 CEILING TILE & SUSPENDED ACOUSTICAL CEILING GRID TO REMAIN. REPAIR AND REVISE AS REQUIRED FOR NEW LAYOUT.
- EXISTING 2X2 CEILING TILE & SUSPENDED ACOUSTICAL CEILING GRID TO BE REMOVED. (SHOWN DASHED)
- J / (R) — RELOCATE EXISTING CEILING MOUNTED EMERGENCY WALL PACK & EXIT SIGN WITH 1 ½ HRS EMERGENCY BATTERY BACK UP. REFER TO ELECTRICAL DRAWINGS.
- X'-X" — DENOTES EXISTING CEILING HEIGHTS FROM FINISH FLOOR
- (ETR) — EXISTING 2' X 2' HVAC SUPPLY DIFFUSER TO REMAIN. REFER TO MECHANICAL DWGS.
- (ETR) — EXISTING 2' X 2' HVAC RETURN DIFFUSER TO REMAIN. REFER TO MECHANICAL DWGS.
- (R) — RELOCATE 2' X 2' HVAC SUPPLY DIFFUSER. REFER TO MECHANICAL DWGS.
- (R) — RELOCATE 2' X 2' HVAC RETURN DIFFUSER. REFER TO MECHANICAL DWGS.
- (ETR) — EXISTING 2' X 4' RECESSED-GRID LED LIGHT FIXTURE TO REMAIN. REFER TO ELECTRICAL DWGS.
- (R) — RELOCATE 2' X 4' RECESSED-GRID LED LIGHT FIXTURE. REFER TO ELECTRICAL DWGS.

DOB APPROVAL STAMP

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INTERIOR FIT-OUT

MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

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0600354910
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
WILLIAM R. RYAN REGISTERED ARCHITECT 017735-1 STATE OF NEW YORK
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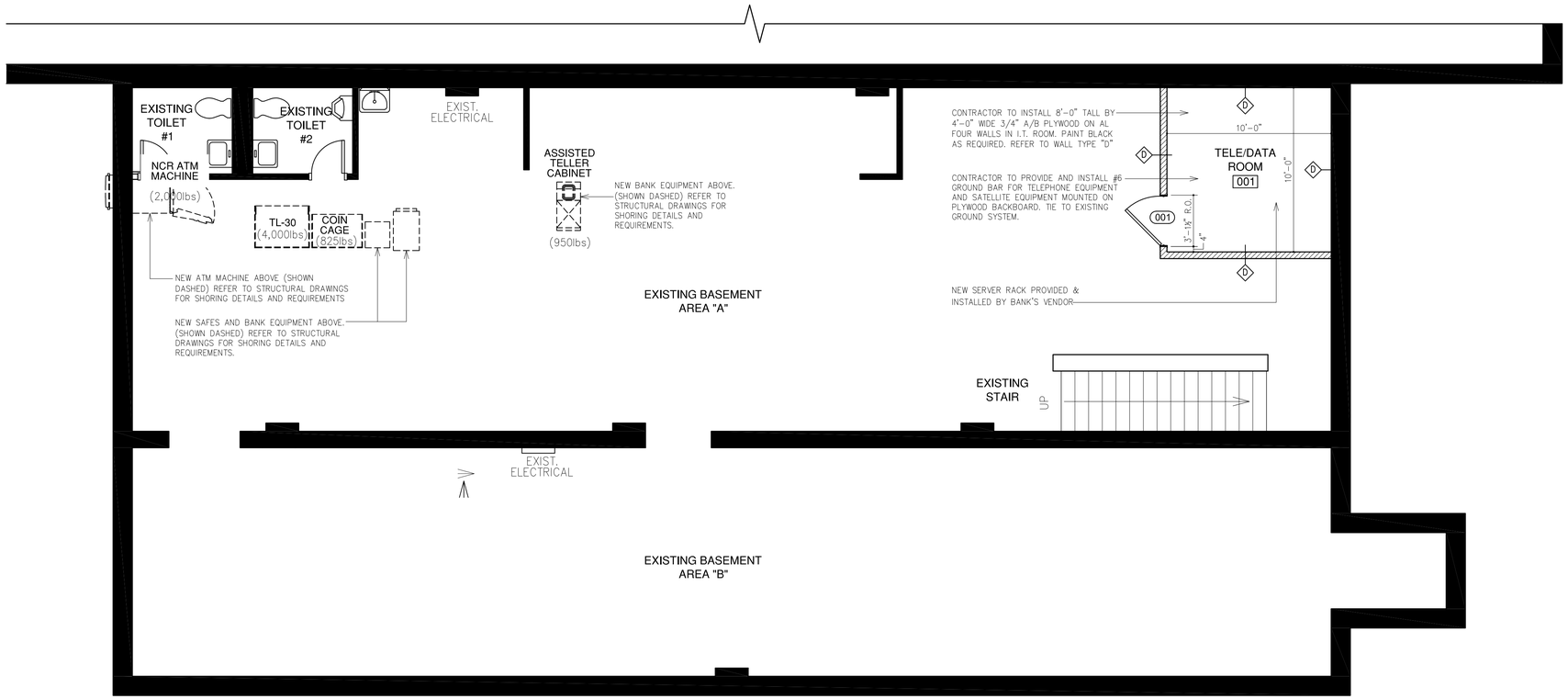
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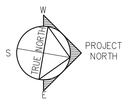
SHEET TITLE
FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN

SHEET NUMBER
DM-102.00

SHT. OF –

ARCHITECT PROJECT NUMBER
2174







CELLAR CONSTRUCTION PLAN

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

WALL CONSTRUCTION SCHEDULE

REFER TO SHEET A-101.00 FOR WALL CONSTRUCTION SCHEDULE

SYMBOL LEGEND

EXISTING WALLS & COLUMN SURROUNDS. THICKNESS, RATING & TYPE VARY. FIELD VERIFY AS REQUIRED

NEW PARTITION REFER TO PARTITION TYPES FOR DETAILS

NEW ALUMINUM & GLASS PARTITIONS FROM FLOOR TO SUSPENDED CEILING. REFER TO DETAILS.

NEW LARSON'S CAMEO SEMI RECESSED & WALL MOUNTED FIRE EXTINGUISHER. MODEL: FS-C2409-5R, COLOR: WHITE — FE

NEW DOORS. DASHED LINES INDICATE CLEAR FLOOR SPACE REQUIRED (NOTE: NOT TO SCALE)

DETAIL PLAN — # / A-#

WALL PARTITION TYPE — X

ROOM NUMBER — XXX

DOOR NUMBER — XXX

DETAIL ELEVATION — # / A-#

BASEMENT NOTES

1. ALL EXISTING FLOORS, WALLS, CEILING, STAIRS (NOT NOTED PREVIOUSLY FOR DEMOLITION) LIGHTING AND PLUMBING FIXTURES SHALL REMAIN UNLESS OTHERWISE NOTED
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR RESPECTIVE SCOPE OF WORK.
3. REFER TO SHEET A-101.00 FOR GENERAL CONSTRUCTION NOTES, PARTITION TYPES AND WALL CONSTRUCTION LEGEND.

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WELLS FARGO

INTERIOR FIT-OUT

MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
0600354910
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-5000
FAX (908) 464-3123

REGISTERED ARCHITECT
WILLIAM R. RYAN
017735-1
STATE OF NEW YORK

N.Y. LIC. #: 017735-1 SEAL

CONSULTANTS

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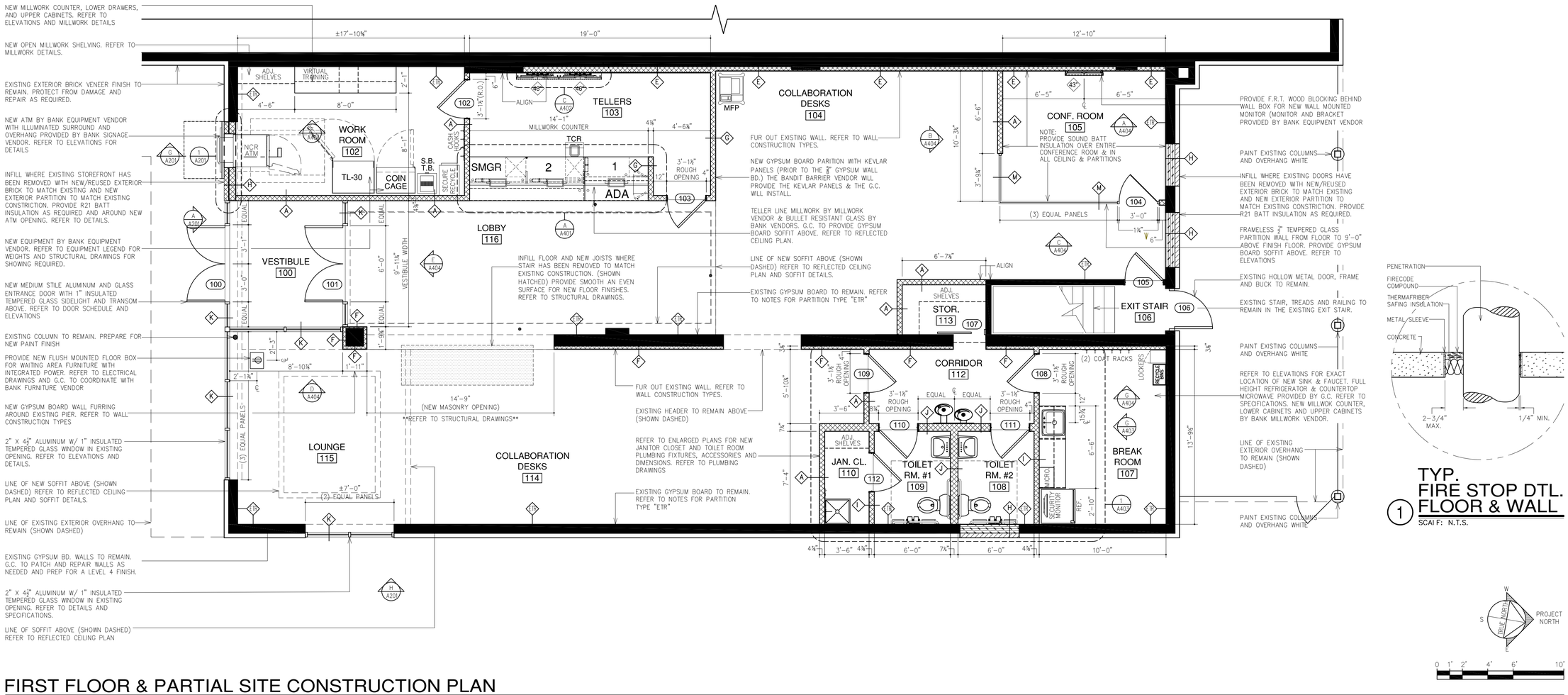
WELLS FARGO BE NUMBER
111700

SHEET TITLE
CELLAR CONSTRUCTION FLOOR PLAN

SHEET NUMBER
A-100.00

SHT. OF –

ARCHITECT PROJECT NUMBER
2174



1 TYP. FIRE STOP DTL. FLOOR & WALL

SCALE: N.T.S.

FIRST FLOOR & PARTIAL SITE CONSTRUCTION PLAN

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

WALL CONSTRUCTION SCHEDULE

SYM.	CONSTRUCTION LEGEND	DESCRIPTION
A	SCALE: ½"=1'-0"	NEW 3⅝" 25 GA. METAL STUDS @ 16" O.C. FROM FLOOR TO UNDER SIDE OF FLOOR ABOVE. PROVIDE ⅝" GYPSUM WALL BOARD ON EACH SIDE OF STUDS. NOTE: USE WATER RESISTANT GYPSUM WALL BOARD @ TOILET WALLS & KITCHENETTE WALL. PROVIDE PROPER BLOCKING FOR ALL CABINETS, GRAB BARS, & ACCESSORIES. NOTE: PROVIDE DIAGONAL BRACING AS REQUIRED.
B	SCALE: ½"=1'-0"	NEW 3⅝" 25 GA. METAL STUDS @ 16" O.C. FROM FLOOR TO 6" ABOVE THE SUSPENDED CEILING. PROVIDE ⅝" GYPSUM WALL BOARD ON EACH SIDE OF STUDS. NOTE: USE WATER RESISTANT GYPSUM WALL BOARD @ TOILET WALLS & KITCHENETTE WALL. PROVIDE PROPER BLOCKING FOR ALL CABINETS, GRAB BARS, & ACCESSORIES. NOTE: PROVIDE DIAGONAL BRACING ABOVE CEILING AT 48" O.C.
C	SCALE: ½"=1'-0"	NEW 3⅝" 25 GA. METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF THE SUSPENDED CEILING. PROVIDE ⅝" GYPSUM WALL BOARD ON EACH SIDE OF STUDS. NOTE: PROVIDE DIAGONAL BRACING ABOVE CEILING AT 48" O.C.
D	TELE/ DATA SIDE SCALE: ½"=1'-0"	EXISTING PLYWOOD WALL FINISH TO REMAIN OR G.C. TO PROVIDE NEW FIRE RETARDANT PLYWOOD TO NEW & EXISTING WALLS INSIDE TELE/DATA RM. NEW WALLS FRAMING TO BE SIMILAR TO WALL TYPE "A". OPPOSITE SIDE TO GET ⅝" GYPSUM WALL BOARD.
E	BRANCH SIDE SCALE: ½"=1'-0"	NEW 3⅝" 25 GA. METAL FURRING STUDS AT 16" O.C. FROM FLOOR TO 6" ABOVE SUSPENDED CEILING OR AS DETAILED. PROVIDE ⅝" GYPSUM WALL BOARD ON BANK SIDE. PROVIDE DIAGONAL BRACING AT 48" O.C. TO STRUCTURE ABOVE AS REQUIRED.
F	BRANCH SIDE SCALE: ½"=1'-0"	NEW 2½" 25 GA. METAL FURRING STUDS AT 16" O.C. FROM FLOOR TO 6" ABOVE SUSPENDED CEILING. PROVIDE ⅝" GYPSUM WALL BOARD ON BANK SIDE. PROVIDE DIAGONAL BRACING AT 48" O.C. TO STRUCTURE ABOVE

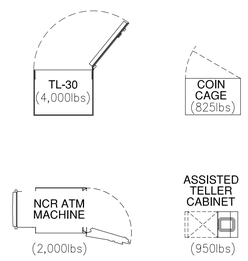
SYM.	CONSTRUCTION LEGEND	DESCRIPTION
G	TELLER SIDE PUBLIC SIDE SCALE: ½"=1'-0"	SAME AS WALL TYPE "A" BUT ONE SIDE OF THE WALL TO RECEIVE A LAYER OF KEVLAR WALL PANELS, FROM FINISH FLOOR TO 8'-0" A.F.F. (PRIOR TO THE ⅝" GYPSUM WALL BD.) THE BANDIT BARRIER VENDOR WILL PROVIDE THE KEVLAR PANELS & THE G.C. WILL INSTALL.
H	EXTERIOR SIDE INTERIOR SIDE SCALE: ½"=1'-0"	NEW 6" 18 GA. METAL STUDS & 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. THE EXTERIOR SIDE OF THE WALL TO RECEIVE ½" FIRE RETARDANT PLYWOOD WALL FINISH FROM THE FLOOR TO CEILING ABOVE, ¾" GAP& BRICK TO MATCH EXISTING. BANK SIDE TO RECEIVE ⅝" GYPSUM WALL BOARD FROM FLOOR TO CEILING/HEADER ABOVE. PROVIDE R-21 BATT INSULATION BETWEEN ALL STUDS.
I	DUROCK @ TOILET SIDE SCALE: ½"=1'-0"	SAME AS WALL TYPE "B" BUT USE THE ⅝" DUROCK CEMENT BOARD @ WALL TILE AREA. SWITCH TO ⅝" GYPSUM BD. ABOVE TILE TO CEILING. OPPOSITE SIDE ⅝" GYPSUM WALL BOARD. PROVIDE SOUND BATT INSULATION BETWEEN ALL STUDS
J	DUROCK @ TOILET SIDE SCALE: ½"=1'-0"	SAME AS WALL TYPE "I" BUT USE 6" METAL STUDS 16" O.C. USE THE ⅝" DUROCK CEMENT BOARD @ WALL TILE AREA. SWITCH TO ⅝" GYPSUM BD. ABOVE TILE TO CEILING. OPPOSITE SIDE ⅝" GYPSUM WALL BOARD. PROVIDE SOUND BATT INSULATION BETWEEN ALL STUDS
K	SCALE: ½"=1'-0"	2" X 4¾" ALUMINUM W/ 1" INSULATED GLASS PARTITION WALL FROM FLOOR TO CEILING ABOVE. REFER TO ELEVATIONS FOR HEIGHT
L	SCALE: ½"=1'-0"	1¾" X 4¾" ALUMINUM W/ 1" NON-INSULATED GLASS PARTITION WALL FROM FLOOR TO CEILING ABOVE. REFER TO ELEVATIONS FOR HEIGHT
M	SCALE: ½"=1'-0"	FRAMELESS ¾" TEMPERED GLASS PARTITION WALL FROM FLOOR TO 9'-0" ABOVE FINISH FLOOR. REFER TO ELEVATIONS
E.TR		EXISTING GYPSUM BD. WALLS TO REMAIN. G.C. TO PATCH AND REPAIR WALLS AS NEEDED AND PREP FOR A LEVEL 4 FINISH. NOTE: EXISTING WALLS IN TOILET RM. NEED TO HAVE THE SHEETROCK REMOVED AT TILE WALL. REFER TO WALL TYPE "I"

SYMBOL LEGEND

- EXISTING WALLS & COLUMN SURROUNDS. THICKNESS, RATING & TYPE VARY. FIELD VERIFY AS REQUIRED
- NEW PARTITION REFER TO PARTITION TYPES FOR DETAILS
- NEW ALUMINUM & GLASS PARTITIONS FROM FLOOR TO SUSPENDED CEILING. REFER TO DETAILS.
- NEW LARSON'S CAMEO SEMI RECESSED & WALL MOUNTED FIRE EXTINGUISHER. MODEL: FS-C2409-5R, COLOR: WHITE — FE
- NEW DOORS. DASHED LINES INDICATE CLEAR FLOOR SPACE REQUIRED (NOTE: NOT TO SCALE)
- DETAIL PLAN — #/A-#
- WALL PARTITION TYPE — X
- ROOM NUMBER — XXX
- DOOR NUMBER — XXX
- DETAIL ELEVATION — #/A-#

EQUIPMENT LOADS

EQUIPMENT NOTE: REFER TO STRUCTURAL DRAWINGS FOR ALL SHORING REQUIRED FOR NEW EQUIPMENT.



GENERAL CONSTRUCTION NOTES

1. THE G.C. SHALL LAYOUT PARTITIONS STARTING FROM CONDITIONS WHERE ALIGNMENT WITH EXISTING CONSTRUCTION IS SHOWN OR OFF ALIGNED CORNERS.
2. ALL PARTITIONS SHALL BE ANCHORED FIRMLY AS PER MANUFACTURER SPECIFICATION AND AS REQUIRED BY THE CODE. ALL PARTITIONS TO BE FRAMED FROM EXISTING FINISH FLOOR TO UNDERSIDE OF STRUCTURE ABOVE, UNLESS OTHERWISE INDICATED ON THE PLANS.
3. ALL PARTITION DIMENSIONS ARE FROM FINISH FACE OF NEW WALL AND FINISH FACE OF EXISTING WALL OR EXPOSED SURFACE.
4. THE CONTRACTOR SHALL USE CORNER BEADS AT ALL EXPOSED CORNERS AND EXPOSED ENDS IN PLASTER AND DRYWALL PARTITIONS.
5. ALL METAL TRIM ON GYPSUM BOARD PARTITIONS SHALL BE TYPE #200 SERIES AS MANUFACTURED BY U.S. GYPSUM OR EQUAL.
6. ALL GYPSUM BOARD SHALL BE INSTALLED VERTICALLY OR AS STATED IN A PARTICULAR FIRE RATED ASSEMBLY PER THAT DETAIL.
7. GYPSUM BOARD AT TOILETS, SINKS, LAVATORIES OR KITCHENETTES SHOULD BE OF WATER RESISTANT TYPE.
8. THE G.C. SHALL BE RESPONSIBLE FOR ALL TAPING AND SPACKLING OF NEW GYPSUM BOARD, AS WELL AS, ALL PATCHING AND REPAIRING OF EXISTING WALLS, CEILING, AND COLUMNS OR ANY SURFACED DAMAGED DURING DEMOLITION.
9. CONTRACTOR SHALL PROVIDE WALL OPENINGS, TRENCHES, FLOOR OPENINGS, GROUTING, AND SLAB DEPRESSIONS FOR OWNER-INSTALLED BANK EQUIPMENT AS SHOWN ON SHOP DRAWINGS FURNISHED BY BANK EQUIPMENT MANUFACTURER.
10. G.C. IS RESPONSIBLE FOR CAPPING ALL EXISTING EXPOSED PIPING NOT BEING USED BEYOND THE FINISH SURFACE.
11. PROVIDE ALL NECESSARY ACCESS DOORS (AS REQUIRED BY MEP TRADES) FOR PLUMBING, ELECTRICAL, ETC. AS REQUIRED TO ACCESS EQUIPMENT OR CONTROLS. LOCATIONS TO BE APPROVED BY THE ARCHITECT.
12. ALL FIREPROOFING OF STEEL MUST BE REPLACED IF DAMAGED OR MISSING AT THE G.C.'S EXPENSE.
13. G.C. SHALL FURNISH AND INSTALL FIREPROOF BLOCKING IN CEILINGS OR PARTITIONS.
14. G.C. IS RESPONSIBLE TO PROVIDE AND INSTALL ALL BLOCKING REQUIRED FOR EQUIPMENT, PLUMBING, CABINETRY, GRAB BARS, SIGNAGE, ETC. G.C. TO COORDINATE REQUIREMENTS WITH ALL TRADES.
15. ALL EXISTING CONSTRUCTION TO REMAIN SHALL BE PATCHED AND REPAIRED AS REQUIRED TO RECEIVE NEW FINISH PER THE FINISH SCHEDULE OR OTHERWISE INDICATED ON THE PLANS.
16. CONTRACTOR TO PROVIDE ALL MATERIAL AND LABOR REQUIRED TO MAKE FINAL CONNECTIONS TO ALL UTILITIES AND SYSTEMS, INCLUDING ITEMS SUPPLIED BY OWNER, SO THAT ALL UTILITIES AND SYSTEMS ARE FULLY FUNCTIONAL, UNLESS SPECIFIED OTHERWISE.
17. ALL OPERATING COMPONENTS (SWITCHES, FIRE PULLS, SECURITY PANELS, THERMOSTATS, FIRE EXTINGUISHER, ETC.) LOCATED ON WALLS, MUST BE 48" A.F.F. TO THE OPERATING BUTTONS OR UNIT.
18. ALL EXISTING WALLS TO BE PATCHED AND REPAIRED (AS NEEDED) TO PROVIDE A LEVEL, SMOOTH SURFACE.

DOB APPROVAL STAMP

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06003549100
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DRAWN BY: J.M.N.

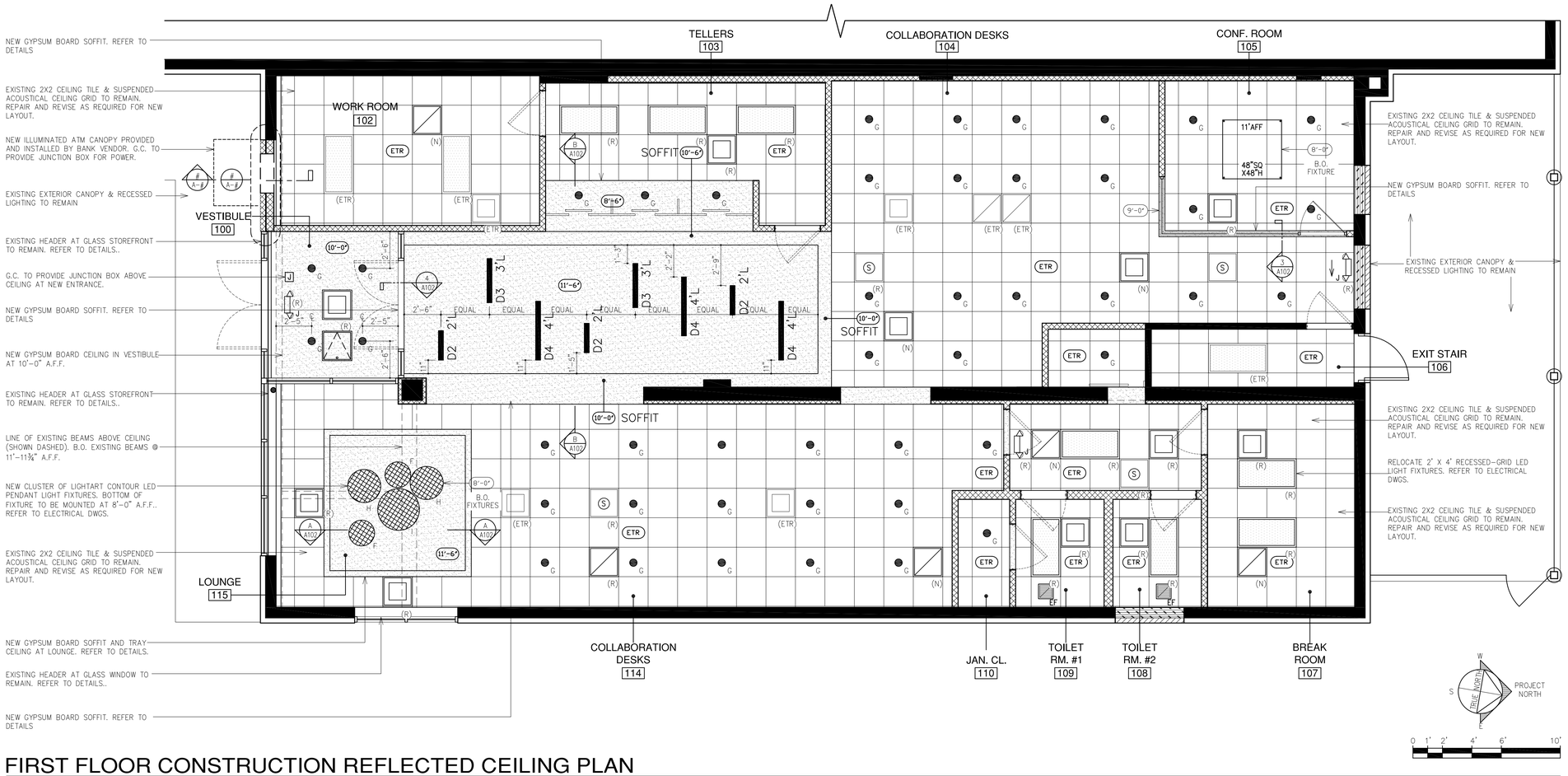
WELLS FARGO BE NUMBER
111700

SHEET TITLE
PARTIAL SITE - FIRST FLOOR CONSTRUCTION PLAN

SHEET NUMBER
A-101.00

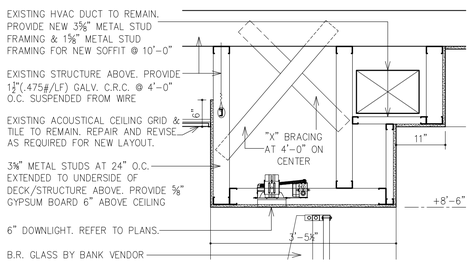
SHT. OF –

ARCHITECT PROJECT NUMBER
2174



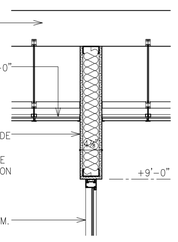
FIRST FLOOR CONSTRUCTION REFLECTED CEILING PLAN

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



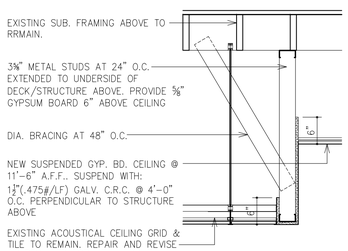
1 SOFFIT @ TELLER LINE

SCALE: 3/4"=1'-0"



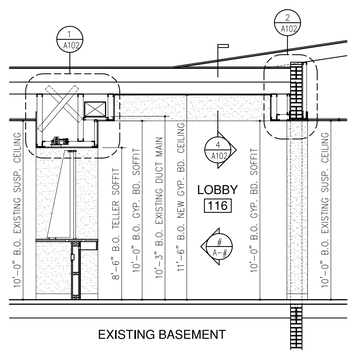
3 SOFFIT @ CONFERENCE ROOM

SCALE: 3/4"=1'-0"



5 SOFFIT @ LOUNGE

SCALE: 3/4"=1'-0"

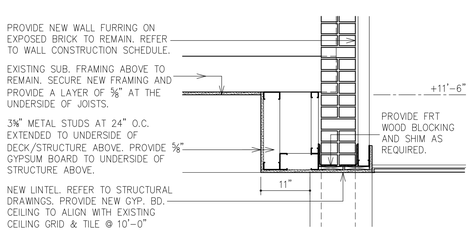


B PARTIAL LOBBY SECTION

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

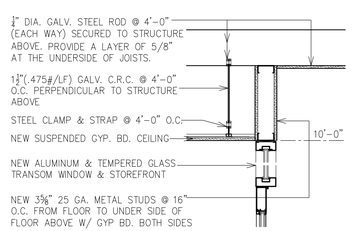
CEILING NOTES

1. ALL CEILING HEIGHTS ARE TO MATCH EXISTING HEIGHT ABOVE FINISHED FLOOR IN THAT AREA OR UNLESS NOTED OTHERWISE NOTED.
2. INSTALL ⅝" GYPSUM BOARD TO A NEW SOFFIT CEILING GRID OR METAL CHANNELS.
3. FOR ACTUAL PLACEMENT OF LIGHT FIXTURES, HVAC SUPPLY AND RETURN DIFFUSERS, SPRINKLER HEADS, ETC. THIS DRAWING SHALL GOVERN. THE LAYOUTS ON THE ENGINEERING DRAWING ARE APPROXIMATE AND FOR INFORMATION ONLY.
4. ALL LIGHTING FIXTURES. SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE UNLESS OTHERWISE INDICATED.
5. REFERENCE MEP DRAWINGS FOR ALL ELECTRICAL, HVAC & EMERGENCY FIXTURES FOR SPECIAL SWITCHING.
6. GENERAL CONTRACTOR SHALL COORDINATE LOCATION & INSTALLATION OF ALL LIGHT FIXTURES & HVAC DUCTWORK AS REQUIRED PER JOB.
7. ALL SOFFITS SHALL BE BRACED TO STRUCTURE ABOVE AT A MAX SPACING OF 4'-0" O.C.
8. THE GENERAL CONTRACTOR SHALL COORDINATE ALL TRADES INCLUDING SECURITY AND AUDIO/VIDEO VENDOR.
9. ALL LIGHT FIXTURES SHALL BE WIRED BACK TO EXISTING STRUCTURE ABOVE.



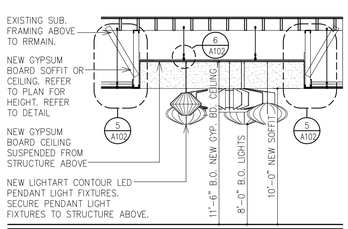
2 SOFFIT @ LOBBY & LINTEL

SCALE: 3/4"=1'-0"



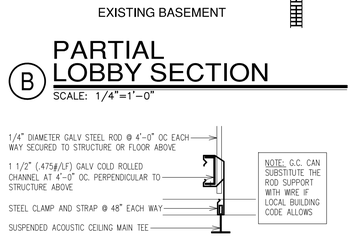
4 VESTIBULE GLASS

SCALE: 3/4"=1'-0"



A LOUNGE LIGHTING

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



6 GRID & ROD SUPPORT

SCALE: N.T.S.

SYMBOL LEGEND

- EXISTING 2X2 CEILING TILE & SUSPENDED ACOUSTICAL CEILING GRID TO REMAIN. REPAIR AND REVISE AS REQUIRED FOR NEW LAYOUT.
- NEW GYPSUM BOARD SOFFIT OR CEILING. REFER TO PLAN FOR HEIGHT. REFER TO SOFFIT DETAILS.
- J (R) — RELOCATE EXISTING CEILING MOUNTED EMERGENCY WALL PACK & EXIT SIGN WITH 1 ½ HRS EMERGENCY BATTERY BACK UP. REFER TO ELECTRICAL DRAWINGS.
- J (N) — NEW CEILING MOUNTED EMERGENCY WALL PACK & EXIT SIGN WITH 1 ½ HRS EMERGENCY BATTERY BACK UP TO MATCH EXISTING. REFER TO ELECTRICAL DRAWINGS.
- 2'X2' LOCKABLE METAL ACCESS PANEL. COLOR: WHITE
- X'-X" — DENOTES NEW CEILING HEIGHTS FROM FINISH FLOOR
- J — NEW JUNCTION ABOVE THE CEILING
- (ETR) — EXISTING 2' X 2' HVAC SUPPLY DIFFUSER TO REMAIN. REFER TO MECHANICAL DWGS.
- (ETR) — EXISTING 2' X 2' HVAC RETURN DIFFUSER TO REMAIN. REFER TO MECHANICAL DWGS.
- (R) — RELOCATE 2' X 2' HVAC SUPPLY DIFFUSER. REFER TO MECHANICAL DWGS.
- (R) — RELOCATE 2' X 2' HVAC RETURN DIFFUSER. REFER TO MECHANICAL DWGS.
- (N) — NEW 2' X 2' HVAC SUPPLY DIFFUSER. REFER TO MECHANICAL DWGS.
- (N) — NEW 2' X 2' HVAC RETURN DIFFUSER. REFER TO MECHANICAL DWGS.
- EF — NEW EXHAUST FAN VENTED TO THE EXTERIOR. REFER TO MECHANICAL DWGS.
- (ETR) — EXISTING 2' X 4' RECESSED-GRID LED LIGHT FIXTURE TO REMAIN. REFER TO ELECTRICAL DWGS.
- (R) — RELOCATE 2' X 4' RECESSED-GRID LED LIGHT FIXTURE. REFER TO ELECTRICAL DWGS.
- 11'AFF / 48"SQ X48"H — NEW SUSPENDED LED CUBE PENDANT LIGHT FIXTURE WITH ACOUSTICAL FINISH TO BE MOUNTED AS NOTED ON THE PLAN. REFER TO ELECTRICAL DRAWINGS
- D2 2'L / D3 3' LENGTH / D4 4' LENGTH — NEW LINEAR LED LIGHT FIXTUES. THE NUMBER INDICATES LENGTH OF FIXTURE. REFER TO ELECTRICAL DWGS.
- C — NEW 6" RECESSED HIGH EFFICIENCY LED DOWNLIGHT. REFER TO ELECTRICAL DWGS.
- H — NEW LIGHTART CONTOUR LED PENDANT LIGHT FIXTURE. BOTTOM OF FIXTURE TO BE MOUNTED AS NOTED ON PLAN. REFER TO ELECTRICAL DWGS.
- I — NEW LIGHTART CONTOUR LED PENDANT LIGHT FIXTURE. BOTTOM OF FIXTURE TO BE MOUNTED AS NOTED ON PLAN. REFER TO ELECTRICAL DWGS.
- F — NEW LIGHTART CONTOUR LED PENDANT LIGHT FIXTURE. BOTTOM OF FIXTURE TO BE MOUNTED AS NOTED ON PLAN. REFER TO ELECTRICAL DWGS.

DOB APPROVAL STAMP

WELLS FARGO

INTERIOR FIT-OUT

MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
0600354910
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-5000
FAX (908) 464-3123
REGISTERED ARCHITECT WILLIAM R. RYAN 017735-1 STATE OF NEW YORK
N.Y. LIC. #: 017735-1 SEAL
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Tel: (732)223-2332
Fax: (888)428-3421
www.DJM-CE.com
CERTIFICATE OF AUTHORIZATION #24GA28223400
CONSULTANTS

DOB EMPLOYEE SIGNATURES

REVISIONS

NO.	DATE	DESCRIPTION	BY

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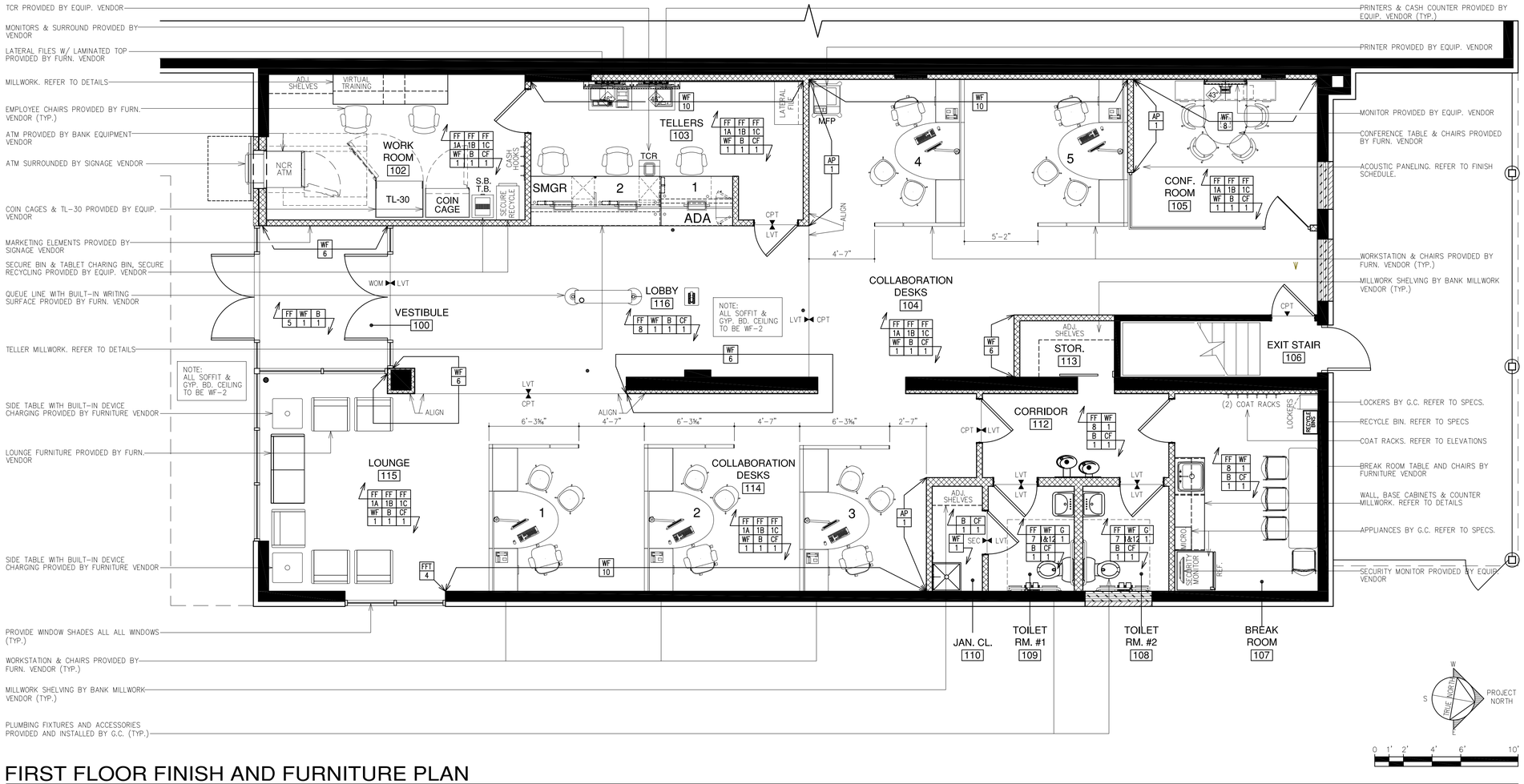
WELLS FARGO BE NUMBER
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SHEET NUMBER
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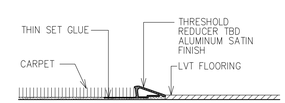


FIRST FLOOR FINISH AND FURNITURE PLAN

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

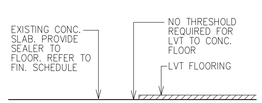
FINISH NOTES

1. ALL WALLS TO BE PAINTED WF-1, UNLESS OTHERWISE INDICATED.
2. ALL FLOORING MATERIALS TRANSITION SHALL BE ON THE DOOR CENTER, UNLESS OTHERWISE INDICATED.
3. CONTRACTOR SHALL PROVIDE TRANSITION STRIPS BETWEEN TILE FLOORING AND CARPET; COLOR SAMPLES SHALL BE SUBMITTED TO ARCHITECT FOR SELECTION FROM MANUFACTURER'S STANDARDS.
4. ACCESS PANELS, VISIBLE COVERS OR ENCASEMENTS ETC. SHALL BE PAINTED TO MATCH ADJACENT SURFACES.
5. FLOAT FLOOR SLAB AT TRANSITION AREA OF FLOOR FINISHES OF VARYING THICKNESS A MINIMUM OF 2'-0" OR TO A ACHIEVE A MAXIMUM SLOPE OF 1:20 (WHICHEVER IS GREATER) TO ACHIEVE A UNIFORM AND FLUSH TRANSITION BETWEEN FINAL FINISHED SURFACES.
6. REFER TO REFLECTED CEILING PLAN FOR CEILING LAYOUT.
7. PARTITION AND PAINTED CEILING FINISH
8. TRANSITIONS/TERMINATIONS TO OCCUR AT INSIDE CORNER, UNLESS NOTED OTHERWISE.
9. SCORE VINYL BASE AT ALL OUTSIDE CORNERS.
10. LOCATE POWER AND LOW VOLTAGE WALL OUTLETS SO AS TO MINIMIZE VISIBILITY. COLOR OF PLATES TO MATCH WALL FINISH COLOR OR AS PER SPECIFICATIONS.
11. ALL FURNITURE TO BE PROVIDED BY THE BANK'S FURNITURE VENDOR, UNLESS OTHERWISE INDICATED.
12. ALL EQUIPMENT TO BE PROVIDED BY THE BANK'S EQUIPMENT VENDOR, UNLESS OTHERWISE INDICATED.
13. ALL MILLWORK TO BE PROVIDED BY THE GENERAL CONTRACTOR, UNLESS OTHERWISE INDICATED.
14. ALL WOOD DOORS TO BE STAINED TO MATCH THE TELLER LINE (MW-1. REFER TO FINISH SCHEDULE).
15. HOLLOW METAL FRAMES (IF APPLICABLE) ARE TO BE PAINTED TO MATCH ADJACENT WALL COLOR, UNLESS OTHERWISE INDICATED. REFER TO DOOR SCHEDULE FOR INFORMATION.
16. ALL MILLWORK WILL BE FABRICATED OFF PREMISE.
17. ALL PRODUCTS SHALL UTILIZE LOW V.O.C. ENVIRONMENTAL COMPATIBLE PRODUCTS EVEN IF THIS PARTICULAR LOCATION IS NOT GOING TO BE LEED CERTIFIED. REFER TO PROJECT MANUAL FOR MORE INFORMATION.



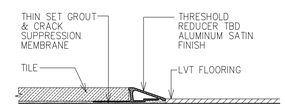
1 CARPET/ LVT TRANSITION STRIP

SCALE: 6"=1'-0"



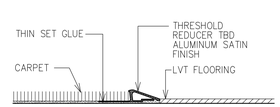
2 LVT/ SEALED CONC. TRANSITION STRIP

SCALE: 6"=1'-0"



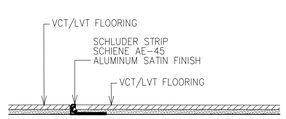
3 TILE/ LVT TRANSITION STRIP

SCALE: 6"=1'-0"



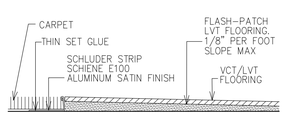
4 CARPET/ VCT TRANSITION STRIP

SCALE: 6"=1'-0"



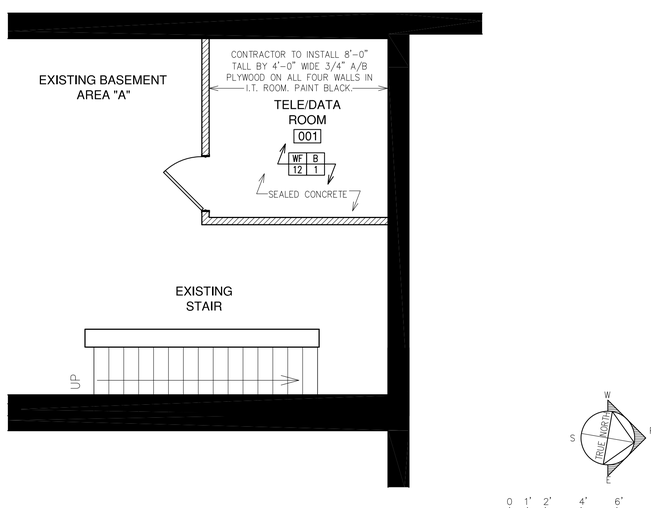
5 VCT/ LVT TRANSITION STRIP

SCALE: 6"=1'-0"



6 CARPET/ LVT TRANSITION STRIP

SCALE: 6"=1'-0"



PARTIAL CELLAR FINISH PLAN

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

DOB APPROVAL STAMP

WELLS FARGO

INTERIOR FIT-OUT

MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
0600354910
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-5000
FAX (908) 464-3123
REGISTERED ARCHITECT WILLIAM R. RYAN 017735-1 STATE OF NEW YORK
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DOB EMPLOYEE SIGNATURES

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WELLS FARGO BE NUMBER
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SHEET TITLE
FIRST FLOOR FINISH & FURNITURE PLAN

SHEET NUMBER
A-103.00

SHT. OF –

ARCHITECT PROJECT NUMBER
2174

MODERN LOOK & FEEL - MARCH 2021
MASTER FINISH SCHEDULE

FF-1A	CARPET TILE 1	APPROVED STANDARD	OVERALL FLOORING FRONT-OF-HOUSE CARPET IN BACK OF HOUSE AREAS AND SAFE DEPOSIT VAULT	INTERFACE PRODUCT: STITCH COUNT COLOR: SLATE 105929	INTERFACE GREG HARRIS / 704-806-4239 GREG.HARRIS@INTERFACE.COM (SALES) TIRHAS (TITI) HAILU / 404-645-1123 TIRHAS.HAILU@INTERFACE.COM (DESIGNER)	QUICK SHIP 10 BUSINESS DAYS
FF-1B	CARPET TILE 2	APPROVED STANDARD	OVERALL FLOORING FRONT-OF-HOUSE CARPET IN BACK OF HOUSE AREAS AND SAFE DEPOSIT VAULT	INTERFACE PRODUCT: PLAIN STITCH COLOR: SLATE 105921	INTERFACE GREG HARRIS / 704-806-4239 GREG.HARRIS@INTERFACE.COM (SALES) TIRHAS (TITI) HAILU / 404-645-1123 TIRHAS.HAILU@INTERFACE.COM (DESIGNER)	QUICK SHIP 10 BUSINESS DAYS
FF-1C	CARPET TILE 3	APPROVED STANDARD	CARPET IN BACK OF HOUSE AREAS AND SAFE DEPOSIT VAULT	INTERFACE PRODUCT: STITCHERY COLOR: SLATE 105937	INTERFACE GREG HARRIS / 704-806-4239 GREG.HARRIS@INTERFACE.COM (SALES) TIRHAS (TITI) HAILU / 404-645-1123 TIRHAS.HAILU@INTERFACE.COM (DESIGNER)	5-6 WEEKS 5-6 DAYS TO WEST COAST FOR SHIPPING
FF-2	CARPET TILE ACCENT 1	APPROVED STANDARD	AREA RUG IN LOUNGE AREA ONLY	INTERFACE PRODUCT: CUSTOM FOR WELLS FARGO COLOR: 258270-286	INTERFACE GREG HARRIS / 704-806-4239 GREG.HARRIS@INTERFACE.COM (SALES) TIRHAS (TITI) HAILU / 404-645-1123 TIRHAS.HAILU@INTERFACE.COM (DESIGNER)	5-6 WEEKS 5-6 DAYS TO WEST COAST FOR SHIPPING
FF-3	CARPET TILE ACCENT 2	APPROVED STANDARD	AREA RUGS	INTERFACE PRODUCT: CUSTOM FOR WELLS FARGO COLOR: 258270-287	INTERFACE GREG HARRIS / 704-806-4239 GREG.HARRIS@INTERFACE.COM (SALES) TIRHAS (TITI) HAILU / 404-645-1123 TIRHAS.HAILU@INTERFACE.COM (DESIGNER)	5-6 WEEKS 5-6 DAYS TO WEST COAST FOR SHIPPING
FF-4	CARPET TILE	APPROVED ALTERNATE	APPLY ONLY WHEN NEEDED AS ALTERNATE OVERALL FLOORING FRONT-OF-HOUSE	TBD - TARKETT	LISA HOLTZ (PRICING & ORDERING) 919-250-0666 (EST) LISA.HOLTZ@LFISHMAN.COM FRANK WISEMAN 704-728-9552 (EST) FRANK.WISEMAN@TARKETT.COM	QUICK SHIP 10 BUSINESS DAYS
FF-5	WALK-OFF CARPET TILE	APPROVED STANDARD	WALK-OFF CARPET AT ENTRANCE AND/OR VESTIBULE INTERFACE TO SHIP CUT RED PIECES FOR INSTALL	INTERFACE PRODUCT: SUPER FLOR COLOR: SEVILLE PASSION 609191 I ANTHRACITE 603059	INTERFACE GREG HARRIS / 704-806-4239 GREG.HARRIS@INTERFACE.COM (SALES) TIRHAS (TITI) HAILU / 404-645-1123 TIRHAS.HAILU@INTERFACE.COM (DESIGNER)	5-8 WEEKS 5-6 DAYS TO WEST COAST FOR SHIPPING
FF-6	WALK-OFF CARPET TILE	APPROVED ALTERNATE	WALK-OFF CARPET AT ENTRANCE AND/OR VESTIBULE	MATSINC / GIBBONS GROUP PRODUCT: TRILOGY TILE SIZE: 19-11/16" x 19-11/16" PATTERN: IN-GROOVE 181 COLOR: OYSTER	TIM THEROUX 781-408-9500 (EST) TTHEROUX@MATSINC.COM	
FF-7	FLOOR TILE	APPROVED STANDARD	FRONT-OF-HOUSE FLOORING THROUGH BACK-OF-HOUSE CORRIDOR	DALTILE PRODUCT: DIGNITARY COLOR: LUMINARY WHITE DR07 SIZE: 12" X 24" TILE THICKNESS: 3/8" GROUT JOINT: 3/16"	JONATHAN STUDIOSO 704-516-6310 (EST) JONATHAN.STUDIOSO@DALTILE.COM	
FF-8	LUXURY VINYL TILE	APPROVED ALTERNATE	FRONT-OF-HOUSE FLOORING THROUGH BACK-OF-HOUSE CORRIDOR	INTERFACE PRODUCT: NATURAL WOODGRAINS SIZE: 9.8" X 39" PLANKS COLOR: BEECH A00204 INSTALL: SEE PLAN FOR DOUBLE HERRINGBONE DIRECTION & PATTERN	GREG HARRIS 704-806-4239 GREG.HARRIS@INTERFACE.COM	
FF-9	LUXURY VINYL TILE	APPROVED ALTERNATE	FRONT-OF-HOUSE FLOORING THROUGH BACK-OF-HOUSE CORRIDOR	TARKETT - TANDUS ID LATITUDE PRODUCT: PLWD LATITUDE WOOD SIZE: 6" x 24" PLANKS COLOR: WARM SILVER 4693 INSTALL: SEE F1.0 FOR DOUBLE HERRINGBONE DIRECTION & PATTERN	LISA HOLTZ (PRICING & ORDERING) 919-250-0666 (EST) LISA.HOLTZ@LFISHMAN.COM FRANK WISEMAN 704-728-9552 (EST) FRANK.WISEMAN@TARKETT.COM	QUICK SHIP 10 BUSINESS DAYS
FF-10	LUXURY VINYL TILE	APPROVED ALTERNATE	BACK OF HOUSE FLOORING (RESTROOMS, JANITOR ROOM)	INTERFACE PRODUCT: WALK THE AISLE LVT COLOR:COOL ASH A01303 SIZE:	GREG HARRIS 704-806-4239 GREG.HARRIS@INTERFACE.COM	
G-1	GROUT	APPROVED STANDARD	GROUT FOR CERAMIC TILE	MAPEI COLOR: 02 PEWTER OR LATICRETE COLOR: 24 NATURAL GREY	MAPEI CUSTOMER SERVICE 1-800-426-2734 OR LATICRETE CUSTOMER SERVICE 1-800-243-4788 X219	NOT APPLICABLE
WF-1	INTERIOR PAINT	APPROVED STANDARD	INTERIOR PAINT OVERALL FIELD PAINT WITHIN BRANCH TO BE APPLIED THROUGHOUT	BENJAMIN MOORE COLOR: CHANTILLY LACE / OC-65 FINISH: EGGSHELL (SEMI-GLOSS FOR DOOR FRAMES)	BENJAMIN MOORE CUSTOMER SERVICE 855-724-6802	NOT APPLICABLE
WF-2	INTERIOR PAINT	APPROVED STANDARD	TO BE USED FOR ALL HARD WALL CEILINGS; INCLUDING RESTROOMS, SOFFITS, AND HARD WALL CEILINGS WITHIN ENTRY VESTIBULE	BENJAMIN MOORE COLOR: DECORATOR'S WHITE / CC-20 OR PM-3 FINISH: EGGSHELL	BENJAMIN MOORE CUSTOMER SERVICE 855-724-6802	NOT APPLICABLE
WF-3	INTERIOR PAINT	APPROVED ALTERNATE	INTERIOR PAINT OVERALL FIELD PAINT WITHIN BRANCH TO BE APPLIED THROUGHOUT	SHERWIN WILLIAMS COLOR: PURE WHITE 7005 FINISH: EGGSHELL (SEMI-GLOSS FOR DOOR FRAMES)	SHERWIN WILLIAMS CUSTOMER SERVICE	NOT APPLICABLE
WF-4	INTERIOR PAINT	APPROVED ALTERNATE	TO BE USED FOR ALL HARD WALL CEILINGS; INCLUDING RESTROOMS, SOFFITS, AND HARD WALL CEILINGS WITHIN ENTRY VESTIBULE	SHERWIN WILLIAMS COLOR: CEILING BRIGHT WHITE 7007 FINISH: EGGSHELL (SEMI-GLOSS FOR DOOR FRAMES)	SHERWIN WILLIAMS CUSTOMER SERVICE	NOT APPLICABLE
WF-5	TEXTURE ALTERNATE WALLCOVERING	APPROVED ALTERNATE	ACCENT WALLCOVERING TO BE APPLIED TO FIXTURE TELLER BACK WALL, HIGH TRAFFIC COLUMNS, AND CUSTOMER LOUNGE	CARNEGIE PRODUCT: XOREL PATTERN/COLOR: FLUX 6557 W89	ALEXA TROTTA 516-307-3744 (EST) ATROTTA@CARNEGIEFABRICS.COM	IF IN STOCK AT NY WAREHSE; LEAD TIME IS 3-4 DAYS
WF-6	TEXTURE WALLCOVERING	APPROVED STANDARD	ACCENT WALLCOVERING TO BE APPLIED TO FIXTURE TELLER BACK WALL, HIGH TRAFFIC COLUMNS, AND CUSTOMER LOUNGE	CARNEGIE PRODUCT: XOREL PATTERN/COLOR: FLUX 6557 W94	ALEXA TROTTA 516-307-3744 (EST) ATROTTA@CARNEGIEFABRICS.COM	IF IN STOCK AT NY WAREHSE; LEAD TIME IS 3-4 DAYS
WF-7	BRAND WALLCOVERING	APPROVED STANDARD	HELLO WALL	CARNEGIE - XOREL PRODUCT: SAHARA MATTE PATTERN: 18653W-602 (BACKED)	ALEXA TROTTA 516-678-6770 (EST) ATROTTA@CARNEGIEFABRICS.COM	
WF-8	ACCENT GRAY 1 ACCENT WALLCOVERING	APPROVED STANDARD	ACCENT WALLCOVERING CONFERENCE ROOM	CARNEGIE PRODUCT: 100% IFR XOREL PATTERN: TRACE 6039 COLOR: 3	ALEXA TROTTA 516-307-3744 (EST) ATROTTA@CARNEGIEFABRICS.COM	IF IN STOCK AT NY WAREHSE; LEAD TIME IS 3-4 DAYS
WF-9	ACCENT GRAY 1 ALTERNATE ACCENT WALLCOVERING	APPROVED ALTERNATE	ACCENT WALLCOVERING CONFERENCE ROOM	CARNEGIE PRODUCT: 100% IFR XOREL PATTERN: HAZE 6041 COLOR: 12	ALEXA TROTTA 516-307-3744 (EST) ATROTTA@CARNEGIEFABRICS.COM	IF IN STOCK AT NY WAREHSE; LEAD TIME IS 3-4 DAYS
WF-10	ACCENT GRAY 2 WALLCOVERING	APPROVED STANDARD	ACCENT WALLCOVERING TO BE APPLIED TO 1 WALL BEHIND PLATFORM	CARNEGIE PRODUCT: XOREL PATTERN: TANGLE 6213W COLOR: 10	ALEXA TROTTA 516-307-3744 (EST) ATROTTA@CARNEGIEFABRICS.COM	IF IN STOCK AT NY WAREHSE; LEAD TIME IS 3-4 DAYS
WF-11	ACCENT GRAY 2 ALTERNATE WALLCOVERING	APPROVED ALTERNATE	ACCENT WALLCOVERING TO BE APPLIED TO 1 WALL BEHIND PLATFORM	CARNEGIE PRODUCT: TPO WALLCOVERING PATTERN: META 8036 COLOR: 10	ALEXA TROTTA 516-307-3744 (EST) ATROTTA@CARNEGIEFABRICS.COM	IF IN STOCK AT NY WAREHSE; LEAD TIME IS 3-4 DAYS
WF-12	FIBERGLASS REINFORCED PANEL (FRP)	APPROVED STANDARD WITH LVT	FRP TO BE USED WITH LVT ON RESTROOMS & WALLS IN JANITOR CLOSET. INSTALL FROM FINISHED FLOOR TO UNDERNEATH SIDE OF GRID. INSTALL 5/8" WATER RESISTANT GYPSUM WALL BOARD BEHIND FRP PANELS.	MARLITE / INDURO FRP PANEL COLOR: FASHION GREY D381 TEXTURE: FLAT		
WF-14	FIBERGLASS REINFORCED PANEL (FRP)	APPROVED ALTERNATE	FRP TO BE USED WITH LVT ON RESTROOMS & WALLS IN JANITOR CLOSET. INSTALL FROM FINISHED FLOOR TO UNDERNEATH SIDE OF GRID. INSTALL 5/8" WATER RESISTANT GYPSUM WALL BOARD BEHIND FRP PANELS.	MARLITE / INDURO FRP PANEL COLOR: PEWTER MESH 4878 TEXTURE: FLAT		
CG-1	CORNER GUARD	APPROVED STANDARD	CORNER GUARDS FOR WALLS IN HIGH TRAFFIC AREAS	KOROGUARD – LEXAN CORNER GUARD PRODUCT NUMBER: CCWF-1 COLOR: CLEAR / 4'-0" LENGTH WING SIZE: 1-1/8" AND 90 DEGREE ANGLE	KOROSEAL INTERIOR PRODUCTS ORDERING: 1-866-628-2280	

B-1	RUBBER WALL BASE	APPROVED STANDARD	ALL AREAS (FRONT OF HOUSE AND BACK OF HOUSE)	JOHNSONITE PRODUCT: MONUMENT COLOR: GREY HAZE 24 / HEIGHT: 4" REFERENCE CONTRACT NO: 54238	LISA HOLTZ (PRICING & ORDERING) 919-250-0666 (EST) LISA.HOLTZ@LFISHMAN.COM FRANK WISEMAN 704-728-9552 (EST) FRANK.WISEMAN@TARKETT.COM	QUICK SHIP 10 BUSINESS DAYS
B-2	RUBBER WALL BASE	APPROVED ALTERNATE	ONLY USE IF SITE NEEDS DIFFERENT SIZE	HEIGHT	SUPPLY ISSUES ALL AREAS	JOHNSONITE PRODUCT: MANDALAY COLOR: GREY HAZE 24 / HEIGHT: 4 1/4" OR 6" REFERENCE CONTRACT NO: 54238	LISA HOLTZ (PRICING & ORDERING) 919-250-0666 (EST) LISA.HOLTZ@LFISHMAN.COM FRANK WISEMAN 704-728-9552 (EST) FRANK.WISEMAN@TARKETT.COM	QUICK SHIP 10 BUSINESS DAYS
B-3	RUBBER WALL BASE	APPROVED ALTERNATE FROM ANOTHER MANUFACT.	IF SITE REQUIRES ANOTHER MANUFACTURER FOR WALL BASE	ROPPE PRODUCT: CANDID, 4" COLOR: SMOKE		
B-4	RUBBER WALL BASE	APPROVED ALTERNATE FROM ANOTHER MANUFACT.	IF SITE REQUIRES ANOTHER MANUFACTURER FOR WALL BASE	ROPPE PRODUCT: SIMPLICITY, 4" COLOR: SMOKE		
B-5	RUBBER WALL BASE	APPROVED ALTERNATE FROM ANOTHER MANUFACT.	IF SITE REQUIRES ANOTHER MANUFACTURER FOR WALL BASE	ROPPE PRODUCT: VERTICAL, 4 1/2" COLOR: SMOKE		
MW-1	PLASTIC LAMINATE VERTICAL SURFACE	APPROVED STANDARD	TELLER LINE, SERVICE MANAGER, BREAK ROOM, BACK-OF-HOUSE MILLWORK	WILSONART COLOR: BEIGEWOOD / 7850-60 MATTE FINISH	RICHELLE SIGAFOOS 215-219-1133 (EST) SIGAFOR@WILSONART.COM	7 DAYS
MW-1	PLASTIC LAMINATE VERTICAL SURFACE	APPROVED ALTERNATE	TELLER LINE, SERVICE MANAGER, BREAK ROOM, BACK-OF-HOUSE MILLWORK	DI NOC COLOR: FW - 336 LIGHT WOOD	BETHANY GRAAFSMA 704-219-9208 MOBILE BGRAAFSMA@DESIGNTEX.COM	
MW-2	PLASTIC LAMINATE HORIZONTAL SURFACE	APPROVED STANDARD	BACK-OF-HOUSE BREAK ROOM AND TELLER WORK ROOM	WILSONART COLOR: WHITE CARRARA / 4924-38	RICHELLE SIGAFOOS 215-219-1133 (EST) SIGAFOR@WILSONART.COM	7 DAYS
MW-3	METAL' PLASTIC LAMINATE TOE KICK	APPROVED STANDARD	TOE KICK FOR CUSTOMER FACING MILLWORK (TELLER LINE)	WILSONART/FORMICA DECOMETAL SATIN BRUSHED NATURAL ALUMINUM / 6257	RICHELLE SIGAFOOS 215-219-1133 (EST) SIGAFOR@WILSONART.COM	
MW-4	SOLID SURFACE HORIZONTAL SURFACE	APPROVED STANDARD	SOLID SURFACE HORIZONTAL SURFACE FOR CUSTOMER FACING MILLWORK- TELLER LINE	VIATERA BY LG HAUSYS COLOR: ENCORE POLISHED THICKNESS: 3CM		2-7 DAYS - STOCKED IN NORTH AMERICA
MW-4	SOLID SURFACE	APPROVED PENDING PILOT	CUSTOMER FACING HORIZONTAL SURFACE OF MILLWORK	CAMBRIA PRODUCT: BRIDPORT COLOR:: 10471706		
MW-5	MELAMINE	APPROVED STANDARD	INTERIOR OF MILLWORK	GRAY MELAMINE FOR UNDER SURFACES	WHITE ABOVE SURFACES	PROVIDED BY MILLWORK VENDOR	
CF-1	CEILING FINISH ACOUSTICAL CEILING TILE		EXISTING CEILING GRID & TILE TO REMAIN THROUGHOUT.			
CF-2	PENDANT LIGHT FIXTURE WITH ACOUSTICAL PROPERTIES		SUSPENDED AT SAME HEIGHT IN LOUNGE	LIGHTART ACOUSTIC EMPIRE SHADE COLOR: NICKEL OR ARMOR WITH USE DIFFERENT SIZES SHADES	LIGHTART RENEE SILVERSTEIN 2TRINE INNER SHADE 773-315-7556 RENEE.SILVERSTEIN@LIGHTART.COM	6 WEEK LEAD TIME
CF-3	PENDANT LIGHT FIXTURE WITH ACOUSTICAL PROPERTIES		SUSPENDED IN SEMI-PRIVATE CONSULT SPACES	LIGHTART ACOUSTIC DRUMS COLOR::: ZINC OR NICKEL	LIGHTART RENEE SILVERSTEIN 773-315-7556 RENEE.SILVERSTEIN@LIGHTART.COM	6 WEEK LEAD TIME
FFT-1	FLOOR FINISH TRANSITION STRIP	APPROVED STANDARD	FROM TILE TO CARPET	GENOTEK 1-1/32" EDGE DIVIDER #311.61 ALUMINUM SATIN FINISH	GENOTEK CHARLENE@GENOTEK.COM 1-800-741-8936 (PST)	
FFT-2	FLOOR FINISH TRANSITION STRIP	APPROVED STANDARD	FROM CARPET TO VCT OR FROM TILE TO VCT	GENOTEK 5/16" EDGE DIVIDER #530.61 ALUMINUM SATIN FINISH	GENOTEK CHARLENE@GENOTEK.COM 1-800-741-8936 (PST)	
FFT-3	WALL FINISH TRANSITION STRIP	APPROVED STANDARD	FROM RESTROOM CERAMIC WALL TILE TO DRYWALL	SCHIENE SATIN ANODIZED ALUMINUM, AE100	SCHLUTER / 1-800-472-4588 INFO@SCHLUTER.COM	
FFT-4	WALL FINISH TRANSITION STRIP	APPROVED STANDARD	USED AS NEEDED TO TERMINATE WALLCOVERING AT FIXTURE TELLER BACK WALL, WELCOME WALL, AND MURAL	CR LAURENCE (OR SIMILAR) CRL SATIN ANODIZED ALUMINUM (D18A) SIZE: 1/8" J CHANNEL	CR LAURENCE CRL@CRLAURENCE.COM 1-800-421-6144 (PST)	
MSC-1	WINDOW SHADE TREATMENT	APPROVED STANDARD	ROLLER SHADES ON EXTERIOR WINDOWS WITHIN LOBBY, CONFERENCE ROOM, AND OPEN PLATFORM AREA AS REQUIRED FOR GLARE AND SUN CONTROL. CPG CONSTRUCTION MANAGER TO DETERMINE NEED BASED ON ASSESSMENT DURING CONSTRUCTION PHASE	HUNTER DOUGLAS ARCHITECTURAL PATTERN: GREEN SCREEN REVIVE HD25018; 1% OPENNESS COLOR: STONE FASCIA FINISH: CLEAR ANODIZED	USE LOCAL DISTRIBUTOR	
MSC-2	QUEUE LINE & INLINE CHECK TABLE	APPROVED STANDARD	QUEUE LINE FREESTANDING STANCHIONS FOR QUEUE LINE AND INLINE CHECK TABLE IS A WRITING SURFACE AND PEN WELL WITHIN MOVEABLE QUEUE LINE STANCHIONS A MINIMUM OF TWO CHECK TABLES ARE REQUIRED. ONE TO SUPPORT FORWARD APPROACH ADA, 30" AFF. ONE INSTALLED AT THE HIGHEST HEIGHT SUPPORTED BY STANCHIONS.	LAVI INDUSTRIES BELTRAC 3100 SERIES, SATIN ALUMINUM POST, GRAY TAPE, 14.5" SLIM BASE AND INLINE CHECK TABLE – DARK GRAY	CS@LAVI.COM (ORDERING) JACKIE LOPEZ 661-219-3124 (PST) JACKIEL@LAVI.COM	7 BUSINESS DAYS
MSC-3	LOBBY TELLER LINE AND DRIVE-UP TELLER LINE FORMS RACK AND WORK BIN	APPROVED STANDARD	PROVIDE ONE (1) FORMS RACK AND ONE (1) WORK BIN FOR EACH LOBBY TELLER & DRIVE-UP TELLER	SHEET WITHIN THE CONSTRUCTION DOCUMENTS	BY MILLWORKER OR MAY BE ORDERED FROM: BILL CLARK 925-313-5830 (PST) BILL@EMMINGER.COM	
MSC-4	PARITITIONS	APPROVED ALTERNATE PENDING PILOT	APPLY FOR USE IN MUILT OCCUPANCY RESTROOMS	BOBRICK DURALINE SERIES (CLASS A) FLOOR ANCHORED 1181 (STANDARD HEIGHT) STANDARD - REDUCED GAP FINISH: PEWTER MESH 4878-60	ADD CONTACT	

MODERN LOOK & FEEL
ACOUSTIC PANELS

AP-1	ACOUSTIC WALL PANELS	APPROVED STANDARD	ACCENT PANELS AT OPEN AREAS (REFER TO ELEVATIONS)	OSP PRODUCT: SIOPI PANELS COLOR: GREY PATTERN: 2B		
AP-2	ACOUSTIC WALL PANELS	APPROVED STANDARD	ACCENT PANELS AT CONFERENCE ROOM (REFER TO ELEVATIONS)	OSP PRODUCT: SIOPI PANELS COLOR: WHITE PATTERN: 10H		

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1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
0600354910

REGISTERED ARCHITECT
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017735-1
STATE OF NEW YORK

N.Y. LIC. #: 017735-1 SEAL

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DOB EMPLOYEE SIGNATURES

REVISIONS

NO.	DATE	DESCRIPTION	BY

DATE ISSUED: 8.26.21
ISSUED FOR: BID & PERMIT SET
REVIEWED BY: W.R.R.
DRAWN BY: J.M.N.

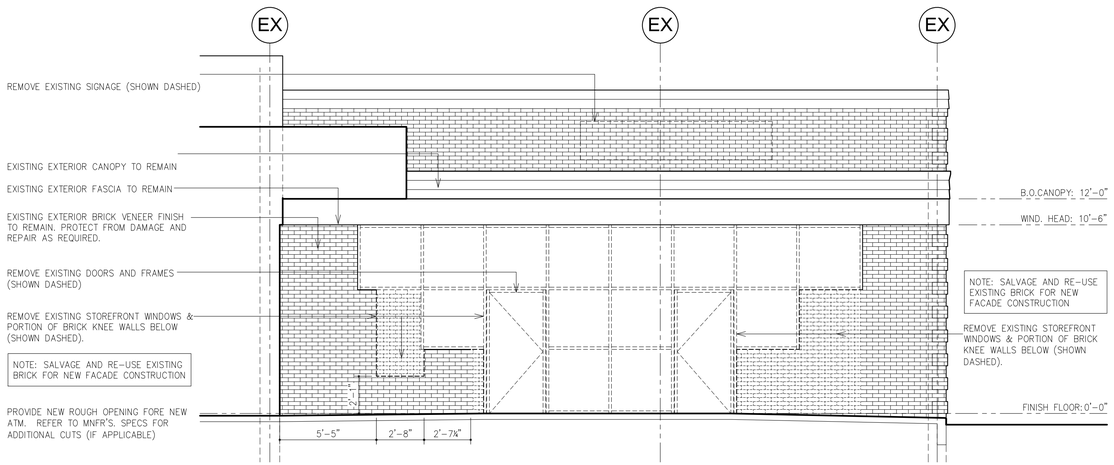
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SHEET TITLE
FINISH SCHIEDULE

SHEET NUMBER
A-104.00

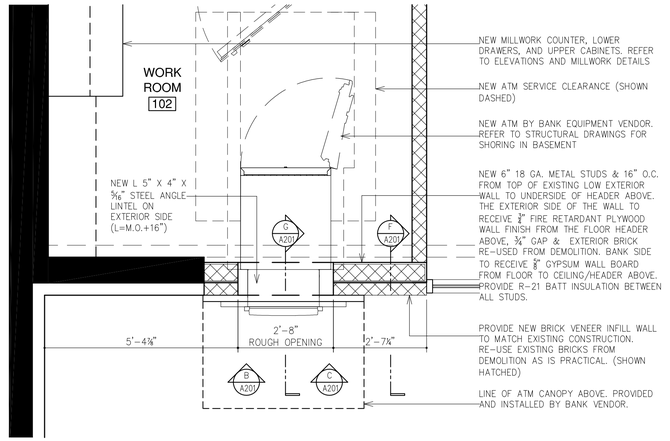
SHT. OF –

ARCHITECT PROJECT NUMBER
2174



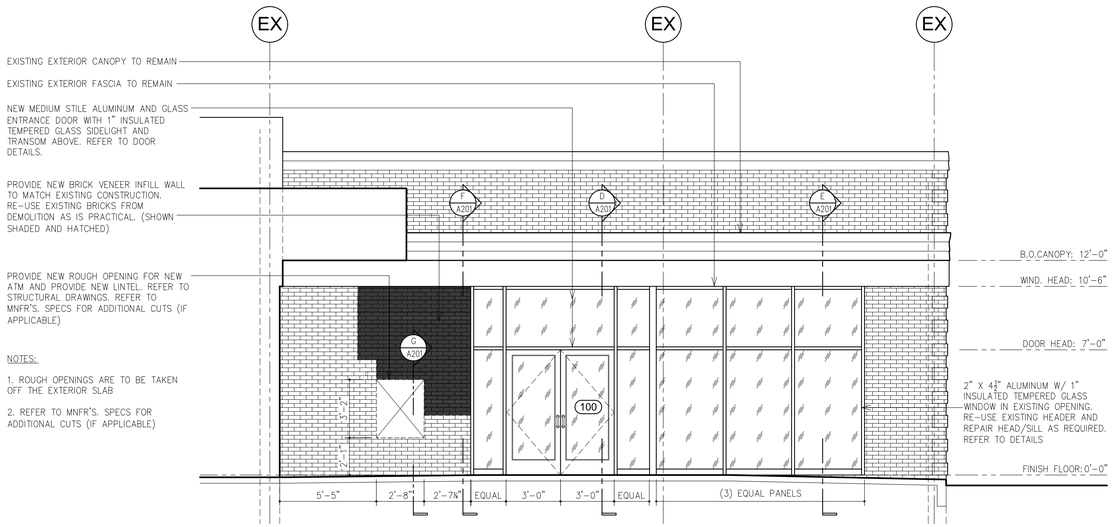
A SOUTH EXTERIOR DEMOLITION ELEVATION

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



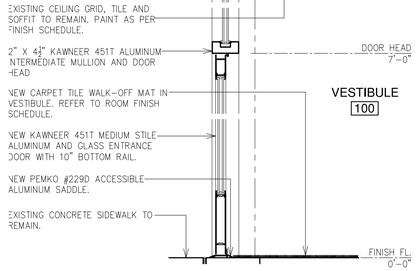
1 ENLARGED ATM OPENING PLAN

SCALE: 1/2"=1'-0"



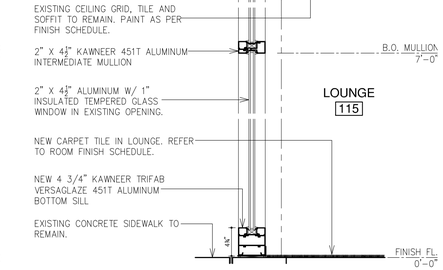
B SOUTH EXTERIOR CONSTRUCTION ELEVATION

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



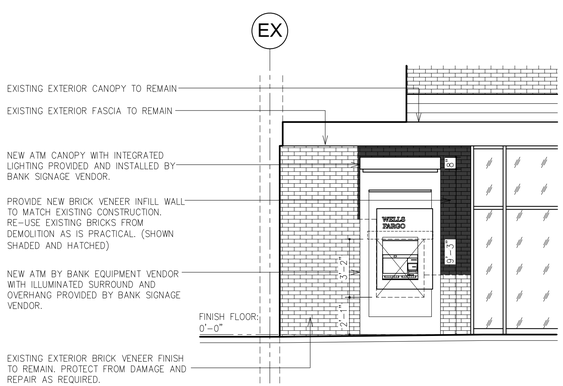
D SECTION @ ENTRANCE

SCALE: 1"=1'-0"



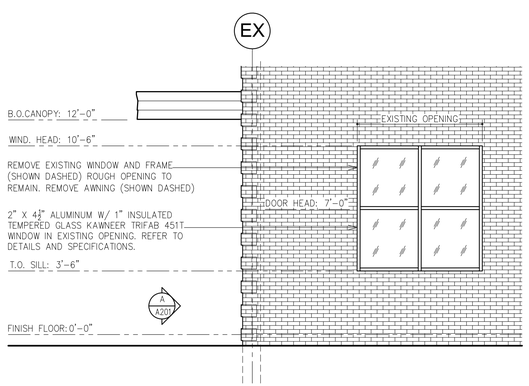
E SECTION @ STOREFRONT

SCALE: 1/2"=1'-0"



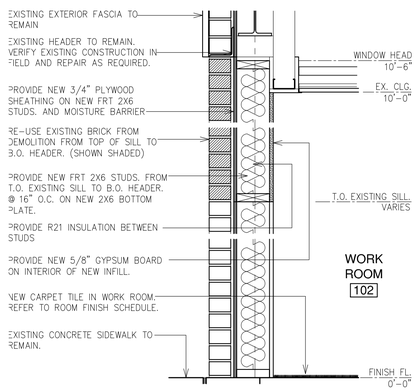
C ATM SURROUND ELEVATION

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



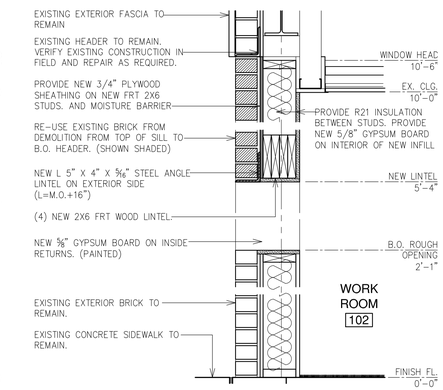
H EXTERIOR WINDOW ELEVATION

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



F SECTION @ BRICK INFILL

SCALE: 1/2"=1'-0"



G SECTION @ ATM R.O.

SCALE: 1/2"=1'-0"

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LONGO | ARCHITECTS & ASSOCIATES LLC
06003549100
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-5000
FAX (908) 464-3123
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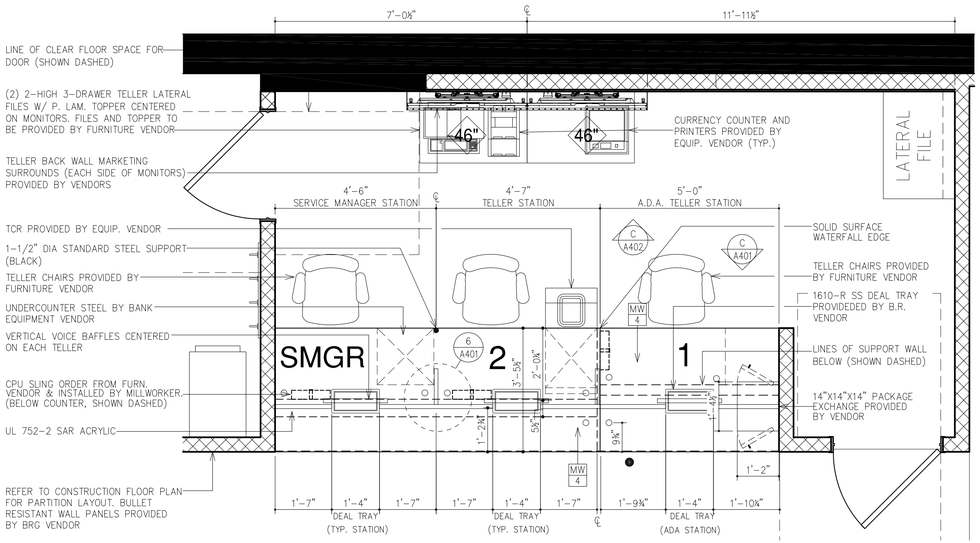
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SHEET TITLE
EXTERIOR ELEVATIONS AND DETAILS

SHEET NUMBER
A-201.00

SHT. OF –

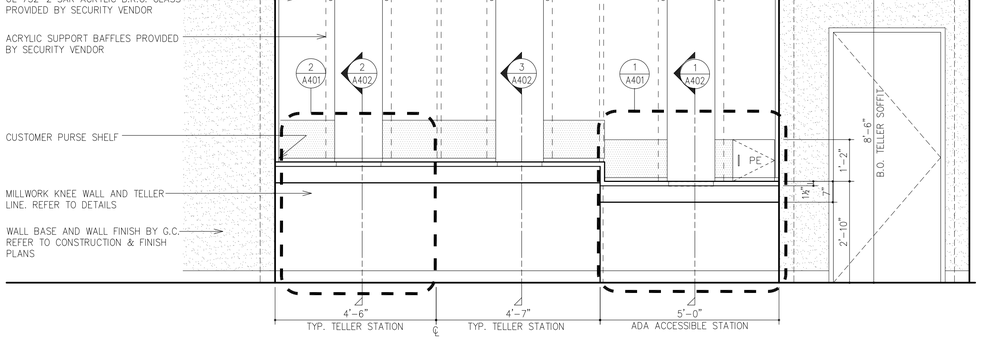
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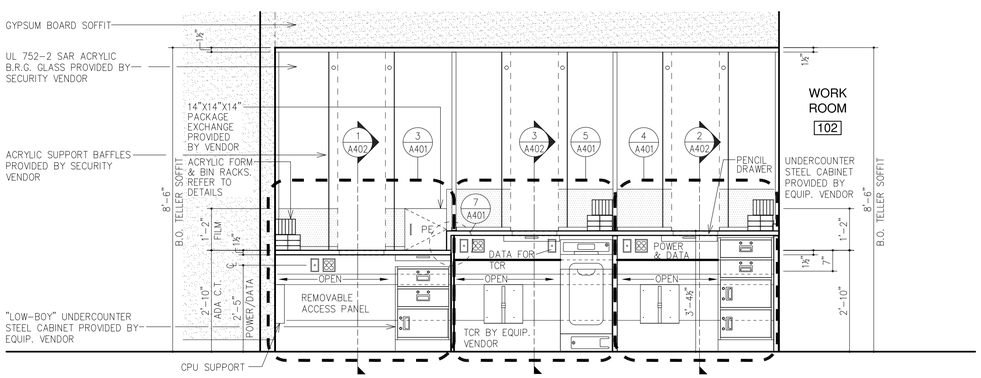
NOTE:
CUSTOMER SIDE GROMMET TO BE LOCATED ON THE EMPLOYEE'S MONITOR SIDE & CLOSE TO MAIN ENTRANCE

NOTE: BANDIT BARRIER SHOWN ON DRAWINGS IS FOR REFERENCE PURPOSES ONLY. PLEASE REFER TO THE BANDIT BARRIER SHOP DRAWINGS FOR CLARIFICATION AND MORE INFORMATION. MILLWORKER AND BANDIT BARRIER VENDOR SHALL COORDINATE EFFORTS.

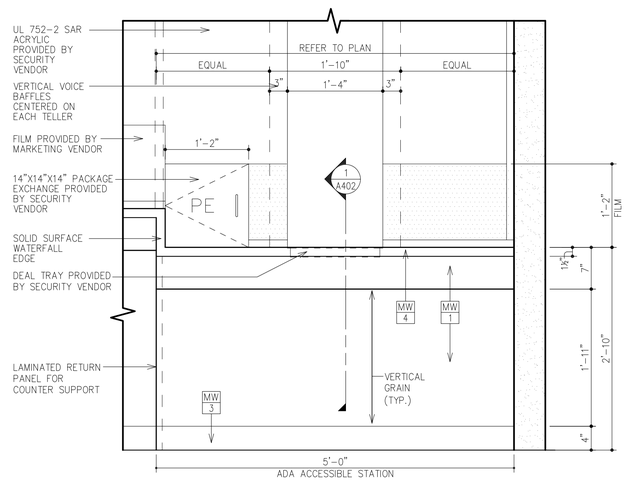
A ENLARGED PLAN AT TELLER LINE
SCALE: 1/2"=1'-0"



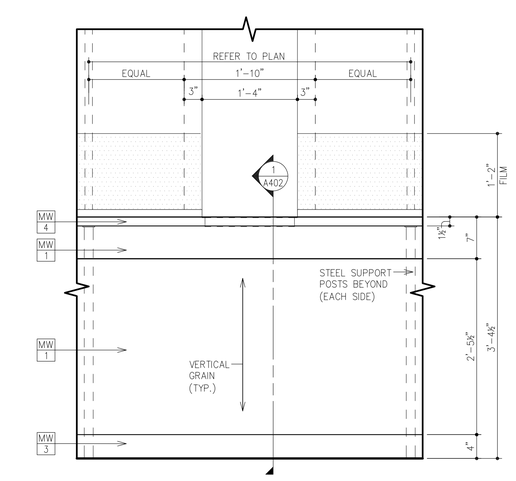
B ELEVATION AT TELLER LINE (VIEW FROM CUSTOMER SIDE)
SCALE: 1/2"=1'-0"



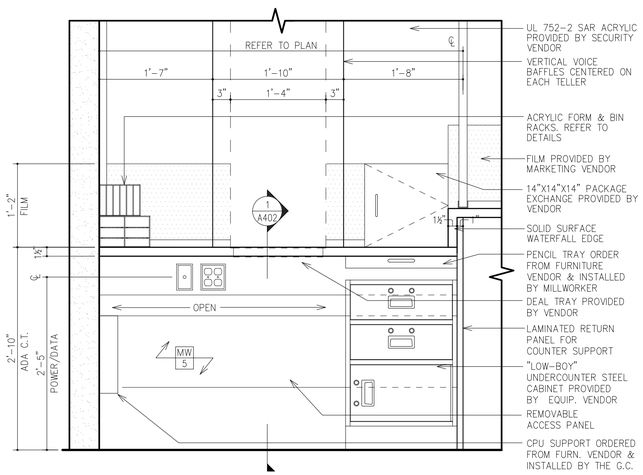
C ELEVATION AT TELLER LINE (VIEW FROM EMPLOYEE SIDE)
SCALE: 1/2"=1'-0"



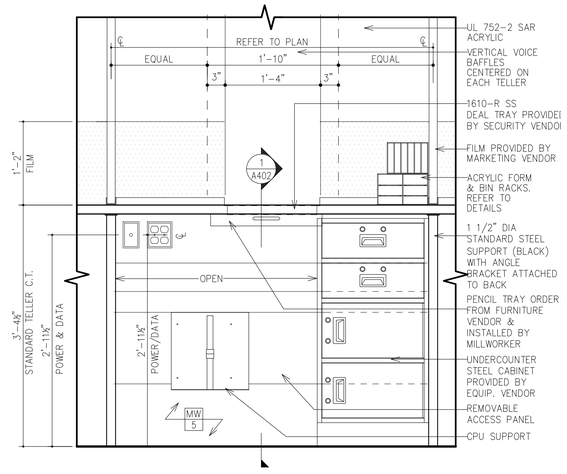
1 FRONT ELEVATION @ ACCESSIBLE TELLER
SCALE: 1"=1'-0"



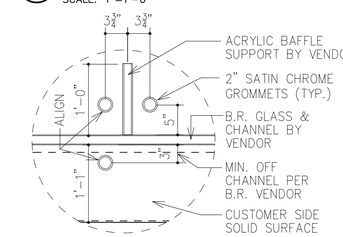
2 FRONT ELEVATION @ TYP. TELLER
SCALE: 1"=1'-0"



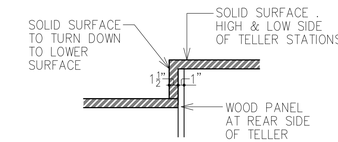
3 REAR ELEVATION AT ACCESSIBLE TELLER
SCALE: 1"=1'-0"



4 ELEV. AT TYP.TELLER W/ U.C. STEEL
SCALE: 1"=1'-0"

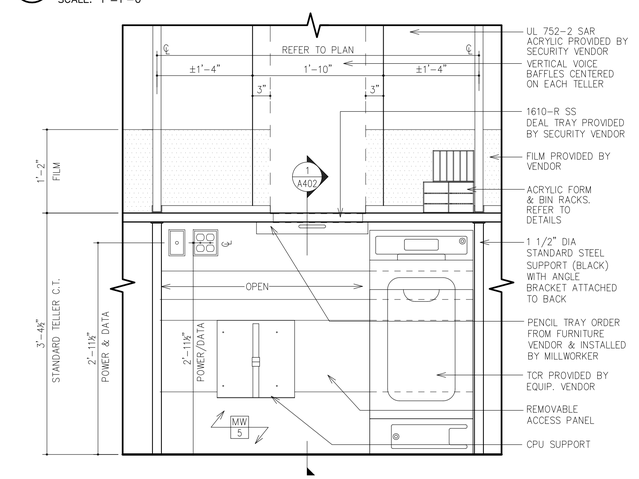


6 ENLARGED GROMMET DETAIL
SCALE: 1"=1'-0"



ENLARGED WATERFALL EDGE ELEV. (EMPLOYEE SIDE) 7
SCALE: 1"=1'-0"

5 REAR ELEV. AT TYP.TELLER W/ T.C.R.
SCALE: 1"=1'-0"



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1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO ARCHITECTS & ASSOCIATES LLC
0600354910
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-5000
FAX (908) 464-3123
WILLIAM R. RYAN REGISTERED ARCHITECT 017735-1 STATE OF NEW YORK
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DOB EMPLOYEE SIGNATURES

REVISIONS

NO.	DATE	DESCRIPTION	BY

DATE ISSUED:	8.26.21
ISSUED FOR:	BID & PERMIT SET
REVIEWED BY:	W.R.R.
DRAWN BY:	J.M.N.

WELLS FARGO BE NUMBER
111700

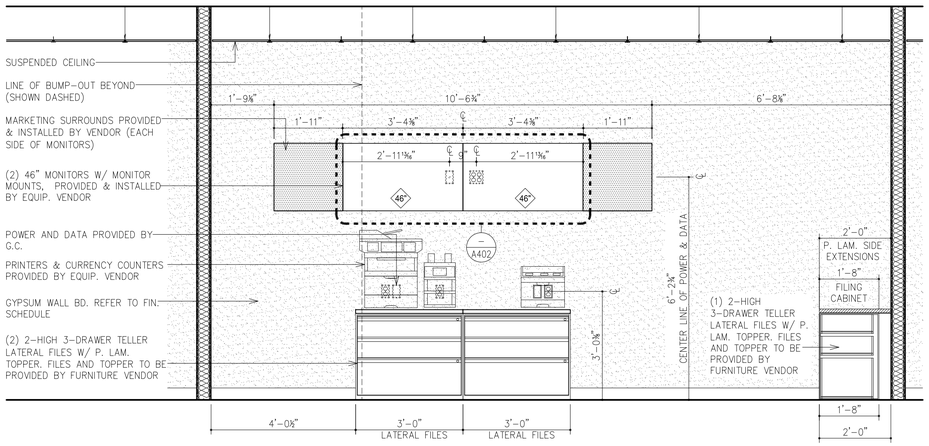
SHEET TITLE
ENLARGED TELLER LINE PLAN & ELEVATIONS

SHEET NUMBER
A-401.00

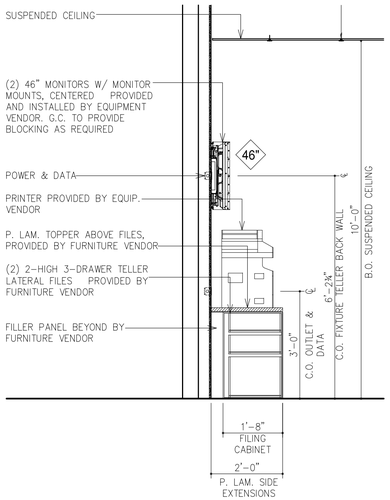
SHT. OF –

ARCHITECT PROJECT NUMBER
2174

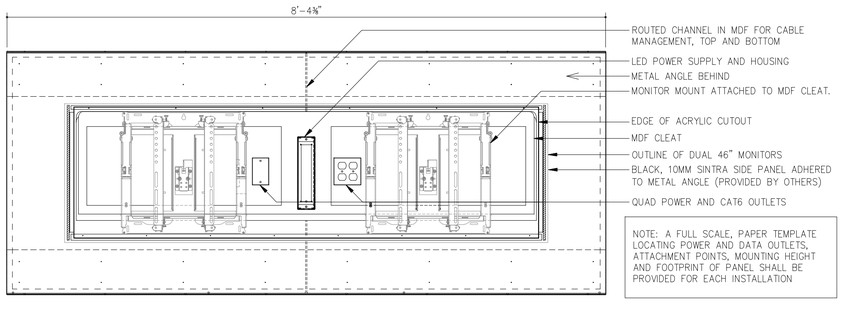
DOB APPROVAL STAMP



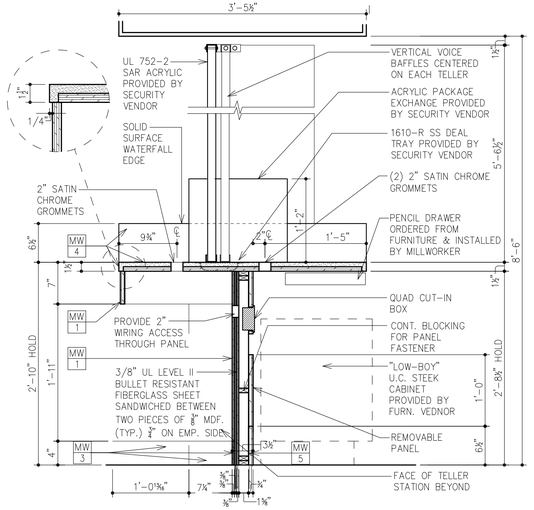
A ELEVATION AT TELLER POINT DIGITAL
SCALE: 1/2"=1'-0"



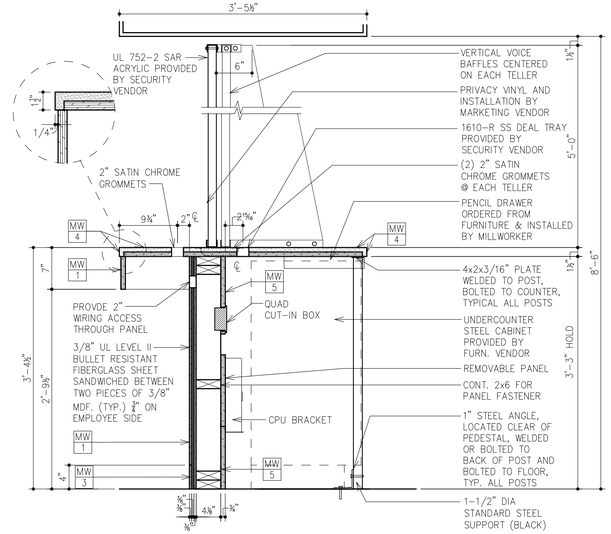
B SECTION AT TELLER POINT DIGITAL
SCALE: 1/2"=1'-0"



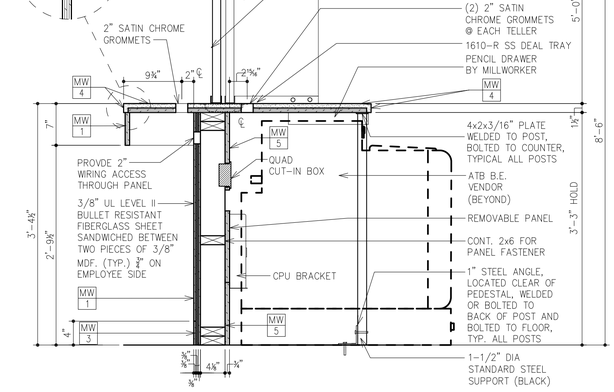
C ENLARGED FIXTURE TELLER BACK WALL ELEVATION
SCALE: 1"=1'-0"



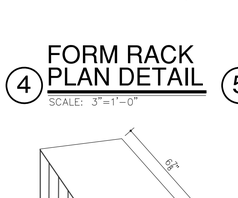
1 ACCESSIBLE TELLER W/ U.C. STEEL
SCALE: 1"=1'-0"



2 TYPICAL TELLER W/ U.C. STEEL
SCALE: 1"=1'-0"



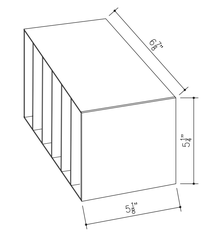
3 REAR ELEVATION AT ACCESSIBLE TELLER
SCALE: 1"=1'-0"



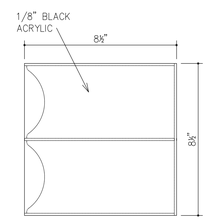
4 FORM RACK PLAN DETAIL
SCALE: 3"=1'-0"

5 FORM RACK ELEVATION
SCALE: 3"=1'-0"

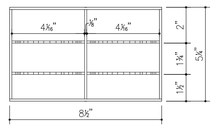
6 FORM RACK SIDE ELEV.
SCALE: 3"=1'-0"



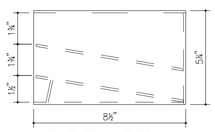
7 FORM RACK PERSPECTIVE
SCALE: 3"=1'-0"



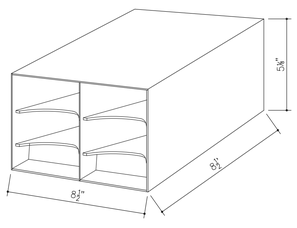
8 WORK BIN PLAN DETAIL
SCALE: 3"=1'-0"



9 WORK BIN ELEVATION
SCALE: 3"=1'-0"



10 WORK BIN SIDE ELEV. &
SCALE: 3"=1'-0"



11 WORK BIN PERSPECTIVE
SCALE: 3"=1'-0"

NOTE:
G.C. PROVIDES:
- WORK BINS AND RACKS
- PENCIL DRAWERS
- CPU SLINGS

WORK BINS & RACKS CAN BE ORDER OR FABRICATED. REFER TO FINISH SCHEDULE IF ORDERING

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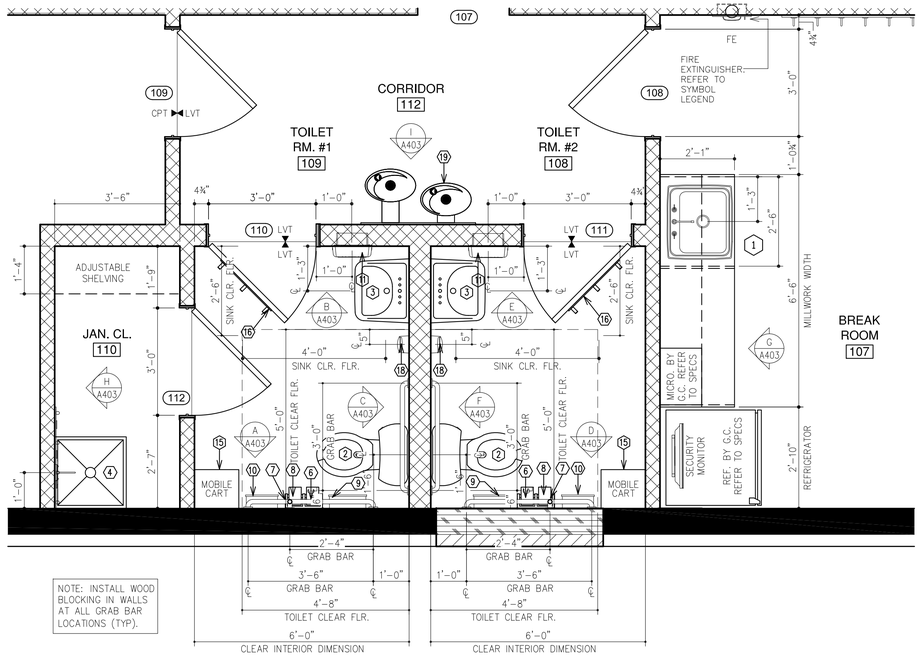
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ENLARGED TELLER LINE PLAN & ELEVATIONS

SHEET NUMBER
A-402.00

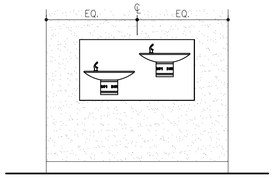
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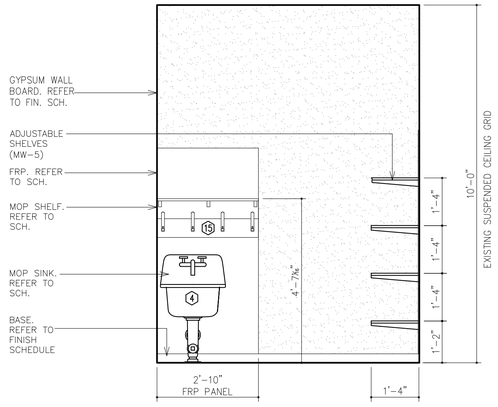
1 ENLARGED PLAN AT TOILET RMS, JANITOR CLOSET & BREAK RM.

SCALE: 1/2"=1'-0"



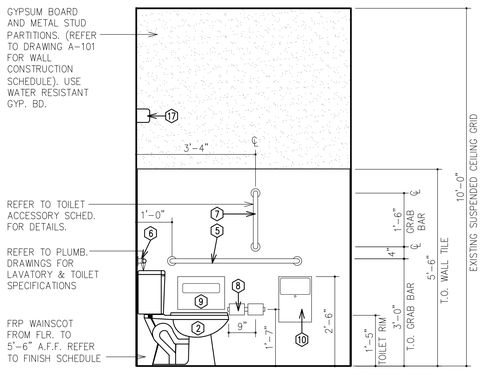
I A.D.A. WATER FOUNTAIN ELEVATION

SCALE: 1/2"=1'-0"



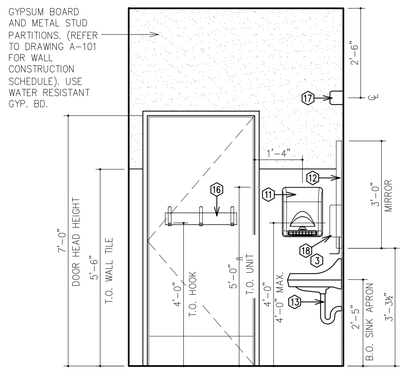
H JANITOR CLOSET ELEVATION

SCALE: 1/2"=1'-0"



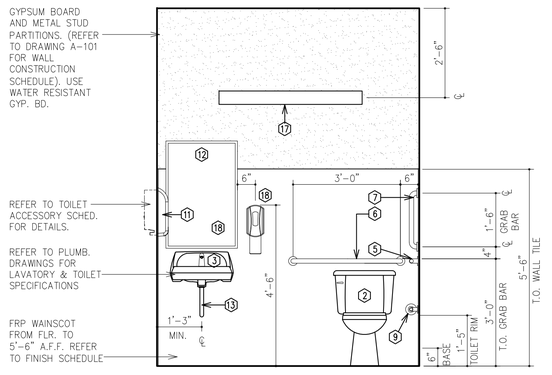
A TOILET ROOM ELEVATION

SCALE: 1/2"=1'-0"



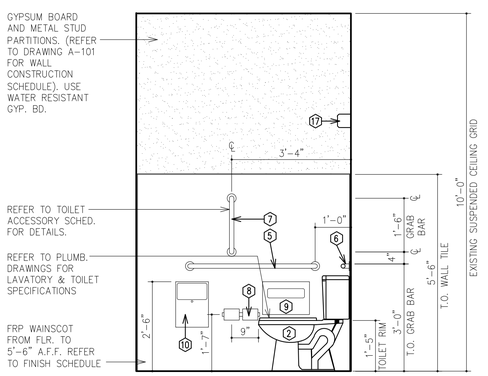
B TOILET ROOM ELEVATION

SCALE: 1/2"=1'-0"



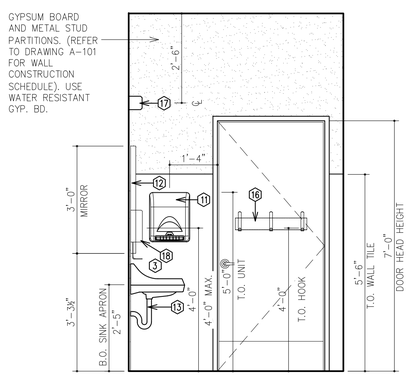
C TOILET ROOM ELEVATION

SCALE: 1/2"=1'-0"



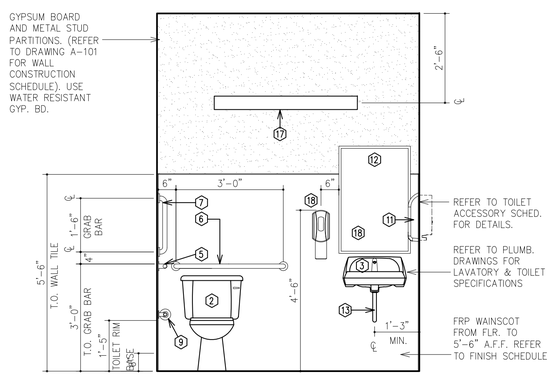
D TOILET ROOM ELEVATION

SCALE: 1/2"=1'-0"



E TOILET ROOM ELEVATION

SCALE: 1/2"=1'-0"



F TOILET ROOM ELEVATION

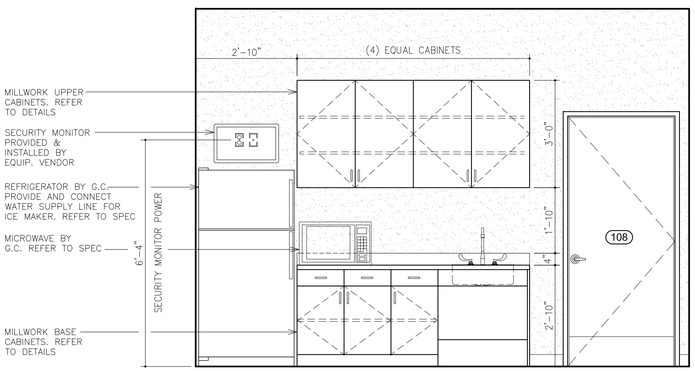
SCALE: 1/2"=1'-0"

PLUMBING & ACCESSORIES SCHEDULE

SYMBOL	ITEM TYPE	ITEM NAME, MODEL & MANUFACTURER	ITEM MATERIAL	VALVE/ FAUCET	REMARKS:
1	ACCESSIBLE KITCHEN SINK	REFER TO MEP PLUMBING SHEETS FOR FIXTURE SELECTION & SPECIFICATIONS	STAINLESS STEEL	REFER TO MEP PLUMBING SHEETS	
2	ACCESSIBLE TOILET	REFER TO MEP PLUMBING SHEETS FOR FIXTURE SELECTION & SPECIFICATIONS	VITREOUS CHINA	REFER TO MEP PLUMBING SHEETS	
3	ACCESSIBLE WALL-HUNG LAVATORY	REFER TO MEP PLUMBING SHEETS FOR FIXTURE SELECTION & SPECIFICATIONS	VITREOUS CHINA	REFER TO MEP PLUMBING SHEETS	
4	JANITOR MOP BASIN	REFER TO MEP PLUMBING SHEETS FOR FIXTURE SELECTION & SPECIFICATIONS	FIBERGLASS OR OTHER	REFER TO MEP PLUMBING SHEETS	

RESTROOM ACCESSORIES & LIGHT FIXTURE

SYMBOL	ITEM TYPE	ITEM MATERIAL	MANUFACTURERS: BOBRICK/ G.P./ GOJO	REMARKS:
5	1-1/2" GRAB BAR SERIES W/ SNAP-ON FLANGE COVERS (LENGTH = 42")	STAINLESS STEEL	B-6806-42	
6	1-1/2" GRAB BAR SERIES W/ SNAP-ON FLANGE COVERS (LENGTH = 36")	STAINLESS STEEL	B-6806-36	
7	1-1/2" GRAB BAR SERIES W/ SNAP-ON FLANGE COVERS (LENGTH = 18")	STAINLESS STEEL	B-6806-18	
8	TWIN TOILET TISSUE DISPENSER (SURFACE MOUNTED)	STAINLESS STEEL	B-274 OPTION #1 OR B-2888	
9	TOILET SEAT COVER DISPENSER (SURFACE MOUNTED)	STAINLESS STEEL	B-221	
10	SANITARY NAPKIN DISPOSAL (SURFACE MOUNTED)	STAINLESS STEEL	B-254	
11	RECESSED AUTOMATIC PAPER TOWEL DISPENSER RETRO-FIT SURFACE MOUNT	STAINLESS STEEL	GEORGIA PACIFIC: MOD. # 59466 RETRO-FITS: 59466A W/ SURFACE MOUNT COLLAR 59459	
12	CHANNEL FRAME MIRROR W/ MOUNTING BRACKET	STAINLESS STEEL	B-165 2436	
13	LAVATORY UNDER SINK SAFETY COVERS FOR PIPING	VINYL	–	TRUEBRO: MODEL - 103 E-Z SERIES. COLOR: WHITE
14	JANITOR CLOSET WALL SHELF & MOP HOLDER	STAINLESS STEEL	B-224-36	
15	MOBILE CART	PLASTIC	BLACK MEDIUM 6 DRAWER CART - 13" X 27" X 15.5"	G.C. CAN PURCHASE AT STAPLES
16	COAT HOOK	STAINLESS STEEL	B-232 x 24 (2) REQUIRED (1) @ ADA	
17	ELECTRICAL LIGHT FIXTURE	———	———	REFER TO ELECTRICAL DWGS. FOR FIXTURE INFORMATION
18	TOUCH FREE SOAP DISPENSER W/ DRIP GUARD (SURFACE MOUNTED)	BLACK	GOJO LTX-12 GOJO DRIP TRAY	REFER TO ELECTRICAL DWGS. FOR FIXTURE INFORMATION



G BREAK ROOM MILLWORK ELEVATION

SCALE: 1/2"=1'-0"

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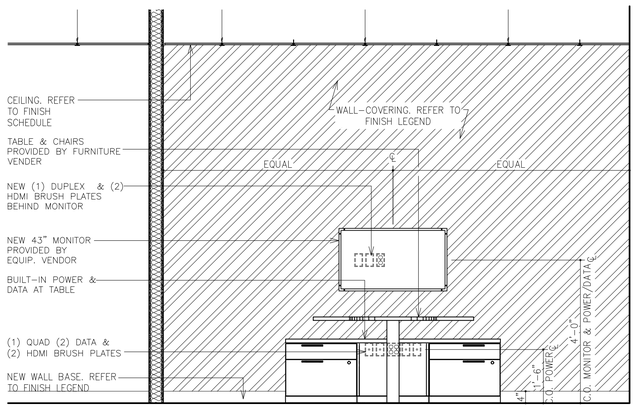
SHEET TITLE

ENLARGED TOILET ROOM PLANS AND ELEVATIONS

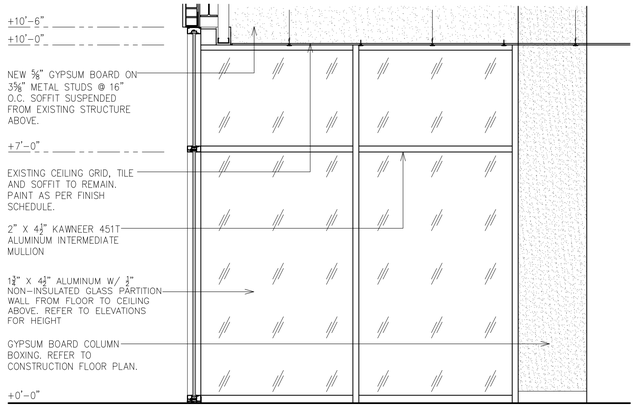
SHEET NUMBER
A-403.00

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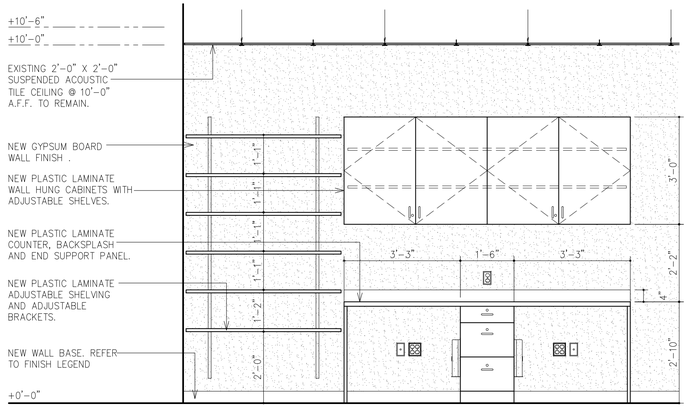
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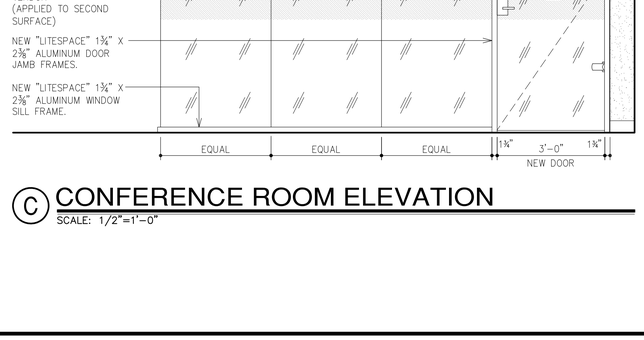
A CONFERENCE ROOM ELEVATION
SCALE: 1/2"=1'-0"



D VESTIBULE GLASS ELEVATION
SCALE: 1/2"=1'-0"



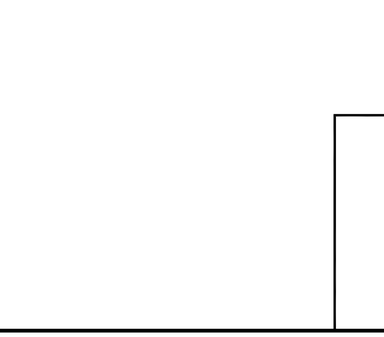
F WORK ROOM ELEVATION
SCALE: 1/2"=1'-0"



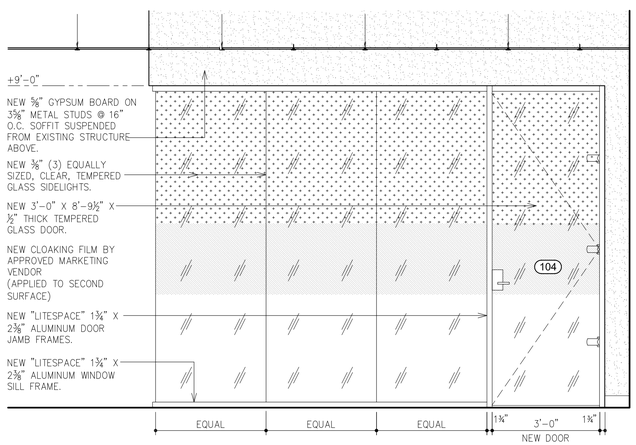
B CONFERENCE ROOM ELEVATION
SCALE: 1/2"=1'-0"

E VESTIBULE GLASS ELEVATION
SCALE: 1/2"=1'-0"

G COAT RACK ELEVATION
SCALE: 1/2"=1'-0"



H F.E. CABINET ELEV.
SCALE: 1/2"=1'-0"



C CONFERENCE ROOM ELEVATION
SCALE: 1/2"=1'-0"

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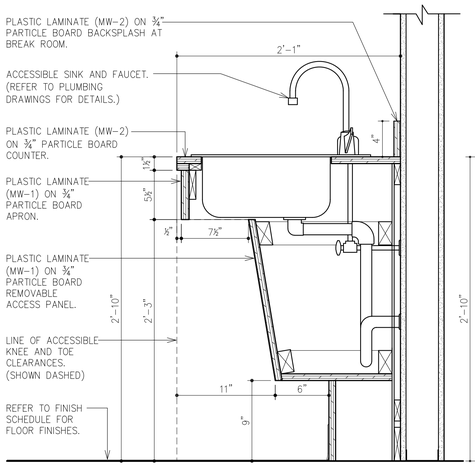
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SHEET TITLE
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SHEET NUMBER
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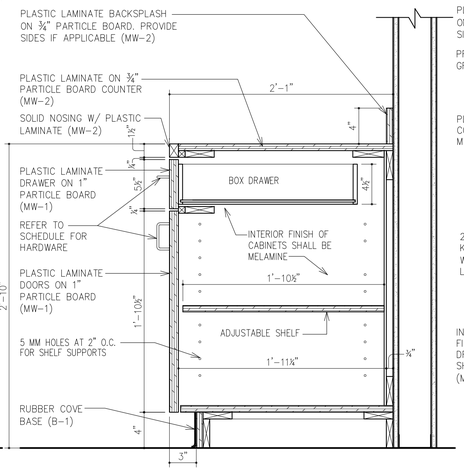
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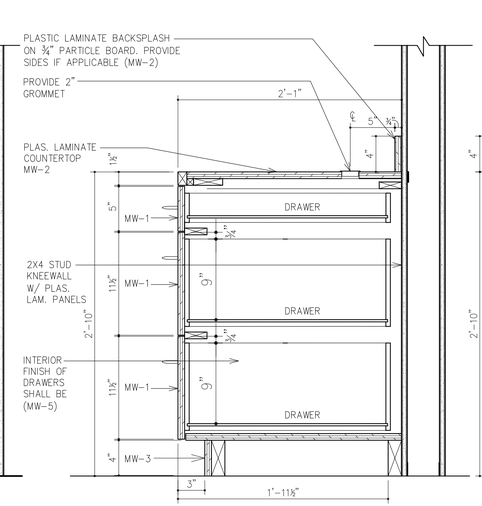
1 SINK CABINET SECTION

SCALE: 1 1/2"=1'-0"



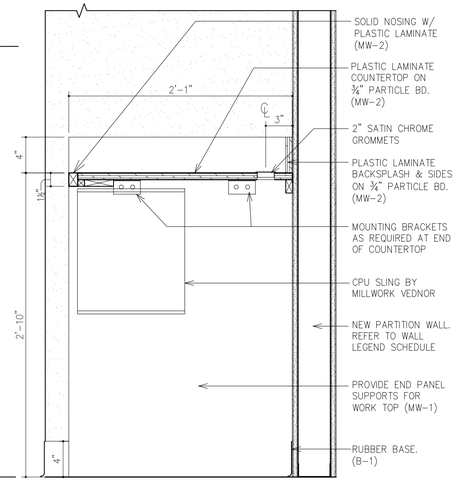
2 BASE CABINET SECTION

SCALE: 1 1/2"=1'-0"



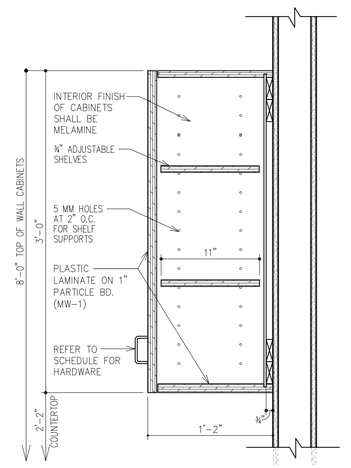
3 DRAWER SECTION

SCALE: 1 1/2"=1'-0"



4 EMPLOYEE COUNTER SECTION

SCALE: 1 1/2"=1'-0"

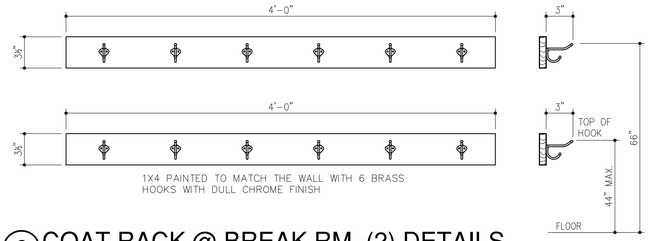


5 WALL CABINET SECTION

SCALE: 1 1/2"=1'-0"

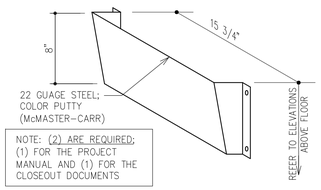
GENERAL NOTES:

1. ALL MILLWORK TO BE PROVIDED BY THE G.C.'s MILLWORK VENDOR UNLESS OTHERWISE INDICATED.
2. ALL CABINETS AND DRAWERS TO RECEIVE CYLINDER LOCKS, EXCEPT IN THE BREAK ROOM.
3. ALL KEYING TO BE REVIEWED WITH THE BANK.



6 COAT RACK @ BREAK RM. (2) DETAILS

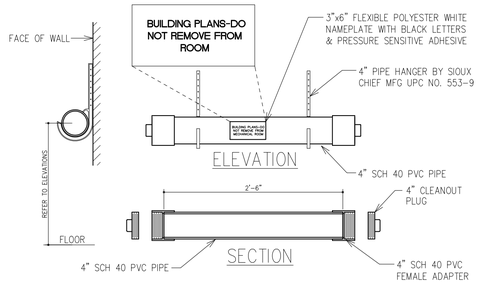
SCALE: 1 1/2"=1'-0"



NOTE: (2) ARE REQUIRED; (1) FOR THE PROJECT MANUAL AND (1) FOR THE CLOSEOUT DOCUMENTS

7 PROJECT MANUAL HOLDER

SCALE: 1 1/2"=1'-0"



8 DETAILS-DRAWING TUBE HOLDER

SCALE: 1"=1'-0"

MILLWORK HARDWARE SCHEDULE

DESCRIPTION	MANUFACTURER	MODEL #	REMARKS
CABINET HINGE	SALICE	120° BARGE 09/16 CR2FP99	SOFT CLOSING HINGES
DOOR & CABINET PULLS	HAFELE	116.07.427 SATIN CHROME	SATIN CHROME WIRE PULLS
DOOR & CABINET PULLS	HAFELE	126.27036 ALUM. SATIN	CONTINUOUS HANDLE PULL AT CARGO DESKS (IF APPLICABLE)
DOOR & CABINET LOCKS	NATIONAL LOCKS	C805 SERIES	G.C. TO REVIEW FINAL KEYING WITH OWNER
DRAWER SLIDES	GRANT	5632	AS PER MNFR'S. SPECS
DRAWER SLIDES	SALICE	FUTURA 655	SELF CLOSING, CONCEALED RUNNER BRIGHT ZINC PLATE
ADJUSTABLE SHELF PINS	KNAPE & VOGT	KV0332ZC	5MM/ ZINC FINISH (CMBRIGGS #333)
GROMMETS	DOUG MOCKETT & COMPANY	OG1	1" GROMMET COLOR: BLACK AT CARGO DESKS (IF APPLICABLE) UNDER COUNTER
GROMMETS	DOUG MOCKETT & COMPANY	MM4/SET	2⅜" SOLID BRASS GROMMET W/ 2" LINER. COLOR: SATIN CHROME
CPU HOLDER	HERMAN MILLER OR STEELCASE OR KNAPE & VOGT	Y91104.13 TBD STORABLE CPU	CPU HOLDER WITH VERTICAL STRAP
PENCIL DRAWER	HERMAN MILLER OR STEELCASE	Y5010.BU TBD	FINISH: BLACK UMBER
WIRE MOLD	HELLERMANN TYTON	TSR 1W-BA	3/4" SURFACE RACEWAY, PVC COLOR: WHITE
VENT REGISTER	VENT COVERS UNLIMITED	LLB10X2R – B	COLOR BLACK
SHELF BRACKET & SHELF FLANGE	KNAPE & VOGT	80/180 SERIES	COLOR CHROME
BRUSH SEAL "H"	TANIS, INC.	H-SHAPE AH250496CF	
BRUSH SEAL (RIGHT ANGLE)	TANIS, INC.	RIGHT ANGLE HOL. AH250896CF	
BRUSH SEAL (STRIP BRUSH)	TANIS, INC.	MB250096	COLOR: BLACK
GLASS PANEL BRACKET	KNAPE & VOGT	PGRP 1 B-94	COLOR: SATIN ALUMINUM
PROJECT MANUAL HOLDER	MCMASTER-CARR	1225T31	STEEL MANUAL HOLDER 8"HIGH COMPARTMENT. COLOR: BLACK
DRAWING TUBE HOLDER	HOME DEPOT		4" PVC PIPE, 4" PVC DWV X FIPT FEMALE ADAPTER & 4" DWV MIPT CLEANOUT PLUG
PIPE HANGERS	SIOUX CHIEF MFG.	553-9	4" PIPE HANGERS
COAT HOOKS & CASH HOOKS	RICHELIEU	235BCV	3 1/2" HEAVY DUTY COAT/CASH BAG HOOK. COLOR: BRUSHED CHROME
ELECTRICAL RACEWAY	LEGRAND	4000	1 3/4" X 4 3/4" W/ STEEL COVER. COLOR: BLACK

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MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-5000
FAX (908) 464-3123
0600354910

REGISTERED ARCHITECT
WILLIAM R. RYAN
017735-1
STATE OF NEW YORK
N.Y. LIC. #: 017735-1 SEAL
CONSULTANTS

DJM CONSULTING ENGINEERING
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606 Union Avenue • Suite 3
Bristle, NJ • 08750
Tel: (732)223-2332
Fax: (888)428-3421
www.DJM-CE.com
CERTIFICATE OF AUTHORIZATION
#24GA28223400
CONSULTANTS

DOB EMPLOYEE SIGNATURES

REVISIONS

NO.	DATE	DESCRIPTION	BY

DATE ISSUED: 8.26.21
ISSUED FOR: BID & PERMIT SET
REVIEWED BY: W.R.R.
DRAWN BY: J.M.N.

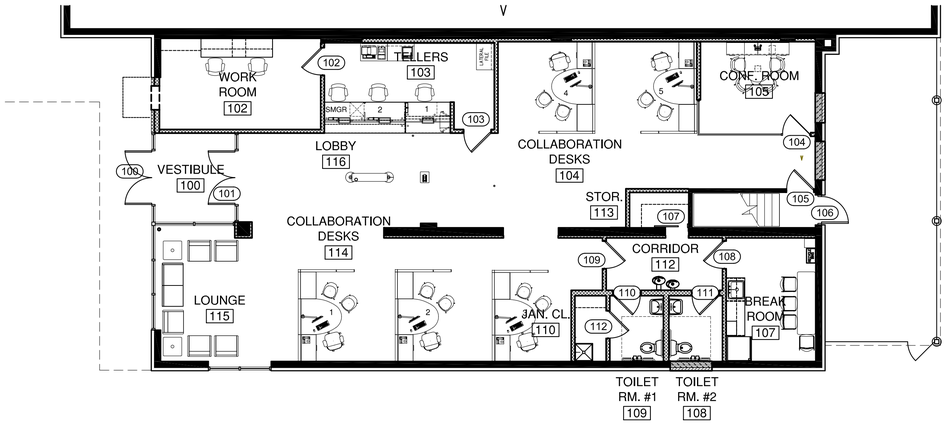
WELLS FARGO BE NUMBER
111700

SHEET TITLE
ARCHITECTURAL & MILLWORK DETAILS

SHEET NUMBER
A-501.00

SHT. OF –

ARCHITECT PROJECT NUMBER
2174



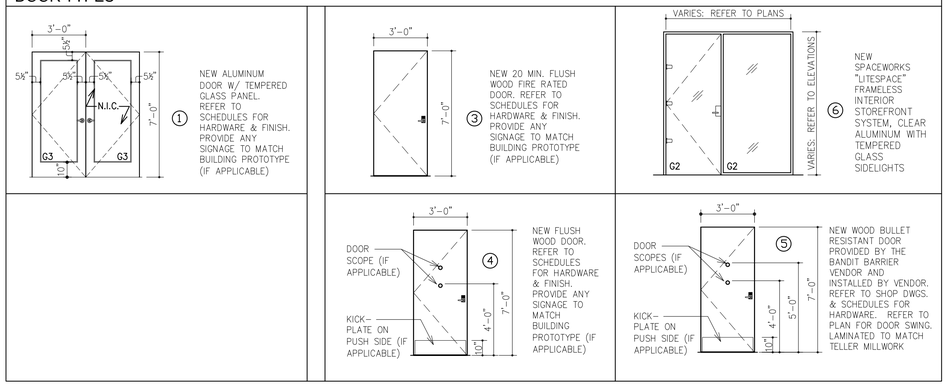
FIRST FLOOR KEY PLAN

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

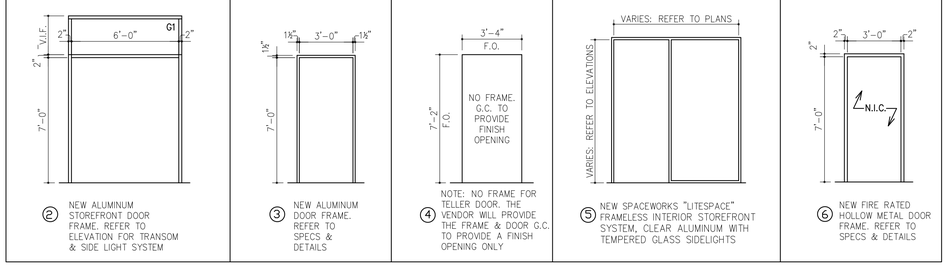
DOOR, FRAME, AND HARDWARE SCHEDULE

DOOR NUMBER	ROOM	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR MATL	DOOR TYPE	FRAME MATL	FRAME TYPE	FRAME FINISH	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	HARDWARE FUNCTION	HARDWARE GROUP	NOTES
100	VESTIBULE	(2) 3'-0"	7'-0"	ALUM&GL.	1	ALUM&GL.	2	CLR.ANNO	H1/A601			EXIT EGRESS	1.01	DEADBOLT W/ EXIT EGRESS FROM INTERIOR
101	VESTIBULE	(2) 3'-0"	7'-0"	ALUM&GL.	1	ALUM&GL.	2	CLR.ANNO	H2/A601			EXIT EGRESS	1.01	
102	WORK ROOM	3'-0"	7'-0"	WOOD	4	ALUM.	3	CLR.ANNO	H3/A601			ACCESS CONTROL	4.01	STAIN DR. TO MATCH MILLWORK
103	TELLERS	3'-0"	7'-0"	WOOD	5	ALUM.	4	CLR.ANNO	PROVIDED & INSTALLED BY VENDOR			ACCESS CONTROL	4.01	LAMINATED B.R. DR. PROVIDED & INSTALLED BY VENDOR
104	CONF. ROOM	3'-0"	9'-0"	FRAMLESS GLASS	6	ALUM&GL.	5	CLR.ANNO	H5/A601 H6/A601		H5/A601 H6/A601	PASSAGE	3.01	HARDWARE BY DOOR MANUFACTURER
105	EXIT STAIR	3'-0"	7'-0"	WOOD	3	H.M	6	PAINTED					2.01	STAIN DR. TO MATCH MILLWORK
106	EXIT DOOR	EXISTING DOOR AND FRAME TO REMAIN, REPLACE HARDWARE										EXIT EGRESS	9.02	PAINT DOOR
107	STORAGE	2'-8"	7'-0"	WOOD	4	FRAMLESS.	3	CASED				PASSAGE		OVERHEAD TRACK SLIDING DOOR HARDWARE
108	BREAK ROOM	3'-0"	7'-0"	WOOD	4	ALUM.	3	CLR.ANNO	H3/A601			ACCESS CONTROL	2.01	STAIN DR. TO MATCH MILLWORK
109	CORRIDOR	3'-0"	7'-0"	WOOD	4	ALUM.	3	CLR.ANNO	H3/A601			ACCESS CONTROL	2.01	STAIN DR. TO MATCH MILLWORK
110	TOILET RM. #1	3'-0"	7'-0"	WOOD	4	ALUM.	3	CLR.ANNO	H3/A601			PRIVACY	6.01	STAIN DR. TO MATCH MILLWORK
111	TOILET RM. #2	3'-0"	7'-0"	WOOD	4	ALUM.	3	CLR.ANNO	H3/A601			PRIVACY	6.01	STAIN DR. TO MATCH MILLWORK
112	JANITOR CL.	3'-0"	7'-0"	WOOD	4	ALUM.	3	CLR.ANNO	H3/A601			STORE ROOM	7.01	STAIN DR. TO MATCH MILLWORK
001	TELE/DATA RM.	3'-0"	7'-0"	WOOD	4	ALUM.	3	CLR.ANNO	H3/A601			ACCESS CONTROL	5.01	STAIN DR. TO MATCH MILLWORK

DOOR TYPES



FRAME TYPES



DOOR GLAZING SCHEDULE

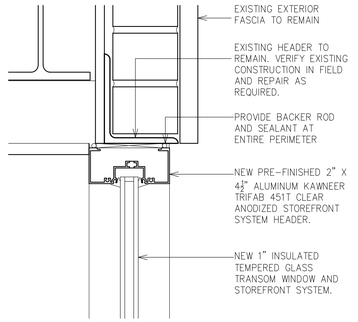
GLAZING NUMBER	GLAZING TYPE	NOTES
G1	¼" CLEAR NON-TEMPERED	TRANSOM GLASS
G2	¼" CLEAR TEMPERED GLASS	CONFERENCE RM.
G3	1" INSULATED TEMPERED GLASS	ENTRANCE DOOR & SIDELITES
G4	BULLET RESISTANT GLASS	TELLER LINE BY VENDOR

DOOR NOTES

1. REFER TO FINISH PLAN FOR WOOD DOOR SPECIES AND FINISH REQUIREMENTS.
2. SFIC CONSTRUCTION CORES TO BE PROVIDED BY CONTRACTOR AT ALL DOOR LOCKS.
3. PERMANENT SFIC CORES TO BE PROVIDED AND INSTALLED BY OWNER.
4. G.C. TO REVIEW KEYING WITH THE OWNER FOR ALL LIKE DOORS.
5. ALL WOOD DOORS TO BE STAINED OR LAMINATED TO MATCH THE TELLER LINE MILLWORK UNLESS OTHERWISE NOTED). REFER TO FINISH SCHEDULE (MW-1)

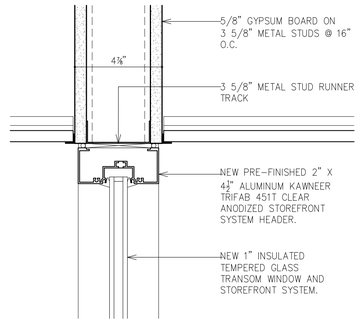
HARDWARE GROUPS

QUANTITY	DESCRIPTION	PRODUCT	FINISH CLEAR ANODIZED	MANUFACTURER
HARDWARE GROUP NO. 1.01 / ENTRANCE DOOR				
8 EACH	HINGE	BB1191 4 1/2" X 4 1/2" X NRP	US26D	HAGER
1 EACH	EXIT DEVICE	CD3347A-EO X 338 X 385A X 3-0 X SNB (2) EXIT ONLY	US26D/ACTIVE	VON DUPRIN
1 EACH	EXIT DEVICE	CD3347A-NL X 338 X 385A X 3-0 X SNB (2) NIGHT LATCH	US26D/INACTIVE	VON DUPRIN
1 EACH	CYLINDER RIM	20-022	626	SCHLAGE
2 EACH	DOOR PULL	BF157 X TYPE 1XHD	315	ROCKWOOD
1 EACH	CLOSER	5200 X PAR 16 X 5203 X FC	ALM/ACTIVE	HAGER
1 EACH	CLOSER	5200 X PAR 16 X 5203 X FC	ALM/INACTIVE	HAGER
2 EACH	OVERHEAD STOP	454S	US32D	GLYNN JOHNSON
1 EACH	THRESHOLD	158A X 72"W	A	PEMKO
1 EACH	THRESHOLD	274A X 72"W	A	PEMKO
2 EACH	CLEARANCE BRACKET	5936	ALM	HAGER
HARDWARE GROUP NO. 2.01 / BREAK ROOM, CORRIDOR, ATM ROOM				
3 EACH	HINGE	ECBB1100 4 1/2" x 4 1/2"	US26D	HAGER
1 EACH	ALARM LOCK	DL2875	US26D	TRILOGY
1 EACH	CLOSER	5200 X MLT 16-5203 X FC	ALM	HAGER
1 EACH	FLOOR STOP	243F	US26D	HAGER
1 EACH	DOOR VIEWER	DS/1000	MG - GREY	DOOR SCOPE
1 EACH	KICK PLATE	1945 10"X 34"	US32D	HAGER
HARDWARE GROUP NO. 3.01 / CONFERENCE ROOM				
3 EACH	HINGE	BY DOOR MANUFACTURE	US26D	TBD
1 EACH	LEVEL HANDLE	BY DOOR MANUFACTURE	US26D	TBD
1 EACH	CLOSER / HOLD OPEN	BY DOOR MANUFACTURE	US26D	TBD
1 EACH	FLOOR STOP	243F	US26D	HAGER
G.C. TO COORDINATE DOOR AND FUNCTION WITH DOOR MANUFACTURER.				
HARDWARE GROUP NO. 4.01 / TELLER AREA & TELLER WORK ROOM				
3 EACH	HINGE	ECBB1100 4 1/2" x 4 1/2"	US26D	HAGER
1 EACH	ALARM LOCK	DL2875	US26D	TRILOGY
1 EACH	CLOSER	5200 X MLT 16 X 5203 X FC	ALM	HAGER
1 EACH	OVERHEAD HOLDER	454S	US32D	GLYNN JOHNSON
2 EACH	DOOR VIEWER	DS/1000	MG - GREY	DOOR SCOPE
1 EACH	KICK PLATE	1945 X 10" X 34"	US32D	HAGER
1 EACH	CLEARANCE BRACKET	5936	ALM	HAGER
NOTE: OFFSET BRACKET AT CLOSER TO PROVIDE CLEARANCE FOR OVERHEAD STOP				
HARDWARE GROUP NO. 5.01 / ELECTRICAL & DATA				
3 EACH	HINGE	ECBB1100 4 1/2" x 4 1/2"	US26D	HAGER
1 EACH	ALARM LOCK	DL2875	US26D	TRILOGY
1 EACH	OVERHEAD CLOSER	5200 X MLT 16 X 5203 X FC	ALM	HAGER
1 EACH	OVERHEAD STOP	454S	US32D	GLENN JOHNSON
1 EACH	KICK PLATE	1945 X 10" X 34"	US32D	HAGER
1 EACH	CLEARANCE BRACKET	5936	ALM	HAGER
2 EACH	DOOR VIEWER	DS/1000	MG - GREY	DOOR SCOPE
HARDWARE GROUP NO. 6.01 / TOILET				
3 EACH	HINGE	ECBB1100 4 1/2" x 4 1/2"	US26D	HAGER
1 EACH	PRIVACY	AL40S X NEP X 11-116 X 10-0256	626	SCHLAGE
1 EACH	OVERHEAD CLOSER	5200 X MLT 16 X 5203 X FC	ALM	HAGER
1 EACH	KICK PLATE	1945 X 10" X 34"	US32D	HAGER
1 EACH	FLOOR STOP	243F	US26D	HAGER
HARDWARE GROUP NO. 7.01 / STORAGE AND JANITOR				
3 EACH	HINGE	ECBB1100 4 1/2" x 4 1/2"	US26D	HAGER
1 EACH	STOREROOM LOCK	AL80PD x NEP X 11-096 x 10-025	626	SCHLAGE
1 EACH	OVERHEAD CLOSER	5200 x MLT 16 x 5203 x FC	ALM	HAGER
1 EACH	FLOOR STOP	243F	US26D	HAGER
1 EACH	KICK PLATE	1945 X 10" X 34" (STORAGE)	US32D	HAGER
1 EACH	KICK PLATE	225S X 36" X 34" (JANITOR)	CBO	HAGER
3 EACH	SILENCERS	TBD	608	ROC
HARDWARE GROUP NO. 9.02 / REAR EXIT				
1 EACH	EXIT DEVICE	CD3347A-EO X 338 X 385A X 3-0 X SNB (2) EXIT ONLY	US26D/ACTIVE	VON DUPRIN
1 EACH	CLOSER/STOP	5200 X MLT 16 X 5203 X FC	ALM	HAGER
1 EACH	DOOR ALARM	EAX-300	GY	DETEX



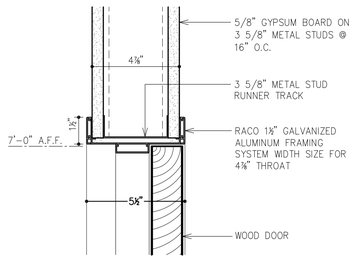
H1 HEAD DETAIL

SCALE: 3"=1'-0"



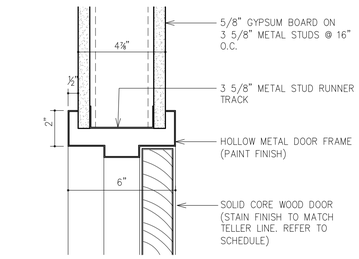
H2 HEAD DETAIL

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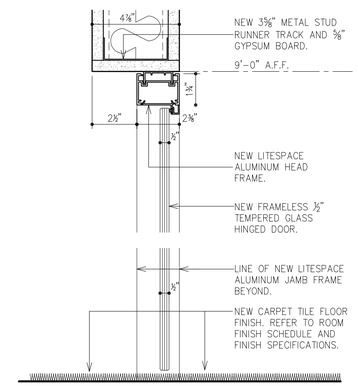
H3 HEAD DETAIL

SCALE: 3"=1'-0"



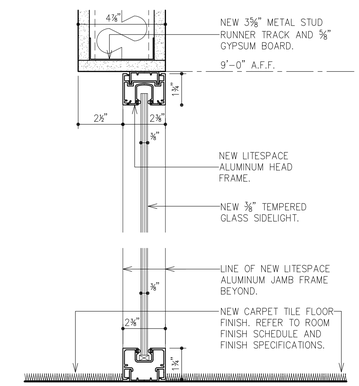
H4 HEAD DETAIL

SCALE: 3"=1'-0"



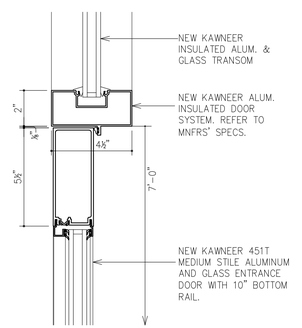
H5 HEAD & SILL DETAIL

SCALE: 3"=1'-0"



H6 HEAD & SILL DETAIL

SCALE: 3"=1'-0"



H7 HEAD DETAIL

SCALE: 3"=1'-0"

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MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-5000
FAX (908) 464-3123
0600354910

REGISTERED ARCHITECT
WILLIAM R. RYAN
017735-1
STATE OF NEW YORK
N.Y. LIC. #: 017735-1 SEAL

CONSULTANTS

DJM CONSULTING ENGINEERING
Engineering sustainable solutions for your success
606 Union Avenue • Suite 3
Brielle, NJ • 08730
Tel: (732)223-2332
Fax: (888)428-3421
www.DJM-CE.com
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WELLS FARGO BE NUMBER
111700

SHEET TITLE
DOOR SCHEDULE & DETAILS

SHEET NUMBER
A-601.00

SHT. OF –

ARCHITECT PROJECT NUMBER
2174

1 SP001 SPRINKLER SYSTEM PERFORMANCE SPECIFICATIONS

1. GENERAL REQUIREMENTS
   A. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT.
   B. VERIFY ALL GOVERNING DIMENSIONS IN THE BUILDING.
   C. COORDINATE ALL WORK WITH OTHER TRADES TO MINIMIZE INTERFERENCE. TO FACILITATE TIMELY COMPLETION AND AVOID NECESSITY FOR CUTTING AND PATCHING. FURNISH TO OTHER AFFECTED TRADES ALL NECESSARY INFORMATION, WORKING DRAWINGS OR MATERIALS REQUIRED FOR INSTALLATION AND COMPLETION OF ALL WORK.
   D. PROVIDE WORKMANSHIP OF HIGHEST GRADE. INSTALL ALL PIPING AND SPRINKLER HEADS IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS, REQUIREMENTS OF NFPA-13, LOCAL FIRE DEPARTMENT, OWNER'S INSURANCE UNDERWRITERS AND INTERNATIONAL BUILDING CODE.
   E. PROVIDE ONE YEAR GUARANTEE AGAINST DEFECTIVE WORKMANSHIP AND MATERIALS.
2. SCOPE OF WORK
   A. PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, HYDRAULIC CALCULATIONS, PERMITS, CERTIFICATES, INSPECTION, TESTING AND OTHER SERVICES NECESSARY OR REQUIRED FOR COMPLETE SAFE INSTALLATION OF WORK IN FULL CONFORMANCE WITH NFPA-13 REQUIREMENTS, ALL AS INDICATED ON DRAWINGS AND/OR HEREIN SPECIFIED.
   B. CUTTING AND PATCHING.
3. WORK NOT INCLUDED
   A. FINISHED PAINTING.
4. SUBMITTALS
   A. SHOP DRAWINGS
      a. SPRINKLERS
      b. VALVES
      c. HANGERS
      d. PIPING LAYOUT COORDINATED WITH ALL TRADES. INCLUDE ON EACH WORKING DRAWING LAYOUT CERTIFICATE THAT ALL RELATED CONDITIONS HAVE BEEN CHECKED WITH ALL TRADES, AND THAT NO CONFLICT EXISTS. SUBMISSION WILL NOT BE APPROVED WITHOUT SUCH CERTIFICATION.
      e. HYDRAULIC CALCULATIONS BROUGHT BACK TO THE CONNECTION TO THE RISER. VERIFY PRESSURE AT THE RISER, PROVIDE SUMMARY SHEET AS PER FIG A-14.3.2(a) OF NFPA 13, INDICATE SOURCE OF WATER SUPPLY. WATER RESERVE AND ELEVATION.
   B. AS BUILT DRAWINGS
      a. FURNISH AND INSTALL "AS-BUILT" SHOP DRAWINGS FOR SPRINKLER INSTALLATION.
   C. SPRINKLER HYDRAULIC CALCULATIONS
      a. THE CONTRACTOR SHALL SUBMIT SIGNED AND SEALED SPRINKLER HYDRAULIC CALCULATIONS FOR REVIEW BY THE ARCHITECT/ENGINEER OF RECORD.
5. CONNECTION TO EXISTING WORK
   A. CONNECT NEW WORK IN NEAT AND APPROVED MANNER. RESTORE EXISTING PIPING DISTURBED IN MAKING SUCH CONNECTIONS TO PERFECT CONDITIONS. TEMPORARY SHUT OFF OF EXISTING SERVICES ONLY WITH WRITTEN APPROVAL OF OWNER, AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION.
6. MATERIALS - GENERAL
   A. TYPE AND SIZE OF MATERIALS SHALL BE APPROVED AS PER NFPA STANDARDS AND OWNER'S INSURANCE UNDERWRITERS. SYSTEM AS INSTALLED SHALL MEET ALL REQUIREMENTS AND RECEIVE APPROVAL OF SAME BEFORE FINAL PAYMENT.
   B. ALL MATERIALS SHALL BE UL LISTED AND FM APPROVED.
7. HANGERS AND SUPPORTS
   A. ALL SPRINKLER PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13.
   B. SPRINKLER HEADS SHALL BE CENTERED IN 2 DIRECTIONS, ON CEILING TILES OR AS PER CONTRACT DWGS.
   C. UNLESS OTHERWISE SPECIFICALLY APPROVED, HANGER SIZE AND SPACING SHALL BE WITHIN FOLLOWING LIMITS:

PIPE SIZE	MAX. HANGER SPACING	MIN. ROD SIZE
1"	8 FT. O.C.	3/8"
1-1/4" TO 2"	10 FT. O.C.	3/8"
2-1/2" TO 3-1/2"	12 FT. O.C.	1/2"

   THE ABOVE HANGER SPACINGS APPLY TO STRAIGHT RUNS OF PIPE ONLY. AT POINTS WHERE VALVES, SPECIALTIES OR BRANCH CONNECTIONS ARE LOCATED, ADDITIONAL HANGERS OR SUPPORTS SHALL BE USED TO PROPERLY SUPPORT THE LOAD.
8. SUPPORTS
   A. ALL PIPING SHALL BE HUNG FROM STRUCTURAL STEEL AND CONCRETE BEAMS. PROVIDE ANCILLARY STEEL AS REQUIRED.
   B. BEAM CLAMPS: APPROVED C-CLAMPS WITH LOCKNUT.
9. SLEEVES AND ESCUTCHEONS
   A. SLEEVES FOR PIPING PASSING THROUGH MASONRY WALLS SHALL BE SCHEDULE 40. STANDARD GALVANIZED STEEL PIPE: IN FRAMED PARTITIONS SHALL BE 20 GAUGE SHEET METAL. THE SPACE BETWEEN THE PIPE AND IT'S SLEEVE SHALL NOT EXCEED ONE-HALF INCH. THE SLEEVE SHALL HAVE SUFFICIENT LENGTH TO BE FLUSH WITH THE FINISHED WALL SURFACES.
   B. EXPOSED PIPING PASSING THROUGH WALLS, FLOORS OR CEILING SHALL BE FITTED WITH CHROMIUM PLATED CAST BRASS ESCUTCHEONS WITH FASTENING SET SCREWS SIMILAR TO FEE & MASON MANUFACTURING CO., F&S MANUFACTURING CO., OR RITTER PATTERN AND CASTING CO.
10. CUTTING AND PATCHING
    A. PIPING PASSING THROUGH WALLS SHALL HAVE A TRIM OPENING CUT NO GREATER THAN NECESSARY FOR THE INSTALLATION OF A SLEEVE SECURED THEREIN.
    B. PIPING PASSING THROUGH CONCRETE FLOORS SHALL HAVE THE OPENING CORE DRILLED SO THAT THE SPACE BETWEEN THE OPENING AND THE PIPE SHALL NOT EXCEED ONE-HALF INCH.
    C. ANNULAR SPACES BETWEEN PIPING AND SLEEVES OR CORE DRILLED FLOOR OPENING SHALL BE PACKED WITH MINERAL WOOL AND SEALED. TO RETAIN THE FIRE INTEGRITY OF THE WALLS AND FLOORS, WITH A NON-HARDENING COMPOUND SIMILAR AND EQUAL TO UNISEAL OR DUXSEAL AS MANUFACTURED BY THE J.M. CLIPPER CORPORATION.
11. PIPE
    A. SPRINKLER STANDARD WEIGHT SCHEDULE 40 BLACK STEEL PIPE, SEAMLESS OR WELDED MILD STEEL, CONFORMING TO ASTM A-795/A-53.
    B. USE GALVANIZED PIPE AND FITTINGS FOR ALL DRY SYSTEMS, FIRE DEPARTMENT CONNECTIONS AND FIRE PUMP TEST HEADER PIPING.
12. FITTINGS
    A. CAST IRON: THREADED CLASS 125, ANSI B-16.4.
    B. MALLEABLE IRON: CLASS 150 THREADED, ANSI B-16-3.
    C. GROOVED AND MALLEABLE IRON FITTINGS AND COUPLINGS WITH PRESSURE RATING, SIMILAR TO VICTAULIC SHALL BE PERMITTED.
    D. REDUCERS AND INCREASERS: OF TAPERED TYPE. NO BUSHINGS PERMITTED.
13. SPRINKLER HEADS
    A. CAST BRASS, CLOSED FUSIBLE LINK, SPRAY TYPE, 1/2 IN. ORIFICE, ORDINARY DEGREE TEMPERATURE RATING (165 DEG. F), QUICK RESPONSE, EXCEPT AS NOTED.
       a. SPRINKLERS IN AREAS WITH HUNG CEILINGS SHALL BE RELIABLE AUTOMATIC SPRINKLER CO., G4 CONCEALED AUTOMATIC SPRINKLER. THE HEADS MUST BE COMPLETE WITH WHITE FLUSH COVER PLATE 165°F TEMPERATURE RATING.
       b. HIGHER TEMPERATURE RATING WHERE SUBJECT TO ABNORMAL HEATING CONDITIONS AND/OR WHERE INDICATED.
       c. SPRINKLER HEADS TO BE CENTERED ON CEILING TILES, OR AS PER CONTRACT DWGS.
14. DRAINAGE
    A. PROVISIONS SHALL BE MADE FOR COMPLETE DRAINAGE OF THE SYSTEM.
15. TESTS
    A. PERFORM HYDROSTATIC TESTS FOR ALL SECTIONS OF THE PIPING SYSTEMS INSTALLED UNDER THIS SECTION. AT NOT LESS THAN 200 PSIG PRESSURE FOR TWO HOURS, OR AT 50 PSI IN EXCESS OF THE MAXIMUM PRESSURE, WHEN THE MAXIMUM PRESSURE TO BE MAINTAINED IN THE SYSTEM IS IN EXCESS OF 150 PSIG. THE TEST PRESSURE SHALL BE READ FROM A GAUGE LOCATED AT THE LOW ELEVATION POINT OF THE INDIVIDUAL SYSTEM, OR PORTION OF THE SYSTEM BEING TESTED.
    B. TESTS SHALL BE MADE IN THE PRESENCE OF THE ARCHITECT OR HIS REPRESENTATIVES. AT LEAST 48 HOURS NOTICE SHALL BE GIVEN IN ADVANCE OF ALL TESTS.
16. DESIGN CRITERIA

ENTIRE SYSTEM SHALL BY HYDRAULICALLY CALCULATED TO MEET FOLLOWING CRITERIA:

A. SPRINKLER SYSTEM
   a. LIGHT HAZARD OCCUPANCY: DENSITY 0.10 PER SQUARE FOOT OVER MOST HYDRAULICALLY REMOTE 1500 SQUARE FEET, MAXIMUM COVERAGE PER SPRINKLER HEAD 225 SQUARE FEET (OR AS LISTED).
   b. EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS WITH SUSPENDED CEILINGS SHALL BE AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLANS.
   c. EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA STANDARD NO. 13.
   d. DISCHARGE FROM EACH SPRINKLER HEAD SHALL BE IN ACCORDANCE WITH NFPA 13.

2 SP001 SPRINKLER GENERAL NOTES

1. CONTRACTOR SHALL SUBMIT A COMPLETE SET OF PLANS, CALCULATIONS AND SPECIFICATIONS FOR THE FIRE SUPPRESSION SYSTEM PREPARED BY A LICENSED PROFESSIONAL ENGINEER FOR APPROVAL BY THE ENGINEER AND FIRE SUB-CODE OFFICIAL.
2. COMPLY WITH REQUIREMENTS OF OWNER'S INSURANCE UNDERWRITER FOR SUBMITTALS, APPROVALS, MATERIALS, INSTALLATION, INSPECTIONS AND TESTING.
3. INSTALLER'S QUALIFICATIONS: A QUALIFIED FIRM THAT IS EXPERIENCED (MINIMUM OF 5 PREVIOUS PROJECTS SIMILAR IN SIZE AND SCOPE TO THE PROJECT) IN SUCH WORK, FAMILIAR WITH PRECAUTIONS REQUIRED, AND IN COMPLIANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
4. CONTRACTOR SHALL PERFORM FIELD ACCEPTANCE TESTS OF EACH FIRE PROTECTION SYSTEM. FLUSH, TEST AND INSPECT SPRINKLER PIPING SYSTEMS ACCORDING TO NFPA 13.
5. CONTRACTOR SHALL COORDINATE COMPLETE SPRINKLER LAY-OUT WITH CEILINGS, LIGHTING, HVAC DIFFUSERS, ETC.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CUTTING, PATCHING, AND/OR REMOVAL OF CEILING TILES, ETC. HE SHALL RESTORE ALL AREAS AS A RESULT OF THE FIRE PROTECTION INSTALLATION TO MATCH EXISTING CONDITIONS.
7. SPRINKLER HEADS - FUSIBLE LINK TYPE, PROVIDE HEADS WITH 1/2" DISCHARGE ORIFICE FOR ORDINARY TEMPERATURE RANGE.
8. CONTRACTOR SHALL MAKE AN ALLOWANCE TO A MINIMUM OF 10% ADDITIONAL SPRINKLER HEADS TO BE INSTALLED AS TO PROVIDE ADEQUATE COVERAGE DUE TO ANY OBSTRUCTIONS, DUCTWORK, PIPING, ETC. INSTALLED DURING CONSTRUCTION WHICH MAY ALTER THE ORIGINAL SPRINKLER DESIGN.
9. CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH NFPA 13 INCLUDING HYDRAULIC CALCULATIONS & IDENTIFIED AS WORKING PLANS, TO THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO SUBMISSION TO THE AUTHORITY HAVING JURISDICTION.
10. CONTRACTOR SHALL SUBMIT PRODUCT DATA FOR EACH TYPE SPRINKLER HEAD, VALVE, PIPING SPECIALTY AND FIRE PROTECTION SPECIALTY.
11. FURNISH SIX (6) EXTRA SPRINKLER HEADS AND SPRINKLER HEAD CABINET WITH ASSOCIATED WRENCHES. SPRINKLER CABINET SHALL BE FINISHED STEEL WITH HINGED COVER, SUITABLE FOR WALL MOUNTING.
12. APPROVED AUTOMATIC SPRINKLER HEADS OF THE NUMBER AND TYPE IN THE LOCATIONS SHOWN ON THE DRAWINGS AND AS REQUIRED BY NFPA 13.
13. INSTALL SPRINKLER PIPING TO PROVIDE FOR SYSTEM DRAINAGE IN ACCORDANCE WITH NFPA 13.
14. INSTALL SPRINKLER PIPING ACCORDING TO NFPA 13 VIBRATION ISOLATION AND SEISMIC RESTRAINTS.
15. INSTALL TEST CONNECTION SIZED AND LOCATED IN ACCORDANCE WITH NFPA 13 COMPLETE WITH SHUT-OFF VALVE, TEST CONNECTIONS MAY ALSO SERVE AS DRAIN PIPES.
16. FLUSH TEST AND INSPECT SPRINKLER PIPING SYSTEMS IN ACCORDANCE WITH NFPA 13.
17. HANGERS AND SUPPORTS SHALL COMPLY WITH NFPA 13. SUPPORT SPACING AND LOCATIONS FROM STEEL PIPING SHOULD BE INSTALLED ACCORDING TO MANUFACTURERS WRITTEN INSTRUCTIONS FOR RIGID SYSTEMS.
18. CONTRACTOR FOR THIS WORK SHALL CAREFULLY INSPECT AND ACQUAINT HIMSELF WITH EXISTING CONDITIONS IN ORDER THAT HE FULLY UNDERSTAND THE WORK REQUIRED. HE SHALL FIELD MEASURE AND VERIFY ALL DIMENSIONS AN CONDITIONS BEFORE PROCEEDING WITH THE WORK.
19. CONTRACTOR TO PAY FOR AND SUPPLY ALL DUMPSTERS FOR DEBRIS REMOVALS, COORDINATE AND OBTAIN APPROVAL FOR DUMPSTERS LOCATIONS ON SITE AND DEBRIS REMOVAL ROUTES WITH OWNER.
20. REPLACE PIPING SYSTEM COMPONENTS WHICH DO NOT PASS THE TEST PROCEDURES SPECIFIED AND RETEST REPAIRED PORTIONS OF THE SYSTEM.
21. INSTALL HOODS OR SHIELDS ABOVE ALL ELECTRICAL EQUIPMENT FOR PROTECTION FROM SPRINKLER DISCHARGE. CONTRACTOR TO UTILIZE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS AND COORDINATION OF SPRINKLER HEADS WITH MECHANICAL AND ELECTRICAL ELEMENTS.
22. THE FIRE PROTECTION SYSTEM IS AN AUTOMATIC WET PIPE TYPE.
23. CONTRACTOR SHALL OBTAIN ALL APPROVALS BEFORE STARTING INSTALLATION.
24. PIPING IN GENERAL TO BE CONCEALED ABOVE CEILING WITH DROP NIPPLES TO SPRINKLER HEADS.
25. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS INVOLVED IN SPACE CONDITIONS BEFORE PROCEEDING.
26. CONTRACTOR SHALL INSTALL ALL SPRINKLERS IN CENTER OF TILES (UNLESS OTHERWISE DIRECTED BY THE ARCHITECT) AND PROVIDE ALL NECESSARY ELBOWS, TEES, AND NIPPLES TO ACCOMMODATE SAME.

4 SP001 SPRINKLER SYMBOL LIST

SYMBOL	DESCRIPTION
●	PENDANT SPRINKLER HEAD
○	UPRIGHT SPRINKLER HEAD

5 SP001 CODES AND REGULATION INFORMATION

THE WORK SHALL BE EXECUTED IN STRICT CONFORMITY WITH SPECIFICATIONS AND WITH THE LATEST EDITION OF THE STATE AND LOCAL BUILDING CODES AND ALL LOCAL REGULATIONS THAT MAY APPLY. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE THE MORE STRINGENT STANDARD SHALL APPLY.

REGULATIONS INCLUDING BUT NOT LIMITED TO:

THE BUILDING SHALL BE CONSTRUCTED TO BE IN COMPLIANCE WITH THE NY STATE ADOPTED 2020 BUILDING CODE OF NEW YORK STATE (IBC 2018 WITH AMENDMENTS).

OTHER APPLICABLE CODES ARE:

- 2020 PLUMBING CODE OF NEW YORK STATE (IPC 2018 WITH AMENDMENTS)
- 2020 FUEL GAS CODE OF NEW YORK STATE (IFGC 2018 WITH AMENDMENTS)
- 2017 NATIONAL ELECTRICAL CODE
- 2020 ENERGY CONSERVATION CODE OF NEW YORK STATE (2018 IECC WITH AMENDMENTS
- 2020 MECHANICAL CODE OF NEW YORK STATE (IMC WITH AMENDMENTS)
- 2020 FIRE CODE OF NEW YORK STATE (IFC 2018 WITH AMENDMENTS)

6 SP001 SPRINKLER DRAWING LIST

DWG. #	DRAWING TITLE
SP-001	SPRINKLER GENERAL INFORMATION
SP-100	SPRINKLER HEAD LOCATION BASEMENT PLAN

WELLS FARGO

INTERIOR FIT–OUT

MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
0600364910

William R Ryan
N.Y. LIC. #: 017735-1 SEAL

CONSULTANTS

DJM CONSULTING ENGINEERING
Mechanical • Electrical • Plumbing • Fire Protection
1814 Dudleigh Drive
Suite 300
Wall, NJ 07719
(732)359-3332
www.DJM-CE.com
DEPARTMENT OF HOMELAND SECURITY
#340A3B2254OO

DAVID J. MANTONE
N.Y. LIC. #: 0092743-1

CONSULTANTS

REVISIONS

NO.	DATE	DESCRIPTION	BY

DATE ISSUED: 8.26.21
ISSUED FOR: BID & PERMIT SET
REVIEWED BY:
DRAWN BY:

WELLS FARGO BE NUMBER
111700

SHEET TITLE

SPRINKLER
GENERAL INFORMATION

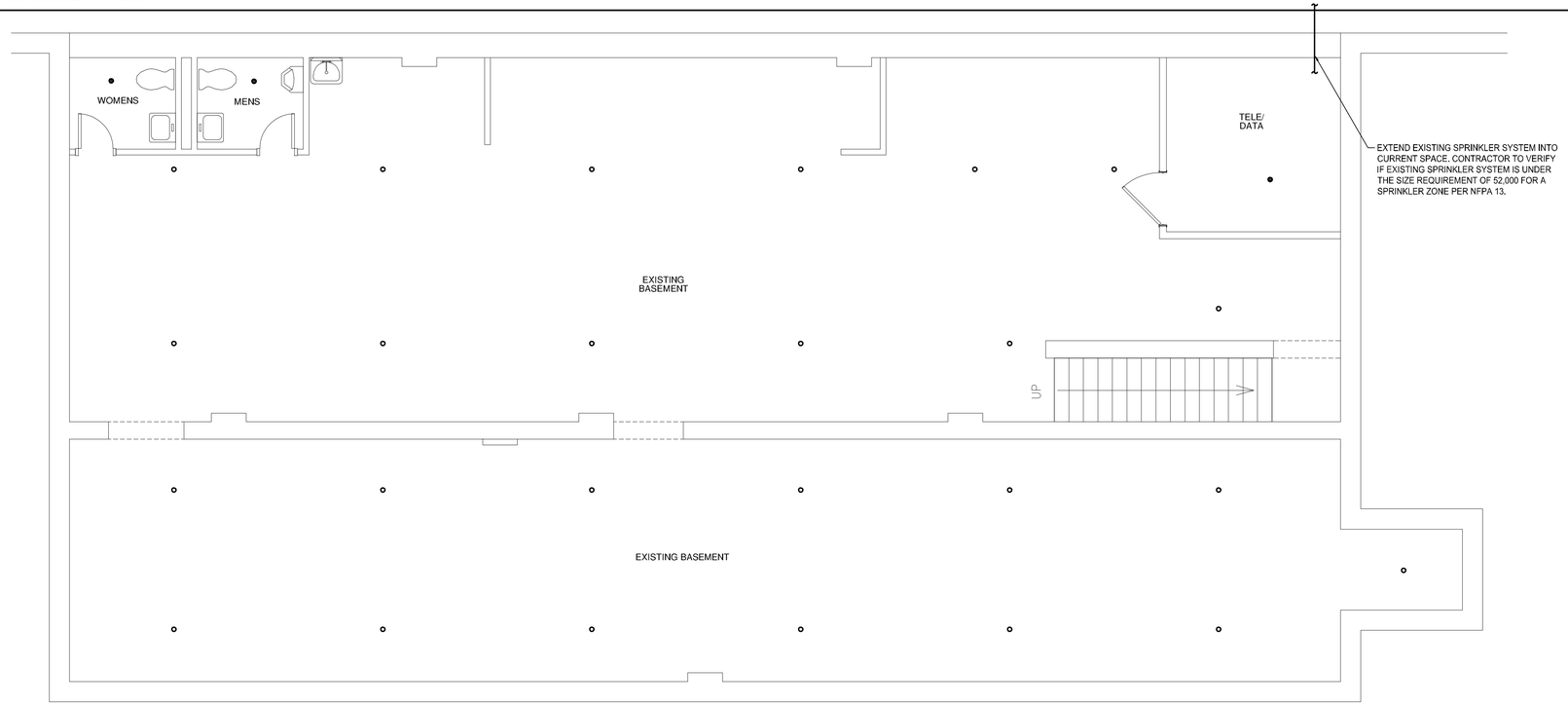
SHEET NUMBER
SP-100.00

SHT. OF

ARCHITECT PROJECT NUMBER
2174

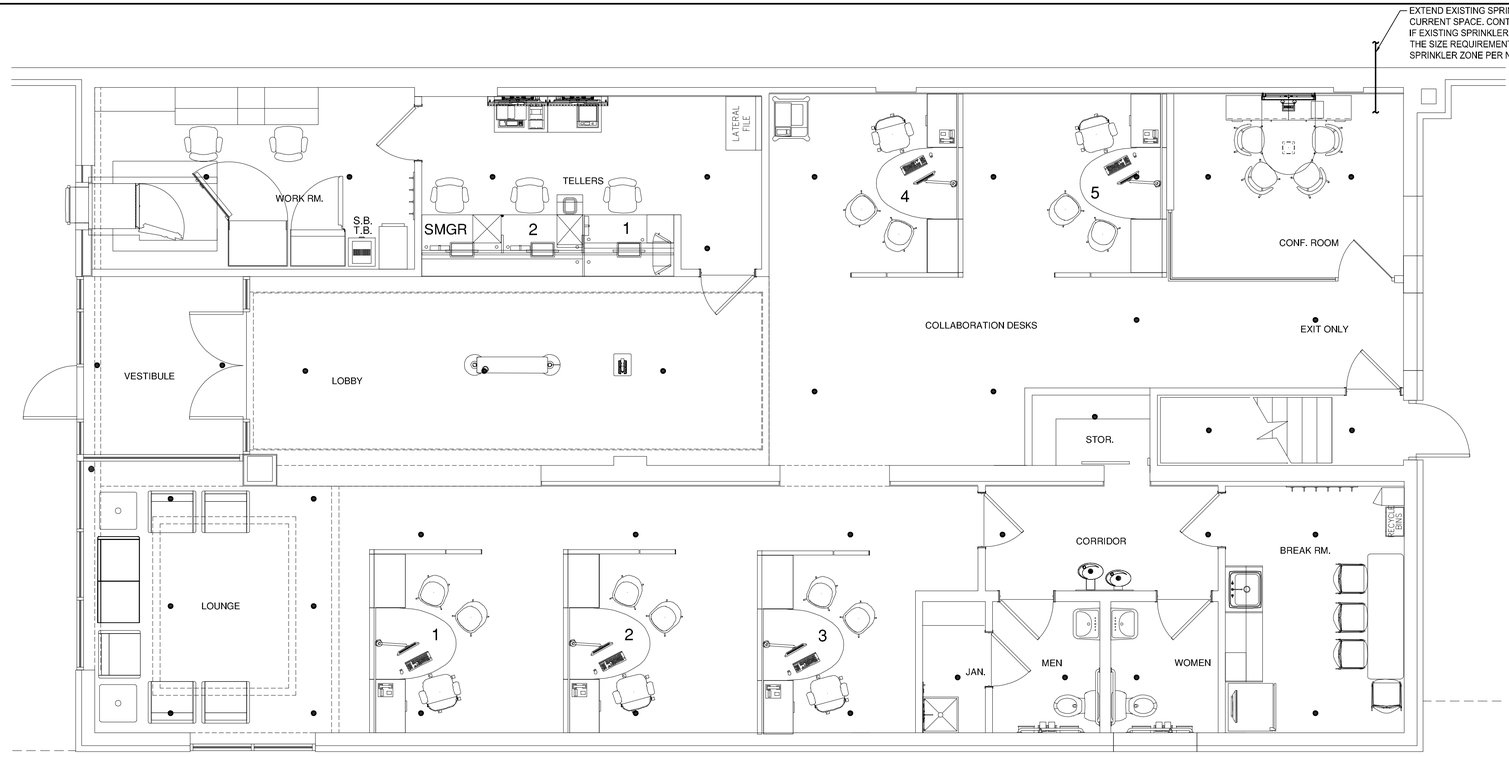
1 SP100 SPRINKLER BASEMENT PLAN

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



2 SP100 SPRINKLER FIRST FLOOR PLAN

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



2 SP100 SHEET GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CODES REFERENCED ON THE SPRINKLER GENERAL INFORMATION SHEET AND ALL LOCAL AND STATE AMENDMENTS GOVERNING THIS SITE.
2. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE FIRE PROTECTION SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
3. SPRINKLER CONTRACTOR SHALL VISIT THE SITE TO FULLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AS IT RELATES TO THE SCOPE OF WORK SHOWN ON THESE DRAWINGS. THE VISIT SHALL TAKE PLACE PRIOR TO BID AND FAILURE TO ALERT ENGINEER/ARCHITECT OF DISCREPANCIES FORFEITS RIGHTS TO ADDITIONAL MONIES FOR REDESIGN/INSTALLATION OF SUCH.
4. THE CONTRACTOR SHALL COORDINATE ALL SHUTDOWNS AND IDENTIFY ANY WORK WHICH MAY BE REQUIRED TO BE PERFORMED ON OVERTIME IN ORDER NOT TO DISTURB OCCUPIED SPACES WHICH ARE NOT WITHIN THE SCOPE OF THIS CONTRACT. OBTAIN WRITTEN APPROVAL OF THE CONSTRUCTION MANAGER PRIOR TO PERFORMING ANY SHUTDOWNS OR PERFORMING WORK ON OVERTIME.
5. MAINTAIN FIRE RATING OF WALLS, PARTITIONS, CEILINGS, AND FLOORS AT PIPE PENETRATIONS. SEAL PIPE PENETRATIONS WITH FIRESTOP MATERIALS. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATINGS.
6. THIS CONTRACTOR SHALL PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
7. SPRINKLER LOCATIONS SHOWN FOR NEW CEILINGS IN THIS AREA. CONTRACTOR RESPONSIBLE TO PROVIDE COVERAGE AS PER NFPA REQUIREMENTS FOR LIGHT HAZARD. INSTALL NEW HEADS WITH BRANCH PIPING AS REQUIRED.

WELLS FARGO

INTERIOR FIT–OUT

MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
0600364910

William R Ryan
N.Y. LIC. #: 017735-1 SEAL

CONSULTANTS

DJM CONSULTING ENGINEERING
the responsible solutions for your success
one Dudek Drive
Suite 300
Wall, NJ 07719
(732)920-3332
www.DJM-CE.com
CERTIFICATE OF AUTHORIZATION #24GA28225400

DAVID J. MANTONE
N.Y. LIC. #: 0092743-1

CONSULTANTS

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SHEET TITLE

SPRINKLER
BASEMENT PLAN

SHEET NUMBER
SP-100.00

SHT. OF

ARCHITECT PROJECT NUMBER
2174

1 P001 PROJECT GENERAL NOTES

1. DO NOT SCALE FROM THESE DRAWINGS.
2. DO NOT MAKE ANY CHANGES OR SUBSTITUTIONS WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER.
3. ALL INDICATED WORK SHALL BE PERFORMED BY THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
4. PROPER FIRE PROTECTION MEASURES, SATISFACTORY TO THE LOCAL FIRE DEPARTMENT SHALL BE TAKEN WHEN WELDING OR CUTTING WITH TORCHES OR ELECTRIC ARC.
5. REFER TO THE WRITTEN SPECIFICATIONS IN CONJUNCTION WITH THE PLANS FOR FULL PROJECT SCOPE.
6. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS THE RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWING TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. IN ADDITION, THIS CONTRACTOR MUST COORDINATE WITH OWNER/TENANT REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER/TENANT MAY CONSIDER PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
7. ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND THE RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER/TENANT, ARCHITECT AND ENGINEER PRIOR TO BID SUBMISSION.
8. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, LOCAL CODES AND ORDINANCES WHICH MAY BE IN EFFECT. ALL PLUMBING MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION, AND IT SHALL BE THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.
9. THE PLUMBING CONTRACTOR MUST VISIT THE SITE AND NOTE ALL EXISTING CONDITIONS AS WELL AS ALL CONDITIONS TO BE MET, PRIOR TO BID SUBMISSION. LACK OF A THOROUGH UNDERSTANDING OF THE PROJECT SCOPE AND CONDITIONS SHALL NOT CONSTITUTE AN EXCUSE FOR ERRORS OR OMISSIONS, NOR FOR A REQUEST FOR EXTRA COMPENSATION. IN ADDITION, THIS CONTRACTOR MUST COORDINATE AND UNDERSTAND ANY OWNER/TENANT REQUIREMENTS NOT SPECIFIED HEREIN.
10. ALL WORK SCHEDULING MUST BE COORDINATED WITH AN OWNER/TENANT REPRESENTATIVE PRIOR TO SUBMITTING HIS BID SO AS TO INCLUDE ALL ANCILLARY REQUIREMENTS OR PREMIUM TIME WORK.
11. PLUMBING CONTRACTOR SHALL THOROUGHLY EXAMINE THESE PLANS AS WELL AS FIELD VERIFY THE CONDITIONS, LOCATIONS AND ELEVATIONS AT THE JOB SITE. WHERE EXISTING CONDITIONS FACILITATE A MORE DIRECT AND/OR LESS EXPENSIVE JOB PERFORMANCE, THEN THE APPLICABLE CONTRACTOR SHALL ISSUE A CREDIT TO THE OWNER/TENANT. SUBMIT A LIST OF ALL CREDITS TO DEVIATIONS TO THESE PLANS TO AN APPROVED OWNER/TENANT REPRESENTATIVE PRIOR TO JOB COMMENCEMENT.
12. THESE PLUMBING PLANS ARE SCHEMATIC REPRESENTATION OF WHAT IS INTENT OF THE PLUMBING SYSTEMS ONLY. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE AND IN GOOD WORKMANLIKE MANNER. THE PLUMBING CONTRACTOR IS RESPONSIBLE TO MAKE SURE HE IS COMPLETELY AWARE OF THE LOCAL CODE, THE REQUIREMENTS ON THESE PLANS AND THE OWNER/TENANT'S RECOMMENDATIONS PRIOR TO SUBMITTING BIDS. THERE WILL BE NO ADDITIONAL COMPENSATION MADE FOR LACK OF KNOWLEDGE OR ANY REQUIREMENTS AFTER THE CONTRACTS HAVE BEEN AWARDED.
13. ALL TRENCHING AND BACKFILL FOR PLUMBING WORK SHALL BE PERFORMED BY THE PLUMBING CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNDERGROUND UTILITIES, PIPING CONDUIT, EQUIPMENT, ETC. WHILE EXCAVATING, CONTRACTOR SHALL RETURN ALL AREAS TO EXISTING CONDITION SUCH AS LANDSCAPING, PAVING, SIDEWALKS, LAWNS, ETC.
14. PRIOR TO INSTALLING SYSTEMS, THE PLUMBING CONTRACTOR SHALL MEET WITH AN OWNER/TENANT'S REPRESENTATIVE TO FIELD VERIFY THE EXACT LOCATION OF ALL PROPOSED EQUIPMENT.
15. RELATED TRADE CONTRACTORS SHALL BE RESPONSIBLE FOR ANY INCORRECTLY INSTALLED ITEMS. ANY REROUTING, SAW CUTTING OF CONCRETE FLOORS, REMOVAL OF CEILINGS, ETC. AFTER ITEMS ARE INSTALLED SHALL BE REDONE BY THE RESPECTIVE CONTRACTOR AND AT THEIR EXPENSE.
16. ALL WASTE AND VENT PIPING TO BE SERVICE WEIGHT CAST IRON. ALL DOMESTIC WATER PIPING TO BE COPPER (UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION).
17. PLUMBING CONTRACTOR TO PROVIDE CHROMED PLATED BRASS FITTINGS, VALVES AND PIPING WHEREVER PIPING IS EXPOSED.
18. RUN PIPING PARALLEL AND PERPENDICULAR TO CONSTRUCTION. RUN ALL DOMESTIC, WASTE AND VENT PIPING AS HIGH AS POSSIBLE THROUGHOUT THE ENTIRE BUILDING. INSTALL LONG RUNS OF PIPING WITHIN JOIST SPACE AND OTHER PIPING TIGHT TO BOTTOM OF STEEL OR OTHERWISE CONCEALED IN ALL OCCUPIED SPACES. COORDINATE AND VERIFY WITH OTHER CONTRACTORS AS NOT TO INTERFERE WITH DUCTWORK AND FIRE PROTECTION PIPING, LIGHTING SYSTEMS, ETC.
19. ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST INCONSPICUOUS. VERTICAL DROPS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND THEIR FINAL LOCATIONS SHALL BE COORDINATED AND RUN WITHIN CHASES, WALLS, SOFFITS WITH OTHER MECHANICAL / ELECTRICAL FEEDS. ALL SUCH LOCATIONS ARE TO BE REVIEWED WITH A OWNER/TENANT REPRESENTATIVE AND ARCHITECT PRIOR TO INSTALLATION.
20. PROVIDE CLEANOUTS AT BASE OF ALL STACKS, END OF RUNS, CHANGES OF DIRECTION AND AT INTERMEDIATE POINTS, REQUIRED SYSTEMS SHALL INCLUDE SOIL, WASTE AND VENT LINES. PROVIDE EXTRA HEAVY BRASS SCREW CAPS AND APPROVED FLUSH CAST BRASS DECK PLATES FOR LOCATIONS WITH FINISHED FLOORS. CLEANOUTS IN HORIZONTAL DRAINAGE LINES SHALL BE SPACED AT INTERVALS NOT TO EXCEED 50 FEET FOR PIPING 4" AND SMALLER.
21. PITCH HORIZONTAL SANITARY AND WASTE DRAINAGE PIPING 2 1/2" DIAMETER AND LESS AT 1/4" PER FOOT MINIMUM, PITCH HORIZONTAL SANITARY AND WASTE DRAINAGE PIPING 3" DIAMETER AND LARGER AT 1/8" PER FOOT MINIMUM.
22. PROVIDE CLEANOUTS AT BASE OF ALL STACKS, END OF RUNS, CHANGES OF DIRECTION AND AT INTERMEDIATE POINTS, REQUIRED SYSTEMS SHALL INCLUDE SOIL, WASTE AND VENT LINES. PROVIDE EXTRA HEAVY BRASS SCREW CAPS AND APPROVED FLUSH CAST BRASS DECK PLATES FOR LOCATIONS WITH FINISHED FLOORS. CLEANOUTS IN HORIZONTAL DRAINAGE LINES SHALL BE SPACED AT INTERVALS NOT TO EXCEED 100 FEET.
23. THE PLUMBING CONTRACTOR SHALL RUN OUT ALL BUILDING DRAINAGE AND WASTE LINES AND MAKE ALL CONNECTIONS TO SITE LEVEL SYSTEMS AS INDICATED ON BID DOCUMENTS.
24. ALL PLUMBING FIXTURES/APPLIANCES SHALL HAVE THEIR OWN INDEPENDENT SHUT-OFF VALVES, INSTALLED IN AN EASILY ACCESSIBLE AND CONVENIENT LOCATION.
25. ALL DOMESTIC WATER BRANCH LINES SHALL HAVE THEIR OWN RESPECTIVE SHUT-OFF VALVES.
26. PLUMBING CONTRACTOR TO PROVIDE CHROME PLATED BRASS FITTINGS, VALVES AND PIPING WHEREVER PIPING IS EXPOSED.
27. ALL DOMESTIC WATER OUTLETS SHALL BE PROTECTED AGAINST BACKFLOW AND CONTAMINATION BY ONE OF THE FOLLOWING METHODS:
    - AIR GAP
    - BAROMETRIC LOOP
    - ATMOSPHERIC TYPE VACUUM BREAKER
    - REDUCED PRESSURE ZONE BACKFLOW PREVENTER
28. APPROVED WATER HAMMER ARRESTERS SHALL BE INSTALLED ON WATER DISTRIBUTION SYSTEMS IN WHICH QUICK CLOSING VALVES ARE INSTALLED. WATER HAMMER ARRESTERS SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE QUICK CLOSING VALVE, AT THE END OF LONG PIPING RUNS, OR NEAR BATTERIES OF FIXTURES. ARRESTERS SHALL BE ACCESSIBLE FOR REPLACEMENT.
29. PLUMBER SHALL FLUSH, DISINFECT AND TEST ALL AFFECTED PLUMBING SYSTEMS IN SCOPE OF WORK PER LATEST ADOPTED PLUMBING CODE.
30. THE PLUMBING CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT CONCEALED OR EMBEDDED PIPING, PIPING CONNECTIONS AND ACCESS DOORS. THESE DRAWINGS SHALL INCLUDE ALL CHANGES AND DEVIATIONS FROM BID DOCUMENTS.

2 P001 PLUMBING SCHEDULES

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	PIPE SIZES (INCHES)				REMARKS
		CW	HW	W	V	
WC1	WATER CLOSET	1/2"	-	4"	2"	AMERICAN STANDARD #215AA.709 'CADET' TOUCHLESS 1.28 GPM ELONGATED TOILET, BEMIS #1955SSCT SOLID PLASTIC OPEN FRONT SEAT WITH SELF-SUSTAINING CHECK HINGES WITH STAINLESS STEEL POSTS; MCGUIRE #2166CCLK FLEXIBLE SUPPLY WITH CHROME PLATED BRASS ANGLE STOP AND LOOSE KEY. MOUNT TOILET TO MEET ADA REQUIREMENTS.
LV1	LAVATORY	1/2"	1/2"	2"	1 1/2"	ZURN INDUSTRIES #5340-4 VITREOUS CHINA WALL MOUNTED ADA COMPLIANT LAVATORY WITH 4-INCH CENTERS; ZURN #Z-6950-XL-S-N-PN-CP4-TMV-1 BATTERY POWERED FAUCET, 0.5 GPM LAMINAR FLOW, POLISHED NICKEL FINISH, COVER PLATE AND THERMOSTATIC MIXING VALVE; MCGUIRE #155WC 1 1/4" CHROME PLATED BRASS GRID WASTE STRAINER WITH OFFSET 17 GAUGE TAILPIECE; J.R. SMITH #2698 1 1/4" 17 GAUGE CHROME PLATED BRASS P-TRAP WITH TRAP PRIMER FITTING; MCGUIRE #2165CCLK FLEXIBLE SUPPLIES WITH CHROME PLATED BRASS ANGLE STOPS AND LOOSE KEYS - 2 REQUIRED; TRUEBRO #103 E-Z PIPE COVER KIT; J.R. SMITH #0700 LAVATORY WALL SUPPORT WITH CONCEALED ARMS. MOUNT FIXTURE TO MEET ADA REQUIREMENTS.
SK1	BREAK ROOM SINK	1/2"	1/2"	2"	1 1/2"	ELKAY 'LUSTERTONE' #LRAD252265 SINGLE BOWL ADA SINK WITH SINGLE FAUCET HOLE; ZURN #Z82300-XL-16M 1.0 GPM FAUCET WITH #LKAD35 DRAIN WITH STRAINER BASKET, MIXING VALVE (MV), SUPPLIES STOP VALVES AND P-TRAP. VERIFY BOWL DIMENSIONS AND DEPTH WITH ARCHITECT PRIOR TO ORDER.
DF1	DRINKING FOUNTAIN	1/2"	-	1 1/2"	1 1/2"	HALSEY TAYLOR MODEL OVL-II SEBP WALL MOUNTED BI-LEVEL STAINLESS STEEL DRINKING FOUNTAIN; PROVIDE WITH TWO P-TRAPS.
MS1	MOP SINK	3/4"	3/4"	3"	2"	FIAT #MSB2424 MOLDED STONE MOP BASIN WITH RIM GUARD, #830-AA FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE AND PAIL HOOK, #632-AA HOSE AND HOSE BRACKET, #889-CC MOP HANGER, #E-88-AA SS BUMPERGUARD, #MSG2424 SS WALL GUARD AND P-TRAP.
FD	FLOOR DRAIN	-	-	SEE PLANS	SEE PLANS	JR SMITH FIGURE #2005Y-NB-B, DUCO CAST IRON BODY AND FLASHING COLLAR WITH ADJUSTABLE NICKEL BRONZE GRATE, SEDIMENT BUCKET, #2692 QUAD CLOSE TRAP SEAL AND #3581 FUNNEL. VERIFY SIZE OF EXISTING FLOOR DRAIN BEING REPLACED PRIOR TO ORDERING.
MV	MIXING VALVE	1/2"	1/2"	-	-	WATTS SERIES #LFMMV BELOW DECK LEAD FREE THERMOSTATIC MIXING VALVE SET NOT TO EXCEED 105° F, LOCATED AT ALL HAND SINKS AND LAVATORIES.
IM1	ICE MAKER BOX	1/2"	-	-	-	GUY GRAY #SSIB1AB STAINLESS STEEL WALL BOX FOR ICE MAKER SUPPLY. MOUNT AT 48" ABOVE FINISHED FLOOR.
WF1	WATER FILTER	1/2"	-	-	-	CUNO MODEL #CFS8576-S WATER FILTER WITH CARTRIDGE AND MOUNTING BRACKET. SERVICE FLOW RATE: 1.5 GPM. FILTER CARTRIDGE LIFE 10,000 GALLONS. EFFICIENCY: 1 MICRON.
WHA	WATER HAMMER ARRESTER	1/2"	-	-	-	SIOUX CHIEF SERIES #650 "HYDRARESTER", SIZED AND INSTALLED AS PER MANUFACTURER'S REQUIREMENTS.

NOTES:
1. ALL FIXTURES SUPPLIED BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO SUPPLY ALL COMPONENTS NECESSARY FOR A COMPLETE INSTALLATION OF PLUMBING FIXTURES.
2. INSTALL FIXTURES IN ACCORDANCE WITH STATE AND LOCAL BARRIER FREE REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT TYPE, COUNT, AND LOCATION OF HANDICAP FIXTURES.
3. FAUCET CONTROLS AND MECHANISMS SHALL NOT REQUIRE ANY TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, WITH OPERATING FORCE NOT TO EXCEED 5 LBS/FT.
4. ALL FIXTURES SHALL BE PROVIDED WITH STOP VALVES FOR ALL WATER CONNECTIONS.

PLUMBING MATERIALS SCHEDULE

SERVICE	SIZE	PIPE	FITTINGS	UNIONS & FLANGES	JOINTS
WASTE, STORM AND VENT (ABOVE GRADE)	ALL	SERVICE WEIGHT CAST IRON (CISPI 301)	SERVICE WEIGHT DRAINAGE PATTERN	-	NO HUB GASKET ASTM C564, HEAVY DUTY STAINLESS STEEL BANDS PER ASTM C1540
WASTE AND VENT (EXPOSED PIPING)	ALL	SERVICE WEIGHT CAST IRON (CISPI 301)	SERVICE WEIGHT DRAINAGE PATTERN	-	NO HUB GASKET ASTM C564, HEAVY DUTY STAINLESS STEEL BANDS PER ASTM C1540
DOMESTIC COLD WATER AND HOT WATER INSIDE BUILDING	ALL	COPPER TUBE SEAMLESS TYPE "L" HARD TEMPER ASTM B-88M	COPPER CAST (ASME B16.18) OR WROUGHT (ASME B16.22)	SWEAT-END UNIONS #150 BRASS GROUND JOINT CONNECT TO STEEL WITH DIELECTRIC ADAPTERS	SOLDERED 95-5 TIN ANTIMONY (LEAD CONTENT CERTIFIED LESS THEN 0.2%) WATER - FLUSHABLE FLUX (ASTM B813)
CONDENSATE FROM AIR HANDLERS	ALL	SCHEDULE 40 PVC PIPE & FITTINGS, DWV (ASTM D2665)	PVC SOCKET FITTINGS ASTM D 2665 MADE TO ASTM D3311, DRAIN, WASTE AND VENT PATTERNS	-	SOLVENT CEMENT APPLY PURPLE PRIMER PRIOR TO APPLYING CEMENT. CEMENT VOC < 510 G/L PRIMER VOC < 550 G/L (EPA METHOD 24)
CONDENSATE FROM AIR HANDLERS	ALL	COPPER DWV TUBE, DRAWN TEMPER ASTM B306	COPPER DRAINAGE FITTINGS ASME B16.23 CAST COPPER OR ASME B16.29 WROUGHT COPPER SOLDER JOINT FITTINGS	ASME B16.24 CAST COPPER WITH SOLDER JOINT ENDS	SOLDER ASTM B32 LEAD FREE WITH ASTM B813 WATER FLUSHABLE FLUX

NOTES:
1. PVC WILL NOT BE PERMITTED FOR WASTE, VENT OR WATER PIPING.
2. ALL COLD WATER, HOT WATER, HOT WATER RECIRCULATION, STORM PIPING AND CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK OWENS CORNING SSL II - ASJ OR EQUAL. PROVIDE PREFORMED FITTINGS WITH PVC COVER.

WATER HEATER SCHEDULE

(EWH X)

SYMBOL	MANUFACTURER MODEL	DESCRIPTION	PIPE SIZES		RECOVERY (GPH)	STORAGE CAPACITY (GALLONS)	INPUT KW	ELECTRIC	REMARKS
			CW	HW	90°F RISE				
EWH-1	AO SMITH DEL-15S	ELECTRIC WATER HEATER	3/4"	3/4"	14	15	3	208V	SEE NOTES

NOTES:
1. PROVIDE WITH DRIP PAN, MINIMUM 2" LARGER THAN WATER HEATER.
2. PROVIDE TACO "LEAKBREAKER" WATER HEATER SHUT-OFF VALVE SYSTEM INCLUDING VALVE, WATER SENSOR, MODULE AND ALL ACCESSORIES.
3. PROVIDE AMTROL ST-5 EXPANSION TANK, HANG FROM STRUCTURE ABOVE, NOT FROM PIPING.
4. WATER HEATER STORAGE TEMP IS TO BE SET TO 120°.

3 P001 PLUMBING SYMBOL LEGEND

DESCRIPTION	SYMBOL
SANITARY PIPING BELOW FINISHED FLOOR	
SANITARY PIPING ABOVE FINISHED FLOOR	
VENT PIPING	
COLD WATER	
HOT WATER	
CONDENSATE	
NATURAL GAS	G
BALL VALVE	
CHECK VALVE	
GAS VALVE	
GAS PRESSURE REGULATOR	
TRAP PRIMER	
WATER HAMMER ARRESTER	
FLOOR DRAIN	
DECK PLATE CLEAN OUT	
WALL CLEAN OUT	
CEILING CLEAN OUT	
TRAP	
PIPE DOWN, DROP AND RISE	
PIPE UP	
VENT THRU ROOF	
WATER METER	
GAS METER	
PUMP	
REDUCED PRESSURE ZONE ASSEMBLY	RPZ
CONNECT TO EXISTING	

SYMBOL LIST NOTE:
SYMBOL LIST SHOWN IS FOR GENERAL REFERENCE ONLY. THE PRESENCE OF A SYMBOL DOES NOT IMPLY ITS USE ON THIS PROJECT. REFER TO DRAWINGS FOR SPECIFIC SYMBOLS USED.

4 P001 PLUMBING ABBREVIATIONS

AD	ACCESS DOOR	HW	HOT WATER
AFF	ABOVE FINISHED FLOOR	HWR	HOT WATER RECIRCULATION
BFF	BELOW FINISHED FLOOR	IE	INVERT ELEVATION
CD	CONDENSATE	LAV	LAVATORY
CL	CENTER LINE	MS	MOP SINK
CODP	CLEAN OUT DECK PLATE	MV	MIXING VALVE
CLG	CEILING	NC	NORMALLY CLOSED
CO	CLEAN OUT	NIC	NOT IN CONTRACT
CW	COLD WATER	NO	NORMALLY OPEN
DF	DRINKING FOUNTAIN	OC	ON CENTER
DFU	DRAINAGE FIXTURE UNIT	PC	PLUMBING CONTRACTOR
DN	DOWN	QTY	QUANTITY
DW	DISHWASHER	S, SAN	SANITARY
EWC	ELECTRIC WATER COOLER	SPR	SPRINKLER
EWH	ELECTRIC WATER HEATER	SP	STAND PIPE
(E)	EXISTING	SS	STAINLESS STEEL
FAI	FRESH AIR INTAKE	TP	TRAP PRIMER
FD	FLOOR DRAIN	TYP	TYPICAL
FFD	FUNNEL FLOOR DRAIN	V	VENT
FP	FROST PROOF	VB	VACUUM BREAKER
FPWH	FROST PROOF WALL HYDRANT	VIF	VERIFY IN FIELD
G	NATURAL GAS	VTR	VENT THRU ROOF
GPM	GALLONS PER MINUTE	WCO	WALL CLEAN OUT
HB	HOSE BIBB	WHA	WATER HAMMER ARRESTER

5 P001 CODES AND REGULATION INFORMATION

THE WORK SHALL BE EXECUTED IN STRICT CONFORMITY WITH SPECIFICATIONS AND WITH THE LATEST EDITION OF THE STATE AND LOCAL BUILDING CODES AND ALL LOCAL REGULATIONS THAT MAY APPLY. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE THE MORE STRINGENT STANDARD SHALL APPLY.

REGULATIONS INCLUDING BUT NOT LIMITED TO:

THE BUILDING SHALL BE CONSTRUCTED TO BE IN COMPLIANCE WITH THE NY STATE ADOPTED 2020 BUILDING CODE OF NEW YORK STATE (IBC 2018 WITH AMENDMENTS).

OTHER APPLICABLE CODES ARE:

- 2020 PLUMBING CODE OF NEW YORK STATE (IPC 2018 WITH AMENDMENTS)
- 2020 FUEL GAS CODE OF NEW YORK STATE (IFGC 2018 WITH AMENDMENTS)
- 2017 NATIONAL ELECTRICAL CODE
- 2020 ENERGY CONSERVATION CODE OF NEW YORK STATE (2018 IECC WITH AMENDMENTS
- 2020 MECHANICAL CODE OF NEW YORK STATE (IMC WITH AMENDMENTS)
- 2020 FIRE CODE OF NEW YORK STATE (IFC 2018 WITH AMENDMENTS)

6 P001 PLUMBING DRAWING LIST

DWG. #	DRAWING TITLE
P-001	PLUMBING GENERAL INFORMATION
P-002	PLUMBING SPECIFICATIONS SHEET 1
P-003	PLUMBING SPECIFICATIONS SHEET 2
P-100	PLUMBING BASEMENT PLAN
P-101	PLUMBING FIRST FLOOR PLANS
P-200	PLUMBING RISER AND DETAILS

WELLS FARGO

INTERIOR FIT–OUT

MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
0600364910

William R Ryan
N.Y. LIC. # 017735-1 SEAL
CONSULTANTS

DJM CONSULTING ENGINEERING
attn: Dudesh Gehe
Suite 300
Will, IM 07733
(732)329-0332
www.DJM-CE.com
CERTIFICATE OF AUTHORIZATION #24GA28225400

DAVID J. MANTONE
N.Y. LIC. #: 0092743-1
CONSULTANTS

REVISIONS

NO.	DATE	DESCRIPTION	BY

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SHEET TITLE
PLUMBING
GENERAL INFORMATION

SHEET NUMBER
P-100.00

SHT. OF

ARCHITECT PROJECT NUMBER
2174

1
P002

PLUMBING SPECIFICATIONS

BASIC PLUMBING REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

ALL APPLICABLE REQUIREMENTS OF OTHER PORTIONS OF THE CONTRACT DOCUMENTS APPLY TO THE WORK OF THIS SECTION INCLUDING, BUT NOT LIMITED TO, ALL DRAWINGS, ALL SPECIFICATIONS, GENERAL CONDITIONS, AND GENERAL REQUIREMENTS INCLUDING SUBMITTALS.

1.2 APPLICABLE CODES AND STANDARDS

APPLICABLE CODES: ALL LOCAL AND STATE BUILDING CODES.
APPLICABILITY OF STANDARDS: EXCEPT WHERE THE CONTRACT DOCUMENTS INCLUDE MORE STRINGENT REQUIREMENTS, APPLICABLE CONSTRUCTION INDUSTRY STANDARDS HAVE THE SAME FORCE AND EFFECT AS IF BOUND OR COPIED DIRECTLY INTO THE CONTRACT DOCUMENTS. SUCH STANDARDS ARE MADE A PART OF THE CONTRACT DOCUMENTS BY REFERENCE.

CONFLICTING REQUIREMENTS: WHERE COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED, AND THE STANDARDS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, REFER REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, AND UNCERTAINTIES TO THE ARCHITECT FOR A DECISION BEFORE PROCEEDING.

PUBLICATION DATES: WHERE THE DATE OF ISSUE OF A REFERENCED STANDARD IS NOT SPECIFIED, COMPLY WITH THE STANDARD IN EFFECT AS OF DATE OF CONTRACT DOCUMENTS.

ABBREVIATIONS AND NAMES: TRADE ASSOCIATION NAMES AND TITLES OF GENERAL STANDARDS ARE FREQUENTLY ABBREVIATED. THE FOLLOWING ACRONYMS OR ABBREVIATIONS AS REFERENCED IN CONTRACT DOCUMENTS ARE DEFINED TO MEAN THE ASSOCIATED NAMES. NAMES AND ADDRESSES ARE SUBJECT TO CHANGE AND ARE BELIEVED TO BE BUT ARE NOT ASSURED TO BE ACCURATE AND UP TO DATE AS OF DATE OF CONTRACT DOCUMENTS.

AGA - AMERICAN GAS ASSOCIATION
ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
ARI - AIR CONDITIONING AND REFRIGERATION INSTITUTE
ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS
ASME - AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASSE - AMERICAN SOCIETY OF SANITARY ENGINEERING
ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS - AMERICAN WELDING SOCIETY
AWWA - AMERICAN WATER WORKS ASSOCIATION
CISPI - CAST IRON SOIL PIPE INSTITUTE
NEC - NATIONAL ELECTRIC CODE
NFPA - NATIONAL FIRE PROTECTION ASSOCIATION
NSF - NATIONAL SANITATION FOUNDATION
PDI - PLUMBING AND DRAINAGE INSTITUTE
UL - UNDERWRITERS LABORATORIES
DOT - DEPARTMENT OF TRANSPORTATION
EPA - ENVIRONMENTAL PROTECTION AGENCY
OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

1.3 SUBMITTALS

PRIOR TO THE PERFORMANCE OF ANY WORK OR INSTALLATION OF ANY MATERIALS, OBTAIN APPROVAL FROM THE ARCHITECT BY SUBMITTING SHOP DRAWINGS AND DATA SHEETS.

SUBMITTAL OF SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES WILL BE ACCEPTED ONLY WHEN SUBMITTED BY THE GENERAL CONTRACTOR. DATA SUBMITTED FROM SUBCONTRACTORS AND MATERIAL SUPPLIERS DIRECTLY TO THE ARCHITECT WILL NOT BE PROCESSED. CERTIFIED DRAWINGS AND CATALOG DATA SHEETS SHALL SHOW:
1. SPECIFICALLY WHAT ITEMS AND FEATURES ARE TO BE PROVIDED.
2. APPLICABLE SPECIFICATION SECTION NUMBER AND EQUIPMENT TAG NUMBER.
3. PRINCIPAL DIMENSIONS AND DETAILS OF CONSTRUCTION.
4. WEIGHTS: INFORMATION REQUIRED FOR THE DESIGN OF SUPPORTS AND FOUNDATIONS.
5. SIZES AND LOCATIONS OF PIPING AND CONNECTIONS.
6. PERFORMANCE DATA CERTIFIED BY THE MANUFACTURER.
7. SUBMIT SCHEDULE OF PROPOSED PIPING, VALVES, SPECIALTIES, ETC.
8. ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE SEPARATELY IDENTIFIED.

PLUMBING SUBMITTALS SHALL BE PROVIDED FOR THE FOLLOWING ITEMS:
1. PIPING AND FITTING MATERIALS.
2. PLUMBING VALVES AND SPECIALTIES.
3. PIPING HANGER AND ATTACHMENT ASSEMBLIES.
4. PIPING INSULATION.
5. ALL SCHEDULED PLUMBING FIXTURES, DRAINS, AND CLEANOUTS.
6. UTILITY CONNECTION DETAILS REQUIRED BY AUTHORITIES HAVING JURISDICTION.

APPROVAL OF SHOP DRAWINGS DOES NOT RELEASE RESPONSIBILITY OF COORDINATING HIS WORK AT JOBSITE AND TAKING FIELD MEASUREMENTS. IN CASES WHERE INTERFERENCES BECOME APPARENT, NOTIFY ARCHITECT SO THAT SUCH INTERFERENCES MAY BE RESOLVED PRIOR TO PROCEEDING WITH SHOP WORK. NO CLAIM WILL BE ALLOWED FOR WORK THAT MIGHT HAVE TO BE MOVED OR REPLACED BASED ON A CLAIM THAT WORK WAS PLACED IN ACCORDANCE WITH DIMENSIONS INDICATED ON AN APPROVED SHOP DRAWING.

1.4 COORDINATION

COORDINATE WITH THE BUILDING TRADES:
1. STRUCTURAL MEMBERS, PADS, AND BUILDING OPENINGS FOR FIXTURES, EQUIPMENT, PIPING, ETC., FOR USE BY THIS INDICATED ON THE ARCHITECTURAL AND STRUCTURAL PLANS ARE THE COORDINATION RESPONSIBILITY OF THIS INSTALLER. PAY FOR ANY CHANGES IN THE ABOVE REQUIREMENTS AFTER LETTING AND ACCEPTING THE CONTRACT.
2. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT, DIRECTIONS AND SIZES OF EQUIPMENT, PIPING, ETC. IT IS NOT INTENDED TO SHOW EVERY OFFSET AND FITTING OF EVERY SITE DIFFICULTY THAT MAY BE ENCOUNTERED. PROVIDE ALL MATERIALS AND PERFORM ALL LABOR NECESSARY TO MAKE COMPLETE WORKING SYSTEMS, READY FOR USE. WITHOUT EXTRA CHARGE. ALL MEASUREMENTS MUST BE VERIFIED ON THE JOBSITE.
3. EXAMINE THE SITE AND ALL DRAWINGS BEFORE PROCEEDING WITH THE LAYOUT AND INSTALLATION OF THIS TO SUIT ACTUAL CONDITIONS. CONFER AND COOPERATE WITH OTHER TRADES ON THE JOB SO THAT ALL WORK WILL BE INSTALLED IN PROPER RELATIONSHIP. COORDINATE PRECISE LOCATION OF PARTS WITH OTHER WORK. ALL SYSTEMS SHALL BE INSTALLED TO PROVIDE MAXIMUM HEADROOM, EXCEPT WHERE DIMENSIONED OTHERWISE ON THE DRAWINGS.
4. COORDINATE EQUIPMENT INSTALLATION WITH OTHER BUILDING COMPONENTS. INSTALL REQUIRED SUPPORTING DEVICES AND SET SLEEVES IN POURED-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.

1.5 RECORD DOCUMENTS

MAINTAIN A CLEAN, UNDAMAGED SET OF PRINTS OF CONTRACT DRAWINGS AND SHOP DRAWINGS. MARK THE SET TO SHOW THE ACTUAL INSTALLATION WHERE THE INSTALLATION VARIES SUBSTANTIALLY FROM THE WORK AS ORIGINALLY SHOWN. MARK WHICHEVER DRAWING IS MOST CAPABLE OF SHOWING CONDITIONS FULLY AND ACCURATELY; WHERE SHOP DRAWINGS ARE USED, RECORD A CROSS-REFERENCE AT THE CORRESPONDING LOCATION ON THE CONTRACT DRAWINGS. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD LATER.
1. MARK INFORMATION THAT IS IMPORTANT TO THE OWNER, BUT WAS NOT SHOWN ON CONTRACT DRAWINGS OR SHOP DRAWINGS.
2. ORGANIZE RECORD DRAWING SHEETS INTO MANAGEABLE SETS, BIND WITH DURABLE PAPER COVER SHEETS, AND PRINT SUITABLE TITLES, DATES AND OTHER IDENTIFICATION ON THE COVER OF EACH SET.
3. MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED. CONCEALED UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE LOCATED (I.E., TRAPS, STRAINERS, EXPANSION COMPENSATORS, TANKS, ETC.).
4. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM AT LEAST TWO PROMINENT BUILDING LINES.
5. APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
6. INCLUDE ALL "CORRECTED FOR RECORD" SHOP DRAWINGS TO REFLECT APPROVALS RECEIVED.

1.6 MAINTENANCE MANUALS

ORGANIZE OPERATING AND MAINTENANCE DATA INTO SUITABLE SETS OF MANAGEABLE SIZE. BIND PROPERLY INDEXED DATA IN INDIVIDUAL HEAVY-DUTY 2-INCH, 3-RING VINYL-COVERED BINDERS, WITH POCKET FOLDERS FOR FOLDED SHEET INFORMATION. MARK APPROPRIATE IDENTIFICATION ON FRONT AND SPINE OF EACH BINDER. INCLUDE THE FOLLOWING TYPES OF INFORMATION:
1. COPIES OF WARRANTIES.
2. WIRING DIAGRAMS.
3. INSPECTION PROCEDURES.
4. APPROVED SHOP DRAWINGS AND PRODUCT DATA.
5. DESCRIPTION OF FUNCTION, NORMAL OPERATING CHARACTERISTICS AND LIMITATIONS, PERFORMANCE CURVES, ENGINEERING DATA AND TESTS, AND COMPLETE NOMENCLATURE AND COMMERCIAL NUMBERS OF REPLACEMENT PARTS.
6. MANUFACTURER'S PRINTED OPERATING PROCEDURES TO INCLUDE START-UP, BREAK-IN, AND ROUTINE AND NORMAL OPERATING INSTRUCTIONS; REGULATION, CONTROL, STOPPING, SHUTDOWN, AND EMERGENCY INSTRUCTIONS; AND SUMMER AND WINTER OPERATING INSTRUCTIONS.
7. MAINTENANCE PROCEDURES FOR ROUTINE PREVENTATIVE MAINTENANCE AND TROUBLESHOOTING; DISASSEMBLY, REPAIR, AND REASSEMBLY; ALIGNING AND ADJUSTING INSTRUCTIONS.
8. SERVICING INSTRUCTIONS AND LUBRICATION CHARTS AND SCHEDULES.

1.7 REGULATIONS AND PERMITS

PROVIDE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES HAVING JURISDICTION. PAY FOR AND OBTAIN ALL REQUIRED PERMITS & SCHEDULE INSPECTIONS IN A TIMELY MANNER AS TO NOT DELAY THE PROJECT. OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO ENTERING MANHOLES, USE OF WATER FROM LOW PRESSURE HYDRANTS, DEMOLITION AND NEW WORK, ETC. PRIOR TO COMMENCE OF WORK.

PART 2 - PRODUCTS

2.1 GENERAL PRODUCT REQUIREMENTS

ALL EQUIPMENT AND MATERIALS, EXCEPT AS OTHERWISE SPECIFIED, SHALL BE NEW, OF CURRENT PRODUCTION, FIRST QUALITY AND OF THE BEST OF EACH CLASS SPECIFIED. MATERIALS, PRODUCTS, AND EQUIPMENT SHALL BE DELIVERED TO JOBSITE WITH FACTORY PACKAGING BEARING MANUFACTURER'S NAME OR LABEL, AND UNION LABEL WHENEVER PRACTICAL. AVAILABLE MANUFACTURERS SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURING OFFERING PRODUCTS SHOULD BE INCORPORATED INTO THE WORK.

PART 3 - EXECUTION

3.1 PLUMBING INSTALLATIONS

GENERAL: SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS ELEMENTS OF PLUMBING SYSTEMS, MATERIALS, AND EQUIPMENT. COMPLY WITH THE FOLLOWING REQUIREMENTS:
1. COORDINATE SYSTEMS, EQUIPMENT, AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS.
2. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS.
3. ARRANGE FOR CHASES, SLOTS, AND OPENINGS IN OTHER BUILDING COMPONENTS DURING PROGRESS OF CONSTRUCTION, TO ALLOW FOR MECHANICAL INSTALLATIONS.
4. COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SLEEVES TO BE SET IN POURED-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.
5. INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, WHERE INSTALLED EXPOSED IN FINISHED SPACES.
6. INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH MINIMUM A OF INTERFERENCE WITH OTHER INSTALLATIONS.
7. PROVIDE ACCESS PANELS OR DOORS WHERE UNITS ARE CONCEALED BEHIND FINISHED SURFACES.
8. COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS, TO THE EXTENT THAT THOSE INSTRUCTIONS AND RECOMMENDATIONS ARE MORE EXPLICIT OR STRINGENT THAN REQUIREMENTS CONTAINED IN CONTRACT DOCUMENTS.
9. INSPECT MATERIALS OR EQUIPMENT IMMEDIATELY UPON DELIVERY AND AGAIN PRIOR TO INSTALLATION. REJECT DAMAGED AND DEFECTIVE ITEMS.
10. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, AND CONCRETE FLOOR AND ROOF SLABS.

3.2 FINAL INSPECTION

PRIOR TO FINAL ACCEPTANCE, ALL SYSTEMS SHALL BE OPERATED TO TEST PERFORMANCE TO THE SATISFACTION OF THE ARCHITECT.
1. WATER SHALL CIRCULATE THROUGHOUT SYSTEMS WITHOUT NOISE, WATER HAMMER, LEAKS, TRAPPING, OR AIR-BINDING.
2. MOTORS AND OTHER EQUIPMENT SHALL OPERATE WITHOUT EXCESSIVE NOISE OR VIBRATION.
3. DRAINS SHALL FLOW FREELY, WITHOUT EXCESSIVE NOISE, LEAKS OR STOPPAGES.

CORRECT DEFECTS DEMONSTRATED BY INSPECTIONS AND TESTS TO THE SATISFACTION OF THE ARCHITECT.

3.3 CLEANING OF SYSTEMS AND PREMISES

ALL EQUIPMENT AND FIXTURES SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS AT THE COMPLETION OF THE PROJECT AND PRIOR TO ACCEPTANCE BY THE OWNER.

3.4 PROTECTION

GUARDS, BARRICADES, LIGHTS, SERVICES, ETC., NECESSARY FOR THE PROTECTION OF PERSONS AND PROPERTY SHALL BE FURNISHED AND MAINTAINED.

EXISTING WORK SUCH AS PAVEMENTS, LAWNS, SIDEWALKS, FLOORS, CURBS, AND OTHER STRUCTURES AND UTILITIES WHICH ARE DAMAGED OR DISTURBED DUE TO MAKING CONNECTIONS OR ANY PHASE OF OPERATIONS SHALL BE RESTORED TO THE SATISFACTION OF THE OWNER AND THE GOVERNING AUTHORITIES.

BASIC PLUMBING FIXTURES, PIPING MATERIALS AND METHODS

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK EXTENT OF PLUMBING PIPING WORK IS INDICATED ON DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION INCLUDING BUT IS NOT LIMITED TO THE FOLLOWING:
1. PIPE
2. FITTINGS
3. PIPING JOINTS
4. SLEEVES FOR PIPES
5. UNIONS
6. CLEANOUTS AND CLEANING SCREW PLUGS
7. ESCUTCHEON PLATES
8. TRAPS

1.2 QUALITY ASSURANCE

WELDER'S QUALIFICATIONS: ALL WELDERS SHALL BE QUALIFIED IN ACCORDANCE WITH ASME BOILER AND PRESSURE VESSEL CODE, SECTION IX, WELDING AND BRAZING QUALIFICATIONS.

WELDING PROCEDURES AND TESTING SHALL COMPLY WITH ANSI STANDARD B31.1.0 - STANDARD CODE FOR PRESSURE PIPING, POWER PIPING, AND THE AMERICAN WELDING SOCIETY, WELDING HANDBOOK.

SOLDERING AND BRAZING PROCEDURES SHALL CONFORM TO ANSI B9.1 STANDARD SAFETY CODE FOR MECHANICAL REFRIGERATION.

1.3 DELIVERY, STORAGE, AND HANDLING

PROVIDE FACTORY-APPLIED PLASTIC END-CAPS ON EACH LENGTH OF PIPE AND TUBE, EXCEPT FOR CONCRETE, CORRUGATED METAL, HUB-AND-SPIGOT, CLAY PIPE. MAINTAIN END-CAPS THROUGH SHIPPING, STORAGE AND HANDLING TO PREVENT PIPE-END DAMAGE AND PREVENT ENTRANCE OF DIRT, DEBRIS, AND MOISTURE.

PROTECT STORED PIPES AND TUBES. ELEVATE ABOVE GRADE AND ENCLOSE WITH DURABLE, WATERPROOF WRAPPING. WHEN STORED INSIDE, DO NOT EXCEED STRUCTURAL CAPACITY OF THE FLOOR.

PROTECT FLANGES, FITTINGS, AND SPECIALTIES FROM MOISTURE AND DIRT BY INSIDE STORAGE AND ENCLOSURE, OR BY PACKAGING WITH DURABLE, WATERPROOF WRAPPING.

PART 2 - PRODUCTS

2.1 PIPE AND FITTINGS

SEE PLUMBING MATERIALS SCHEDULE FOR INFORMATION.

2.2 PIPING SPECIALTIES

ESCUTCHEONS: CHROME-PLATED, STAMPED STEEL, HINGED, SPLIT-RING ESCUTCHEON, WITH SET SCREW, INSIDE DIAMETER SHALL CLOSELY FIT PIPE OUTSIDE DIAMETER, OR OUTSIDE OF PIPE INSULATION WHERE PIPE IS INSULATED. OUTSIDE DIAMETER SHALL COMPLETELY COVER THE OPENING IN FLOORS, WALLS, OR CEILINGS.

MANUFACTURERS OF PIPE ESCUTCHEONS:
1. CHICAGO SPECIALTY MFG. CO.
2. SANITARY-DASH MFG. CO.
3. GRINNELL DIELECTRIC

UNIONS: PROVIDE DIELECTRIC UNIONS WITH APPROPRIATE END CONNECTIONS FOR THE PIPE MATERIALS IN WHICH INSTALLED (SCREWED, SOLDERED, OR FLANGED), WHICH EFFECTIVELY ISOLATE DISSIMILAR METALS, PREVENT GALVANIC ACTION, AND STOP CORROSION.

MANUFACTURERS OF DIELECTRIC UNIONS:
1. ECLIPSE, INC.
2. PERFECTION CORP.
3. WATTS REGULATOR CO.

SLEEVES:

SHEET-METAL SLEEVES: 10 GAGE, GALVANIZED SHEET METAL, ROUND TUBE CLOSED WITH WELDED LONGITUDINAL JOINT. STEEL SLEEVES: SCHEDULE 40 GALVANIZED, WELDED STEEL PIPE, ASTM A53, GRADE

2.3 LIQUID-IN-GLASS THERMOMETERS

ACCURACY: PLUS OR MINUS 1 PERCENT OF RANGE SPAN OR PLUS OR MINUS ONE SCALE DIVISION TO MAXIMUM OF 1.5 PERCENT OF RANGE SPAN.

SCALE RANGE: TEMPERATURE RANGES FOR SERVICES LISTED AS FOLLOWS:
1. DOMESTIC HOT WATER: 30 TO 240 DEG WITH 2-DEGREE SCALE DIVISIONS (0 TO 115 DEG C WITH 1-DEGREE SCALE DIVISIONS).
2. DOMESTIC COLD WATER: 0 TO 100 DEG F WITH 2-DEGREE SCALE DIVISIONS (MINUS 18 TO 38 DEG C WITH 1-DEGREE SCALE DIVISIONS).

CASE: DIE CAST, ALUMINUM FINISHED, IN BAKED EPOXY ENAMEL, GLASS FRONT, SPRING SECURED, 9 INCHES LONG.

ADJUSTABLE JOINT: FINISHED TO MATCH CASE, 180-DEGREE ADJUSTMENT IN VERTICAL PLANE, 360-DEGREE ADJUSTMENT IN HORIZONTAL PLANE, WITH LOCKING DEVICE.

TUBE: RED READING, LIQUID FILLED, MAGNIFYING LENS.

SCALE: SATIN-FACED, NONREFLECTING ALUMINUM, WITH PERMANENTLY ETCHED MARKINGS.

STEM: COPPER-PLATED STEEL, ALUMINUM OR BRASS, FOR SEPARABLE SOCKET, LENGTH TO SUIT INSTALLATION.

MANUFACTURERS: LIQUID-IN-GLASS THERMOMETERS:
1. MARSHALLTOWN INSTRUMENTS, INC.
2. TRERICE (H.O.) CO.
3. WEISS INSTRUMENTS, INC.
4. WEKSLER INSTRUMENTS CORP.

2.4 PRESSURE GAGES

TYPE: GENERAL USE, ASME B40.1, GRADE A, PHOSPHOR BRONZE BOURDON TUBE TYPE, BOTTOM CONNECTION.

CASE: DRAWN STEEL OR BRASS, GLASS LENS, 4-1/2-INCHES DIAMETER.

CONNECTOR: BRASS, 1/4-INCH NPS.

SCALE: WHITE COATED ALUMINUM, WITH PERMANENTLY ETCHED MARKINGS.

ACCURACY: PLUS OR MINUS 1 PERCENT OF RANGE SPAN.

RANGE: 2 TIMES OPERATING PRESSURE BUT NOT LESS THAN DESIGN PRESSURE.

SNUBBER: PROVIDE 1/4-INCH NPS BRASS BUSHING WITH CORROSION-RESISTANT POROUS METAL DISC. DISC MATERIAL SHALL BE SUITABLE FOR FLUID SERVED AND RATED PRESSURE.

MANUFACTURERS: PRESSURE GAGES:
1. MARSHALLTOWN INSTRUMENTS, INC.
2. TRERICE (H.O.) CO.
3. WEISS INSTRUMENTS, INC.
4. WEKSLER INSTRUMENTS CORP.

PART 3 - EXECUTION

3.1 PREPARATION

REAM ENDS OF PIPES AND TUBES, AND REMOVE BURRS. BEVEL PLAIN ENDS OF STEEL PIPE.

REMOVE SCALE, SLAG, DIRT, AND DEBRIS FOR BOTH INSIDE AND OUTSIDE OF PIPING AND FITTINGS BEFORE ASSEMBLY.

3.2 INSTALLATIONS

CONCEAL ALL PIPE INSTALLATIONS IN WALLS, PIPE CHASES, UTILITY SPACES, ABOVE CEILINGS, BELOW GRADE OR FLOORS, UNLESS INDICATED OTHERWISE.

INSTALL PIPING FREE OF SAGS OR BENDS AND WITH AMPLE SPACE BETWEEN PIPING TO PERMIT PROPER INSULATION APPLICATIONS.

INSTALL EXPOSED PIPING AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE NOT PERMITTED, UNLESS EXPRESSLY INDICATED ON THE DRAWINGS.

INSTALL PIPING TIGHT TO SLABS, BEAMS, JOISTS, COLUMNS, WALLS, AND OTHER PERMANENT ELEMENTS OF THE BUILDING. PROVIDE SPACE TO PERMIT INSULATION APPLICATIONS, WITH 1" CLEARANCE OUTSIDE THE INSULATION. ALLOW SUFFICIENT SPACE ABOVE REMOVABLE CEILING PANELS TO ALLOW FOR PANEL REMOVAL.

LOCATE GROUPS OF PIPES PARALLEL TO EACH OTHER, SPACED TO PERMIT APPLYING FULL INSULATION AND SERVICING OF VALVES.

EXTERIOR WALL PENETRATIONS: SEAL PIPE PENETRATIONS THROUGH EXTERIOR WALLS USING SLEEVES AND MECHANICAL SLEEVE SEALS. PIPE SLEEVES SMALLER THAN 6" SHALL BE STEEL; PIPE SLEEVES 6" AND LARGER SHALL BE SHEET METAL.

FIRE OR SMOKE BARRIER PENETRATIONS: WHERE WORK PASSES THROUGH RATED WALLS, PARTITIONS, CEILINGS, OR FLOORS, THE INTEGRITY SHALL BE MAINTAINED. USING NRTL LISTED SYSTEMS TO MAINTAIN FIRE AND/OR RATING FOR TYPE OF PENETRATION AND MATERIALS.

3.3 PIPE AND TUBE JOINT CONSTRUCTION

BRAZED AND SOLDERED JOINTS: FOR COPPER TUBE AND FITTING JOINTS, BRAZE JOINTS IN ACCORDANCE WITH ANSI B31.1.0 -STANDARD CODE FOR PRESSURE PIPING, POWER PIPING AND ANSI B9.1 - STANDARD SAFETY CODE FOR MECHANICAL REFRIGERATION.

SOLDERED JOINTS: COMPLY WITH THE PROCEDURES CONTAINED IN THE AWS "SOLDERING MANUAL."

SOLDER FILLER METAL: ASTM B 32, 95-5 TIN-ANTIMONY.

BRAZED JOINTS: COMPLY WITH THE PROCEDURES CONTAINED IN THE AWS "BRAZING MANUAL."

BRAZING FILLER METALS: AWS A5.8, BCUP SERIES.

GASKET MATERIAL: THICKNESS, MATERIAL, AND TYPE SUITABLE FOR FLUID TO BE HANDLED AND DESIGN TEMPERATURES AND PRESSURES.

CAUTION: REMOVE STEMS, SEATS, AND PACKING OF VALVES AND ACCESSIBLE INTERNAL PARTS OF PIPING SPECIALTIES BEFORE SOLDERING AND BRAZING. THREADED JOINTS: CONFORM TO ASME B1.20.1, TAPERED PIPE THREADS FOR FIELD-CUT THREADS. JOIN PIPE FITTINGS AND VALVES AS FOLLOWS:
1. NOTE THE INTERNAL LENGTH OF THREADS IN FITTINGS OR VALVE ENDS, AND PROXIMITY OF INTERNAL SEAT OR WALL, TO DETERMINE HOW FAR PIPE SHOULD BE THREADED INTO JOINT.
2. ALIGN THREADS AT POINT OF ASSEMBLY.
3. APPLY APPROPRIATE TAPE OR THREAD COMPOUND TO THE EXTERNAL PIPE THREADS (EXCEPT WHERE DRY SEAL THREADING IS SPECIFIED).
4. ASSEMBLE JOINT WRENCH TIGHT. WRENCH ON VALVE SHALL BE ON THE VALVE END INTO WHICH THE PIPE IS BEING THREADED.
5. DAMAGED THREADS: DO NOT USE PIPE WITH CORRODED OR DAMAGED THREADS. IF A WELD OPENS DURING CUTTING OR THREADING OPERATIONS, THAT PORTION OF PIPE SHALL NOT BE USED.

3.4 INSTALLATION OF PLUMBING FIXTURES

INSTALL PLUMBING FIXTURES LEVEL AND PLUMB, IN ACCORDANCE WITH FIXTURE MANUFACTURERS' WRITTEN INSTALLATION INSTRUCTIONS, ROUGHING-IN DRAWINGS, AND REFERENCED STANDARDS.

FASTEN FLOOR-MOUNTED FIXTURES AND SPECIAL FIXTURES HAVING HOLES FOR SECURING FIXTURE TO WALL CONSTRUCTION, TO REINFORCEMENT BUILT INTO WALLS.

FASTEN COUNTER-MOUNTING-TYPE PLUMBING FIXTURES TO CASEWORK.

SECURE SUPPLIES BEHIND WALL OR WITHIN WALL PIPE SPACE, PROVIDING RIGID INSTALLATION.

INSTALL STOP VALVE IN AN ACCESSIBLE LOCATION IN EACH WATER SUPPLY TO EACH FIXTURE.

INSTALL TRAP ON FIXTURE OUTLET EXCEPT FOR FIXTURES HAVING INTEGRAL TRAP.

INSTALL ESCUTCHEONS AT EACH WALL, FLOOR, AND CEILING PENETRATION IN EXPOSED FINISHED LOCATIONS AND WITHIN CABINETS AND MILLWORK. USE DEEP PATTERN ESCUTCHEONS WHERE REQUIRED TO CONCEAL PROTRUDING PIPE FITTINGS.

SEAL FIXTURES TO WALLS, FLOORS, AND COUNTERS USING A SANITARY-TYPE, ONE-PART, MILDEW-RESISTANT, SILICONE SEALANT IN ACCORDANCE WITH SEALING REQUIREMENTS. MATCH SEALANT COLOR TO FIXTURE COLOR.

3.5 PLUMBING FIXTURE ADJUSTING AND CLEANING

OPERATE AND ADJUST FAUCETS AND CONTROLS. REPLACE DAMAGED AND MALFUNCTIONING FIXTURES, FITTINGS, AND CONTROLS.

OPERATE AND ADJUST DISPOSERS, HOT WATER DISPENSERS, AND CONTROLS. REPLACE DAMAGED AND MALFUNCTIONING UNITS AND CONTROLS.

ADJUST WATER PRESSURE AT DRINKING FOUNTAINS, ELECTRIC WATER COOLERS, AND FAUCETS, SHOWER VALVES, AND FLUSHOMETERS HAVING CONTROLS, TO PROVIDE PROPER FLOW AND STREAM.

REPLACE WASHERS OF LEAKING AND DRIPPING FAUCETS AND STOPS.

CLEAN FIXTURES, FITTINGS, AND SPOUT AND DRAIN STRAINERS WITH MANUFACTURERS' RECOMMENDED CLEANING METHODS AND MATERIALS.

3.6 PLUMBING FIXTURE PROTECTION

PROVIDE PROTECTIVE COVERING FOR INSTALLED FIXTURES AND FITTINGS.

DO NOT ALLOW USE OF FIXTURES FOR TEMPORARY FACILITIES, EXCEPT WHEN APPROVED IN WRITING BY THE OWNER.

3.7 INSTALLATION OF WATER HEATERS

GENERAL: INSTALL WATER HEATERS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL UNITS PLUMB AND LEVEL, FIRMLY ANCHORED IN LOCATIONS INDICATED, AND MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.

SUPPORT: PLACE UNITS ON CONCRETE PADS, ORIENT SO CONTROLS AND DEVICES NEEDING SERVICE AND MAINTENANCE HAVE ADEQUATE ACCESS.

START-UP, TEST, AND ADJUST GAS WATER HEATERS IN ACCORDANCE WITH MANUFACTURER'S START-UP INSTRUCTIONS. CHECK AND CALIBRATE CONTROLS. SET WATER TEMPERATURE AS INDICATED.

PLUMBING SUPPORTS AND ANCHORS

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

EXTENT OF HANGERS AND SUPPORT WORK IS INDICATED BY THE REQUIREMENTS OF THIS SECTION. THIS SECTION INCLUDES THE FOLLOWING:
1. HORIZONTAL-PIPING HANGERS AND SUPPORTS.
2. HANGER-ROD ATTACHMENTS.
3. BUILDING ATTACHMENTS.
4. SADDLES AND SHIELDS.

1.2 SUBMITTALS

1. SUBMIT CATALOG CUTS FOR EACH DIFFERENT TYPE OF HANGER AND ROD, SUPPORT AND ACCESSORY.
2. SUBMIT METHOD OF SUPPORT AND HANGING FOR ENGINEERS APPROVAL PRIOR TO INSTALLATION.
3. SUBMIT MANUFACTURER TECHNICAL DATA OF INSERT AND ROD FOR APPROVAL.

PART 2 - PRODUCTS

2.1 PIPING SYSTEMS

HANGERS AND SUPPORT COMPONENTS SHALL BE FACTORY FABRICATED OF MATERIALS, DESIGN, AND MANUFACTURER COMPLYING WITH MSS SP-58.
1. COMPONENTS SHALL HAVE GALVANIZED COATINGS WHERE INSTALLED FOR PIPING AND EQUIPMENT THAT WILL NOT HAVE FIELD-APPLIED FINISH.
2. PIPE ATTACHMENTS SHALL HAVE COPPER PLATED OR NONMETALLIC COATING FOR ELECTROLYTIC PROTECTION WHERE ATTACHMENTS ARE IN DIRECT CONTACT WITH COPPER TUBING.

THERMAL HANGER SADDLE INSERTS: (MSS TYPE 39) % DEFLECTION, WATERPROOFED
1. 200-PSI AVERAGE COMPRESSIVE STRENGTH AT 5 CALCIUM SILICATE.

PIPE HANGERS AND SUPPORTS:
1. M.S.S. TYPE 1 ADJUSTABLE CLEVIS HANGER.
2. PIPE RISER CLAMPS: M.S.S. TYPE 8, OR M.S.S. TYPE 42.

PIPE HANGER ASSEMBLIES SHALL INCLUDE TURNBUCKLES OR OTHER MEANS OF VERTICAL ADJUSTMENT.

TRAPEZE HANGERS MAY BE USED IN LIEU OF INDIVIDUAL HANGERS FOR CLOSELY SPACED LINES, HANGER RODS SHALL BE UPSIZED TO CARRY THE AGGREGATE WEIGHT OF THE MULTIPLE LINES IN ACCORDANCE WITH M.S.S. - SP-58, MOST CURRENT EDITION, LOAD RATINGS SECTION.

HANGER RODS: STEEL HANGER RODS, THREADED BOTH ENDS OR CONTINUOUS THREADED. PROVIDE PRODUCTS COMPLYING WITH ASTM A 36.

PART 3 - EXECUTION

3.1 INSTALLATION OF HANGERS AND SUPPORTS

INSTALL HANGERS, SUPPORTS, CLAMPS AND ATTACHMENTS TO SUPPORT PIPING PROPERLY FROM BUILDING STRUCTURE; COMPLY WITH MSS SP-69 AND SP-89. ARRANGE FOR GROUPING OF PARALLEL RUNS OF HORIZONTAL PIPING SUPPORTED TOGETHER ON FIELD-FABRICATED, HEAVY-DUTY TRAPEZE HANGERS WHERE POSSIBLE. INSTALL SUPPORTS WITH MAXIMUM SPACING COMPLYING WITH MSS SP-69. WHERE PIPING OF VARIOUS SIZES IS SUPPORTED TOGETHER BY TRAPEZE HANGERS, SPACE TRAPEZE FOR SMALLEST

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PLUMBING SPECIFICATIONS

PLUMBING VALVES AND STRAINERS

PART 1 - GENERAL
1.1 SUMMARY

THIS SECTION INCLUDES GENERAL DUTY VALVES AND STRAINERS COMMON TO MOST MECHANICAL PIPING SYSTEMS.
1. SPECIAL PURPOSE VALVES AND STRAINERS ARE SPECIFIED IN INDIVIDUAL PIPING SYSTEM SPECIFICATIONS.

PART 2. - PRODUCTS
2.1 MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS FROM ONE OF THE MANUFACTURERS LISTED IN THIS SPECIFICATION FOR EACH VALVE TYPE OR STRAINER TYPE OR APPROVED EQUAL.

2.2 VALVE AND STRAINER FEATURES, GENERAL
MANUFACTURERS: SUBJECT TO COMPLIANCE WITH THE TECHNICAL SPECIFICATIONS, SELECT MANUFACTURER FROM THOSE LISTED BELOW:
1. CRANE
2. GRINNELL
3. HAMMOND
4. JENKINS
5. LUNKENHEIMER
6. MILWAUKEE
7. NIBCO
8. POWELL

2.3 BALL VALVES

RATED FOR 150 PSI SATURATED STEAM PRESSURE, 400 PSI WOG PRESSURE; TWO-PIECE CONSTRUCTION; WITH BRONZE BODY CONFORMING TO ASTM B 62, FULL PORT, CHROME-PLATED BRASS BALL, REPLACEABLE "TEFLON" OR "TFE" SEATS AND SEALS, BLOWOUT-PROOF STEM, AND VINYL-COVERED STEEL HANDLE. PROVIDE SOLDER OR THREADED ENDS FOR DOMESTIC HOT AND COLD WATER SERVICE; THREADED ENDS FOR HEATING HOT WATER.

2.4 CHECK VALVES

RATED FOR 150# STEAM, 300# WOG. CONSTRUCTION SHALL BE CAST-BRONZE BODY AND CAP CONFORMING TO ASTM B 62; BRONZE DISC; AND HAVING THREADED OR SOLDER ENDS.

2.5 STRAINERS

Y TYPE STRAINER, RATED FOR 250# STEAM, CONSTRUCTED OF BRONZE, WITH A SCREWED COVER.

PART 3. - EXECUTION

3.1 VALVE ENDS SELECTION SELECT VALVES WITH THE FOLLOWING ENDS OR TYPES OF PIPE/TUBE CONNECTIONS:

COPPER TUBE SIZE, 2-INCH AND SMALLER: SOLDER OR THREADED ENDS.

STEEL PIPE SIZES, 2-INCH AND SMALLER: THREADED END.

STEEL PIPE SIZES 2-1/2 INCH AND LARGER: GROOVED END OR FLANGED.

3.2 VALVE INSTALLATIONS

LOCATE VALVES FOR EASY ACCESS AND PROVIDE SEPARATE SUPPORT WHERE NECESSARY.

INSTALL VALVES AND UNIONS FOR EACH FIXTURE AND ITEM OF EQUIPMENT ARRANGED TO ALLOW EQUIPMENT REMOVAL WITHOUT SYSTEM SHUTDOWN. UNIONS ARE NOT REQUIRED ON FLANGED DEVICES.

INSTALL VALVES IN A POSITION TO ALLOW FULL STEM MOVEMENT.

3.3 FIELD QUALITY CONTROL
TESTS: AFTER PIPING SYSTEMS HAVE BEEN TESTED AND PUT INTO SERVICE, BUT BEFORE FINAL ADJUSTING AND BALANCING, INSPECT VALVES FOR LEAKS. ADJUST OR REPLACE PACKING TO STOP LEAKS; REPLACE VALVES IF LEAK PERSISTS.

3.4 ADJUSTING AND CLEANING

CLEANING: CLEAN MILL SCALE, GREASE, AND PROTECTIVE COATINGS FROM EXTERIOR OF VALVES AND PREPARE VALVES TO RECEIVE FINISH PAINTING OR INSULATION.

PLUMBING INSULATION

PART 1 - GENERAL
1.1 QUALITY ASSURANCE

FLAME/SMOKE RATINGS: PROVIDE COMPOSITE MECHANICAL INSULATION (INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES) WITH FLAME-SPREAD INDEX OF 25 OR LESS, AND SMOKE-DEVELOPED INDEX OF 50 OR LESS, AS TESTED BY ASTM E 84 (NFPA 255) METHOD.

PART 2 - PRODUCTS
2.1 ACCEPTABLE MANUFACTURERS

MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS OF ONE OF THE FOLLOWING, OR APPROVED EQUAL:
1. ARMSTRONG WORLD INDUSTRIES, INC.
2. CERTAINTEED CORP.
3. JOHNS MANVILLE INSULATIONS
4. KNAUF FIBER GLASS
5. OWENS-CORNING FIBERGLAS CORP.

2.2 PIPING INSULATION MATERIALS

FIBERGLASS PIPING INSULATION: ASTM C 547; 'K' VALUE OF 0.24 AT 75 DEGREES F; NONCOMBUSTIBLE.

JACKETS FOR PIPING INSULATION: ASTM C 921, TYPE I (VAPOR BARRIER) FOR PIPING WITH TEMPERATURES BELOW AMBIENT, TYPE II FOR PIPING WITH TEMPERATURES ABOVE AMBIENT. TYPE I MAY BE USED FOR ALL PIPING AT INSTALLERS OPTION.
1. ENCASE PIPE FITTINGS INSULATION WITH ONE-PIECE PRE MOLDED PVC FITTING COVERS, EXCEPT IN PLENUM RATED AREAS, FASTENED AS PER MANUFACTURER'S RECOMMENDATIONS.

STAPLES, BANDS, WIRES, AND CEMENT: AS RECOMMENDED BY INSULATION MANUFACTURER FOR APPLICATIONS INDICATED. USE STAINLESS STEEL STAPLES IF REQUIRED FOR PIPING BELOW AMBIENT TEMPERATURE.

ADHESIVES, SEALERS, AND PROTECTIVE FINISHES: AS RECOMMENDED BY INSULATION MANUFACTURER FOR APPLICATIONS INDICATED.

PART 3 - EXECUTION
3.1 INSPECTION

EXAMINE AREAS AND CONDITIONS UNDER WHICH MECHANICAL INSULATION IS TO BE INSTALLED. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN MANNER ACCEPTABLE TO INSTALLER.
3.2 PLUMBING PIPING SYSTEM INSULATION, GENERAL

INSULATION OMITTED: OMIT INSULATION ON CHROME-PLATED EXPOSED PIPING (EXCEPT FOR HANDICAPPED FIXTURES), AIR CHAMBERS, UNIONS, STRAINERS, CHECK VALVES, BALANCE COCKS, FLOW REGULATORS AND PRE-INSULATED EQUIPMENT.

3.3 COLD PIPING

APPLICATION REQUIREMENTS: INSULATE THE FOLLOWING COLD PLUMBING PIPING SYSTEMS:
1. POTABLE COLD WATER PIPING.
2. PLUMBING VENTS WITHIN 6 LINEAL FEET OF ROOF OUTLET.

INSULATE EACH PIPING SYSTEM SPECIFIED ABOVE WITH ONE OF THE FOLLOWING TYPES AND THICKNESS OF INSULATION:
1. FIBERGLASS: 1" THICKNESS.

3.4 HOT PIPING

APPLICATION REQUIREMENTS: INSULATE THE FOLLOWING HOT PLUMBING PIPING SYSTEMS:
1. POTABLE HOT WATER PIPING.

INSULATE EACH PIPING SYSTEM SPECIFIED ABOVE WITH ONE OF THE FOLLOWING TYPES AND THICKNESS OF INSULATION:
1. FIBERGLASS: 1" THICKNESS.

3.5 INSTALLATION OF PIPING INSULATION

GENERAL: INSTALL INSULATION PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT INSULATION SERVES ITS INTENDED PURPOSE.

INSTALL INSULATION ON PIPE SYSTEMS SUBSEQUENT TO TESTING AND ACCEPTANCE OF TESTS.

INSTALL INSULATION MATERIALS WITH SMOOTH AND EVEN SURFACES. INSULATE EACH CONTINUOUS RUN OF PIPING WITH FULL-LENGTH UNITS OF INSULATION, WITH SINGLE CUT PIECE TO COMPLETE RUN. DO NOT USE CUT PIECES OR SCRAPS ABUTTING EACH OTHER.

CLEAN AND DRY PIPE SURFACES PRIOR TO INSULATING. BUTT INSULATION JOINTS FIRMLY TOGETHER TO ENSURE COMPLETE AND TIGHT FIT OVER SURFACES TO BE COVERED.

COVER VALVES, FITTINGS AND SIMILAR ITEMS IN EACH PIPING SYSTEM WITH EQUIVALENT THICKNESS AND COMPOSITION OF INSULATION AS APPLIED TO ADJOINING PIPE RUN. INSTALL FACTORY MOLDED, PRECUT OR JOB FABRICATED UNITS (AT INSTALLER'S OPTION) EXCEPT WHERE SPECIFIC FORM OR TYPE IS INDICATED.

EXTEND PIPING INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS AND SIMILAR PIPING PENETRATIONS, EXCEPT WHERE OTHERWISE INDICATED.

3.6 PROTECTION AND REPLACEMENT

REPLACE DAMAGED INSULATION THAT CANNOT BE REPAIRED SATISFACTORILY, INCLUDING UNITS WITH VAPOR BARRIER DAMAGE AND MOISTURE SATURATED UNITS.

PROTECTION: INSULATION INSTALLER SHALL ADVISE OF REQUIRED PROTECTION FOR INSULATION WORK DURING REMAINDER OF CONSTRUCTION PERIOD, TO AVOID DAMAGE AND DETERIORATION.

WATER DISTRIBUTION PIPING

PART 1 - GENERAL
1.1 SUMMARY

THIS SECTION INCLUDES POTABLE COLD WATER, HOT WATER, AND CIRCULATION HOT WATER PIPING, FITTINGS, AND SPECIALTIES.

1.2 QUALITY ASSURANCE

COMPLY WITH NSF 61 FOR POTABLE DOMESTIC WATER PIPING AND COMPONENTS.

PART 2 - PRODUCTS
2.1 PIPE AND FITTINGS

SEE PLUMBING MATERIALS SCHEDULE FOR INFORMATION.

2.2 RELIEF VALVES

COMBINED PRESSURE-TEMPERATURE RELIEF VALVES: BRONZE BODY, TEST LEVER, THERMOSTAT, COMPLYING WITH ANSI Z21.22' LISTING REQUIREMENTS FOR TEMPERATURE DISCHARGE CAPACITY. TEMPERATURE RELIEF VALVES SHALL BE FACTORY SET AT 210 DEG F, AND PRESSURE RELIEF AT 150 PSI.

MANUFACTURERS: RELIEF VALVES:
1. CONBRACO INDUSTRIES, INC.
2. WATTS REGULATOR CO.
3. ZURN INDUSTRIES, INC. WILKINS REGULATOR DIV.

PART 3 - EXECUTION
3.1 EXAMINATION

EXAMINE ROUGH-IN REQUIREMENTS FOR PLUMBING FIXTURES AND OTHER EQUIPMENT WITH WATER CONNECTIONS TO VERIFY ACTUAL LOCATIONS OF PIPING CONNECTIONS PRIOR TO INSTALLATION.

3.2 FIELD QUALITY CONTROL

1. INSPECTIONS: INSPECT WATER DISTRIBUTION PIPING AS FOLLOWS:
A. DO NOT ENCLOSE, COVER, OR PUT INTO OPERATION WATER DISTRIBUTION PIPING SYSTEM UNTIL IT HAS BEEN INSPECTED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
B. DURING THE PROGRESS OF THE INSTALLATION, NOTIFY THE PLUMBING OFFICIAL HAVING JURISDICTION AT LEAST 24 HOURS PRIOR TO THE TIME SUCH INSPECTION MUST BE MADE. PERFORM REQUIRED TESTS IN THE PRESENCE OF THE PLUMBING OFFICIAL.
C. REPORTS: PREPARE INSPECTION REPORTS SIGNED BY THE PLUMBING OFFICIAL.

2. TEST WATER DISTRIBUTION PIPING AS FOLLOWS:
A. TEST FOR LEAKS AND DEFECTS ALL INSTALLED WATER DISTRIBUTION PIPING SYSTEMS AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED OR REPAIRED. IF TESTING IS PERFORMED IN SEGMENTS, SUBMIT A SEPARATE REPORT FOR EACH TEST, COMPLETE WITH A DIAGRAM OF THE PORTION OF THE SYSTEM TESTED.
B. LEAVE UNCOVERED AND UNCONCEALED ALL NEW, ALTERED, EXTENDED, OR REPLACED WATER DISTRIBUTION PIPING UNTIL IT HAS BEEN TESTED AND APPROVED. EXPOSE ALL SUCH WORK FOR TESTING THAT HAS BEEN COVERED OR CONCEALED BEFORE IT HAS BEEN TESTED AND APPROVED.
C. CAP AND SUBJECT THE PIPING SYSTEM TO A STATIC WATER PRESSURE OF 50 PSIG ABOVE THE OPERATING PRESSURE WITHOUT EXCEEDING THE PRESSURE RATING OF THE PIPING SYSTEM MATERIALS. ISOLATE THE TEST SOURCE AND ALLOW TO STAND FOR 4 HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED.
D. REPAIR ALL LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST SYSTEM OR PORTION THEREOF UNTIL SATISFACTORY RESULTS ARE OBTAINED.
E. PREPARE REPORTS FOR ALL TESTS AND REQUIRED CORRECTIVE ACTION.

3.5 ADJUSTING AND CLEANING

CLEAN AND DISINFECT WATER DISTRIBUTION PIPING AS FOLLOWS:
1. PURGE ALL NEW WATER DISTRIBUTION PIPING SYSTEMS AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED PRIOR TO USE.
2. USE THE PURGING AND DISINFECTING PROCEDURE PROSCRIBED BY THE AUTHORITY HAVING JURISDICTION OR, IN CASE THAT AUTHORITY DOES NOT PRESCRIBE A METHOD, THE PROCEDURE DESCRIBED IN EITHER AWWA C651, OR AWWA C652, OR AS DESCRIBED BELOW:
A. FLUSH THE PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT THE POINTS OF OUTLET.
B. FILL THE SYSTEM OR PART THEREOF WITH A WATER/CHLORINE SOLUTION CONTAINING AT LEAST 50 PARTS PER MILLION OF CHLORINE. ISOLATE (VALVE OFF) THE SYSTEM OR PART THEREOF AND ALLOW TO STAND FOR 24 HOURS.
C. DRAIN THE SYSTEM OR PART THEREOF OF THE PREVIOUS SOLUTION AND REFILL WITH A WATER/CHLORINE SOLUTION CONTAINING AT LEAST 200 PARTS PER MILLION OF CHLORINE AND ISOLATE AND ALLOW TO STAND FOR 3 HOURS.
D. FOLLOWING THE ALLOWED STANDING TIME, FLUSH THE SYSTEM WITH CLEAN, POTABLE WATER UNTIL CHLORINE DOES NOT REMAIN IN THE WATER COMING FROM THE SYSTEM.
E. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO THE AUTHORITY HAVING JURISDICTION. REPEAT THE PROCEDURE IF THE BIOLOGICAL EXAMINATION MADE BY THE AUTHORITY SHOWS EVIDENCE OF CONTAMINATION.
3. PREPARE REPORTS FOR ALL PURGING AND DISINFECTING ACTIVITIES.

DRAINAGE AND VENT SYSTEMS

PART 1 - GENERAL
1.1 SUMMARY

THIS SECTION INCLUDES BUILDING SANITARY AND VENT PIPING SYSTEMS.

1.2 SEQUENCING AND SCHEDULING

COORDINATE THE INSTALLATION OF FLASHING, AND ROOF PENETRATIONS.

COORDINATE FLASHING MATERIALS INSTALLATION OF ROOFING, WATERPROOFING, AND ADJOINING SUBSTRATE WORK.

COORDINATE THE INSTALLATION OF DRAINS IN POURED-IN-PLACE CONCRETE SLABS, TO INCLUDE PROPER DRAIN ELEVATIONS, INSTALLATION OF FLASHING, AND SLOPE OF SLAB TO DRAINS.

COORDINATE WITH INSTALLATION OF SANITARY SEWER SYSTEMS AS NECESSARY TO INTERFACE BUILDING DRAINS WITH DRAINAGE PIPING SYSTEMS.

PART 2.- PRODUCTS
2.1 PIPE AND FITTINGS
SEE PLUMBING MATERIALS SCHEDULE FOR INFORMATION.

2.2 DRAINAGE PIPING SPECIALTIES
CLEANOUT PLUGS: CAST-BRONZE OR BRASS, THREADS COMPLYING WITH ANSI B2.1, COUNTERSUNK HEAD.

FLOOR, WALL, AND GRADE CLEANOUTS: PROVIDE CLEANOUTS AS SPECIFIED IN THE "PLUMBING FIXTURE SCHEDULE".

VENT FLASHING SLEEVES: CAST-IRON CAULKING TYPE ROOF COUPLING FOR CAST-IRON STACKS, CAST-IRON THREADED TYPE ROOF COUPLING FOR STEEL STACKS, AND CAST-BRONZE STACK FLASHING SLEEVE FOR COPPER TUBING.

FROST-PROOF VENT CAPS: CONSTRUCT OF GALVANIZED IRON, COPPER, OR LEAD-COATED COPPER, SIZED TO PROVIDE 1 INCH AIR SPACE BETWEEN OUTSIDE OF VENT PIPE AND INSIDE OF FLASHING COLLAR EXTENSION.

MANUFACTURERS: FREEZE-PROOF VENT CAPS:
1. F.J. MOORE MFG. CO.
2. OR APPROVED EQUAL.

MANUFACTURERS: DRAINAGE PIPING SPECIALTIES, INCLUDING EXPANSION JOINTS, DRAINS, TRAP PRIMERS, AND VANDAL-PROOF VENT CAPS:
1. JOSAM MFG. CO.
2. SMITH (JAY R) MFG. CO.
3. ZURN INDUSTRIES INC; HYDROMECHANICS DIV.
4. WADE
5. PRECISION PLUMBING PRODUCTS

PART 3 - EXECUTION
3.1 PIPE AND TUBE JOINT CONSTRUCTION

CAST-IRON SOIL PIPE: MAKE HUBLESS JOINTS IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE CISPI CAST IRON SOIL PIPE AND FITTINGS HANDBOOK, CHAPTER IV.

3.2 INSTALLATION

MAKE CHANGES IN DIRECTION FOR DRAINAGE AND VENT PIPING USING APPROPRIATE 45 DEGREE WYES, HALF-WYES, OR LONG SWEEP QUARTER, SIXTH, EIGHTH, OR SIXTEENTH BENDS. SANITARY TEES OR SHORT QUARTER BENDS MAY BE USED ON VERTICAL STACKS OF DRAINAGE LINES WHERE THE CHANGE IN DIRECTION OF FLOW IS FROM HORIZONTAL TO VERTICAL, EXCEPT USE LONG-TURN TEES WHERE TWO FIXTURES ARE INSTALLED BACK TO BACK AND HAVE A COMMON DRAIN. STRAIGHT TEES, ELBOWS, AND CROSSES MAY BE USED ON VENT LINES. NO CHANGE IN DIRECTION OF FLOW GREATER THAN 90 DEGREES SHALL BE MADE. WHERE DIFFERENT SIZES OF DRAINAGE PIPES AND FITTINGS ARE CONNECTED, USE PROPER SIZE, STANDARD INCREASERS AND REDUCERS. REDUCTION OF THE SIZE OF DRAINAGE PIPING IN THE DIRECTION OF FLOW IS PROHIBITED.

INSTALL UNDERGROUND BUILDING DRAINS TO CONFORM WITH THE PLUMBING CODE, AND IN ACCORDANCE WITH THE CAST IRON SOIL PIPE INSTITUTE ENGINEER MANUAL. LAY UNDERGROUND BUILDING DRAINS BEGINNING AT LOW POINT OF SYSTEMS, TRUE TO GRADES AND ALIGNMENT INDICATED WITH UNBROKEN CONTINUITY OF INVERT. PLACE BELL ENDS OF PIPING FACING UPSTREAM. INSTALL REQUIRED GASKETS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR USE OF LUBRICANTS, CEMENTS, AND OTHER SPECIAL INSTALLATION REQUIREMENTS. MAINTAIN SWAB OR DRAG IN LINE AND PULL PAST EACH JOINT AS IT IS COMPLETED.

INSTALL BUILDING DRAIN PITCHED DOWN AT MINIMUM SLOPE OF 1/4 INCH PER FOOT (2 PERCENT) FOR PIPING 2-1/2 INCH AND SMALLER, AND 1/8 INCH PER FOOT (1 PERCENT) FOR PIPING 3 INCH AND LARGER.

EXTEND BUILDING DRAIN TO CONNECT TO SEWER PIPING, OF SIZE AND IN LOCATION INDICATED FOR SERVICE ENTRANCE TO BUILDING.

INSTALL SLEEVE AND MECHANICAL SLEEVE SEAL THROUGH FOUNDATION WALL FOR WATERTIGHT INSTALLATION.

3.3 INSTALLATION OF PIPING SPECIALTIES

INSTALL BACKWATER VALVES IN SANITARY BUILDING DRAIN PIPING AS INDICATED, AND AS REQUIRED BY THE PLUMBING CODE. FOR INTERIOR INSTALLATION, PROVIDE CLEANOUT COVER FLUSH TO FLOOR CENTERED OVER BACKWATER VALVE COVER AND OF ADEQUATE SIZE TO REMOVE VALVE COVER FOR SERVICE.

ABOVE GROUND CLEANOUTS: INSTALL IN ABOVE GROUND PIPING AND BUILDING DRAIN PIPING AS INDICATED, AND:
A. AS REQUIRED BY PLUMBING CODE;
B. AT EACH CHANGE IN DIRECTION OF PIPING GREATER THAN 45 DEGREES;
C. AT MINIMUM INTERVALS OF 100'
D. AT BASE OF EACH VERTICAL SOIL OR WASTE STACK.

VENT FLASHING SLEEVES: INSTALL ON STACKS PASSING THROUGH ROOF, SECURE OVER STACK FLASHING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

FROST-PROOF VENT CAPS: INSTALL FROST-PROOF VENT CAPS ON EACH VENT PIPE PASSING THROUGH ROOF. MAINTAIN 1 INCH CLEARANCE BETWEEN VENT PIPE AND ROOF SUBSTRATE.

3.5 FIELD QUALITY CONTROL
INSPECTIONS
1. DO NOT ENCLOSE, COVER, OR PUT INTO OPERATION DRAINAGE AND VENT PIPING SYSTEM UNTIL IT HAS BEEN INSPECTED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
2. DURING THE PROGRESS OF THE INSTALLATION, NOTIFY THE PLUMBING OFFICIAL HAVING JURISDICTION, AT LEAST 24 HOURS PRIOR TO THE TIME SUCH INSPECTION MUST BE MADE. PERFORM TESTS SPECIFIED BELOW IN THE PRESENCE OF THE PLUMBING OFFICIAL.
A. ROUGH-IN INSPECTION: ARRANGE FOR INSPECTION OF THE PIPING SYSTEM BEFORE CONCEALED OR CLOSED-IN AFTER SYSTEM IS ROUGHED-IN, AND PRIOR TO SETTING FIXTURES.
B. FINAL INSPECTION: ARRANGE FOR A FINAL INSPECTION BY THE PLUMBING OFFICIAL TO OBSERVE THE TESTS SPECIFIED BELOW AND TO INSURE COMPLIANCE WITH THE REQUIREMENTS OF THE PLUMBING CODE.
3. REINSPECTIONS: WHENEVER THE PIPING SYSTEM FAILS TO PASS THE TEST OR INSPECTION, MAKE THE REQUIRED CORRECTIONS, AND ARRANGE FOR REINSPECTED BY THE PLUMBING OFFICIAL.
4. REPORTS: PREPARE INSPECTION REPORTS, SIGNED BY THE PLUMBING OFFICIAL.

PIPING SYSTEM TEST - TEST DRAINAGE AND VENT SYSTEM IN ACCORDANCE WITH THE PROCEDURES OF THE AUTHORITY HAVING JURISDICTION, OR IN THE ABSENCE OF A PUBLISHED PROCEDURE, AS FOLLOWS:
1. TEST FOR LEAKS AND DEFECTS ALL INSTALLED DRAINAGE AND VENT PIPING SYSTEMS AND PARTS OF EXISTING SYSTEMS, WHICH HAVE BEEN ALTERED, EXTENDED OR REPAIRED. IF TESTING IS PERFORMED IN SEGMENTS, SUBMIT A SEPARATE REPORT FOR EACH TEST, COMPLETE WITH A DIAGRAM OF THE PORTION OF THE SYSTEM TESTED.
2. LEAVE UNCOVERED AND UNCONCEALED ALL INSTALLED, ALTERED, EXTENDED, OR REPLACED DRAINAGE AND VENT PIPING UNTIL IT HAS BEEN TESTED AND APPROVED. EXPOSE ALL SUCH WORK FOR TESTING, WHICH HAS BEEN COVERED OR CONCEALED BEFORE IT HAS BEEN TESTED AND APPROVED.
3. ROUGH PLUMBING TEST PROCEDURE: EXCEPT FOR OUTSIDE LEADERS AND PERFORATED OR OPEN JOINTED DRAIN TILE, TEST THE PIPING OF PLUMBING DRAINAGE AND VENTING SYSTEMS UPON COMPLETION OF THE ROUGH PIPING INSTALLATION, TIGHTLY CLOSE ALL OPENINGS IN THE PIPING SYSTEM, AND FILL WITH WATER TO THE POINT OF OVERFLOW, BUT NOT LESS THAN 10 FEET HEAD OF WATER. WATER LEVEL SHALL NOT DROP DURING THE PERIOD FROM 15 MINUTES BEFORE THE INSPECTION STARTS, THROUGH COMPLETION OF THE INSPECTION. INSPECT ALL JOINTS FOR LEAKS.
4. FINISHED PLUMBING TEST PROCEDURE: AFTER THE PLUMBING FIXTURES HAVE BEEN SET AND THEIR TRAPS FILLED WITH WATER, THEIR CONNECTIONS SHALL BE TESTED AND PROVED GAS AND WATER-TIGHT. PLUG THE STACK OPENINGS ON THE ROOF AND BUILDING DRAIN WHERE IT LEAVES THE BUILDING, AND INTRODUCE AIR INTO THE SYSTEM EQUAL TO A PRESSURE OF 1" WATER COLUMN. USE A "U" TUBE OR MANOMETER INSERTED IN THE TRAP OF A WATER CLOSET TO MEASURE THIS PRESSURE. AIR PRESSURE SHALL REMAIN CONSTANT WITHOUT THE INTRODUCTION OF ADDITIONAL AIR THROUGHOUT THE PERIOD OF INSPECTION. INSPECT ALL PLUMBING FIXTURE CONNECTIONS FOR GAS AND WATER LEAKS.
5. REPAIR ALL LEAKS AND DEFECTS USING NEW MATERIALS AND RETEST SYSTEM OR PORTION THEREOF UNTIL SATISFACTORY RESULTS ARE OBTAINED.
6. PREPARE REPORTS FOR ALL TESTS AND REQUIRED CORRECTIVE ACTION.

3.6 ADJUSTING AND CLEANING

CLEAN INTERIOR OF PIPING SYSTEM. REMOVE DIRT AND DEBRIS AS WORK PROGRESSES. CLEAN DRAIN STRAINERS, DOMES, AND TRAPS. REMOVE DIRT AND DEBRIS.

3.7 PROTECTION

PROTECT DRAINS DURING REMAINDER OF CONSTRUCTION PERIOD, TO AVOID CLOGGING WITH DIRT AND DEBRIS, AND TO PREVENT DAMAGE FROM TRAFFIC AND CONSTRUCTION WORK.

PLACE PLUGS IN ENDS OF UNCOMPLETED PIPING AT END OF DAY OR WHENEVER WORK STOPS.

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MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
0600364910

William R Ryan
N.Y. LIC. #: 017735-1 SEAL
CONSULTANTS

DJM CONSULTING ENGINEERING
Fire Protection solutions for your success
484 Dudleck Drive
Suite 300
Wall, NJ 07719
(732)359-0332
www.DJM-CE.com
DEPARTMENT OF HOMELAND SECURITY
#3403A3B225400

DAVID J. MANTONE
N.Y. LIC. #: 0092743-1
CONSULTANTS

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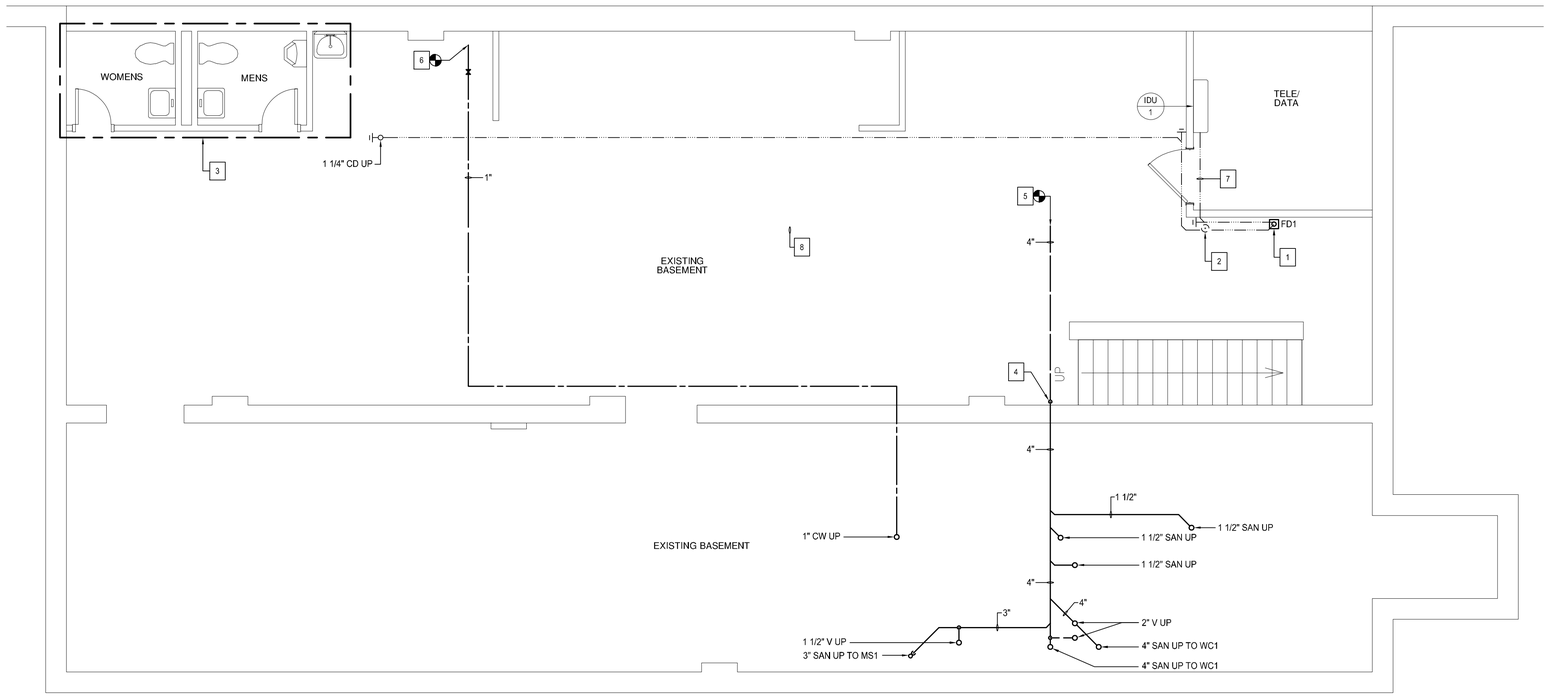
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ARCHITECT PROJECT NUMBER
2174

1 P100 PLUMBING BASEMENT PLAN

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



2 P100 SHEET GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED CODES AND PER LOCAL AUTHORITY HAVING JURISDICTION.
2. PLUMBING CONTRACTOR SHALL VISIT THE SITE TO FULLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS, TOTAL SCOPE AND IMPACT ON EXISTING SYSTEMS PRIOR TO BID. THE VISIT SHALL TAKE PLACE PRIOR TO BID AND FAILURE TO ALERT ENGINEER/ARCHITECT OF DISCREPANCIES FORFEITS RIGHTS TO ADDITIONAL MONIES FOR REDESIGN/INSTALLATION OF SUCH SYSTEMS.
3. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE PLUMBING SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
4. PRIOR TO INSTALLING SYSTEMS, THE PLUMBING CONTRACTOR SHALL MEET WITH THE OWNER/TENANT'S REPRESENTATIVE TO FIELD VERIFY THE EXACT LOCATION OF ALL PROPOSED EQUIPMENT WHICH MAY NOT BE CLEARLY INDICATED ON THE DRAWINGS.
5. ALL EXISTING PIPING SHOWN TO BE REUSED ARE BASED ON EXISTING DRAWINGS AND LIMITED FIELD SURVEY INFORMATION. CONTRACTOR IS RESPONSIBILITY TO FIELD VERIFY ALL PIPING PRIOR TO INSTALLATION AND SHALL ALERT OWNER/TENANT AND ENGINEER OF ANY PIPING THAT CAN NOT BE REUSED. PROVIDE A PER LINEAR FOOT LINE ITEM COST IN BID FOR ANY TRENCHING, NEW PIPING, BACKFILL WORK THAT MAY BE REQUIRED.
6. THE CONTRACTOR SHALL COORDINATE ALL SHUTDOWNS AND IDENTIFY ANY WORK WHICH MAY BE REQUIRED TO BE PERFORMED ON OVERTIME IN ORDER NOT TO DISTURB OCCUPIED SPACES WHICH ARE NOT WITHIN THE SCOPE OF THIS CONTRACT. OBTAIN WRITTEN APPROVAL OF THE CONSTRUCTION MANAGER PRIOR TO PERFORMING ANY SHUTDOWNS OR PERFORMING WORK ON OVERTIME.
7. ANY WATER PIPING LEFT UNINSULATED BY THIS WORK SHALL BE REINSULATED TO MATCH ADJACENT PIPING.
4. MAINTAIN FIRE RATING OF WALLS, PARTITIONS, CEILINGS AND FLOORS AT PIPE PENETRATIONS. SEAL PIPE PENETRATIONS WITH FIRESTOP MATERIALS. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATINGS.
5. ALL WATER PIPING SHALL BE INSTALLED ON THE WARM SIDE OF THE BUILDING INSULATION. COORDINATE INSULATION WITH GENERAL CONTRACTOR.
6. REFER TO RISER DIAGRAMS FOR ADDITIONAL CONNECTION AND SIZE REQUIREMENTS.

3 P100 SHEET KEY NOTES

1. EXISTING FLOOR DRAIN TO BE REPLACED. CONTRACTOR TO FIELD VERIFY SIZE PRIOR TO ORDERING. CONTRACTOR TO RELOCATE AS NECESSARY TO ALLOW FOR CONSTRUCTION OF WALL. SAW CUT FLOOR AND MODIFY EXISTING PIPING AS REQUIRED. FLOOR DRAIN IS TO BE LOCATED OUTSIDE OF TELE/DATA ROOM AND OUT OF WALKING PATH. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
2. EXISTING CODP - RELOCATE AS NECESSARY TO ALLOW FOR CONSTRUCTION OF WALL. IF RELOCATION IS REQUIRED, PROVIDE NEW CODP. SAW CUT FLOOR AND MODIFY EXISTING PIPING AS REQUIRED. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
3. EXISTING FIXTURES TO REMAIN.
4. 4" SAN DN - PROVIDE CLEAN OUT AT BASE OF RISER.
5. CONNECT NEW 4" SANITARY TO EXISTING SANITARY MAIN BELOW FLOOR. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING PIPING. MODIFY EXISTING PIPING AS REQUIRED TO MAKE CONNECTION. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
6. CONNECT NEW 1" COLD WATER TO EXISTING COLD WATER MAIN. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING PIPING. MODIFY EXISTING PIPING AS REQUIRED TO MAKE CONNECTION. PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
7. ROUTE CONDENSATE FULL SIZE. PROVIDE INLINE CHECK VALVE OR TRAP PER MANUFACTURER'S RECOMMENDATIONS. TERMINATE AT FLOOR DRAIN WITH CODE REQUIRED AIR GAP.
8. ROUTE 1 1/4" CONDENSATE PIPING TIGHT TO CEILING. PROVIDE 1/8" PER FOOT PITCH. TERMINATE AT FLOOR DRAIN WITH AIR GAP.

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MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
0600364910

William R Ryan
N.Y. LIC. #: 017735-1 SEAL

CONSULTANTS

DJM CONSULTING ENGINEERING
one of the solutions providers for your success
1114 Dublin Drive
Suite 300
Nashville, TN 37217
(615)320-3332
www.DJM-CE.com
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DAVID J. MANTONE
N.Y. LIC. #: 0092743-1

CONSULTANTS

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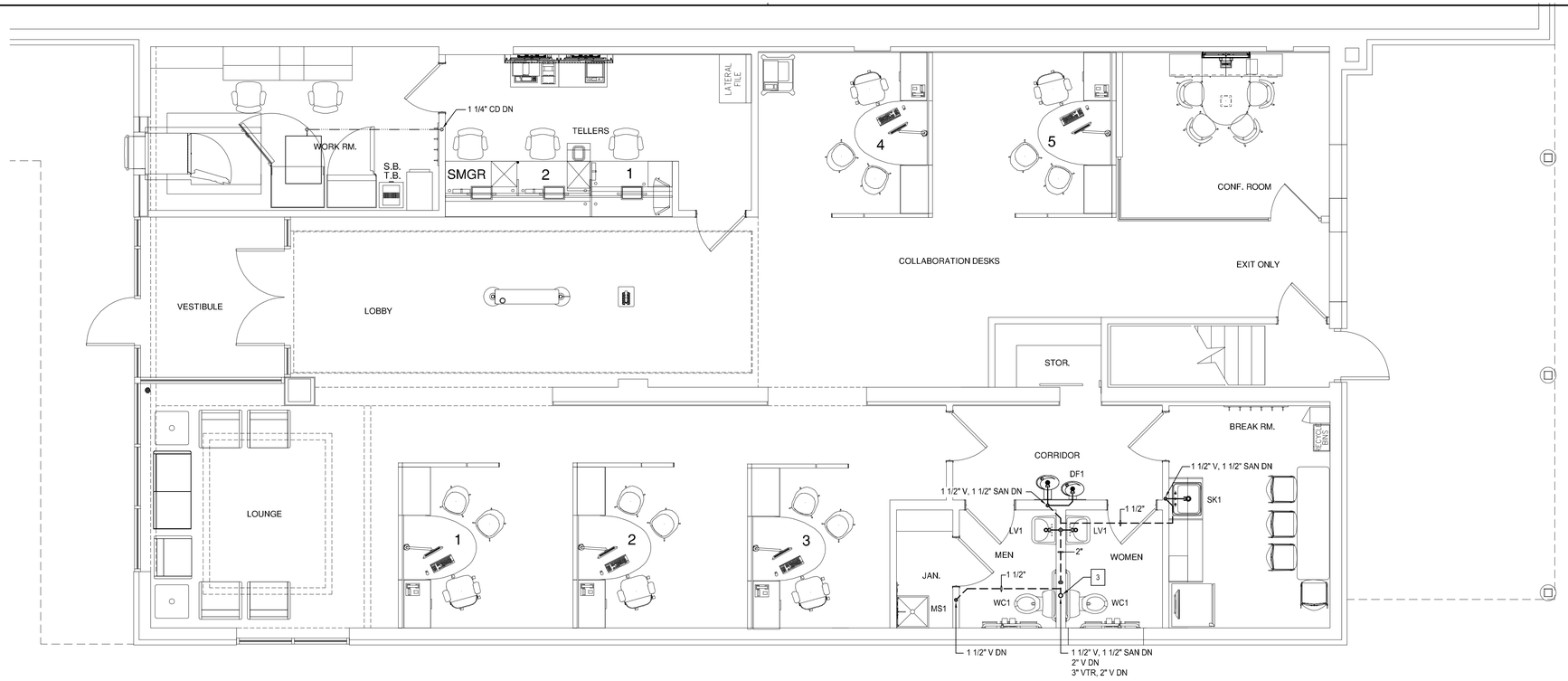
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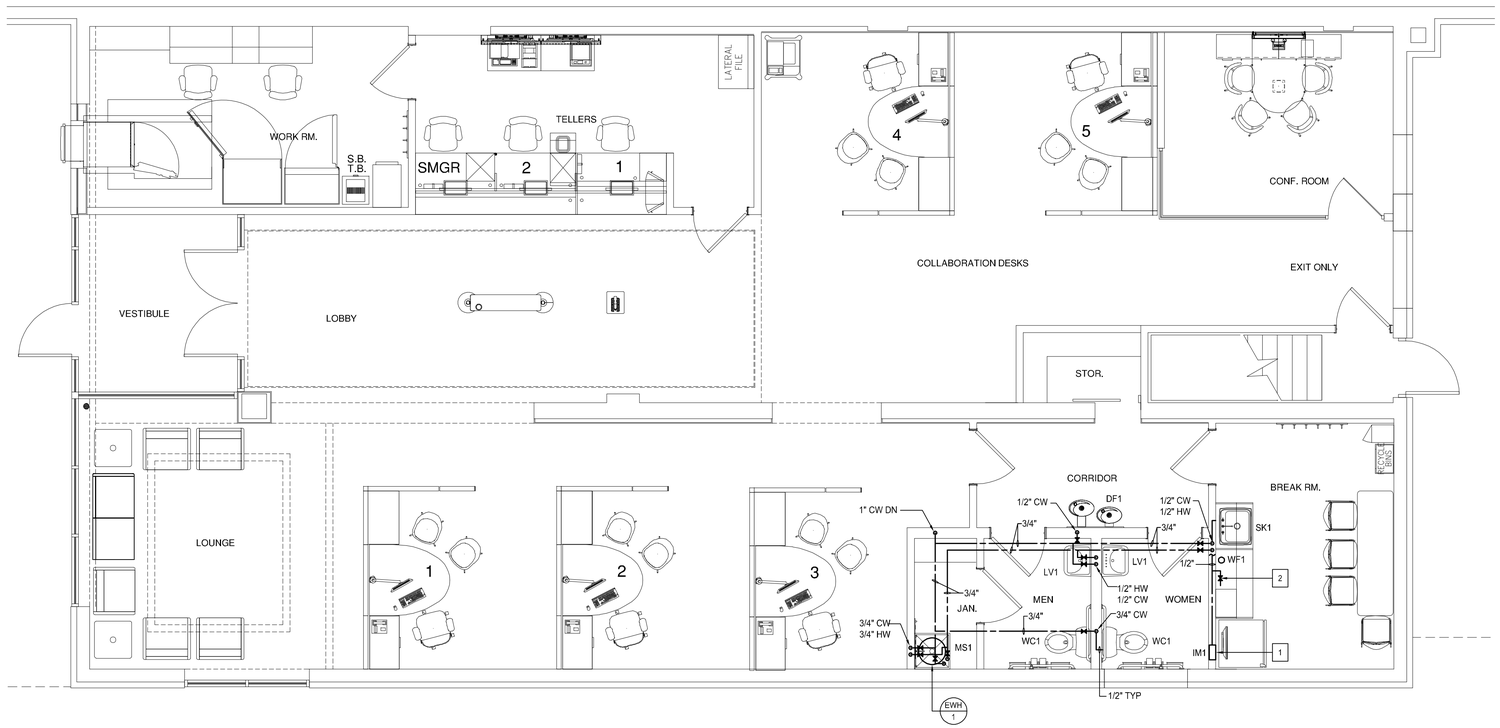
1 P101 PLUMBING SANITARY AND VENT FIRST FLOOR PLAN

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



2 P101 PLUMBING WATER FIRST FLOOR PLAN

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



3 P101 SHEET GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED CODES AND PER LOCAL AUTHORITY HAVING JURISDICTION.
2. PLUMBING CONTRACTOR SHALL VISIT THE SITE TO FULLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS, TOTAL SCOPE AND IMPACT ON EXISTING SYSTEMS PRIOR TO BID. THE VISIT SHALL TAKE PLACE PRIOR TO BID AND FAILURE TO ALERT ENGINEER/ARCHITECT OF DISCREPANCIES FORFEITS RIGHTS TO ADDITIONAL MONIES FOR REDESIGN/INSTALLATION OF SUCH SYSTEMS.
3. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE PLUMBING SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
4. PRIOR TO INSTALLING SYSTEMS, THE PLUMBING CONTRACTOR SHALL MEET WITH THE OWNER/TENANT'S REPRESENTATIVE TO FIELD VERIFY THE EXACT LOCATION OF ALL PROPOSED EQUIPMENT WHICH MAY NOT BE CLEARLY INDICATED ON THE DRAWINGS.
5. ALL EXISTING PIPING SHOWN TO BE REUSED ARE BASED ON EXISTING DRAWINGS AND LIMITED FIELD SURVEY INFORMATION. CONTRACTOR IS RESPONSIBILITY TO FIELD VERIFY ALL PIPING PRIOR TO INSTALLATION AND SHALL ALERT OWNER/TENANT AND ENGINEER OF ANY PIPING THAT CAN NOT BE REUSED. PROVIDE A PER LINEAR FOOT LINE ITEM COST IN BID FOR ANY TRENCHING, NEW PIPING, BACKFILL WORK THAT MAY BE REQUIRED.
6. THE CONTRACTOR SHALL COORDINATE ALL SHUTDOWNS AND IDENTIFY ANY WORK WHICH MAY BE REQUIRED TO BE PERFORMED ON OVERTIME IN ORDER NOT TO DISTURB OCCUPIED SPACES WHICH ARE NOT WITHIN THE SCOPE OF THIS CONTRACT. OBTAIN WRITTEN APPROVAL OF THE CONSTRUCTION MANAGER PRIOR TO PERFORMING ANY SHUTDOWNS OR PERFORMING WORK ON OVERTIME.
7. ANY WATER PIPING LEFT UNINSULATED BY THIS WORK SHALL BE REINSULATED TO MATCH ADJACENT PIPING.
4. MAINTAIN FIRE RATING OF WALLS, PARTITIONS, CEILINGS AND FLOORS AT PIPE PENETRATIONS. SEAL PIPE PENETRATIONS WITH FIRESTOP MATERIALS. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATINGS.
5. ALL WATER PIPING SHALL BE INSTALLED ON THE WARM SIDE OF THE BUILDING INSULATION. COORDINATE INSULATION WITH GENERAL CONTRACTOR.
6. REFER TO RISER DIAGRAMS FOR ADDITIONAL CONNECTION AND SIZE REQUIREMENTS.

4 P101 SHEET KEY NOTES

1. ROUTE 1/2" CW TO ICE MAKER BOX (IB1) THROUGH WATER FILTER (WF1). PROVIDE WATTS #LF7 CHECK VALVE BEFORE CONNECTION TO WATER FILTER. LOCATE CHECK VALVE IN ACCESSIBLE LOCATION.
2. ROUTE 1/4" CW TO COFFEE MAKER THROUGH WATER FILTER (WF1). PIPE UP THRU COUNTER AND PROVIDE WATTS #SD-2 DUAL CHECK VALVE AND SHUT OFF VALVE ABOVE COUNTER. COORDINATE WITH MILLWORK CONTRACTOR FOR EXACT LOCATION OF COUNTERTOP PENETRATION.
3. CONTRACTOR TO ENSURE NEW VTR IS MINIMUM 10 FEET FROM ALL AIR INTAKES.

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MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET, NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-9103
0600354910

William R Ryan
N.Y. LIC. #: 017735-1 SEAL
CONSULTANTS

DJM CONSULTING ENGINEERING
484 Dukes Drive Suite 220 Gulf, NJ 07733 (732)333-2033 www.DJM-Dukes.com
#24GA32223400

DAVID J. MANTONE
N.Y. LIC. #: 0092743-1
CONSULTANTS

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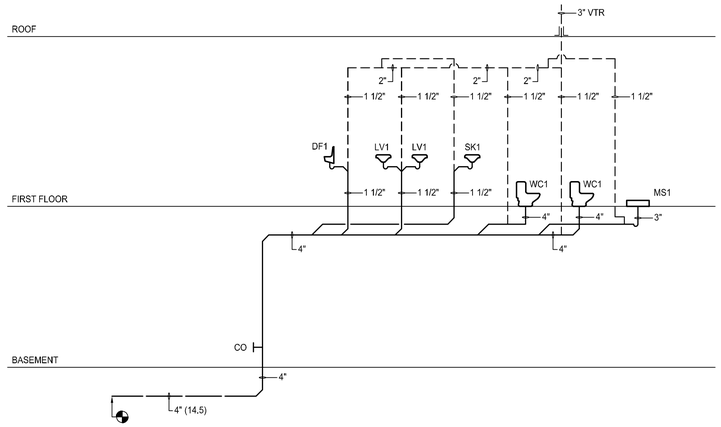
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FIRST FLOOR PLANS

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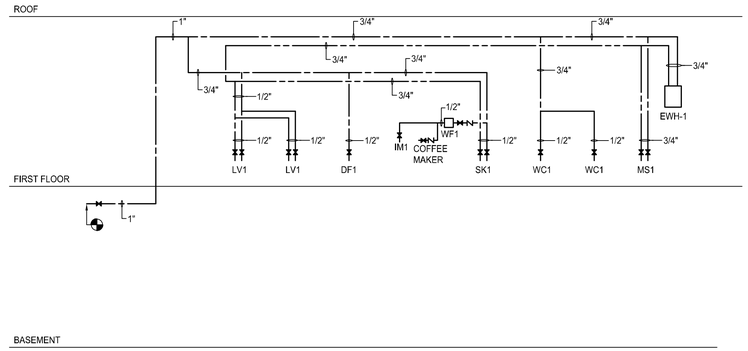
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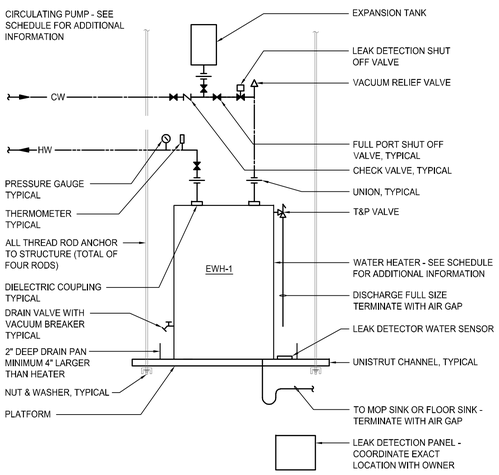
1 P300 SANITARY RISER DIAGRAM



2 P300 WATER RISER DIAGRAM



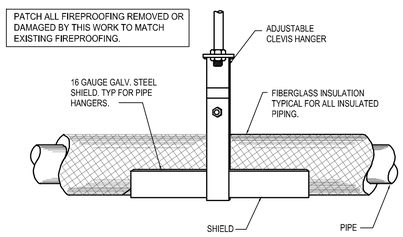
3 P300 DOMESTIC WATER HEATER WITH PLATFORM DETAIL



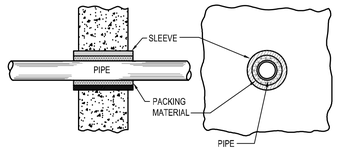
GENERAL NOTES:

1. ALL PIPE SIZES AS INDICATED ON PLANS.
2. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL THE WATER HEATER, PUMP AND ALL NECESSARY VALVES, PIPES, THERMOMETERS AND DRAIN PAN.
3. GENERAL CONTRACTOR TO PROVIDE STRUCTURAL SUPPORT WHEN HUNG ABOVE.
4. ALL PIPING SHALL BE INSULATED. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.

4 P300 PIPE HANGER DETAIL



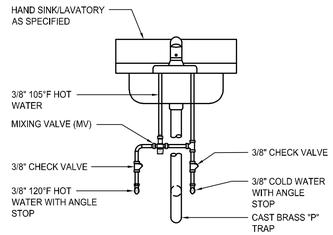
5 P300 WALL PENETRATION PIPE SLEEVE DETAIL



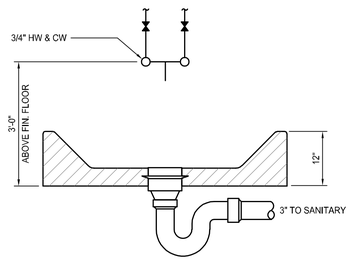
(CONCRETE AND FOUNDATION WALLS)

NOTE:
NO STRUCTURAL STRAIN SHOULD BE TRANSMITTED FROM ANY WALL TO THE PIPING SYSTEM, THE SLEEVING, RELIEVING ARCH, OR STRUCTURAL BEAM SUPPORT METHODS PROTECT THE PIPING FROM SUPERIMPOSED LOADS. THE "PACKING" MATERIAL AROUND THE PIPE IS FLEXIBLE ENOUGH TO RESPOND TO SETTLING IN THE STRUCTURE OR PIPING.

6 P300 BELOW DECK MIXING VALVE DETAIL



7 P300 SERVICE SINK DETAIL



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INTERIOR FIT-OUT

MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
0600364910

William R Ryan
N.Y. LIC. #: 017735-1 SEAL

CONSULTANTS

DJM CONSULTING ENGINEERING
the responsible solution for your success
1814 Dudoit Drive
Suite 300
Wall, NJ 07719
(732)359-3332
www.DJM-CE.com
DEPARTMENT OF HOMELAND SECURITY
#240A3823540O

DAVID J. MANTONE
N.Y. LIC. #: 0092743-1

CONSULTANTS

REVISIONS

NO.	DATE	DESCRIPTION	BY

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PLUMBING
RISERS AND DETAILS

SHEET NUMBER
P-200.00

SHT. OF

ARCHITECT PROJECT NUMBER
2174

1 M-001 PROJECT GENERAL MECHANICAL NOTES

1. ENTIRE INSTALLATION SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND OTHER AUTHORITIES HAVING JURISDICTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EQUIPMENT RIGGING, HOISTING, CUTTING AND PATCHING AS A RESULT OF THEIR WORK.
3. CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND SHALL ARRANGE ALL REQUIRED INSPECTIONS.
4. PROPER FIRE PROTECTION MEASURES, SATISFACTORY TO THE LOCAL FIRE DEPARTMENT SHALL BE TAKEN WHEN WELDING OR CUTTING WITH TORCHES OR ELECTRIC ARC.
5. VERIFY ALL EQUIPMENT VOLTAGES WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.
6. PROVIDE FLEXIBLE CONNECTIONS ON ALL ROTATING EQUIPMENT, UNLESS INDICATED OTHERWISE.
7. CONTRACTOR SHALL PROVIDE ALL NECESSARY MISCELLANEOUS STEEL FOR THE SUPPORT OF ALL EQUIPMENT, PIPING, CONDUIT, AND DUCTWORK.
8. CONTRACTOR SHALL PROVIDE ALL REQUIRED ADJUSTING AND BALANCING TO MEET SYSTEM OPERATION REQUIREMENT.
9. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER TRADES AND THE EXISTING FIELD CONDITIONS.
10. ALL AIR MOVING DEVICES, INCLUDING BUT NOT LIMITED TO, AIR HANDLING UNITS AND ROOFTOP AIR CONDITIONING UNITS MUST COMPLY WITH AMCA STANDARD 210 AND ASHRAE.
11. ALL MECHANICAL CONTROLS (THERMOSTATS, ETC.) SHALL BE FURNISHED AND INSTALLED AS PER BARRIER-FREE SUB-CODE OF THE LOCAL GOVERNING CODE.
12. UNLESS OTHER WISE NOTED ON THE DRAWINGS, ALL MECHANICAL EQUIPMENT SHALL BE MOUNTED ON VIBRATION ISOLATORS TO PREVENT THE TRANSMISSION OF SOUND TO THE BUILDING STRUCTURE. VIBRATION ISOLATORS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND ON ACTUAL WEIGHT DISTRIBUTION OF THE EQUIPMENT FURNISHED. DEFLECTIONS SHALL BE AS NOTED ON THE EQUIPMENT SHOP DRAWING SUBMITTALS.
13. ALL REMOVED EQUIPMENT, MATERIAL AND DEBRIS SHALL BE LEGALLY DISPOSED OF BY THIS CONTRACTOR.
14. CONTRACTOR SHALL ENSURE THAT ALL MECHANICAL DEVICES WILL BE INSTALLED IN A LOCATION WHICH AFFORDS ACCESSIBILITY FOR MAINTENANCE AND REPAIR. COORDINATE INSTALLATION AMONG ALL TRADES TO AVOID INTERFERENCE, AND LOCATE EQUIPMENT TO PROVIDE CLEARANCE OR EXCEED THOSE RECOMMENDED BY THE MANUFACTURER. PRIOR TO PROJECT COMPLETION, REPRESENTATIVES OF OWNER AND ENGINEER, WILL REVIEW EACH INSTALLATION AND WILL DIRECT CHANGES WHENEVER ACCESS OR SERVICE ABILITY IS, IN THEIR OPINION, UNACCEPTABLE.
15. INSTALL ALL DIELECTRIC UNIONS IN A MANNER WHICH MAKE THEM READILY ACCESSIBLE FOR FUTURE REPAIR OR REPLACEMENT.
16. FURNISH LOCAL DISCONNECT SWITCHES FOR ALL ELECTRICALLY DRIVEN HVAC EQUIPMENT. DISCONNECT SWITCH SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
17. CONTROL WIRING IN OCCUPIED SPACE SHALL BE INSTALLED IN CONCEALED SPACE, WALL OR CHASE.
18. ALL INSULATION PROVIDED FOR THE PROJECT MUST MEET A MAXIMUM FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPED OF 50 OR LESS, AS TESTED IN ACCORDANCE WITH ASTM, NFPA & U.L. GUIDELINES.
19. ALL EQUIPMENT FOR THIS PROJECT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
20. PROVIDE FIRE DAMPERS (AND/OR COMBINATION FIRE/SMOKE DAMPERS) WITH RATED ACCESS DOORS AT ALL DUCT PENETRATIONS THROUGH FIRE RATED WALLS, SMOKE AND FIRE STOPPING, SHAFTS, FLOORS, AND PARTITIONS AS REQUIRED TO MAINTAIN ARCHITECTURAL FIRE RATINGS.
21. HVAC UNIT MANUFACTURER TO PROVIDE 24V SMOKE DETECTORS WITH AUXILIARY CONTACTS AS SHOWN. UPON ACTIVATION, THE SMOKE DETECTORS SHALL SHUT DOWN THE AIR DISTRIBUTION SYSTEM TO WHICH IT IS CONNECTED AND ACTIVATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION VIA THE SPRINKLER/FIRE ALARM PANEL. SMOKE DETECTORS SHALL ALSO BE FURNISHED WITH WALL MOUNTED REMOTE TEST. REMOTE SD TEST SUPERVISORY SIGNAL SHALL BE LED TYPE WITH AUDIBLE BEEPING ALERT.

2 M-001 MECHANICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION
CD	4-WAY CEILING DIFFUSER
CD	3-WAY CEILING DIFFUSER
CD	2-WAY CEILING DIFFUSER
CR , EG	RETURN OR EXHAUST CEILING GRILLE
RG OR EG	RETURN OR EXHAUST GRILLE
SR	SUPPLY REGISTER
UP DOWN	SUPPLY DUCT UP OR DOWN
	RETURN OR EXHAUST DUCT UP OR DOWN
	EXISTING TO BE REMOVED
	CONNECT TO EXISTING
	DISCONNECT
	ROUND DUCT
	FLEXIBLE DUCT
FC	FLEXIBLE CONNECTOR
VD	MANUAL VOLUME DAMPER
FD	FIRE DAMPER WITH ACCESS DOOR
CFD	COMBINATION FIRE AND SMOKE DAMPER WITH ACCESS DOOR
MD	MOTORIZED DAMPER
BD	BACKDRAFT DAMPER
	RETURN/EXHAUST AIR FLOW
	SUPPLY AIR FLOW
L	AIR FLOW THRU LOUVERED DOOR
U	AIR FLOW THRU DOOR UNDERCUT
T	THERMOSTAT
H	RELATIVE HUMIDITY SENSOR
TS	TEMPERATURE SENSOR
SD	SMOKE DETECTOR
DP	DEWPOINT SENSOR
CO2	CARBON DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR
GS	GAS MONITORING SENSOR
FC	FAN CONTROL SWITCH
12"NK	NECK SIZES IN DUCT SPLIT
	DUCTWORK (RECTANGULAR & ROUND)
	FLEXIBLE CONNECTION
	DUCT MOUNTED COIL
	ELBOW WITH DOUBLE THICKNESS TURNING VANES
45°	45° BOOT TAKE-OFF W/ VOLUME DAMPER
	BELLMOUTH TAKE-OFF W/ VOLUME DAMPER
	VARIABLE AIR VOLUME BOX (WITH UNIT CLEARANCE SHOWN)
	KEY NOTE
X / XXX	AIR DEVICE TAG / CFM
ID # / DETAIL # DWG #	EQUIPMENT TAG OR DETAIL INDICATOR

NOTE: NOT ALL SYMBOLS LISTED ABOVE ARE NECESSARILY USED ON THIS PROJECT.

3 M-001 MECHANICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH	AIR HANDLER
AHU	AIR HANDLING UNIT
APMS	AMPERES
APD	AIR PRESSURE DROP
ASHRAE	AMERICAN SOCIETY OF REFRIGERATION & AIR-CONDITIONING ENGINEERS
BFG	BELOW FINISHED GRADE
BHP	BRAKE HORSE POWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BS	BIRD SCREEN
BTUH	BRITISH THERMAL UNITS PER HOUR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	COMPANY
COND	CONDENSATE
CONTR	CONTRACTOR
CR	CEILING REGISTER
CU	CONDENSING UNIT
DB	DRY BULB
DN	DOWN
DWG(S)	DRAWING(S)
(E)	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EDB	ENTERING DRY BULB
EER	ENERGY EFFICIENCY RATING
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
°F	DEGREES FAHRENHEIT
F&T	FLOAT AND THERMOSTATIC TRAP
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER W/ ACCESS DOOR
FLA	FULL LOAD AMPS
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FRPM	FAN REVOLUTIONS PER MINUTE
FS	FLOW SWITCH
FT	FEET
G	GAS
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
H	HEIGHT
HCWP	HEATING CONDENSER WATER PUMP
HP	HORSEPOWER
HS	HUMIDITY SENSOR
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HX	HEAT EXCHANGER
HZ	HERTZ
IN	INCHES
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
M, MD	MOTORIZED DAMPER
MAX	MAXIMUM
MBH	THOUSANDS OF BTU'S/HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MUA	MAKEUP AIR UNIT
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OAI	OUTDOOR AIR INTAKE
OC	ON CENTER
OED	OPEN ENDED DUCT
PC	PLUMBING CONTRACTOR
PSI	POUNDS PER SQUARE INCH
(R)	RELOCATED
RA	RETURN AIR
RAV	RELIEF AIR VENT
RC	REFRIGERATION CONTRACTOR
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SD	DUCT SMOKE DETECTOR
SDD	SMOKE DAMPER W/ ACCESS DOOR
SEER	SERVICE ENERGY EFFICIENCY RATING
SEF	SMOKE EXHAUST FAN (POST SMOKE)
SF	SUPPLY FAN
SR	SUPPLY REGISTER
TBD	TO BE DETERMINED
TG	TRANSFER GRILLE
TR	TRANSFER REGISTER
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
W	WIDTH
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAUGE
WMS	WIRE MESH SCREEN

4 M-001 PROJECT DESIGN INFORMATION

NOTE: NOT ALL SYSTEMS AND CONDITIONS ABOVE ARE NECESSARILY USED ON THIS PROJECT.

SUMMER OUTDOOR DESIGN CONDITIONS:
1. DESIGN CITY: WESTCHESTER CO, NY
2. DRY BULB: 86.5 °F
3. WET BULB: 72.1 °F

SUMMER INDOOR DESIGN CONDITIONS:
1. DRY BULB: 72 °F
2. RELATIVE HUMIDITY: 45% ~ 50%

WINTER OUTDOOR DESIGN CONDITIONS:
1. DESIGN CITY: WESTCHESTER CO, NY
2. DRY BULB: 12.8 °F

WINTER INDOOR DESIGN CONDITIONS:
1. DRY BULB: 70 °F

5 M-001 MECHANICAL DRAWING LIST

DWG. NO.	DRAWING TITLE
M-001	MECHANICAL GENERAL INFORMATION
M-002	MECHANICAL SPECIFICATIONS
M-003	MECHANICAL BMS NOTES
M-100	MECHANICAL DEMOLITION PLAN
M-200	MECHANICAL 1ST FLOOR PLAN
M-300	MECHANICAL SCHEDULES
M-400	MECHANICAL DETAILS

WELLS FARGO

INTERIOR FIT–OUT

MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
0600364910

N.Y. LIC. #: 017735-1 SEAL
CONSULTANTS

DJM CONSULTING ENGINEERING
Professional Engineering Services for your success
1 Dubon Court Farmingdale, NY 11735
(631) 249-1717
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DAVID J. MANTONE
N.Y. LIC. #: 0092743-1
CONSULTANTS

REVISIONS

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SHEET TITLE
MECHANICAL GENERAL INFORMATION

SHEET NUMBER
M-001

SHT. 1 OF 7

ARCHITECT PROJECT NUMBER
2174

1
M002

MECHANICAL SPECIFICATIONS

GENERAL:

1. THE MECHANICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, TRANSPORTATION EQUIPMENT, SERVICES, RIGGING AND FACILITIES REQUIRED FOR THE COMPLETE, PROPER INSTALLATION OF ALL MECHANICAL WORK. ALL FIXTURES, DEVICES AND EQUIPMENT SHOWN, NOTED OR REQUIRED ON THE DRAWINGS, AND/OR CONTAINED HEREIN SHALL BE FURNISHED, INSTALLED, TESTED AND MADE READY FOR OPERATION.

2. THE MECHANICAL CONTRACTOR IS TO COORDINATE WITH OTHER TRADES AND OWNER FOR EQUIPMENT LOCATIONS AND CLEARANCES REQUIRED FOR EQUIPMENT. CONTRACTOR TO COORDINATE AND MODIFY LAYOUT ACCORDINGLY.

3. ALL INTERLOCKING WIRING IS TO BE DONE BY THE ELECTRICAL CONTRACTOR. THE HVAC CONTRACTOR SHALL PROVIDE STARTERS FOR ALL EQUIPMENT FURNISHED BY THE HVAC CONTRACTOR, UNLESS OTHERWISE INDICATED.

4. UNLESS OTHERWISE INDICATED, THE ARRANGEMENT, POSITION, CONNECTIONS, ETC. SHOWN ON THE DRAWINGS SHALL BE TAKEN AS PRACTICABLE. THE RIGHT IS RESERVED BY THE ENGINEER TO MAKE MINOR CHANGES IN LOCATIONS AND ARRANGEMENTS WHEN REQUIRED BY JOB DEVELOPMENT WITHOUT ADDITIONAL COMPENSATION TO THIS CONTRACTOR.

5. THE HVAC CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL TAXES, FEES AND OTHER COSTS IN CONNECTION WITH THEIR WORK. FILE ALL NECESSARY APPROVALS OF ALL DEPARTMENTS HAVING JURISDICTION. OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR THEIR WORK AND DELIVER SAME TO THE ARCHITECT BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK. THE HVAC CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS (IN ADDITION TO CONTRACT DRAWINGS AND DOCUMENTS), IN ORDER TO COMPLY WITH ALL APPLICABLE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS, INCLUDING IMC. UL, ASME, NEMA, IBR, AMCA, NFPA, IEEE. OSHA, SMACNA AND THE REQUIREMENTS OF THE LATEST ASHRAE GUIDE AND DATA BOOK.

6. THIS CONTRACTOR SHALL VISIT AND EXAMINE THE PREMISES SO AS TO FULLY UNDERSTAND ALL CONDITIONS PERTAINING TO THEIR WORK, UNDERSTAND DIFFICULTIES TO BE ENCOUNTERED AND MATERIALS REQUIRED FOR THE INSTALLATION OF THIS WORK AT NO ADDITIONAL COST TO THE OWNER. THE EXACT LOCATION OF EXISTING OUTLETS, UNITS, ETC. ARE TO BE VERIFIED IN THE FIELD (IF APPLICABLE). DO NOT SCALE THE DRAWINGS. FOLLOW WRITTEN DIMENSIONS. FIELD VERIFY WHERE NECESSARY.

7. IT IS THE RESPONSIBILITY OF THE HVAC CONTRACTOR TO DETERMINE FROM THE ARCHITECTURAL PLANS, AREAS IN THE BUILDING WHICH HAVE BEEN DESIGNATED AS HAVING A FIRE RATED CONSTRUCTION. FIRE RATED DAMPERS, DIFFUSERS, GRILLES, REGISTERS, FIRE LINKS, ETC. SHALL BE PROVIDED TO COMPLY WITH ALL APPLICABLE CODE REQUIREMENTS.

8. THESE DRAWINGS INDICATE THE GENERAL SCHEME OF THE INSTALLATION AND ARE DIAGRAMMATIC IN SCOPE. THE ENGINEER RESERVES THE RIGHT TO CHANGE THE LOCATION OF OUTLETS, CONDUIT, PIPING, DUCTWORK, APPARATUS, ETC. TO A REASONABLE EXTENT AS THE BUILDING CONDITIONS MAY DICTATE PRIOR TO THEIR INSTALLATION WITHOUT EXTRA COST TO THE OWNER, THE EXACT LOCATION AND ARRANGEMENT OF ALL EQUIPMENT AND PARTS SHALL BE DETERMINED AS THE WORK PROGRESSES.

9. DETAILS OF CONSTRUCTION AND OF WORKMANSHIP WHERE NOT SPECIFICALLY DESCRIBED HEREIN OR INDICATED ON THE DRAWINGS SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL. IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE COMPLETE SYSTEMS, LEFT IN GOOD WORKING ORDER, READY FOR OPERATION.

10. THIS CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DAMAGE CAUSED BY THE OVERLOADING OF THE STRUCTURE WHICH OCCURRED FROM THEIR HOISTING AND RIGGING OF THEIR EQUIPMENT AND MATERIALS AND SHALL BE REPAIRED BY HIM TO THE ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.

11. THIS CONTRACTOR SHALL GUARANTEE ALL WORK DONE BY HIM AND MATERIAL SUPPLIED BY HIM FOR THE PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE.

12. HVAC CONTRACTOR TO VERIFY ALL ELECTRICAL POWER ON JOBSITE PRIOR TO ORDERING NEW EQUIPMENT.

13. THIS CONTRACTOR SHALL LABEL ALL CONTROL UNITS, SWITCHES, ETC. BY PERMANENTLY ATTACHED WHITE CORE LAMINATED "BAKELITE" NAMEPLATES.

14. ALL ROOF AND WALL OPENINGS 12" X 12" AND LARGER TO BE SECURED WITH 5/8" DIAMETER BURGLAR BARS LAID ON 6" CENTERS IN BOTH DIRECTIONS. ALL JOINTS TO BE WELDED AND THE ASSEMBLY SECURED TO THE BUILDING COMPONENT AROUND THE OPENING.

15. ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL CODES AND REGULATIONS. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL HVAC WORK IS PROVIDED AND INSTALLED IN STRICT ACCORDANCE WITH SEISMIC REQUIREMENTS.

16. THE EXACT MOUNTING HEIGHTS AND LOCATIONS OF ALL HVAC EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL OTHER MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL SYSTEMS.

17. ALL ROOFTOP HVAC EQUIPMENT SHALL BE INSTALLED SUFFICIENTLY AWAY FROM EDGE OF ROOF SO AS TO ALLOW FOR THE INSTALLATION OF PROPER FLASHING TO ENSURE A WEATHER TIGHT SEAL. IN ADDITION, ADEQUATE CLEARANCES SHALL BE PROVIDED FOR CLEANING AND MAINTENANCE REQUIREMENTS. THE FINAL LOCATION OF ALL ROOFTOP UNITS MUST ALSO COMPLY WITH ALL OSHA SAFETY REQUIREMENTS.

18. EXHAUST FLUES SHALL TERMINATE WITH A RAIN CAP AND SHALL UTILIZE A FLASHING CONE PENETRATION. OFFSET THE FLUE BELOW ROOF, SO THE FLASHING CAN BE INSTALLED ON A FLAT PORTION OF ROOF AND SUFFICIENTLY AWAY FROM THE EDGE.

19. CONTRACTOR SHALL ENSURE THAT ALL MECHANICAL DEVICES WILL BE INSTALLED IN LOCATIONS WHICH AFFORD ACCESSIBILITY FOR MAINTENANCE AND REPAIR. COORDINATE INSTALLATION AMONG ALL TRADES TO AVOID INTERFERENCES, AND LOCATE EQUIPMENT TO PROVIDE CLEARANCES WHICH EXCEED THOSE RECOMMENDED BY THE EQUIPMENT MANUFACTURER.

DEMOLITION

1. THE CONTRACTOR SHALL REMOVE ANY AND ALL OBSOLETE, UNUSED OR UNNECESSARY ITEMS AS CALLED OUT ON DRAWINGS OR HEREIN SPECIFIED. ANY SUCH ITEMS INTENDED FOR SUCH REMOVAL SHALL BE COMPLETELY VERIFIED AND APPROVED BY THE ENGINEER.

2. ANY EXISTING ELECTRICAL EQUIPMENT THAT MAY BE RELOCATED TO ACCOMMODATE NEW WORK MAY BE ACCOMPLISHED BY THE CONTRACTOR, PROVIDED IT IS DONE SO AT NO ADDITIONAL EXPENSE TO THE OWNER AND WRITTEN PERMISSION HAS BEEN OBTAINED FROM THE ENGINEER.

3. ALL MECHANICAL ITEMS REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER, BUT SHALL BE DISPOSED OF, IF SO DIRECTED BY THE OWNER AND ENGINEER. ITEMS SO DIRECTED SHALL BE REMOVED FROM THE PREMISES BY THE CONTRACTOR AT THEIR EXPENSE.

SCHEDULING AND COORDINATION OF OTHER TRADES

1. IT IS THE RESPONSIBILITY OF THE HVAC CONTRACTOR TO COORDINATE WITH ALL INVOLVED PARTIES TO ACCURATELY LOCATE AND DIMENSION ALL REQUIRED ROOF OPENINGS BASED UPON APPROVED EQUIPMENT SUBMITTALS.

2. ALL DIFFUSERS/CEILING RETURNS, REGISTERS/GRILLES TO BE COORDINATED WITH LIGHTING, SPEAKERS, SPRINKLER HEADS, ETC. IN FIELD WITH OWNER AND ARCHITECT. ALL WORK SHALL BE COORDINATED WITH THE STRUCTURAL, MECHANICAL, ARCHITECTURAL AND LIGHTING SYSTEMS OF THIS PROJECT PRIOR TO SUBMITTING SHOP DRAWINGS FOR FABRICATION APPROVAL.

3. FINAL EQUIPMENT LOCATIONS ARE TO BE VERIFIED WITH STRUCTURAL PLANS.

4. OBTAIN AND INSTALL ALL EQUIPMENT, ACCESSORIES AND DUCTWORK ON SCHEDULE TO AVOID ANY DELAY OF RELATED/OTHER WORK BY OTHER TRADES. PLAN FOR A SMOOTH FLOW OF WORK.

5. ALL CUTTING AND PATCHING OF ROOF, WALLS, CEILINGS, ETC, INCLUDING TRIMMING CEILING GRID FOR LARGE SIZED AIR DEVICES SHALL BE DONE BY THE GENERAL CONTRACTOR.

6. ROOF/DUCT CURBS SHALL BE PROVIDED AND INSTALLED LEVEL BY THE MECHANICAL CONTRACTOR.

7. THIS CONTRACTOR SHALL PERFORM THEIR WORK IN THE EXISTING BUILDING WHEN AND AS DIRECTED, AND GENERALLY IN ACCORDANCE WITH THE SEQUENCE OF OPERATIONS OF THE BUILDING, SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO THE OWNER AND/OR OCCUPANTS.

8. CONSULT WITH THE GENERAL CONTRACTOR FOR SEQUENCE OF CONSTRUCTION PRIOR TO SUBMITTING BID. SOME OR ALL OF THIS WORK MAY BE PERFORMED ON AN OVERTIME SCHEDULE. BID SHALL INCLUDE ALL SUCH PREMIUM TIME COSTS AND SHALL ELIMINATE ANY SUBSEQUENT REQUESTS FOR EXTRA COMPENSATION.

HANGERS, SUPPORTS & VIBRATION ISOLATION

1. HANGERS AND SUPPORTS: A. PROVIDE ALL HANGERS AND SUPPORTS AND ALL STEEL FRAMEWORK REQUIRED FOR THE SUPPORT OF VARIOUS SYSTEMS.

2. VIBRATION ISOLATION:

   A. MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH VIBRATION ISOLATORS TO PREVENT THE TRANSMISSION OF SOUND TO THE BUILDING STRUCTURE. UNLESS OTHERWISE NOTED, SUSPENDED EQUIPMENT SHALL HAVE SPRING ISOLATOR HANGERS AND BASE MOUNTED EQUIPMENT SHALL HAVE DOUBLE DEFLECTION NEOPRENE MOUNTINGS. VIBRATION ISOLATORS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND ON ACTUAL WEIGHT DISTRIBUTION OF THE EQUIPMENT FURNISHED. DEFLECTIONS SHALL BE AS NOTED ON THE EQUIPMENT SHOP DRAWING SUBMITTALS. PROVIDE VIBRATION ISOLATION ON ALL DUCT CONNECTIONS TO FANS AND OTHER EQUIPMENT.

DUCTWORK AND ACCESSORIES

18. DUCTWORK:

   B. ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL UNLESS OTHERWISE NOTED. ALL DUCTWORK SHALL BE IN ACCORDANCE WITH THE LATEST PUBLICATION OF THE ASHRAE GUIDE AND SMACNA.

   C. PROVIDE SHEETMETAL DUCTWORK WHEREVER SHOWN ON THE DRAWINGS OR AS REQUIRED IN ACCORDANCE WITH THE LATEST ASHRAE GUIDE AND IN CONFORMANCE WITH THE CONSTRUCTION STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND SMACNA.

   D. CONSTRUCT REINFORCED OPENINGS WITH AIR-TIGHT ACCESS DOORS TO THE INTERIOR OF ALL DUCTS WHERE FIRE DAMPERS ARE SPECIFIED OR REQUIRED.

   E. PROVIDE DUCT TURNS, DAMPERS, AND TEES WITH TURN VANES AND LOCKING QUADRANTS, IN ACCORDANCE WITH ASHRAE STANDARDS.

   F. FORM AND RUN SHEETMETAL DUCTWORK IN A THOROUGHLY WORKMANLIKE MANNER WITH ALL CORNERS TRUE SQUARES, ETC. BRACE AND SUPPORT THOROUGHLY TO PREVENT VIBRATION SO AS TO BE FIRM AND RIGID THROUGHOUT.

   G. PROVIDE ANGLE BRACING ON ALL DUCTS OVER 24" EITHER DIMENSIONS.

   H. MAKE SHEET METAL OFFSETS BETWEEN DUCTWORK, WHERE AND IF REQUIRED, AND PROVIDE CLOSELY FITTING HEAVY FLANGED COLLARS TO EFFECT TIGHT JOINTS WHERE IRON DUCTS OR SLEEVES TERMINATE IN OPENINGS. MAKE AIR-TIGHT CONNECTIONS TO PLENUMS OR OTHER CONSTRUCTION THAT IS PART OF ANY SYSTEM.

   I. STANDING SEAMS OR LOCK SEAM AND SLIP JOINTS - RIVET AND SOLDER AT SEAMS WHERE NOT TIGHT IN ERECTING. CONTRACTOR TO CEMENT CAULK ONLY WHERE MECHANICALLY TIGHT JOINTS ARE NOT OTHERWISE POSSIBLE.

   J. LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS, AND CONNECTIONS OF SUPPLY AND RETURN DUCTS SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, OR TAPES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

   K. ERECT ALL WORK IN FURRED SPACES IN TIME TO CAUSE NO DELAY TO THE OTHER TRADES.

   L. MAKE ALL NECESSARY ALLOWANCES OR PROVISIONS FOR ROOF SLOPES, COLUMNS, PIPES OR OTHER BUILDING OBSTRUCTIONS, WHETHER OR NOT ON DRAWINGS AND TRANSFORM, DIVIDE OR CURVE WORK TO ONE SIDE WHILE MAINTAINING THE REQUIRED FLOW RATE AND STATIC PRESSURE LOSS.

   M. THE INTAKE AND DISCHARGE COLLARS OF ALL FAN DRIVEN UNITS SHALL BE PROVIDED WITH HEAVY 10 OZ. DOUBLE WOVEN CANVAS SLEEVE BETWEEN THE UNITS AND THE DUCTWORK. THE SLEEVE SHALL BE A MINIMUM OF 6" LONG SECURELY FASTENED TO THE UNIT COLLARS AND DUCTS.

   N. ACCESS DOORS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NFPA NO. 96 RIGIDLY REINFORCED, FURNISHED WITH NECESSARY HARDWARE AND FRAMING, INCLUDING GASKETED EDGES. ACCESS DOORS SHALL BE MINIMUM 20" X 20" UNLESS DUCT IS SMALLER THAN 24".

   O. WHERE DUCTS PASS THROUGH WALLS OR PARTITIONS, THE SPACE AROUND DUCTS SHALL BE SEALED WITH MINERAL WOOL AND OTHER NON-COMBUSTIBLE MATERIAL AS REQUIRED BY NFPA. DUCTS SHALL BE PROVIDED WITH SHEETMETAL ANGLE FRAMES CLOSE-FITTED TO THE OPENINGS.

   P. WHERE AIR DEVICES LARGER THAN THE GRID ARE TO BE INSTALLED, COORDINATE WITH THE CEILING CONTRACTOR TO TRIM THE GRID TO ACCOMMODATE SUCH AIR DEVICES.

   Q. ALL DUCTWORK TO BE ABOVE CEILING SPACE UNLESS OTHERWISE NOTED. WHERE DUCTWORK INSTALLED BELOW FINISHED CEILING, HVAC CONTRACTOR TO COORDINATE WITH THE GENERAL CONTRACTOR FOR PENETRATIONS THRU WALL OR CEILING.

   R. ALL EQUIPMENTS, DUCTWORK, ACCESSORIES, ETC., INSTALLED BELOW THE ROOF SHALL BE SUPPORTED FROM TOP OF STRUCTURE. HANGERS, BRACKETS, PLATFORMS, ETC. TO BE PROVIDED. INSTALL VIBRATION ISOLATORS OR SPRING HANGERS AT ALL VIBRATING EQUIPMENT.

   S. MANUAL DAMPERS SHALL BE SUPPLIED BY THIS CONTRACTOR AND SHALL BE PROVIDED WITH QUADRANTS HAVING LOCKING-TYPE OPERATING LEVERS NOT LESS THAN 5" LONG, "DURODYNE SHAFT LOC," OR EQUAL.

   T. MANUAL BALANCING DAMPERS SHALL BE INSTALLED WHERE SHOWN ON THE DRAWINGS, OR WHERE NECESSARY TO BALANCE THE SYSTEM. MANUAL DAMPERS SHALL HAVE A SINGLE BLADE NOT GREATER THAN 8" IN EITHER DIRECTION AND MULTIPLE OPPOSED ACTION BLADES FOR DUCTS OF LARGER DIMENSIONS.

   U. ALL DAMPERS SHALL OPERATE NOISELESSLY WHEN ADJUSTED FOR THE SERVICES INTENDED AND SHALL BE PERMANENTLY MARKED AFTER ADJUSTMENT SO THAT THEY MAY BE READILY RESET AT A LATER DATE. METHOD OF MARKING SHALL BE APPROVED BY THE ENGINEER.

   V. PROVIDE FIRE DAMPERS WITH FUSIBLE LINKS AND ACCESS DOORS AS REQUIRED BY THE LATEST STATE BUILDING CODE AND NFPA CODE AT ALL DUCT PENETRATIONS AND OPENINGS FOR AIR IN FIRE RATED WALLS, SHAFTS, FLOORS, STOPPING, ROOF PARTITIONS, ETC. REFER TO ARCHITECTURAL PLANS FOR LOCATION AND RATINGS OF SUCH BUILDING COMPONENTS.

   W. FIRE AND SMOKE DAMPERS SHALL BE PROVIDED WITH AN APPROVED MEANS OF ACCESS, LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE DAMPER AND ITS OPERATING PARTS. THE ACCESS SHALL NOT AFFECT THE INTEGRITY OF FIRE-RESISTANCE-RATED ASSEMBLIES. THE ACCESS OPENINGS SHALL NOT REDUCE THE FIRE-RESISTANCE RATING OF THE ASSEMBLY. ACCESS POINTS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A LABEL HAVING LETTERS NOT LESS THAN 0.5 INCH IN HEIGHT READING: FIRE/SMOKE DAMPER, SMOKE DAMPER, or FIRE DAMPER. ACCESS DOORS IN DUCTS SHALL BE TIGHT FITTING AND SUITABLE FOR THE REQUIRED DUCT CONSTRUCTION.

   U. THE FINISH AND COLOR OF THE AIR DEVICES, AND ALL OTHER EXPOSED HVAC EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECT.

   V. DUCT SIZES MUST BE VERIFIED FOR CLEARANCES AT THE JOB SITE PRIOR TO FABRICATION. DIMENSIONS MAY BE CHANGED TO ACCOMMODATE CONSTRUCTION AS LONG AS EFFECTIVE CROSS-SECTIONAL AREA IS MAINTAINED. DUCT TRANSITIONS SHALL BE CONSTRUCTED WITH A SLOPE OF 1" TO 4". ALL DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE REVIEWED BY ENGINEER DURING THE SHOP DRAWING PROCESS.

   W. PROVIDE FLEXIBLE CONNECTIONS AT ALL DUCT CONNECTIONS TO VIBRATING EQUIPMENT. THESE CONNECTIONS SHALL BE INSTALLED IN CLOSE PROXIMITY TO SUCH EQUIPMENT.

2. INSULATION:

   A. INSULATION SHALL BE FIBERGLASS. ALL MATERIALS SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INSULATION SHALL BE APPLIED AFTER TESTS AND APPROVALS REQUIRED HAVE BEEN COMPLETED.

   B. ALL EXPOSED (OPEN CEILING) DUCTWORK SHALL BE INTERNALLY LINED SPIRAL DUCT. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION. PROVIDE INSTALLED R-VALUE OF R-6 MINIMUM.

3. SURFACE BURNING CHARACTERISTICS:

   A. ALL INSULATION AND ACOUSTICAL LINING SHALL HAVE SURFACE BURNING CHARACTERISTIC RATING AS TESTED BY ASTM E-84, UL 723, NFPA 255 OR NFPA 90, NOT EXCEEDING; FLAME SPREAD - 25; SMOKE DEVELOPED - 50. COMPOSITE SHALL INCLUDE INSULATION, JACKETING AND ADHESIVE USED TO SECURE JACKETING OR FACING. ALL ACCESSORY ITEMS SUCH AS PVC JACKETING AND FITTINGS, ADHESIVE, MASTIC, CEMENT, TAPE AND CLOTH SHALL HAVE THE SAME RATINGS AS SPECIFIED ABOVE.

4. CONCEALED DUCTWORK:

   A. APPLY 2" THICK DUCT WRAP, .75 LB./CU. FT. WITH FSK. FACING SHALL HAVE A MAXIMUM VAPOR TRANSMISSION RATE OF .04 PERMS. FOR RECTANGULAR DUCTS OVER 18" WIDE, DUCT WRAP SHALL BE ADDITIONALLY SECURED TO THE BOTTOM OF THE DUCTWORK WITH MECHANICAL FASTENERS.

5. DUCT ACOUSTIC LINING:

   A. MATERIAL SHALL BE A FLEXIBLE MAT-FACED INSULATION MADE FROM INORGANIC GLASS FIBERS BONDED BY A THERMOSETTING RESIN. SOUND ABSORPTION COEFFICIENT OF 0.65 ON THE 1/3 OCTAVE BAND CENTER FREQUENCY OF 500 CYCLES/SECOND, DETERMINED ON F-25 MOUNTING IN ACCORDANCE TO ASTM C-423-81A TEST PROCEDURE.

   B. PROVIDE MINIMUM 1" THICK X 1.5 LB./CU. FT., THERMAL CONDUCTANCE, C = 0.25 AT 75 DEG. F MEAN TEMPERATURE, ACOUSTIC LINING WHEREVER CALLED FOR ON THE DRAWINGS AND UP AND DOWN STREAM OF ALL THE AIR HANDLING UNITS FOR A MINIMUM OF 20 FT. FROM THE UNIT. DUCT SIZES GIVEN ARE THE CLEAR INTERNAL DIMENSIONS AND DO NOT ALLOW FOR DUCT LINING. ACTUAL DUCT SIZES SHALL BE INCREASED TO ACCOMMODATE ACOUSTIC LINING.

6. ACCESS DOORS:

   A. PROVIDE ACCESS PANELS FOR MECHANICAL DEVICES, EQUIPMENT, ETC. LOCATED ABOVE GYPSUM CEILINGS OR WHERE LOCATED IN AREAS THAT DO NOT PROVIDE ADEQUATE ACCESS FOR MAINTENANCE AND REPAIR. COORDINATE EXACT SIZE AND LOCATION PER EQUIPMENT AND MANUFACTURER'S REQUIRED CLEARANCES. COLOR AND FINISH PER ARCHITECT. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION.

TESTING, CLEANING, ADJUSTING AND BALANCING

1. CLEANING THE AIR SYSTEMS:

   A. BEFORE FINAL ADJUSTMENT AND BALANCING, CHEESE CLOTH SHALL BE PLACED OVER EACH DUCT OPENING FOR ENTRAINING PARTICLES DURING THE CLEANING OPERATION. OPERATE ALL SYSTEMS FOR A MINIMUM OF FOUR (4) HOURS. AFTER THIS PERIOD, REMOVE ALL FILTERS. CLEAN ALL SUPPLY DUCTS, GRILLES AND REGISTERS, IN ALL UNITS, USING A VACUUM CLEANER AND BRUSH. FILTERS SHALL BE REPLACED.

2. BALANCING THE AIR SYSTEMS:

   A. THE BALANCING CONTRACTOR SHALL BALANCE NEW AND EXISTING AIR SYSTEMS TO QUANTITIES INDICATED ON DRAWINGS AND SHALL FURNISH TO THE ENGINEER, A REPORT INDICATING FAN PERFORMANCE, LOUVERS, DIFFUSERS, REGISTERS AND GRILLE SIZES, LOCATIONS, CFM VALUES, OUTSIDE AIR CFM QUANTITIES, VELOCITIES, STATIC PRESSURE LOSSES, VOLUME CONTROL DEVICES, AIR TEMPERATURES, ETC. THE BALANCING WORK AND THE BALANCING REPORT SHALL BE BY AN INDEPENDENT BALANCING CONTRACTOR. BALANCING CONTRACTOR SHALL BE CONTRACTED BY THE HVAC CONTRACTOR, HOWEVER, THE INSTALLING HVAC CONTRACTOR SHALL ASSIST THE BALANCING CONTRACTOR AS REQUIRED. SYSTEMS TO BE BALANCED ONLY AFTER POST CONSTRUCTION FILTER CHANGE. THE BALANCING CONTRACTOR SHALL SUBMIT A BALANCING REPORT PRIOR TO FINAL ACCEPTANCE AND REQUEST FOR FINAL PAYMENT.

   B. A MINIMUM OF FOUR (4) TEST REPORTS SHOWING ALL PERTINENT OPERATING DATA, SUCH AS CFM AND FPM AT EACH OUTLET, FAN RPM, MOTOR CURRENT, ETC. SHALL BE SUBMITTED FOR PERMANENT RECORD. DURING ADJUSTING PERIOD, MAKE ALL NECESSARY SETTINGS AND ADJUSTMENTS OF TEMPERATURE REGULATING EQUIPMENT.

   C. AIR LEAKAGE TEST: THE COMPLETE AIR HANDLING SYSTEMS, ALL VENTILATING EXHAUST SYSTEMS, INCLUDING ALL CONVENTIONAL SUPPLY AND RETURN DUCTWORK SHALL BE TESTED AND ALL THE AIR LEAKS FOUND SHALL BE CORRECTED TO MAKE THEM AIR TIGHT.

   D. ALL WORK SHALL BE DONE WITH A MINIMUM OF DUST AND DIRT. PROVIDE SUFFICIENT FIREPROOF TARPAULINS AND COVE ALL EQUIPMENT IN WORK AREA WITH SAME DURING WORK OPERATIONS. SCRAP AND DEBRIS, EXCEPT AS OTHERWISE SPECIFIED, SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THIS CONTRACTOR.

   E. UPON COMPLETION OF THE INSTALLATION, EACH SYSTEM SHALL BE CLEANED AND ALL SAFETY FEATURES SHALL BE TESTED IN THE PRESENCE OF THE OWNER/THE OWNERS REPRESENTATIVE.

   F. THIS CONTRACTOR SHALL MAKE FINAL ADJUSTMENTS OF ALL AUTOMATIC TEMPERATURE CONTROLS AND DEVICES INSTALLED BY THE ELECTRICAL CONTRACTOR AT THE COMPLETION OF THE WORK.

   G. EQUIPMENT AND SYSTEMS WHICH NORMALLY OPERATE DURING CERTAIN SEASONS OF THE YEAR SHALL BE TESTED DURING THE APPROPRIATE SEASON. TESTS SHALL BE PERFORMED ON INDIVIDUAL EQUIPMENT, SYSTEMS, AND THEIR CONTROLS.

   H. ALL DEFECTIVE WORK SHALL BE PROMPTLY REPAIRED AND REPLACED AND THE TESTS SHALL BE REPEATED UNTIL THE PARTICULAR SYSTEM AND COMPONENT PARTS THEREOF RECEIVE THE APPROVAL OF THE ENGINEER OR OWNER.

   I. THE HVAC CONTRACTOR SHALL DEMONSTRATE THAT ALL EQUIPMENT AND APPARATUS FULFILL THE REQUIREMENTS OF THESE SPECIFICATIONS

   J. ALL WORK PROVIDED UNDER THE CONTRACT SHALL OPERATE WITHOUT OBJECTIONABLE NOISE OR VIBRATION.

   K. SHOULD OPERATION OF ANY ONE OR MORE OF THE SEVERAL SYSTEMS PRODUCE NOISE, AND/OR VIBRATION WHICH IS, IN THE OPINION OF THE ENGINEER OBJECTIONABLE, THE HVAC CONTRACTOR SHALL, AT THEIR OWN EXPENSE, MAKE CHANGES IN EQUIPMENT, ETC., AND DO ALL WORK NECESSARY TO ELIMINATE THE OBJECTIONABLE NOISE AND/OR VIBRATION.

ELECTRICAL REQUIREMENTS FOR HVAC EQUIPMENT

1. MOTOR STARTERS:

   A. THE HVAC CONTRACTOR SHALL FURNISH ALL STARTERS REQUIRED FOR THE HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS. STARTERS WILL BE INSTALLED BY THE ELECTRICAL CONTRACTOR.

   B. STARTERS FOR MOTORS 1/2 HP AND OVER SHALL BE COMBINATION MAGNETIC TYPE, CONSISTING OF STARTER AND DISCONNECT SWITCH MOUNTED IN A COMMON NEMA ENCLOSURE. COMBINATION STARTERS SHALL BE FURNISHED WITH THERMAL MAGNETIC BREAKERS WITH START-STOP PUSHBUTTONS IN COVER AND HAND-OFF-AUTOMATIC SWITCH. FURNISH CONTROL TRANSFORMERS FOR PILOT LIGHTS, PUSHBUTTONS, ETC.

   C. STARTERS FOR NON-CONTROLLED MOTORS LESS THAN 1/2 HP SHALL BE MANUAL TYPE WITH TOGGLE SWITCH.

   D. ALL STARTERS SHALL PROVIDE THERMAL OVERLOAD AND UNDERVOLTAGE PROTECTION OF THE MOTORS. STARTERS FOR THERE PHASE EQUIPMENT SHALL BE PROVIDED WITH THREE OVERLOAD ELEMENTS.

   E. MAGNETIC STARTERS INTERLOCKED WITH THE AUTOMATIC TEMPERATURE CONTROL SYSTEM SHALL BE OF THE MAINTAINED CONTACT TYPE WITH TWO WIRE CIRCUITS.

   F. COORDINATE ALL MOTOR STARTERS WITH THE AUTOMATIC TEMPERATURE CONTROL SYSTEM.

   G. ALL STARTERS SHALL HAVE PLASTIC LAMINATE NAMEPLATES, BLACK WITH WHITE CORE AND 1/2" HIGH LETTERING, FASTENED WITH SELF-TAPPING STAINLESS STEEL SCREWS.

   H. ALL STARTERS FOR HVAC SHALL BE OF ONE MANUFACTURER.

   I. HVAC CONTRACTOR TO PROVIDE ALL RELAYS, CONTACTORS, SENSORS, THERMOSTATS, ACTUATORS, ETC.

   J. HVAC CONTRACTOR TO PROVIDE DISCONNECT SWITCHES FOR ALL HVAC EQUIPMENT, WEATHERPROOF TYPE FOR ALL OUTDOOR EQUIPMENT.

   K. VERIFY ALL EQUIPMENT VOLTAGES WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

SHOP DRAWINGS

1. CONTRACTOR SHALL FURNISH SHOP DRAWINGS AND EQUIPMENT CUTS TO OWNER FOR APPROVAL (MINIMUM 6 COPIES). ALL EQUIPMENT MUST BE APPROVED BY ENGINEER PRIOR TO EQUIPMENT PURCHASES. ATTEND TO LONG LEAD ITEMS IN ADVANCE FOR TIMELY DELIVERY.

2. SHOP DRAWINGS FOR SHEET METAL WORK SHALL BE DRAWN AT A MINIMUM OF 1/8" = 1'-0" SCALE AND SUBMITTED FOR APPROVAL PRIOR TO FABRICATION. THE SUBMITTAL SHALL BE COMPLETE WITH ALL HVAC EQUIPMENT LOCATIONS, ACCESSORIES, DUCTWORK, AIR DEVICES TYPES AND SIZES, CFM, ETC.

3. ALL EQUIPMENT SHALL BE PROPERLY LABELED IN ACCORDANCE WITH HVAC DRAWING NOMENCLATURE.

CONTROLS

1. HVAC CONTRACTOR SHALL PROVIDE ALL CONTROL AND INTERLOCK DEVICES SUCH AS DAMPERS, DAMPER ACTUATORS, THERMOSTATS, TRANSFORMERS, ETC.

2. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL INTERLOCK WIRING BETWEEN CONTROL DEVICES AND TERMINAL EQUIPMENT.

3. ECONOMIZERS SHALL HAVE FAULT DETECTION & DIAGNOSTICS.

4. HVAC UNIT CONTROLS SHALL COMPLY WITH LOCAL ENERGY CODE INCLUDING BUT NOT LIMITED TO; 5° DEADBAND, SETPOINT OVERLAP RESTRICTIONS, SETBACK CONTROLS VIA AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM, AUTOMATIC CONTROLS SETBACK TO 55°F (HEAT) AND 85°F (COOL); 7-DAY CLOCK, 2-HOUR OCCUPANT OVERRIDE, 10-HOUR BACKUP, AND OPTIMUM START CONTROLS.

5. HVAC UNITS: [LIST UNITS] SHALL BE PROGRAMMED FOR "FAN-ON" DURING OCCUPIED TIMES WHEN HOOD[S] [IS][ARE] OPERATING, FAN SHALL CYCLE WITH UNITS CALL FOR TEMPERATURE DURING UNOCCUPIED TIMES.

WELLS FARGO

INTERIOR FIT–OUT

MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
0600364910

N.Y. LIC. #: 017735-1 SEAL
CONSULTANTS

DJM CONSULTING ENGINEERING
one Dudek Drive
Suite 300
W

1 M003 BMS NOTES

GENERAL NOTES

1. HVAC SYSTEMS SHALL BE CONTROLLED AND/OR MONITORED BY A MANAGEMENT SYSTEM UTILIZING A LYNXSPRING JENESYS 8000 CONTROLLER. THE SYSTEM WILL INCLUDE A COMMUNICATIONS INTERFACE WHICH WILL CONNECT THROUGH A WELLS FARGO UTILITY NET CONNECTION TO THE WELLS FARGO MULTI-SITE NIAGARA 4 REGIONAL SERVER. UTILITY NET WILL ALLOW MAINTENANCE STAFF AND OTHERS THE ABILITY TO REMOTELY CONTROL AND MONITOR THE BUILDING SYSTEMS.
2. THE FOLLOWING NOTES AND SCHEMATICS ARE INTENDED TO CLARIFY ALL CONTRACTOR RESPONSIBILITIES AND CONTROL SCENARIOS.
3. CERTAIN MATERIAL AND SERVICES SHALL BE PROVIDED BY LYNXSPRING UNDER A SEPARATE CONTRACT WITH WELLS FARGO. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WORK OUTLINED IN THIS PROJECT UTILIZING THE APPROPRIATE ASSIGNED SUB-CONTRACTORS AND THE MATERIALS PROVIDED BY LYNXSPRING TO INSTALL A COMPLETE AND OPERATING BUILDING MANAGEMENT SYSTEM.
4. CERTAIN WORK AND SERVICE PROVIDED BY AND THE RESPONSIBILITY OF CONTRACTOR AND ASSIGNED SUB-CONTRACTORS DURING THE CONSTRUCTION PHASE OF THIS PROJECT ARE COMPLETED UNDER THE SPECIFICATION AND REQUIREMENTS OF DIVISION 16.

LINXSPRING RESPONSIBILITIES

1. PROVIDE MATERIALS.
2. PROVIDE REMOTE PROGRAMMING PER WELLS FARGO APPROVED AND COMPLIANT DIRECTIVES.
3. PROVIDE REMOTE COMMISSIONING IN COORDINATION WITH THE MECHANICAL, ELECTRICAL, AND CONTROLS CONTRACTOR.
4. PROVIDE COMMISSIONING DOCUMENTATION PER DEVICES AND EQUIPMENT INSTALLED AT JOB LOCATION

RESPONSIBILITIES

1. GENERAL CONTRACTOR
   - A. COORDINATE DELIVERY OF CONSTRUCTION DOCUMENTS TO LYNXSPRING WITH WELLS FARGO PROJECT MANAGER.
   - B. COORDINATE WITH WELLS FARGO PROJECT MANAGER, THE COMPLETION OF THE LYNXSPRING ORDER FORM AND ISSUANCE OF PURCHASE ORDER BASED ON LYNXSPRING PROVIDED MATERIAL LIST. PURCHASE ORDER MUST BE ISSUED BY WELLS FARGO.
   - C. COORDINATE WITH LYNXSPRING THE DELIVERY OF LYNXSPRING PROVIDED MATERIALS.
   - D. LYNXSPRING CONTACT INFORMATION: LYNXSPRING INC., LEE'S SUMMIT, MO 64086, TEL: 816.347.3500
     - a. SUBMIT COMPLETED WORKSHEET TO: PROFESSIONALSERVICE@LYNXSPRING.COM
     - b. JOE CAHILL - JOE.CAHILL@LYNXSPRING.COM
2. ELECTRICAL SUB CONTRACTOR
   - A. PROVIDE 120 VOLT DEDICATED CIRCUIT HARD WIRED AT JENESYS PANEL FOR POWER TO CONTROL PANEL.
   - B. PER ELECTRICAL PLANS, PROVIDE CONNECTION BOXES AND CONDUIT STUB AND PENETRATIONS TO PROVIDE APPROPRIATE CABLE PATHS FOR CONTROL WIRING.
   - C. IDENTIFY APPLICABLE LIGHTING CIRCUITS AND CONTROLS AND INTERCEPT THROUGH JENESYS LIGHTING CONTROL RELAYS.
   - D. ELECTRICAL MAIN TROUGH - 10X10X36 - UPSTREAM OF ALL LOADS.
3. MECHANICAL CONTRACTOR
   - A. VERIFY MECHANICAL UNITS ARE ORDERED AND PROVIDED AS SPECIFIED BY WELLS FARGO TO INCLUDE CONTROL BOARDS, COMMUNICATION BOARDS, AND FACTORY PROVIDED ZONE SENSORS.
   - B. INSTALL ZONE SENSORS MOUNTED HORIZONTALLY IN THE SERVICE AREA PER MECHANICAL PLANS.
     1) ZONE SENSORS SHALL BE USED DURING CONSTRUCTION FOR START-UP AND CONDITIONING OF THE SPACE. CONTROL SHOULD BE SET FOR RUN IN STAND-ALONE UNIT THE JENE IS INSTALLED AND RUNNING.
   - C. COORDINATE WITH CONTROL CONTRACTOR FOR ALL REQUIREMENTS INCLUDING START-UP.
4. CONTROLS SUB CONTRACTOR (NOTE: THIS WORK GENERALLY AFTER ALL TRADE WORK IS COMPLETE)
   THE CONTROL CONTRACTOR TO BE NIAGARA N4 CERTIFIED.
   - A. VERIFY SYSTEM DEVICES AND EQUIPMENT INTENDED FOR MONITORING OF THE HVAC EQUIPMENT FOR THIS LOCATION.
   - B. TERMINATE INSTALLED CABLING AT THE CONTROL POINT AND AT THE JENESYS PANEL AT DESIGNATED CONTROLLER.
   - C. COORDINATE WITH SPECIFIC TRADE TO VERIFY OPERATIONS AND APPROPRIATE SCENARIO.
   - D. CONNECT JENESYS CONTROL PANEL TO WELLS FARGO PROVIDED UTILITY NET. UTILITY NET INSTALLATION IS ASSUMED TO HAVE BEEN INSTALLED PRIOR TO THE JENE INSTALLATION.
   - E. PROVIDE A COMPLETE AND OPERABLE SYSTEM INCLUDING ALL CONTROLLERS, WIRING, SENSORS, NIAGARA PROGRAMMING COMPLETE GUI / INTEGRATION AND PROVIDE BACKUP STATION FOR REVIEW.
   - F. SENSORS FOR HW HEATING VALVES FOR THE WSHPS SHALL BE PROVIDED BY THE ATC CONTRACTOR.
   - G. CONTROL CONTRACTOR TO PROVIDE ON SITE INTEGRATION OF EQUIPMENT AND I/O. PROVIDE ALL CONTROL COMPONENTS FOR A COMPLETE HVAC SYSTEM MONITORING INCLUDING TRANSFORMERS, RELAYS AS REQUIRED AND WIRING TO ALL COMPONENTS. LYNXSPRING TO PROVIDE A BASIC NIAGARA N4 STATION WITH WELLS FARGO STANDARDS FOR THIS CONTRACTOR TO UTILIZE FOR INTEGRATION. CONTRACTOR TO MATCH ALL DEVICES, COMPLETE ALL GRAPHICS, SCHEDULES. ALL GRAPHICS, POINT NAMING AND FOLDER STRUCTURE TO BE PER WELLS FARGO STANDARDS.
5. CABLING SUB CONTRACTOR
   - A. COORDINATE WITH MECHANICAL, ELECTRICAL, AND CONTROLS AND CONTRACTORS TO VERIFY CONTROLS PLAN FOR THE LOCATION.
   - B. AS APPROPRIATE PER DEVICE AND EQUIPMENT IDENTIFIED, PROVIDE CABLE SPECIFICATION AS LISTED IN THE INSTALLATION GUIDE BELOW DURING CONSTRUCTION ROUGH-IN AND AFTER CONDUIT PATHS HAVE BEEN INSTALLED.
   - C. ALL CABLE PULLS WILL BE HOME RUN FROM POINTS OF CONTROL TO JENESYS PANEL PER CONTROL DESIGN.
   - D. PROVIDE CAT6 CABLE FROM JENESYS PANEL TO WELLS FARGO PROVIDED UTILITY NET POINT OF CONNECTION.

2 M003 INSTALLATION GUIDELINES

1. HVAC SYSTEM
   - A. CABLE PULL
     1) 2-WIRE 18 GAUGE TWISTED/SHIELDED FROM HVAC UNIT CONTROLS COMPARTMENT TO JENE CONTROL CABINET FOR UNIT OPERATION.
     2) 2-WIRE 18 GAUGE TWISTED/SHIELDED FROM HVAC UNIT CONTROLS COMPARTMENT TO ZONE TEMPERATURE CONTROL POINT
     3) REFER TO DIAGRAM FOR ADDITIONAL CABLE PULLS
   - B. TERMINATIONS - ZONE SENSOR AND TERMINATE ALL EXTERNAL ITEMS
2. HEATING / COOLING UNITS
   - A. INSTALL ALL FURNISHED ITEMS PER NOTES AND PLAN. PROVIDE ALL ITEMS NOT INDICATED TO BE FURNISHED.
   - B. CABLE PULL
   - C. BMS DEVICE - WALL MOUNT TEMPERATURE SENSOR - INSTALL AT PROVIDED CONNECTION POINT.
   - D. TERMINATIONS - CONNECT TO TERMINALS XX AT SENSOR AND TO XX AT JENESYS.
3. LIGHTING SYSTEMS - INTERIOR
   - A. CABLE PULL
   - B. LIGHTING SYSTEM INTERFACE
   - C. TERMINATIONS
4. LIGHTING SYSTEM - EXTERIOR (OR TIME CLOCK)
   - A. CABLE PULL
   - B. CONTACTOR CONTROL
   - C. PHOTO CELL CONTROL
   - D. TERMINATIONS
5. LIGHTING OVERRIDE - INTERIOR
   - A. INTERIOR ENTRY
   - B. REAR EXIT
6. LIGHTING OVERRIDE - EXTERIOR
   - A. INTEGRATE AS PART OF THE PANEL

3 M003 JENE / UTILITYNET ORDERING PROCESS

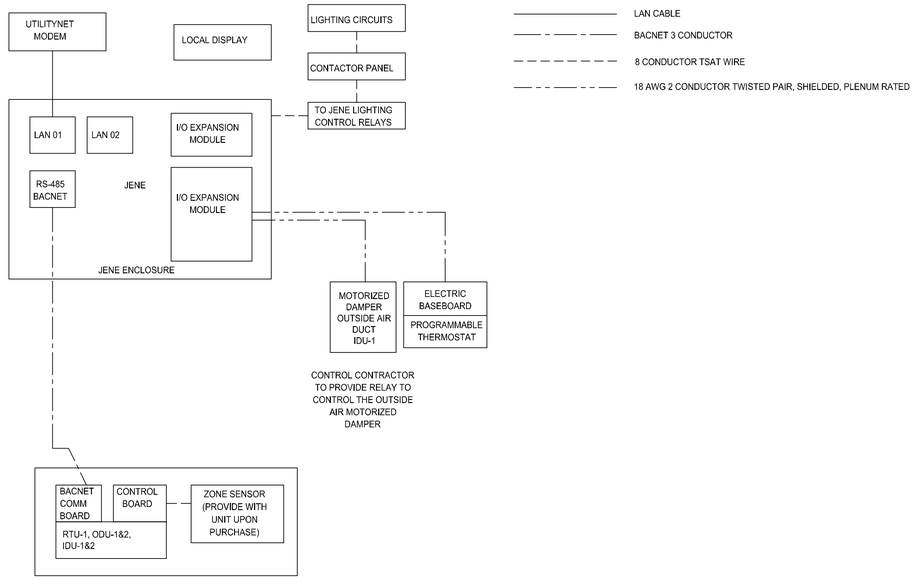
ORDERING OF THE JENE BMS AND ASSOCIATED UTILITYNET CONNECTION IS TIME SENSITIVE. PLEASE FOLLOW THE STEPS LISTED BELOW.

1. LEAD TIME FOR UTILITYNET DELIVERY IS APPROXIMATELY 90 DAYS.
2. THE WELLS FARGO CONSTRUCTION PORTFOLIO MANAGER SHOULD NOTIFY THE BUILDING SYSTEMS GROUP CONSULTANT (BSGC) AT THE PROJECT INCEPTION SO THE UTILITY NET CONNECTION CAN BE ORDERED BY THE BSGC.
3. FOLLOWING THE ISSUANCE OF THE PURCHASE ORDER, LEAD TIME FOR THE JENE PANEL IS APPROXIMATELY 4-6 WEEKS.
4. AT ISSUANCE OF THE CONTRACT, THE WELLS FARGO CONSTRUCTION PORTFOLIO MANAGER SHOULD PROVIDE THE JENE BMS ORDER FORM TO GENERAL CONTRACTOR OR HVAC SUB-CONTRACTOR.
5. GENERAL CONTRACTOR OR HVAC SUB-CONTRACTOR TO VERIFY AND COMPLETE JENE BMS ORDER FORM.
6. GENERAL CONTRACTOR OR HVAC SUB-CONTRACTOR TO SUBMIT JENE BMS ORDER FORM TO LYNXSPRING.
7. LYNXSPRING TO PROVIDE PROPOSAL TO WELLS FARGO CONSTRUCTION PORTFOLIO MANAGER TO REQUEST PURCHASE ORDER.
8. THE JENE PANEL SHOULD BE ORDERED BY THE WELLS FARGO CONSTRUCTION PORTFOLIO MANAGER FOLLOWING THE RECEIPT OF PERMIT, PROPOSAL FROM LYNXSPRING, AND THE AWARD OF CONSTRUCTION CONTRACT.
9. UTILITYNET CONNECTION IS REQUIRED FOR REMOTE COMMISSIONING OF THE JENE PANEL. JENE INSTALLER SHOULD SCHEDULE COMMISSIONING DATE WITH LYNXSPRING ONE WEEK IN ADVANCE.

4 M003 SETPOINT STANDARDS

PARAMETER	SETPOINT	OVERRIDE DURATION	OTHER CONSIDERATIONS
OCCUPIED COOLING	75°F	2° USER ADJUST (2° UP, 2° DN)	
UNOCCUPIED COOLING	83°F		
OCCUPIED HEATING	70°F	2° USER ADJUST (2° UP, 2° DN)	
UNOCCUPIED HEATING	64°F		
EXTERIOR LIGHTING	ASTRONOMICAL TIMECLOCK FUNCTIONALITY	PHOTOCELL OVERRIDE	DARK SKY LOCAL MANDATES MAY APPLY.
INTERIOR LIGHTING OCCUPIED	ON 60 MINUTES BEFORE OPENING, 60 MINUTES AFTER BRANCH CLOSING	60 MINUTES	
HVAC START STOP OPTIMIZATION	60 MINUTES BEFORE OPEN AND OFF AT CLOSE		
AFTER HOURS HVAC OVERRIDE DURATION	60 MINUTES	HVAC	
INTERIOR AFTER HOURS LIGHTING OVERRIDE DURATION	60 MINUTES	60 MINUTES	
HVAC SYSTEM AUTOMATIC CHANGEOVER	SET IN AUTO	SWITCHES BETWEEN HEATING AND COOLING ON DEMAND	CONSIDER DEAD BAND
SUPPLY FAN SETTING	SET IN AUTO	FAN RUNS WITH CALL FOR COOLING OR HEATING OFF WHEN NO CALL IS PRESENT EXCEPT WHEN REQUIRED BY CODE	
SMART RECOVERY	ENABLED		
DEMAND CONTROL VENTILATION	WHERE APPLICABLE	SET MIN-MAX TO ASHRAE 62.1 LEVELS	MAY BE CODE / LEED DRIVEN

4 M003 BMS / JENE SCHEMATIC



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1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
0600364910

William R Ryan
N.Y. LIC. #: 017735-1 SEAL
CONSULTANTS

DJM CONSULTING ENGINEERING
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attn: Dudek Drive
Suite 300
Will, NJ 07733
(732)329-0332
www.DJM-CE.com
DEPARTMENT OF HOMELAND SECURITY
#340A3B2254OO

DAVID J. MANTONE
N.Y. LIC. #: 0092743-1
CONSULTANTS

REVISIONS

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SHEET TITLE
MECHANICAL BMS NOTES

SHEET NUMBER
M-003

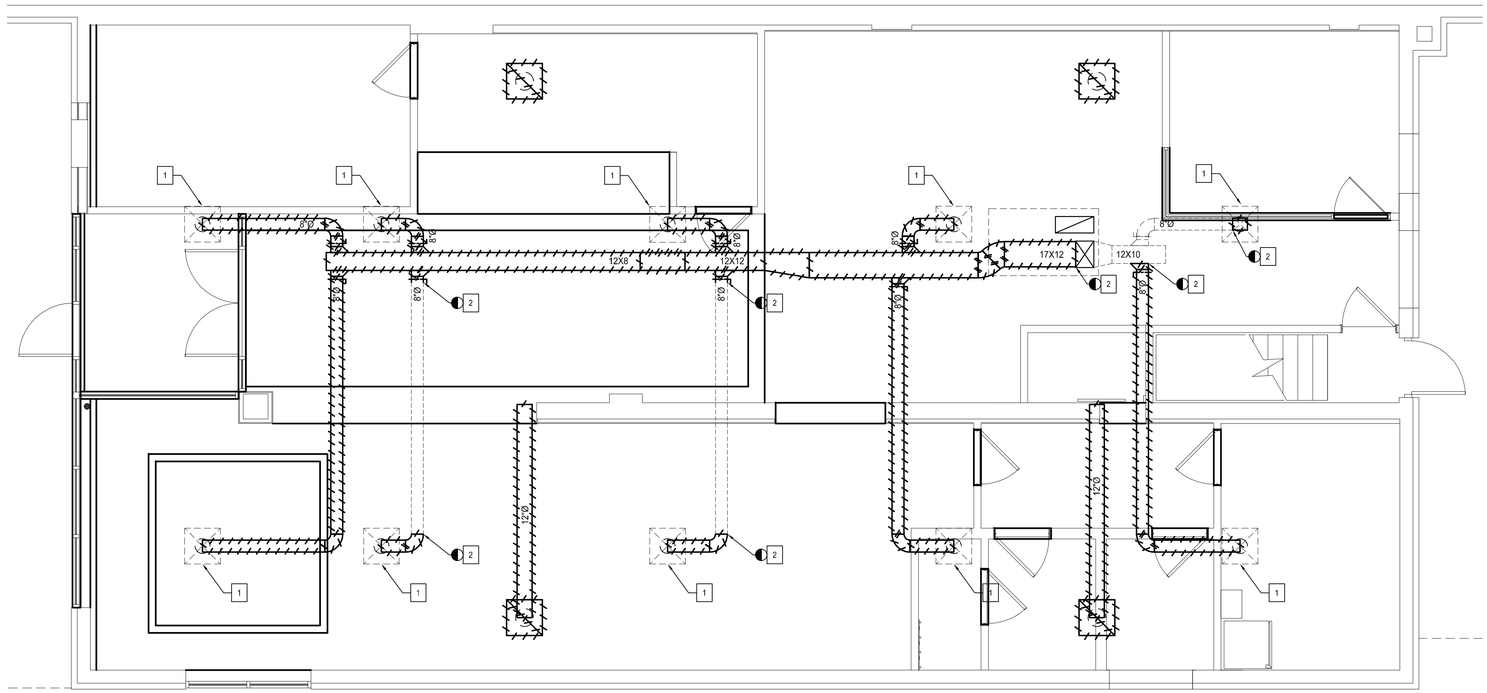
SHT. 3 OF 7

ARCHITECT PROJECT NUMBER
2174

1 M100

MECHANICAL DEMOLITION PLAN

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



2 M100

SHEET DEMOLITION NOTES

1. THIS PLAN IS PROVIDED TO SHOW EQUIPMENT THAT IS TO BE REMOVED OR RELOCATED AND IS INTENDED TO PROVIDE A GENERAL SCOPE OF WORK ONLY FOR SPECIFIC DIRECTION WHERE NECESSARY. IT IS NOT INTENDED TO INCLUDE ALL DEVICES WHICH WILL BE AFFECTED BY THE RENOVATION WORK.
2. CONTRACTORS MUST VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH TOTAL SCOPE AND IMPACT ON EXISTING SYSTEMS PRIOR TO BID. THE LOCATION OF EXISTING SYSTEMS AND SYSTEM COMPONENTS WAS ATTAINED THROUGH A LIMITED FIELD SURVEY. ONLY SYSTEM ELEMENTS THAT WERE CLEARLY VISIBLE HAVE BEEN IDENTIFIED. FIELD OBSERVATION OF EXISTING SYSTEMS AND THEIR COMPONENTS MUST BE FIELD VERIFIED BY THE CONTRACTOR, PRIOR TO DEMOLITION. THE CONTRACTOR MUST ATTEST TO THE ACCURACY OF WORK INDICATED TO BE REMOVED. EQUIPMENT, PIPING, ETC. INADVERTENTLY REMOVED SHALL BE REPLACED AT NO ADDITIONAL COST.
3. THIS CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING DUCTWORK WHICH WILL BE REQUIRED TO BE RELOCATED/RAISED DUE TO RENOVATION WORK AND NEW CEILING HEIGHTS.
4. CONTRACTOR SHALL VISIT THE SITE TO BECOME TOTALLY FAMILIAR WITH THE SCOPE OF WORK. PRIOR TO SUBMITTING A BID. ANY CLAIMS FOR EXTRAS FOR WORK RELATED TO EXISTING CONDITIONS WILL NOT BE ACCEPTED.

3 M100

SHEET KEY NOTES

1. EXISTING DIFFUSER TO BE RELOCATE. SEE SHEET M-200 FOR NEW LOCATION
2. CUT DUCTWORK AT SHOWN LOCATION. SEE SHEET M-200 FOR NEW CONNECTIONS.

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one Dubois Drive
Suite 302
Woburn, MA 01801
(781)939-0322
www.DJM-CE.com
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DEMOLITION PLANS

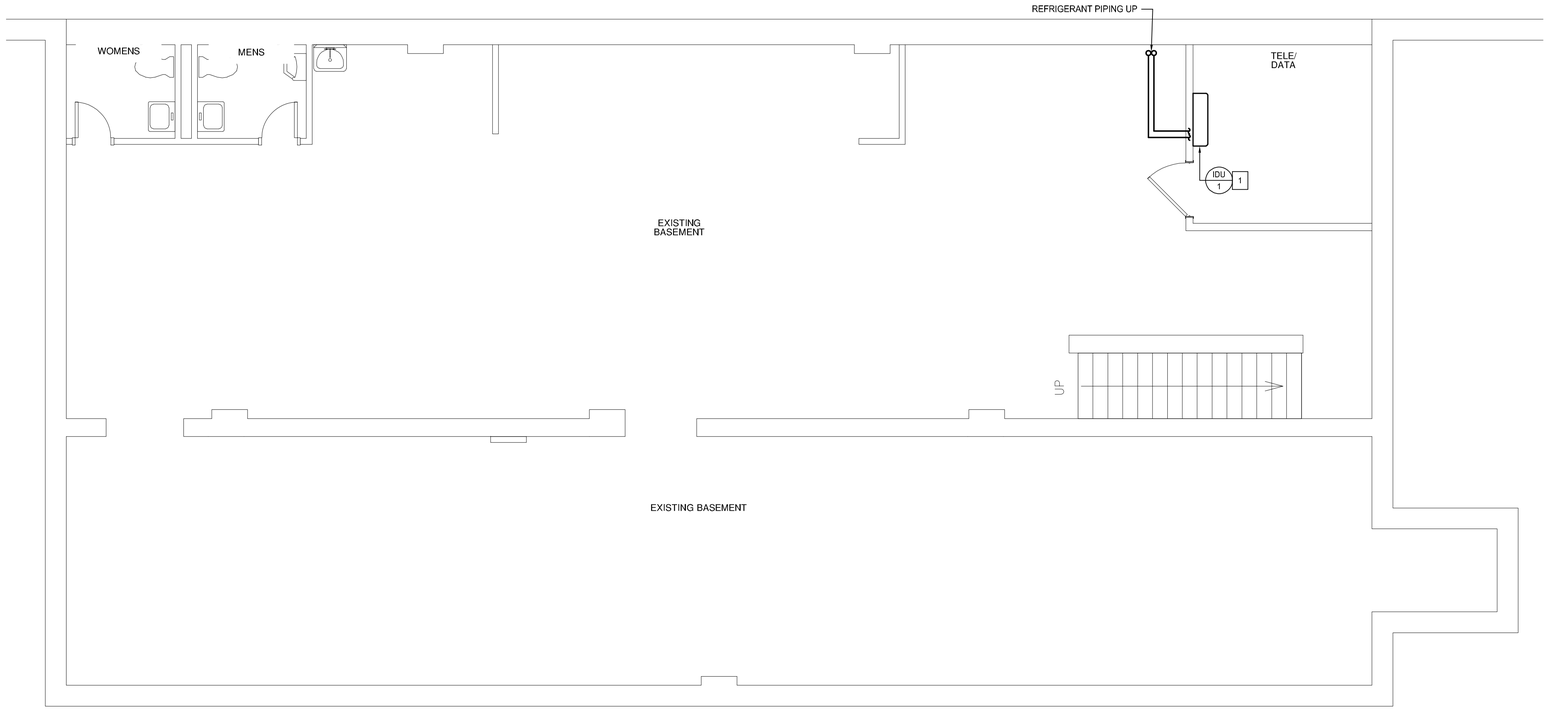
SHEET NUMBER
M-100

SHT. 4 OF 7

ARCHITECT PROJECT NUMBER
2174

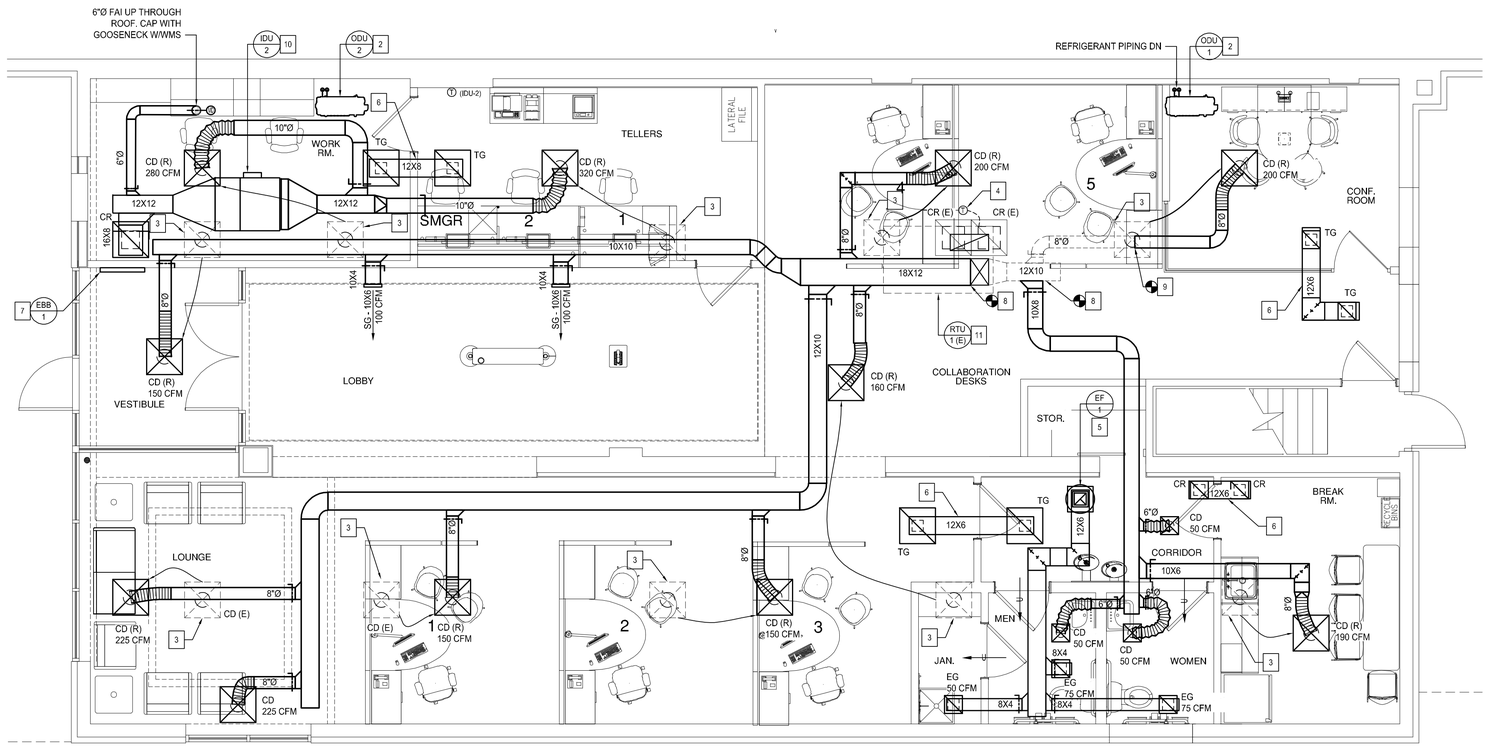
1 M200 MECHANICAL BASEMENT FLOOR PLAN

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



2 M200 MECHANICAL FIRST FLOOR PLAN

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



3 M200 SHEET GENERAL NOTES

1. THE SUPPORT WIRES FOR THE SUSPENDED CEILING TEE GRIDS SHALL NOT BE USED TO SUPPORT DUCTWORK, PIPING AND CONDUITS. ALL ATTACHMENTS SHALL BE MADE DIRECTLY TO BUILDING STRUCTURE.
2. ALL PENETRATIONS REQUIRED FOR EQUIPMENT (DUCTS, PIPES, ETC.) THROUGH ANY WALL SHALL BE PROPERLY SEALED OFF TO MAINTAIN THE INTEGRITY OF THE STRUCTURE.
3. MAKE ALL NECESSARY DUCT CONNECTIONS AND TRANSITIONS TO ROOFTOP UNITS AND EXHAUST FANS.
4. CONTRACTOR SHALL VERIFY ALL SPECIFIC MANUFACTURER REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO INSTALLATION.
5. ALL EQUIPMENT SHALL BE LOCATED AS TO BE IN COMPLIANCE WITH ALL LOCAL SIGHT AND SOUND RESTRICTIONS.
6. ALL EXHAUST FANS, FLUES AND OUTLETS SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE.
7. ALL HEATING, VENTILATING AND AIR CONDITIONING SHALL BE DONE IN STRICT ACCORDANCE WITH ALL REQUIREMENTS OF THE LOCAL BUILDING CODES, N.E.C., N.F.P.A., AND ALL OTHER APPLICABLE CODES HAVING JURISDICTION.
8. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. INTERNALLY LINED DUCTS SHALL BE INCREASED IN SIZE TO MAINTAIN THE SAME INTERNAL SIZE. RUN ALL DUCTWORK TIGHT TO STEEL JOISTS AND THRU JOISTS WHEREVER POSSIBLE AND NECESSARY.
9. PROVIDE TURNING VANES IN ALL SQUARE ELBOWS.
10. PROVIDE VOLUME DAMPER ON EACH BRANCH TAKE OFF FROM DUCT MAIN, AND ON EACH DIFFUSER TAKE OFF FROM BRANCH DUCT OR MAIN.
11. EXACT LOCATION OF DIFFUSERS TO BE COORDINATED WITH ARCHITECTURAL PLANS.
12. REFER TO PLUMBING DRAWINGS FOR CONDENSATE DRAIN PIPING.

4 M200 SHEET KEY NOTES

1. FURNISH AND INSTALL NEW INDOOR COOLING ONLY WALL MOUNTED AIR HANDLING UNIT MATCHED WITH OUTDOOR CONDENSING UNIT. MAINTAIN ALL REQUIRED CLEARANCES. PROVIDE CONDENSATE PUMP AND ROUTE CONDENSATE LINE TO AIR GAP DRAIN INTO MOP SINK. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
2. FURNISH AND INSTALL NEW CONDENSING UNIT ON EXISTING CONCRETE PAD ON ROOF LEVEL. ROUTE REFRIGERANT LINES BETWEEN CONDENSING UNIT. FOLLOW ALL MANUFACTURER GUIDELINES AND RECOMMENDATIONS. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
3. RELOCATE EXISTING DIFFUSER AS SHOWN. TYPICAL FOR TEN (10)
4. PROVIDE DIGITAL 7-DAY PROGRAMMABLE THERMOSTAT WITH AUTOMATIC SWITCHOVER, NIGHT SETBACK AND 5° DEADBAND. MOUNT ON WALL IN APPROXIMATE LOCATION SHOWN. INTERLOCK WITH UNIT SHOWN.
5. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ROOF MOUNTED EXHAUST FAN IN APPROXIMATE LOCATION SHOWN. ROUTE EXHAUST DUCT AS SHOWN. REFER TO MECHANICAL SCHEDULES ON SHEET DWG M-300 FOR ADDITIONAL INFORMATION.
6. PROVIDE TRANSFER DUCT, CR GRILLES TO BE LOCATED ON BOTH OPENINGS. SEE DETAIL ON SHEET M-300 FOR MORE INFORMATION.
7. FURNISH AND INSTALL NEW ELECTRIC BASEBOARD. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
8. PROVIDE NEW DUCT TAKE OFF AT NEW DUCTWORK SIZE. RESEAL DUCT AS REQUIRED.
9. EXTEND EXISTING 8"Ø DUCTWORK AS SHOWN.
10. FURNISH AND INSTALL NEW DUCTED INDOOR AIR HANDLING UNIT. MAINTAIN ALL REQUIRED CLEARANCES. PROVIDE CONDENSATE PUMP AND ROUTE CONDENSATE LINE AS SHOWN ON PLUMBING FLOOR PLANS. ROUTE EXTERNALLY WRAPPED SUPPLY AND RETURN DUCTS AS SHOWN. ROUTE FRESH AIR DUCT UP THROUGH ROOF AS SHOWN. PROVIDE MOTORIZED DAMPER FOR FRESH AIR INTAKE AND PROVIDE RELAY KIT FOR INTERLOCKING DAMPER WITH UNIT. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
11. EXISTING PACKAGED ROOFTOP UNIT TO REMAIN. CONNECT EXTERNALLY WRAPPED SUPPLY AND RETURN DUCTS TO EXISTING DUCT DROPS AND ROUTE AS SHOWN.

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SHEET TITLE
MECHANICAL FLOOR PLANS

SHEET NUMBER
M-200

SHT. 5 OF 7

ARCHITECT PROJECT NUMBER
2174

1
M300

MECHANICAL SCHEDULES

CODE REQUIRED OUTSIDE AIR VENTILATION RATES

BASED ON NYS MC 2020 TABLE 403.3.1.1

ZONE & AREA	OCCUPANCY CATEGORY	NET AREA (Az) FT2	AREA OUTDOOR AIR RATE (Ra) CFM/FT2	CODE REQ'D BASED ON FLOOR AREA (AzRa) CFM		DEFAULT OCC. DENSITY #/1000 FT2	OCCUPANT DENSITY (Pz) PEOPLE	ACTUAL OCCUPANT LOAD USED	PEOPLE OUTDOOR AIR RATE (Rp) CFM/PERSON	CODE REQ'D BASED ON PEOPLE (RpPz) CFM		TOTAL OA REQ'D BY CODE (Vbz) CFM		ZONE AIR DISTRIBUTION EFF. (Ez)		ZONE OA REQ'D BY CODE (Voz) CFM	OA PROVIDED CFM	EXHAUST AIRFLOW RATE CFM/FT2	EXHAUST REQ'D BY CODE CFM	EXHAUST PROVIDED CFM
WORK RM.	Workrooms - Bank vaults/safe deposit	190	0.06	12	+	5	1	2	5	10	=	22	÷	0.8	=	28	41	-	-	-
TELLERS	Offices - Office Spaces	200	0.06	12	+	5	1	3	5	15	=	27	÷	0.8	=	34	41	-	-	-
OFFICE 4	Offices - Office Spaces	107	0.06	7	+	5	1	1	5	5	=	12	÷	0.8	=	15	20	-	-	-
OFFICE 5	Offices - Office Spaces	107	0.06	7	+	5	1	1	5	5	=	12	÷	0.8	=	15	20	-	-	-
CONF. ROOM	Offices - Conference rooms	128	0.06	8	+	50	6	4	5	20	=	28	÷	0.8	=	35	37	-	-	-
COLLABORATION DESK CORR.	Public Spaces - Corridors	308	0.06	19	+	-	-	-	-	-	=	19	÷	0.8	=	24	31	-	-	-
LOBBY	Offices - Office Spaces	454	0.06	28	+	5	2	0	5	0	=	28	÷	0.8	=	35	37	-	-	-
VESTIBULE	Offices - Office Spaces	81	0.06	5	+	5	0	0	5	0	=	5	÷	0.8	=	7	29	-	-	-
LOUNGE	Offices - Office Spaces	223	0.06	14	+	5	1	7	5	35	=	49	÷	0.8	=	62	88	-	-	-
OFFICE 1	Offices - Office Spaces	107	0.06	7	+	5	1	1	5	5	=	12	÷	0.8	=	15	20	-	-	-
OFFICE 2	Offices - Office Spaces	107	0.06	7	+	5	1	1	5	5	=	12	÷	0.8	=	15	20	-	-	-
OFFICE 3	Offices - Office Spaces	87	0.06	6	+	5	0	1	5	5	=	11	÷	0.8	=	14	20	-	-	-
JAN.	-	22	-	-	+	-	-	0	-	-	=	-	÷	0.8	=	-	-	-	-	50
STORAGE	-	20	-	-	+	-	-	0	-	-	=	-	÷	0.8	=	-	-	-	-	-
CORRIDOR	Public Spaces - Corridors	78	0.06	5	+	-	-	0	-	-	=	5	÷	0.8	=	7	10	-	-	-
MEN	Public Spaces - Toilet rooms - public	44	-	-	+	-	-	0	-	-	=	-	÷	0.8	=	-	10	50/70	-	75
WOMEN	Public Spaces - Toilet rooms - public	44	-	-	+	-	-	0	-	-	=	-	÷	0.8	=	-	10	50/70	-	75
BREAK ROOM	Offices - Office Spaces	141	0.06	9	+	5	1	4	5	20	=	29	÷	0.8	=	37	37	-	-	-
TOTALS		2,448						25				271					471			200

DIFFUSER AND REGISTER SCHEDULE

UNIT ID	MODEL	SIZE	DESCRIPTION	REMARKS
CD	OMNI	24X24 12X12	ARCHITECTURAL SQUARE PANEL LAY-IN DIFFUSER WITH OPPOSED BLADE VOLUME CONTROL, EQUALIZING GRID, DIRECTIONAL BLOW CLIPS AS REQUIRED AND R-6 BACK PAN INSULATION	1,2,3,4,5,6
CR	PAR	24X24 12X12	PERFORATED FACED LAY-IN REGISTER WITH VOLUME DAMPER.	1,2,3,5
EG	350RL	SEE PLAN	LOUVER FACED, SQUARE OR RECTANGULAR RETURN/EXHAUST GRILLE WITH VOLUME CONTROL. PLASTIC EGG GRATES ARE UNACCEPTABLE.	1,2,3,5
SG	S300FL	10X4	ALUMINIUM DIRECT SPIRAL MOUNTED DOUBLE DEFLECTION SUPPLY GRILLE WITH RADIUS END CAP 3/4" SPACING WITH FRONT BLADES PARALLEL TO LONG DIMENSION.PROVIDE WITH OPTIONAL AIR SCOOP DEVICE (ASD) DAMPER/EXTRACTOR, INSTALL GRILLE AT 22.5 DEG DOWNWARD ANGLE.	1,2,3,4

NOTES:

1. SELECTIONS ARE BASED ON TITUS.
2. MAXIMUM NOISE CRITERION RATING < 35 dBA.
3. BAKED ENAMEL FINISH, COLOR TO BE SELECTION BY ARCHITECT.
4. DIFFUSER SHALL BE 4-WAY BLOW UNLESS OTHERWISE INDICATED ON PLANS.
5. MOUNTING FRAM SHALL BE COORD. WITH CEILING / WALL CONSTRUCTION TYPE.
6. NECK SIZE SHALL BE AS SCHEDULED IN TABLE 1.

TABLE 1 - SQUARE NECK	TABLE 1 - ROUND NECK
UP TO 99 CFM - 6"X6"	UP TO 99 CFM - 6"Ø
100 TO 300 CFM - 8"X8"	100 TO 300 CFM - 8"Ø
301 TO 400 CFM - 12"X12"	301 TO 400 CFM - 10"Ø
401 TO 550 CFM - 14"X14"	401 TO 550 CFM - 12"Ø
551 TO 750 CFM - 16"X16"	551 TO 800 CFM - 14"Ø
UP TO 1500 CFM - 18"X18"	UP TO 1500 CFM - 18"X18"

DUCTLESS SPLIT SYSTEM AIR CONDITIONER SCHEDULE

INDOOR UNIT											OUTDOOR UNIT									
UNIT ID	MANUFACTURER MODEL	CFM H/M/L/SL/Q	EXT SP	OA CFM	AUX ELEC HEAT	ELECTRICAL DATA VOLTS/Ø	MCA	MOP	WEIGHT LBS	NOTES	PLAN NO	MANUFACURER MODEL	TOTAL COOL CAP MBH	SENS COOL CAP MBH	ELECTRICAL DATA VOLTS/Ø	MCA	MOCP	WEIGHT LBS	SEER	NOTES
IDU-1	TPKA0A0121HA70A	425/370/320	-	-	-	208/1	1	15	29	1 TO 9	ODU-1	TRUYA0121KA70(N/B)A	12.0	10.3	208/1	11	28	92	20.8	10 TO 13
IDU-2	TPEADA0181AA70A		0.4	65	-	208/1	1.7	-	65	1,2 ,4 TO 7, 14	ODU-2	NTXSKH18A112AA	18.0	14.4	208/1	17	31	131	18.9	10 TO 13

NOTES:

1. UNIT BASED ON MITSUBISHI.
2. PROVIDE HANGING AND VIBRIATION ISOLATION ACCESSORIES.
3. PROVIDE WITH OPTIONAL CONDENSATE PUMP AND PUMP FASCIA KIT WITH DISCHARGE TO NEAREST APPROVED PLUMBING RECEPTACLE.
4. PROVIDE ELECTRICAL DISCONNECT.
5. PROVIDE BACNET INTERFACE.
6. PROVIDE DRAIN PAN WITH UL #508 APPROVED WATER DETECTION SENSOR FOR UNIT SHUTDOWN. WIRE CONTROL CIRCUIT THROUGH NC CONTACT.
7. OUTDOOR UNIT SHALL PROVIDE POWER FOR INDOOR UNIT. SEE INSTALLATION MANUAL FOR ADDITIONAL INFORMATION.
8. PROVIDE WITH MAC-408FT-E FILTER.
9. PROVIDE WITH PAR-40MAAU CONTROLLER. PROVIDE CONTROL INTERFACE.
10. MOUNT OUTDOOR UNIT ON MINIMUM 18" HIGH NONISOLATED WIND AND SEISMIC RESTRAINT RAILS.
11. PROVIDE ELECTRICAL DISCONNECT.
12. PROVIDE HAIL GUARDS.
13. OUTDOOR UNIT SHALL BE WIRED TO PROVIDE INDOOR UNIT WITH POWER.
14. PROVIDE TAR-40MAAU REMOTE CONTROLLER. PROVIDE PAC-UKPRC001-CN-1 THERMOSTAT.

EXHAUST FAN SCHEDULE

UNIT ID	MODEL NO.	TYPE	DRIVE	CFM	FAN RPM	S.P. (IN. W.G.)	MOTOR HP	MOTOR VOLTS	MOTOR PHASE	SERVICE	INTERLOCKED WITH	SONES	WEIGHT (LBS)	NOTES	ACCESSORIES
EF-1	G-070-VG	ROOF	DIRECT	200	1452	0.3	1/10	115	1	1ST FL RESTROOMS	TIMECLOCK	3.7	24	1 TO 3	1 TO 9

NOTES:

1. UNIT SELECTION BASED ON GREENHECK.
2. FAN SHALL OPERATE DURING HOURS OF OPERATION (USER ADJUSTABLE).
3. ROOF CURBS SHALL BE SUITABLE FOR SLOPED ROOF.

ACCESSORIES:

1. VIBRATION ISOLATORS.
2. 12" HIGH PREFABRICATED SOUND ATTENUATING ROOF CURB WITH DAMPER TRAY. PROVIDE FOAM SEAIL, SHIPPED LOOSE, FIELD APPLIED.
3. DISCONNECT SWITCH.
4. VARI-GREEN UNIT MOUNTED 0-10VDC SPEED CONTROLLER AND TRANSFORMER MOUNTED AND WIRED.
5. GRAVITY BACKDRAFT DAMPER.
6. STAINLESS FASTENERS.
7. PERMATECTOR COATING.
8. GALVANIZED BIRD SCREEN.
9. UL LISTED MOTOR.

ELECTRIC BASEBOARD SCHEDULE

UNIT ID	MODEL NUMBER	AREA SERVED	MOUNTING	CONTROL	ELECTRICAL KW	ELECTRICAL AMPS	ELECTRICAL VOLTS	ELECTRICAL PHASE	WEIGHT (LBS)	NOTES	ACCESSORIES
EBB-1	QMKC25126W	ROOM	WALL-LOW		0.5	4.2	115	1	13	1 TO 4	1 TO 6

NOTES:

1. UNIT SELECTION BASED ON QMARK.
2. MAINTAIN 50°F IN SPACE.
3. UNITS SHALL HAVE BUILT- IN THERMAL OVERLOAD PROTECTION.
4. FINISH AND COLOR SHALL BE AS SELECTED BY ARCHITECT.
5. ELECTRIC BASEBOARD TO BE TIED INTO BMS.

ACCESSORIES:

1. PROVIDE PEDESTAL MOUNTS.
2. DISCONNECT SWITCH.
3. WALL/SURFACE MOUNTING BRACKET.
4. INTEGRAL THERMOSTAT.
5. REMOTE THERMOSTAT.

EXISTING ROOFTOP DX UNIT

UNIT ID	MODEL NUMBER	AREA SERVED	TONS	SUPPLY FAN TOTAL CFM	SUPPLY FAN MIN OA CFM	SUPPLY FAN ESP IN. W.G.	SUPPLY FAN MOTOR HP	HEATING SECTION NO. OF STAGES	HEATING SECTION INPUT MBH	HEATING SECTION OUTPUT MBH	COOLING COIL TOTAL MBH	COOLING COIL SENS. MBH	COOLING COIL EAT DB/WB	COOLING COIL AMB. AIR	ELECTRICAL VOLTS	ELECTRICAL PHASE	ELECTRICAL MCA	ELECTRICAL MOCP	SEER	OPER. WEIGHT (LBS.)	NOTES
RTU-1	48GCCFM06A1M5-6W0A0	SEE PLAN	5	2,000	400	-	-	2	120/150	96/120	63	48.32	80/67	-	208	3	29	40	16	670	1, 2

NOTES:

1. EXISTING UNIT TO BE REUTILIZED. SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. CONTRACTOR SHALL PROVIDE FACTORY RECOMMENDED MAINTENANCE ON UNIT. CHANGE FILTERS, BELTS, CHECK REFRIGERANT, ETC.

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MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

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36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
0600364910

N.Y. LIC. #: 017735-1 SEAL

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Suite 302
Willis, TM 07733
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www.DJM-CE.com
DISTRIBUTED BY ARCHITECTURAL DATA
#340A3B3235400

DAVID J. MANTONE
N.Y. LIC. #: 0092743-1
CONSULTANTS

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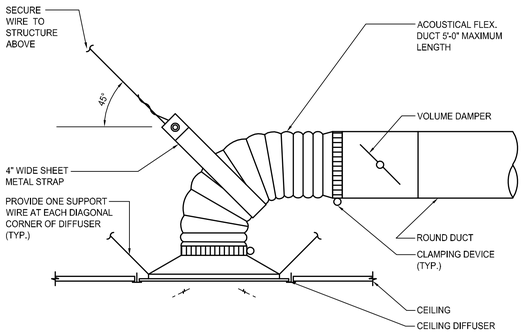
SHEET TITLE
MECHANICAL SCHEDULES

SHEET NUMBER
M-300

SHT. 6 OF 7

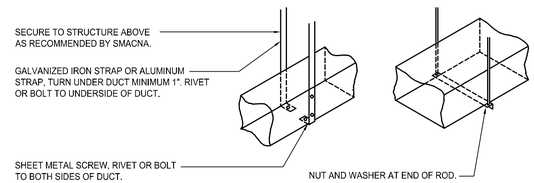
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1 M400 CEILING DIFFUSER DETAIL

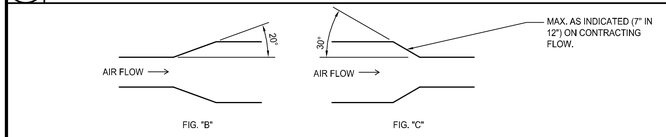


2 M400 DUCT HANGER SCHEDULE DETAIL

RECTANGULAR DUCT HANGER SCHEDULE (MINIMUM SIZES)								
HALF DUCT PERIMETER RANGE	PAIR AT 10' SPACING		PAIR AT 8' SPACING		PAIR AT 5' SPACING		PAIR AT 4' SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2<30"	1"X 22 GA.	10 GA. (0.135")	1"X 22 GA.	10 GA. (0.135")	1"X 22 GA.	12 GA. (0.106")	1"X 22 GA.	12 GA. (0.106")
P/2<72"	1"X 18 GA.	3/8"	1"X 20 GA.	1/4"	1"X 22 GA.	1/4"	1"X 22 GA.	1/4"
P/2<96"	1"X 16 GA.	3/8"	1"X 18 GA.	3/8"	1"X 18 GA.	3/8"	1"X 22 GA.	1/4"
P/2<120"	1-1/2"X 16 GA.	1/2"	1"X 16 GA.	3/8"	1"X 16 GA.	3/8"	1"X 20 GA.	1/4"
P/2<168"	1-1/2"X 16 GA.	1/2"	1"X 16 GA.	1/2"	1"X 16 GA.	3/8"	1"X 18 GA.	3/8"
P/2<192"	-	1/2"	1-1/2"X 16 GA.	1/2"	1"X 16 GA.	3/8"	1"X 16 GA.	3/8"



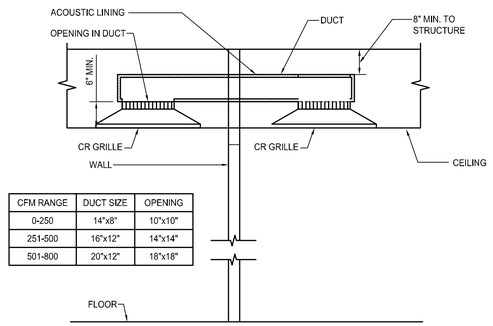
3 M400 DUCT TRANSITION DETAILS



NOTE:

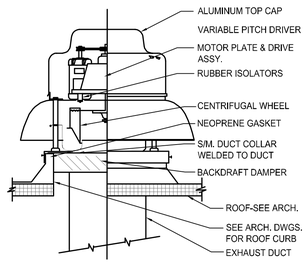
1. DUCT TRANSITIONS TYPICAL AFTER EACH TAKE-OFF(S) WHERE CHANGE IN DUCT SIZE IS INDICATED.

4 M400 SOUND TRAP TRANSFER DUCT DETAIL



CFM RANGE	DUCT SIZE	OPENING
0-250	14"x8"	10"x10"
251-500	16"x12"	14"x14"
501-800	20"x12"	18"x18"

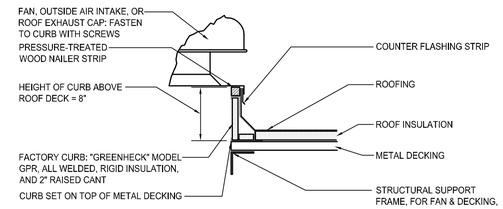
5 M400 EXHAUST FAN DETAIL



6 M400 CURB DETAIL: FAN OR GRAVITY VENTILATOR DETAIL

MECHANICAL SUBCONTRACTOR SHALL PROVIDE ITEMS NOTED BELOW

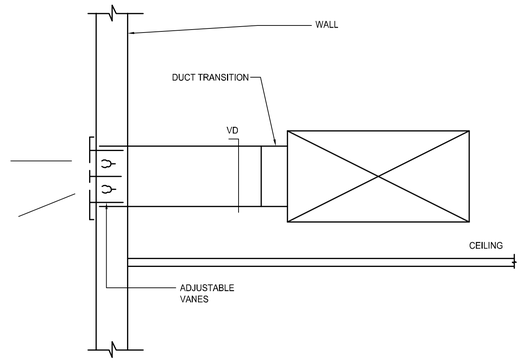
GENERAL CONTRACTOR SHALL PROVIDE ITEMS NOTED BELOW



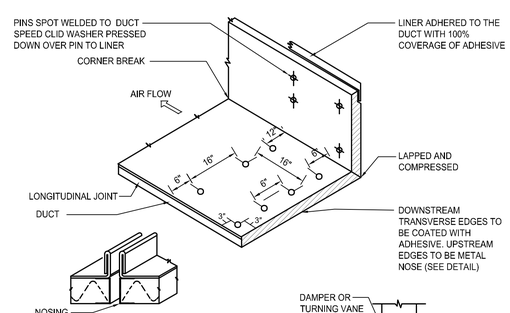
NOTES:

1. MECHANICAL SUBCONTRACTOR SHALL VERIFY THICKNESS OF ROOF INSULATION PRIOR TO ORDERING CURBS NOTED ABOVE.
2. CURBS NOTED ABOVE DO NOT NEED TO BE SET LEVEL, AND CAN BE SET WITH THE PITCH OF THE ROOF.

7 M400 WALL MOUNTED SUPPLY REGISTER DETAIL



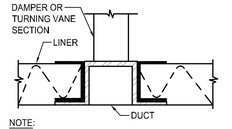
8 M400 DUCT LINER DETAIL



NOTE:

1. ENTERING, BUTTING & TRAILING EDGES OF LINER AT TRANSVERSE JOINTS TO BE COVERED BY NOSING

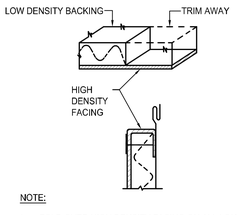
TRANSVERSE JOINT DETAIL



NOTE:

1. HAT SECTION INSTALLED WITH NOSING TO CONCEAL LINER EDGES.

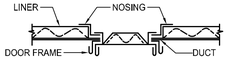
DETAIL AT DAMPERS AND TURNING VANES



NOTE:

1. FOLD OVER HIGH DENSITY FACING ON ALL LONGITUDINAL JOINTS & SECURE WITH MECH. FASTENERS

LONGITUDINAL JOINT DETAIL

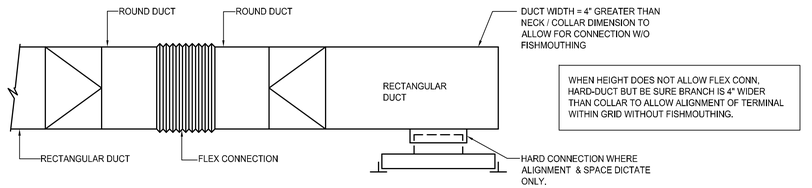


ACCESS DOOR NOSING DETAIL

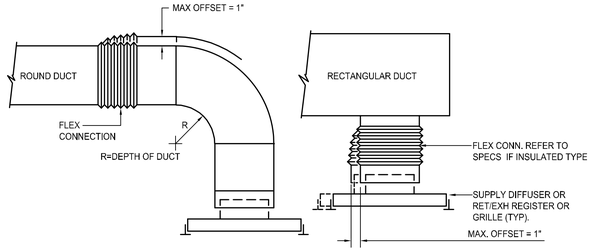
GENERAL NOTES:

1. NOSING ATTACHED TO DUCT BY RIVETS,SCREWS OR WELDS.
2. NOSING : 24 GA. UP TO 48", OVER 48", SAME GA. AS DUCT

- - TYPICAL DIFFUSER/REGISTER CONNECTION DETAIL



WHEN HEIGHT DOES NOT ALLOW FLEX CONN, HARD-DUCT BUT BE SURE BRANCH IS 4" WIDER THAN COLLAR TO ALLOW ALIGNMENT OF TERMINAL WITHIN GRID WITHOUT FISHMOUTHING.



NOTES:

1. THESE DETAILS ALLOW DUCTWORK TO BE PROVIDED BEFORE CEILING GRID IS INSTALLED. THEN THE DIFFUSER/REGISTER CAN BE POSITIONED INTO GRID.
2. PROVIDE INSULATED TRANSITION ROUND TO SQUARE IF REQUIRED AT DIFFUSER/REGISTER.
3. PROVIDE NYLON TY-WRAP TOOL OR REUSABLE SS DRAW BAND. (REFER TO SPECIFICATIONS FOR INFORMATION)
4. FLEX DUCT SHALL NOT HAVE MORE THAN 1/2" SAG PER FOOT. (REFER TO SPECIFICATIONS FOR INFORMATION)
5. LENGTH OF FLEX DUCT SHALL NOT EXCEED 3'-0".
6. PROVIDE DUCT MOUNTED VOLUME DAMPER WHENEVER POSSIBLE. TRY TO AVOID NECK DAMPERS.

WELLS FARGO

INTERIOR FIT–OUT

MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
0600364910

William R Ryan
N.Y. LIC. #: 017735-1 SEAL

CONSULTANTS

DJM CONSULTING ENGINEERING
one Dudley Drive
Suite 302
Wilton, NH 07082
(781)939-0332
www.DJM-CE.com
DEPARTMENT OF HOMELAND SECURITY
#340A3823540O

DAVID J. MANTONE
N.Y. LIC. #: 0092743-1
CONSULTANTS

REVISIONS

NO.	DATE	DESCRIPTION	BY

DATE ISSUED: 8.26.21
ISSUED FOR: BID & PERMIT SET
REVIEWED BY:
DRAWN BY:

WELLS FARGO BE NUMBER
111700

SHEET TITLE
MECHANICAL DETAILS

SHEET NUMBER
M-400

SHT. 7 OF 7

ARCHITECT PROJECT NUMBER
2174

1 E001 ELECTRICAL GENERAL NOTES

1. OBTAIN ALL PERMITS AND PAY ALL FEES NECESSARY FOR INSPECTION, TESTS, AND OTHER SERVICES REQUIRED FOR THE COMPLETION OF WORK.
2. MATERIALS SHALL BE NEW AND BEAR THE U.L. LABEL / LISTED AS APPROVED FOR ITS INSTALLED APPLICATION.
3. GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE BY OWNER.
4. THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE CONDITION OF THE PREMISES AND THE CHARACTER AND EXTENT OF WORK REQUIRED PRIOR TO THE SUBMISSION OF BIDS. ANY DIFFICULTIES IN COMPLYING WITH THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE BIDDING.
5. IT IS THE INTENT OF THESE DRAWINGS AND OTHER RELATED DOCUMENTS TO PRODUCE A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND OTHER SERVICES NECESSARY TO ACCOMPLISH THIS. THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT ANY DISCREPANCIES IN THE PLANS AND SPECIFICATIONS THAT WILL AFFECT THE WORK, PRIOR TO SUBMISSION OF HIS BID PRICE.
6. IF, DURING THE COURSE OF THE WORK, THE CONTRACTOR EXPERIENCES A PROBLEM RELATIVE TO THE PLANS AND SPECIFICATIONS, THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES AND GOVERNING DOCUMENTS, THE CONTRACTOR SHALL BRING THE PROBLEM TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER FOR RESOLUTION PRIOR TO EXECUTION OF THE WORK.
7. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE AND OTHER APPLICABLE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.
8. PRIOR TO ROUGH-IN, VERIFY LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED AREAS WITH ARCHITECTURAL DRAWINGS AND OWNER. IF DISCREPANCIES EXIST BETWEEN DRAWINGS, ADJUST DEVICE LOCATIONS PER FIELD CONDITIONS AT NO ADDITIONAL COST TO OWNER.
9. CIRCUIT NUMBERS ON THE DRAWING MAY NOT NECESSARILY INDICATE THE POSITION ON THE PANELBOARD. CONNECT THE CIRCUITS WITH THE LIGHTEST LOADS AND THE RECEPTACLE CIRCUITS NEAR THE TOP OF THE PANEL, AND THE MORE HEAVILY LOADED CIRCUITS NEAR THE BOTTOM. BALANCE ALL CIRCUITS EVENLY BETWEEN PHASES AND PANEL SECTIONS SO THAT FEEDER WIRES CARRY APPROXIMATELY EQUAL CURRENT. RE-BALANCE AS NECESSARY.
10. THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM AND PER NEC.
11. POLYVINYL CHLORIDE (PVC) CONDUIT SHALL NOT BE PERMITTED IN 'RETURN AIR' WALLS, OR OTHER SPACES. COORDINATE THE TYPES OF WALLS AND THEIR CONSTRUCTION WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
12. RACEWAYS AND CABLES SHALL BE CONCEALED IN CEILINGS OR WALLS PER SPECIFICATIONS UNLESS OTHERWISE INDICATED.
13. ACCESS DOOR LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT PRIOR TO THE INSTALLATIONS. INSTALL ELECTRICAL SYSTEM IN SUCH A WAY TO LIMIT THE NUMBER OF ACCESS DOORS.
14. JUNCTION AND PULL BOXES: SHALL NOT BE EXPOSED IN FINISHED SPACES. AS NECESSARY, ROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. PROVIDE JUNCTION OR PULL BOXES AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. COORDINATE LOCATIONS WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. FOR EMPTY RACEWAY RUNS, PROVIDE PULL BOXES EVERY 100 FEET OR AS INDICATED.
15. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONTACT, ARRANGE AND COORDINATE SERVICE REQUIREMENTS WITH THE LOCAL POWER AND TELEPHONE COMPANIES AND PROVIDE ANY ADDITIONAL MATERIALS AND LABOR REQUIRED AT NO ADDITIONAL EXPENSE TO THE OWNER. COORDINATE PRIOR TO BID.
16. THE CONTRACTOR SHALL VERIFY SIZES AND RATINGS OF CONDUIT, WIRE, CIRCUIT BREAKERS, FUSES, ETC. SERVING EQUIPMENT AND DEVICES AND ADJUST AS NEEDED FOR ACTUAL EQUIPMENT AND DEVICES, ETC. AS NEEDED AT NO ADDITIONAL EXPENSE TO THE OWNER.
17. AMPERE, KW, OR HORSEPOWER RATINGS INDICATED ON THE DRAWINGS MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM THE RATINGS ON THE DRAWINGS, CONTRACTOR SHALL ADJUST WIRING, CONDUIT, OVER CURRENT PROTECTION DEVICES, ETC. AS NEEDED AT NO ADDITIONAL EXPENSE TO THE OWNER.
18. PROVIDE FINAL CONNECTION TO ALL EQUIPMENT AS DIRECTED BY THESE DOCUMENTS, THE SPECIFICATIONS AND OWNER REPRESENTATIVE.
19. SIZES OF BRANCH CIRCUIT WIRING, CONDUIT, SAFETY SWITCHES, OVERCURRENT PROTECTION DEVICES, ETC. SHOWN SERVING DEVICES AND EQUIPMENT ARE BASED ON THE INFORMATION AVAILABLE AT THE TIME THESE DOCUMENTS WERE PREPARED. THE CONTRACTOR SHALL PROVIDE THE NECESSARY CIRCUITS AND CONNECTIONS REQUIRED BY THE EQUIPMENT MANUFACTURER'S DATA AND THE NATIONAL ELECTRICAL CODE, INCLUDING THE PROVIDING OF SAFETY SWITCHES.
20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECTLY FILL OUT ALL PANELBOARD SCHEDULE DIRECTORIES. WHEN FILLING OUT DIRECTORY CARDS, CONTRACTOR SHALL BE SPECIFIC IN THE DESCRIPTION AND UNIQUELY IDENTIFY LOADS ON EVERY CIRCUIT.
21. CONSULT WITH CONTRACTORS FURNISHING HVAC EQUIPMENT TO VERIFY LOADS AND SECURE EXACT LOCATIONS (REFER TO THE MECHANICAL DRAWINGS). WIRE AND CONNECT TO ALL HVAC EQUIPMENT, INCLUDING CONTROLS AND THERMOSTATS.
22. THE CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO ALL CONTROLS, TENANT EQUIPMENT, MECHANICAL EQUIPMENT AND PLUMBING EQUIPMENT.
23. WIRING SHALL BE SIZED FOR THE APPROPRIATE VOLTAGE DROP, AS DIRECTED BY NEC.
24. WIRING INSTALLED UNDER THIS CONTRACT SHALL BE TESTED FOR PROPER CONNECTIONS AND SHORT CIRCUITS PRIOR TO THE COMPLETION OF THE PROJECT.
25. OUTLET BOXES SHALL BE STEEL, EXTRA DEEP WITH GROUNDING PIGTAILS. GROUNDING PUSH-ON CLIPS SHALL NOT BE PERMITTED. PROVIDE PROPER TYPE CONNECTORS AT BOXES FOR CONDUIT AND CABLE.
26. THE CONTRACTOR SHALL NOT SCALE FROM THESE DRAWINGS AS FIELD CONDITIONS MAY DIFFER AT TIME OF CONSTRUCTION AND ROUGH-IN. FIELD MEASURE ALL AND MAKE ALL ADJUSTMENTS AS NECESSARY TO PROVIDE THE INSTALLATION INTENDED ON THESE DRAWINGS.

2 E001 ELECTRICAL ABBREVIATIONS

A	AMP, AMPERE	K	KILO
AC	ALTERNATING CURRENT	KCMIL, MCM	1000 CIRCULAR MILS
AF	AMP FRAME	LCP	LIGHTING CONTROL PANEL
AFF	ABOVE FINISHED FLOOR	LL	LANDLORD
AHJ	AUTHORITY HAVING JURISDICTION	LTG	LIGHTING
AIC	AMPERE INTERRUPTING CURRENT	MCB	MAIN CIRCUIT BREAKER
AS	AMP SWITCH	MICRO	MICROWAVE
AT	AMP TRIP	MLO	MAIN LUGS ONLY
AWG	AMERICAN WIRE GAUGE	NEC	NATIONAL ELECTRICAL CODE
BMS	BUILDING MANAGEMENT SYSTEM	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
C	CONDUIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CB	CIRCUIT BREAKER		
CD	CANDELA	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NTRL	NEUTRAL
CLG	CEILING	NL	NIGHT LIGHT
COMM	COMMUNICATIONS	P	POLE
CT	CURRENT TRANSFORMER	PB	PULL BOX
D	DEMOLISH	PH, Ø	PHASE
DC	DIRECT CURRENT	RCPT, RECP	RECEPTACLE
E	EXISTING	RE	RELOCATE(D)
EC	ELECTRICAL CONTRACTOR	REF	REFRIGERATOR
EGC	EQUIPMENT GROUND CONDUCTOR	RGS	RIGID GALVANIZED STEEL
EF	EXHAUST FAN	SEC	SECURITY
EM	EMERGENCY	SPD	SURGE PROTECTIVE DEVICE
EMT	ELECTRICAL METALLIC TUBING	TELCO	TELECOMMUNICATIONS
ETR	EXISTING TO REMAIN	TYP	TYPICAL
FA	FIRE ALARM	UC	UNDER COUNTER
FACP	FIRE ALARM CONTROL PANEL	UL	UNDERWRITERS LABORATORIES
FCO	FUSED CUTOUT	UON	UNLESS OTHERWISE NOTED
GEC	GROUNDING ELECTRODE CONDUCTOR	V	VOLT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	VA	VOLT-AMPERE
GFP	GROUND FAULT PROTECTION	VIF	VERIFY IN FIELD
HP	HORSEPOWER	W	WATT
IG	ISOLATED GROUND	WM	WALL MOUNTED
IT	INFORMATION TECHNOLOGY	WP	WEATHERPROOF (NEMA 3R WHILE IN USE)
IMC	INTERMEDIATE METAL CONDUIT	XFMR	TRANSFORMER

4 E001 CODE COMPLIANCE

THE WORK SHALL BE EXECUTED IN STRICT CONFORMITY WITH SPECIFICATIONS AND WITH THE LATEST EDITION OF THE STATE AND LOCAL BUILDING CODES AND ALL LOCAL REGULATIONS THAT MAY APPLY. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE THE MORE STRINGENT STANDARD SHALL APPLY.

REGULATIONS INCLUDING BUT NOT LIMITED TO:

THE BUILDING SHALL BE CONSTRUCTED TO BE IN COMPLIANCE WITH THE NY STATE ADOPTED 2020 BUILDING CODE OF NEW YORK STATE (IBC 2018 WITH AMENDMENTS).

OTHER APPLICABLE CODES ARE:

- 2020 PLUMBING CODE OF NEW YORK STATE (IPC 2018 WITH AMENDMENTS)
- 2020 FUEL GAS CODE OF NEW YORK STATE (IFGC 2018 WITH AMENDMENTS)
- 2017 NATIONAL ELECTRICAL CODE
- 2020 ENERGY CONSERVATION CODE OF NEW YORK STATE (2018 IECC WITH AMENDMENTS
- 2020 MECHANICAL CODE OF NEW YORK STATE (IMC WITH AMENDMENTS)
- 2020 FIRE CODE OF NEW YORK STATE (IFC 2018 WITH AMENDMENTS)

3 E001 ELECTRICAL SYMBOLS

SWITCHING SYMBOLS:

TYPICAL SWITCH NOTATIONS:

"2"	= DOUBLE POLE SWITCH	"DT"	=	SINGLE POLE/DOUBLE THROW SWITCH
"3"	= THREE WAY SWITCH			
"4"	= FOUR WAY SWITCH	"K"	=	KEY OPERATED SWITCH
"a"	= SWITCH CONTROL (SMALL LETTER)	"L"	=	LOW VOLTAGE SWITCH
		"OR"	=	OVERRIDE SWITCH
"D"	= DIMMER SWITCH WITH ON/OFF TOGGLE	"WP"	=	WEATHERPROOF SWITCH

- $ — SINGLE POLE TOGGLE SWITCH
- $3 — THREE-WAY SWITCH
- $M — MANUAL MOTOR SWITCH (FOR FRACTIONAL HORSEPOWER MOTORS), W/ MELTING ALLOY TYPE THERMAL OVERLOAD PROTECTION. MOUNT AT 48" AFF U.O.N.
- $TS — TIMER SWITCH, ACUITY SENSOR SWITCH #PTS-720
- $D — WALL MOUNTED LINE VOLTAGE DIMMING SWITCH, LEGRAND #RH4FBL3PTC
- $DL — WALL MOUNTED DIGITAL DIMMING SWITCH, PROVIDE CAT5E FROM SWITCH TO POWER PACK. ACUITY nLIGHT #nPODM-DX
- $L — WALL MOUNTED DIGITAL PUSHBUTTON SWITCH, PROVIDE CAT5E FROM SWITCH TO POWER PACK. ACUITY nLIGHT #NPODM
- $OR — WALL MOUNTED, LINE VOLTAGE, 2 HOUR INTERVAL, MANUAL OVERRIDE SWITCH, INTERMATIC #FD2HW
- $OS — WALL MOUNTED, LINE VOLTAGE, PASSIVE INFRARED SENSOR SWITCH WITH MANUAL OVERRIDE. CONFIGURED FOR AUTO-ON / AUTO-OFF (OCCUPANCY). ACUITY SENSOR SWITCH #WSX
- $VS — WALL MOUNTED, LINE VOLTAGE, PASSIVE INFRARED SENSOR SWITCH WITH MANUAL OVERRIDE. CONFIGURED FOR MANUAL-ON / AUTO-OFF (VACANCY). ACUITY SENSOR SWITCH #WSX-SA
- $DVS — WALL MOUNTED, LINE VOLTAGE, PASSIVE INFRARED SENSOR SWITCH WITH 0-10V DIMMING. CONFIGURED FOR MANUAL-ON / AUTO-OFF (VACANCY). ACUITY SENSOR SWITCH #WSX-D-SA
- TC — TIME CLOCK, REFER TO LIGHTING PLAN FOR SPECIFICS
- OS — LINE VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED SENSOR, CONFIGURED FOR AUTO-ON / AUTO-OFF (OCCUPANCY). ACUITY SENSOR SWITCH #CMR-PDT.
- OSA — DIGITAL PASSIVE INFRARED CEILING MOUNTED SENSOR WITH DIMMING CAPABLE POWER PACK, CONFIGURED FOR 50% AUTO-ON / 100% AUTO-OFF (OCCUPANCY). SENSOR: ACUITY nLIGHT #nCM, POWER PACK: ACUITY nLIGHT #nPP16-D-EFP-PA
- VSA — DIGITAL PASSIVE INFRARED CEILING MOUNTED SENSOR WITH DIMMING CAPABLE POWER PACK, CONFIGURED FOR MANUAL-ON / AUTO-OFF (VACANCY). SENSOR: ACUITY nLIGHT #nCM, POWER PACK: ACUITY nLIGHT #nPP16-D-EFP-SA
- PC — ANALOG OUTDOOR MOUNTED PHOTOSENSOR. PROVIDE ALL NECESSARY INPUT CARDS, CABLING AND COMPONENTS. ACUITY #ARPA PC
- DL — CEILING MOUNTED DAYLIGHT SENSOR. ACUITY #NCM ADCX OR EQUAL.

PANELBOARDS AND EQUIPMENT:

- ELECTRICAL PANELBOARD - SURFACE MOUNTED, FLUSH MOUNTED. MOUNT AT 6'-6" AFF TO TOP.
- DISTRIBUTION PANEL
- PLYWOOD BACKBOARD (MDO TYPE)

MOTORS, EQUIPMENT AND CONTROLS:

- (2) — MOTOR, NUMERAL INDICATES HORSEPOWER, "M" INDICATES REFER TO MECHANICAL SCHEDULES AND PLANS, "G" INDICATES GENERATOR
- 30A — DISCONNECT SWITCH, UNFUSED TYPE, SIZE AS INDICATED ON DRAWINGS (30AMP, 3POLE)
- 30AF 20AT — DISCONNECT SWITCH, FUSED TYPE, SIZE AS INDICATED ON DRAWINGS (30AMP,,20AMP,,FUSE, 3POLE)

RECEPTACLES AND OUTLETS:

TYPICAL OUTLET NOTATIONS:

"a"	=	SWITCHED OUTLET, "a" - INDICATES SWITCH CONTROL
"CLG"	=	CEILING MOUNTED
"GFI"	=	GROUND FAULT INTERRUPTER RECEPTACLE
"GFP"	=	GROUND FAULT PROTECTED BY GFCI CIRCUIT BREAKER UON.
"H"	=	HORIZONTALLY MOUNTED
"IG"	=	ISOLATED GROUND
"T"	=	TAMPER RESISTANT SAFETY RECEPTACLE
"USB"	=	RECEPTACLE WITH (2) USB CHARGER PORTS
"WP"	=	WEATHERPROOF RECEPTACLE WITH "NRTL" LISTED COVERPLATE FOR WET LOCATION WITH PLUG INSTALLED, MTD. 48"AFF UON.
"23"	=	INDICATES CIRCUIT NUMBER. PROVIDE 3/4"C, 3#12 UON
"+"	=	MOUNTED ABOVE COUNTER OR HEIGHT INDICATED

- P — POKE-THRU DEVICE WITH (2) 20A DUPLEX RECEPTACLES, (4) COMMUNICATION PORTS AND BRASS COVER, LEGRAND #RC4ATCBS. PROVIDE (1) 1" CONDUIT FOR POWER AND (1) 1" CONDUIT FOR DATA. ROUTE CONDUITS TIGHT TO UNDERSIDE OF CEILING ON FLOOR LEVEL BELOW. PROVIDE DRAG-LINE IN DATA CONDUIT AND CONDUCTORS IN POWER CONDUIT AS SCHEDULED. MAKE FINAL CONNECTIONS TO FURNITURE. CONFIRM FINISH W/ ARCHITECT.
- DUPLEX RECEPTACLE WITH NEMA 5-20R CONFIGURATION, UON.
- DOUBLE DUPLEX (QUAD) RECEPTACLE WITH NEMA 5-20R CONFIGURATION, UON. (2) DUPLEXES IN COMMON BOX
- GFI — GFCI DUPLEX RECEPTACLE WITH NEMA 5-20R CONFIGURATION, UON.
- GFI — GFCI QUAD RECEPTACLE
- GFI WP — GFCI DUPLEX RECEPTACLE WITH WEATHERPROOF COVER.
- — FULL CONTROLLED DUPLEX RECEPTACLE WITH PERMANENT MARKINGS ON BOTH OUTLETS AND NEMA 5-20R CONFIGURATION, UON.
- IG — DUPLEX RECEPTACLE WITH NEMA 5-20R CONFIGURATION. SEPARATE GREEN GROUND CONDUCTOR WITH YELLOW STRIPE TO PANEL ISOLATED GROUND BUS.
- IG — IG QUAD RECEPTACLE
- USB — USB DUPLEX RECEPTACLE
- USB — USB QUAD RECEPTACLE
- LR-XXR — SPECIAL RECEPTACLE - NEMA NOTATIONS:
  'L' = LOCKING DEVICE, BLANK FOR NONLOCKING
  'R' = VOLTAGE:
  '5' - 125V, 1 PH, 3 WIRE
  '6' - 250V, 1 PH, 3 WIRE
  '14' - 125/250V, 1 PH, 4 WIRE
  '15' - 250V, 3 PH, 4 WIRE
  'XX' = AMPS (15, 20, 30, 50 OR 60)
  'R' = RECEPTACLE
  FURNISH AND INSTALL MATCHING CORD AND PLUG, AS NEEDED.
- P — WALL MOUNTED JUNCTION BOX WITH POWER FEEDER FOR CONNECTION TO ELECTRIFIED WORKSTATIONS. CONTRACTOR TO INSTALL FURNITURE WHIPS AND MAKE FINAL TERMINATIONS.
- C — VOICE/DATA OUTLET BOX WITH BLANK COVER PLATE. INSTALL 1" CONDUIT W/ PULL STRING UP TO A POINT ABOVE ACCESSIBLE CEILING.
- DATA OUTLET BOX WITH BLANK COVER PLATE. INSTALL 1" CONDUIT W/ PULL STRING UP TO A POINT ABOVE ACCESSIBLE CEILING.
- WALL MOUNTED JUNCTION BOX WITH (1) 1-1/2" CONDUIT AND PULL STRING RUN UP TO A POINT ABOVE NEAREST ACCESSIBLE CEILING SPACE.
- TELEPHONE OUTLET BOX WITH BLANK COVER PLATE. INSTALL 1" CONDUIT W/ PULL STRING UP TO A POINT ABOVE ACCESSIBLE CEILING.
- HDMI OUTLET BOX WITH BLANK COVER PLATE. INSTALL 1" CONDUIT W/ PULL STRING UP TO A POINT ABOVE ACCESSIBLE CEILING.
- TV — TV OUTLET BOX WITH BLANK COVER PLATE. INSTALL 1" CONDUIT W/ PULL STRING UP TO A POINT ABOVE ACCESSIBLE CEILING.
- CR — WALL MOUNTED CARD READER - PROVIDE OUTLET BOX AND 1" CONDUIT W/ PULL STRING FROM CARD READER LOCATION TO PARABIT PANEL IN IT ROOM.
- # — CEILING MOUNTED JUNCTION BOX, '#' INDICATES CIRCUIT NUMBER OF BOX TO CONTAIN POWER. PROVIDE CONDUIT FROM BACKBOX TO RESPECTIVE PANELBOARD (IF POWERED). CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO DESIGNATED EQUIPMENT. SIZE JUNCTION BOX PER NEC, STANDARD DEEP METALLIC BOX UON.
- # — WALL MOUNTED JUNCTION BOX, '#' INDICATES CIRCUIT NUMBER OF BOX TO CONTAIN POWER. PROVIDE CONDUIT FROM BACKBOX TO RESPECTIVE PANELBOARD (IF POWERED) OR TO POINT ABOVE ACCESSIBLE CEILING. CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO DESIGNATED EQUIPMENT. SIZE JUNCTION BOX PER NEC, STANDARD DEEP 1-GANG METALLIC BOX UON.
- LEGRAND WIREMOLD 4000 SERIES WITH TWO COMPARTMENTS. PROVIDE RECEPTACLES AND PROVISIONS FOR VOICE / DATA OUTLETS. PROVIDE ALL COVERS, PLATES AND FITTINGS FOR A COMPLETE INSTALLATION. REFER TO PLAN FOR DEVICE QUANTITY.
- WAP — CEILING MOUNTED WIRELESS ACCESS POINT - PROVIDE OUTLET BOX AND 1" CONDUIT W/ PULL STRING FROM WAP LOCATION TO PATCH PANEL IN IT ROOM.
- CEILING MOUNTED CAMERA - PROVIDE OUTLET BOX AND 1" CONDUIT W/ PULL STRING FROM CAMERA LOCATION TO SECURITY PANEL IN IT ROOM.
- POWER & COMMUNICATIONS FURNITURE FEED POKE-THRU DEVICE ASSEMBLY FOR WORKSTATIONS. LEGRAND #4FFATC15BS. PROVIDE (1) 1" CONDUIT FOR POWER AND (1) 1" CONDUIT FOR DATA. ROUTE CONDUITS TIGHT TO UNDERSIDE OF CEILING ON FLOOR LEVEL BELOW. PROVIDE DRAG-LINE IN DATA CONDUIT AND CONDUCTORS IN POWER CONDUIT AS SCHEDULED. MAKE FINAL CONNECTIONS TO FURNITURE. CONFIRM FINISH W/ ARCHITECT.

ONE LINE SCHEMATIC DIAGRAM SYMBOLS:

- M — ELECTRICAL METER
- SPD — SURGE PROTECTIVE DEVICE
- SWITCH
- CIRCUIT BREAKER
- ST — SHUNT TRIP
- FUSE
- GROUND, THE EARTH
- CURRENT TRANSFORMER
- DESCRIP. NAME — PANELBOARD

MISCELLANEOUS:

- GROUND BAR - 2"W x 1/8" THICK COPPER BUS, UON.
- METER SOCKET AND METER
- AC 2 — MECHANICAL EQUIPMENT TAG NUMBER, REFER TO MECHANICAL EQUIPMENT SCHEDULE

NOTE: SYMBOL LIST ABOVE IS GENERIC IN NATURE AND REPRESENT THE TOTAL POSSIBLE SYMBOLS PRESENT FOR ELECTRICAL. NOT ALL SYMBOLS MAY BE USED ON THIS PARTICULAR PROJECT.

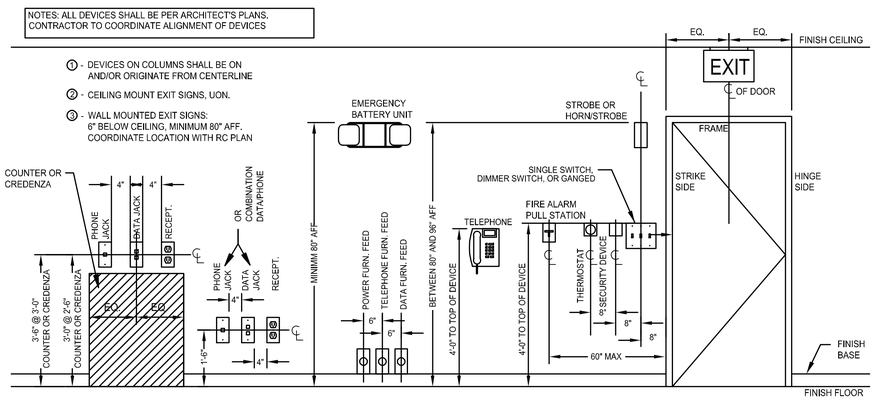
SENSOR NOTES:

1. DESIGN IS BASED ON ACUITY. SUBSTITUTES MUST BE APPROVED PRIOR TO INSTALL.
2. EC IS RESPONSIBLE TO FURNISH AND INSTALL ALL REQUIRED POWER PACKS AND ACCESSORIES FOR LOW VOLTAGE SENSORS TO PROVIDE A FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM AS DESCRIBED ON THESE PLANS.
3. PROVIDE SENSORS WITH CORRECT RANGE FOR ITS APPLICATION AND MAXIMIZE COVERAGE. PROVIDE ADDITIONAL SENSORS AND POWER PACKS AS NEEDED. COORDINATE QUANTITY WITH MANUFACTURER.

5 E001 TYPICAL MOUNTING HEIGHTS AND NOTES

NOTES: ALL DEVICES SHALL BE PER ARCHITECT'S PLANS. CONTRACTOR TO COORDINATE ALIGNMENT OF DEVICES

1. DEVICES ON COLUMNS SHALL BE ON AND/OR ORIGINATE FROM CENTERLINE
2. CEILING MOUNT EXIT SIGNS, UON.
3. WALL MOUNTED EXIT SIGNS: 6" BELOW CEILING, MINIMUM 80" AFF. COORDINATE LOCATION WITH RC PLAN



6 E001 ELECTRICAL DRAWING LIST

DWG. #	DRAWING TITLE
E-001	ELECTRICAL GENERAL INFORMATION
E-002	ELECTRICAL SPECIFICATIONS SHEET
E-100	CELLAR ELECTRICAL PLANS
E-101	FIRST FLOOR ELECTRICAL PLANS
E-200	ELECTRICAL SCHEDULES AND DETAILS

WELLS FARGO

INTERIOR FIT–OUT

MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
0600364910

William R Ryan
N.Y. LIC. #: 017735-1 SEAL
CONSULTANTS

DJM CONSULTING ENGINEERING
attn: Dudzik Drive Suite 300
Wall, NJ 07719
(732)359-2332
www.DJM-CE.com
CERTIFICATE OF AUTHORIZATION #24GA38225400

DAVID J. MANTONE
N.Y. LIC. #: 0092743-1
CONSULTANTS

REVISIONS

NO.	DATE	DESCRIPTION	BY

DATE ISSUED: 8.26.21
ISSUED FOR: BID & PERMIT SET
REVIEWED BY: JV
DRAWN BY: AC

WELLS FARGO BE NUMBER
111700

SHEET TITLE
ELECTRICAL GENERAL INFORMATION

SHEET NUMBER
E-001

SHT. OF

ARCHITECT PROJECT NUMBER
2174

1
E002

ELECTRICAL SPECIFICATIONS SHEET

1. GENERAL:

   A. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIAL WHICH VIOLATES ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.

   B. INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. ASCERTAIN FROM BUILDING OWNER AND TENANT AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.

   C. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL INCLUDE ALL COSTS AND MATERIAL FOR ROUTING OF CONDUIT TO AVOID OBSTRUCTIONS. COORDINATION WITH EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES, IS REQUIRED. MAINTAIN HEADROOM AND SPACE CONDITIONS.

   D. FOR LOCATIONS AND QUANTITIES OF EQUIPMENT REFER TO FLOOR PLANS, DETAILS, SCHEDULES AND DIAGRAMS. WHERE THERE ARE DISCREPANCIES BETWEEN THESE DRAWINGS, THE GREATER OF EACH QUANTITY OR COST OR EQUIPMENT SPECIFICATIONS SHALL BE USED.

   E. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK MAY BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL CAREFULLY REVIEW SITE CONDITIONS AS NECESSARY TO INCLUDE ALL REASONABLE MATERIAL AND LABOR TO EXECUTE WORK.

   F. CONNECTIONS TO EXISTING WORK: INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS OF EXISTING SERVICES SHALL BE PERFORMED AT NO ADDITIONAL CHARGES, AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING FACILITIES, AND ONLY WITH WRITTEN CONSENT OF OWNER. ALARM AND EMERGENCY SYSTEMS SHALL NOT BE INTERRUPTED. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED BETWEEN NEW AND EXISTING WORK. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION, INCLUDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.

   G. DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW WORK.

   H. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR ON THE EXTERIOR.

   I. SEAL OPENINGS THROUGH PARTITIONS, WALLS AND FLOORS WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERIAL. ALL PENETRATIONS THROUGH NEW AND EXISTING RATED FIRE AND SMOKE PARTITIONS AND/OR FLOORS SHALL BE COMPLETELY SEALED USING MATERIALS AND METHODS DESCRIBED IN SUBSEQUENT "FIRE STOPPING" SPECIFICATIONS SECTIONS.

   J. ALL EXISTING MATERIALS, EQUIPMENT AND CONSTRUCTION DEBRIS TO BE REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIFIC EQUIPMENT AND APPARATUS REQUESTED BY THE BUILDING REPRESENTATIVE, ARCHITECT OR AS NOTED TO BE RELOCATED ON THE DRAWINGS. REMOVED EQUIPMENT SHALL BE PROPERLY DISPOSED OF BY THIS CONTRACTOR.

   K. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS, EXCEPT WHERE NOTED OTHERWISE. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK DURING OVERTIME HOURS AND THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.

   L. UNLESS OTHERWISE SPECIFICALLY NOTED OR SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.

   M. ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS. REFURBISHED OR RECONDITIONED ELECTRICAL EQUIPMENT SHALL NOT BE UTILIZED AND WILL NOT BE ACCEPTED.

   N. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE BUILDING, EQUIPMENT, ETC., WHICH AFFECT OR ARE AFFECTED BY THIS WORK, AND THE ACCESS TO SUCH SPACES HAVE BEEN MADE, AND THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO INDICATE ANY DISCREPANCIES BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS PRIOR TO SUBMITTAL OF BID. LATER CLAIMS SHALL NOT BE MADE FOR LABOR; EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING FEEDERS AND EQUIPMENT (SIZES, CLEARANCES, ETC.), CONDITIONS RELATIVE TO THE PROJECT AND INSTALLERS MEANS AND METHODS.

   O. INSURANCE SHALL BE IN ACCORDANCE WITH BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.

   P. ALL WORK SHALL BE DONE WHEN AND AS DIRECTED BY THE CLIENT OR THE CLIENT'S APPOINTED REPRESENTATIVE AND IN A MANNER SATISFACTORY TO THE BUILDING OWNER. WORK SHALL BE PERFORMED SO AS TO CAUSE LIMITED TO NO INCONVENIENCE OR DISTURBANCE TO OTHER BUILDING OCCUPANTS AND ADJACENT SPACES NOT INCLUDED AS PART OF THE SCOPE OF WORK.

2. SCOPE OF WORK:

   A. SCOPE OF WORK SHALL CONSIST OF PROVIDING LABOR, MATERIALS, EQUIPMENT, SERVICES AND FEES NECESSARY FOR COMPLETE AND SAFE INSTALLATION IN CONFORMITY WITH THE NATIONAL ELECTRICAL CODE , APPLICABLE BUILDING CODE, BUILDING STANDARDS AND ALL APPLICABLE INDUSTRY, NATIONAL, AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION, AS INDICATED ON DRAWINGS, HEREIN SPECIFIED, AS APPLICABLE AND REQUIRED..

   B. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED, FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OR ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES BY OWNER, INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.

3. SHOP DRAWINGS

   A. PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT, CONTRACTOR SHALL PROVIDE COMPLETE SETS OF COORDINATED SHOP DRAWINGS OF EQUIPMENT, INDICATING CAPACITY, WIRING, DIMENSIONS AND SEQUENCE OF OPERATION FOR WRITTEN APPROVAL BY THE ARCHITECT AND ENGINEER.

   B. SUBMISSIONS:

      1) ALL SUBMITTALS SHALL BE IN ELECTRONIC FORMAT. ALL CATALOG CUTS SHALL BE COMPLETE WITH ALL OPTIONS, DETAILS, MODEL NUMBERS AND PARTS CLEARLY IDENTIFIED. GENERIC SHOP DRAWINGS WILL NOT BE ACCEPTED.

   C. SUBMIT SHOP DRAWINGS AND WIRING DIAGRAMS FOR THE FOLLOWING:

      1) LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES
      2) GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
      3) HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS
      4) RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS
      5) SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING
      6) IDENTIFICATION FOR ELECTRICAL SYSTEMS
      7) PANELBOARDS
      8) WIRING DEVICES
      9) FUSES
      10) ENCLOSED SWITCHES AND CIRCUIT BREAKERS
      11) INTERIOR LIGHTING FIXTURES AND CONTROLS

4. AS-BUILT DRAWINGS AND EQUIPMENT OPERATIONAL INSTRUCTIONS

   A. UPON COMPLETION AND ACCEPTANCE OF WORK, CONTRACTOR SHALL FURNISH WRITTEN INSTRUCTIONS AND EQUIPMENT MANUALS AND DEMONSTRATE TO THE OWNER THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND APPARATUS FURNISHED UNDER THIS CONTRACT.

   B. THE INSTRUCTION BOOKLET SHALL BEAR THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE PROJECT, ARCHITECT AND ENGINEER AND BE SUBMITTED IN ELECTRONIC FORMAT.

   C. AS-BUILT DRAWINGS SHALL BE PROVIDED IN ELECTRONIC FORMAT (LATEST VERSION OF AUTOCAD OR BIM AS APPLICABLE) INDICATING THE INSTALLED CONDITIONS OF THE WORK. "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO THE OWNER AFTER COMPLETION OF THE INSTALLATION.

   D. GENERAL

      1) THE DRAWINGS SHOW THE APPROXIMATE LOCATION OF ALL APPARATUS, THE EXACT LOCATIONS OF WHICH ARE SUBJECT TO THE APPROVAL OF THE OWNER WHO RESERVES THE RIGHT TO MAKE ANY REASONABLE CHANGES IN THE LOCATION WITHOUT EXTRA COST.

      2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP AND REMOVAL FROM THE SITE OF RESULTING DEBRIS.

      3) LOCATIONS INDICATED FOR LOCAL SWITCHES & OTHER LIGHTING CONTROLS ARE SUBJECT TO RELOCATION. AT OR NEAR DOORS, INSTALL AT INSIDE ON OPPOSITE SIDE OF HINGE. VERIFY FINAL DOOR HINGE LOCATION IN FIELD WITH ARCHITECT PRIOR TO WIRING DEVICE INSTALLATION.

      4) HEIGHTS OF OUTLETS FROM FINISHED FLOOR TO CENTERLINE OF OUTLETS SHALL CONFORM TO ADA REQUIREMENTS AND ARCHITECTURAL DRAWINGS.

      5) ERECT WALL RECEPTACLE AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. OUTLET BOXES SHALL BE SET SQUARE AND TRUE WITH BUILDING FINISH. SECURE TO WALL CONSTRUCTION BY ADJUSTABLE STRAP IRONS (GROUT IN MASONRY). VERIFY OUTLET LOCATIONS IN FINISHED SPACES WITH ARCHITECTURAL DRAWINGS OF DETAILS AND FINISHES.

   E. TEMPORARY LIGHT AND POWER: PROVIDE TEMPORARY LIGHT AND POWER SYSTEMS AT EARLIEST POSSIBLE DATE WITHIN THE CONSTRUCTION AREAS FOR THE REQUIREMENTS OF ALL TRADES AS SPECIFIED BY GENERAL CONTRACTOR OR CONSTRUCTION MANAGER. MAINTAIN SYSTEM DURING WORKING HOURS OF ALL TRADES. PROVIDE ALL REQUIRED MAINTENANCE, INCLUDING LAMPS AND SOCKETS. SYSTEM REMOVAL OR CONNECTION TO PERMANENT DISTRIBUTION SHALL BE INCLUDED AS REQUIRED.

   F. FINAL LOCATIONS AND MOUNTING ORIENTATIONS OF ALL SWITCHES, RECEPTACLES AND LIGHT FIXTURES SHALL BE VERIFIED WITH ARCHITECT.

   G. PROVIDE ACCESS DOORS WHEN CONCEALED ELECTRICAL EQUIPMENT REQUIRES ACCESS. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.

5. DEMOLITION

   A. "SELECTIVE DEMOLITION" IS HEREBY DEFINED TO INCLUDE BUT IS NOT NECESSARILY LIMITED TO THE REMOVAL OF THE FOLLOWING EXISTING MATERIALS, ITEMS AND EQUIPMENT.

      1) REFER TO ARCHITECTURAL/ELECTRICAL DEMOLITION PLANS AND RELATED NOTES FOR EXTENT OF DEMOLITION.

      2) REFER TO DRAWINGS AND SITE CONDITIONS FOR ALL REMOVAL OF WORK NECESSARY FOR COMPLETION OF NEW WORK AS SHOWN. EACH BIDDER SHALL CAREFULLY EXAMINE THE PREMISES AND DOCUMENTS DURING THE BIDDING PERIOD AND ASCERTAIN THE EXTENT OF REMOVAL OF EXISTING WORK. IF ADDITIONAL WORK IS NOTED BY THE CONTRACTOR, CALL IT TO THE ATTENTION OF THE ARCHITECT PRIOR TO SUBMITTING BIDS. BY SUBMITTING A BID, THE CONTRACTOR WILL HAVE DEEMED TO HAVE MADE SUCH EXAMINATION, TO ACCEPT SUCH CONDITIONS, AND TO HAVE MADE ALLOWANCES IN PREPARING HIS BID.

      3) ALL DEMOLISHED AND/OR REMOVED MATERIALS NOT REQUIRED BY OWNER SHALL BECOME THE PROPERTY O THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES, AND SHALL BE PROPERLY DISPOSED OF IN A LEGAL MANNER, OFF-SITE.

      4) CARE MUST BE TAKEN NOT TO DISTURB EXISTING WIRING, WHICH IS NOT EFFECTED BY DEMOLITION. RESTORE ALL CIRCUITS AND EQUIPMENT DISRUPTED OR DISTURBED BY THE REMOVAL OF ONLY PARTS OF THE EXISTING SYSTEM. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED WITH NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. ALARM AND EMERGENCY SYSTEMS SHALL NOT BE INTERRUPTED.

      5) ALL REQUIRED WORK TO TIE-IN TO THE EXISTING EQUIPMENT SHALL BE ACCOMPLISHED AFTER HOURS, THE EXACT DAY AND TIME SHALL BE DIRECTED BY OWNER, AND AT NO ADDITIONAL CHARGE.

6. CUTTING AND PATCHING

   A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF THE EXISTING AND NEW CONSTRUCTION WORK, WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP, AND FINISH, AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.

   B. THE CONTRACTOR SHALL NOT CUT ANY STRUCTURAL MEMBER OR DEMOLISH A LOAD-BEARING WALL WITHOUT WRITTEN PERMISSION FROM A STRUCTURAL ENGINEER.

7. COORDINATION

   A. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EQUIPMENT WITH ARCHITECTURAL DRAWINGS. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS, AND MECHANICAL EQUIPMENT, VARIATIONS IN FIRE PROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS, AND THE LIKE, AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSES TO THE OWNER

8. CONDUCTORS AND CABLES:

   A. CONDUCTORS SHALL BE COPPER, ASTM STANDARD SOLID (#10 AWG AND SMALLER) OR STRANDED (#8 AWG AND LARGER), GENERAL USE CABLING SHALL BE #12 AWG MINIMUM. AT 120 VOLTS AND OVER 100 FT CIRCUIT LENGTH, PROVIDE #10 AWG MINIMUM.

   B. ALUMINUM CONDUCTORS SHALL NOT BE PERMITTED UNLESS APPROVED BY THE OWNER AND ENGINEER. WHERE ALUMINUM CABLES ARE USED IN LIEU OF COPPER, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR PROVIDING CONDUCTORS WITH COPPER EQUIVALENT AMPACITIES AND UPSIZING RACEWAYS TO MEET CODE.

   C. CONTROL AND ALARM CABLING, EXCEPT AS NOTED, SHALL BE #14 AWG MINIMUM. AT 120 VOLTS AND OVER 200 FT CIRCUIT LENGTH, PROVIDE #12 AWG MINIMUM.

   D. INSULATION SHALL BE RUBBER AND THERMOPLASTIC, 90°C MEETING ASTM, ICEA AND NEMA STANDARDS. TYPE THHN/THWN SHALL BE UTILIZED FOR BRANCH CIRCUITS EXCEPT AS NOTED.

   E. METAL-CLAD CABLE (TYPE MC) WITH GROUND WIRES MAY BE UTILIZED WHEN PERMITTED BY BUILDING RULES AND REGULATIONS FOR BRANCH CIRCUITS IN DRY HOLLOW LOCATIONS, HUNG CEILINGS, AND BLOCK WALLS. WHEN USED IN LIEU OF WIRING IN CONDUIT, STATE IN PROPOSAL THAT PRICE IS BASED UPON THE USE OF MC CABLE. MC CABLE SHALL INCLUDE COPPER CONDUCTORS AND STEEL OR LIGHTWEIGHT STEEL JACKET.

   F. COLOR CODING SHALL BE AS FOLLOWS:

      1) 120/208 VOLT SYSTEM:
         BLACK FOR A PHASE
         RED FOR B PHASE
         BLUE FOR C PHASE
         WHITE FOR NEUTRAL

      2) NEUTRAL WIRE COVERING SHALL UTILIZE REQUIRED COLOR THROUGHOUT. EQUIPMENT GROUND WIRE SHALL UTILIZE GREEN OUTER COVERING THROUGHOUT.

   H. TERMINATIONS, SPLICES AND TAPS UNDER 600 VOLTS: COPPER CONDUCTORS NO. 10 AND SMALLER SHALL UTILIZE COMPRESSION-TYPE OF TWIST-ON SPRING-LOADED CONNECTORS AND CLEAR NYLON-INSULATED COVERING.

   I. NOT MORE THAN 3 LIGHTING OR CONVENIENCE OUTLET CIRCUITS SHALL BE INSTALLED IN ONE CONDUIT UNLESS OTHERWISE INDICATED.

   J. PROVIDE ALL CONTROL WIRING FOR MOTORS AND EQUIPMENT FURNISHED UNDER ALL CONTRACTS AND AS SPECIFICALLY SHOWN ON THE DRAWINGS. INCLUDE MOUNTING AND WIRING OF ALL CONTROL DEVICES FURNISHED WITH EQUIPMENT.

9. GROUNDING AND BONDING

   K. COMPLY WITH UL 467 FOR GROUNDING AND BONDING MATERIALS AND EQUIPMENT.

   L. INSULATED CONDUCTORS: COPPER WIRE OR CABLE INSULATED FOR 600V

   M. CONNECTORS

      1) BOLTED CONNECTORS FOR CONDUCTORS AND PIPES: COPPER OR COPPER ALLOY, BOLTED PRESSURE-TYPE, WITH AT LEAST TWO BOLTS. CLAMP TYPE, SIZED FOR PIPE

      2) WELDED CONNECTORS: EXOTHERMIC-WELDING KITS OF TYPES RECOMMENDED BY KIT MANUFACTURER FOR MATERIALS BEING JOINED AND INSTALLATION CONDITIONS.

   D. A SEPARATE EQUIPMENT GROUNDING CONDUCTOR COMMONLY DESCRIBED AS A "GREEN WIRE" SHALL BE PROVIDED FOR ALL FEEDERS AND BRANCH CIRCUITS PROTECTED BY OVERCURRENT DEVICES.

   E. GROUNDING ELECTRODES: ROD AND PIPE ELECTRODES SHALL NOT BE LESS THAN 10 FT IN LENGTH, 5/8" IN DIAMETER AND SHALL CONSIST OF STAINLESS STEEL, COPPER-CLAD STEEL OR ZINC COATED STEEL. BURIED MINIMUM 8 FT INTO THE GROUND.

10. RACEWAYS AND BOXES

   A. PROVIDE RACEWAYS COMPLETE WITH BOXES, FITTINGS AND ACCESSORIES. CONDUIT OR TUBING SIZES REFERRED TO IN SPECIFICATIONS AND ON DRAWINGS ARE NOMINAL DIAMETERS. MINIMUM DIAMETER SHALL BE 3/4 IN. RACEWAYS SHALL RUN CONCEALED, EXCEPT AS NOTED.

   B. MATERIALS

      1) PROVIDE RACEWAY SUPPORT UTILIZING CEILING TRAPEZE, STRAPHANGERS, OR WALL BRACKETS.

      2) MAINTAIN GROUNDING CONTINUITY OF INTERRUPTED METALLIC RACEWAYS WITH GROUND CONDUCTOR, AND IN FLEXIBLE CONDUIT FOR FEEDERS AND MOTOR TERMINAL CONNECTIONS.

      3) EMPTY RACEWAYS OVER 10 FT LONG: PROVIDE FISH OR PULL WIRE, GALVANIZED OR NYLON ROPE.

      4) INDOORS - EMT: HOT DIPPED GALVANIZED, MILD STEEL TUBE, ZINC COATED, AS MANUFACTURED BY TRIANGLE, REPUBLIC, WHEATLAND OR EQUAL.

      5) OUTDOORS - IMC: HOT DIPPED GALVANIZED, MILD STEEL PIPE, ZINC COATED THREADS WITH AN OUTER COATING OF ZINC BICHROMATE AS MANUFACTURED BY TRIANGLE, REPUBLIC, WHEATLAND OR EQUAL.

      6) UNDERGROUND - POLYVINYL CHLORIDE (PVC): RIGID NONMETALLIC CONDUIT, TYPE EPC-40-PVC OR EPC-80-PVC AS MANUFACTURED BY ALLIED, CANTEX, CARLON OR EQUAL.

      7) FLEXIBLE STEEL CONDUIT SHALL BE UTILIZED FOR SHORT CONNECTIONS WHERE RIGID CONDUIT IS IMPRACTICAL, FROM OUTLET BOX TO RECESSED LIGHTING FIXTURE. PROVIDE MINIMUM 4 FT AND MAXIMUM 6 FT LENGTHS.

   C. FIRE SEALANTS: PROVIDE FOR RACEWAYS AND WIRE PASSING THROUGH FLOOR SLOTS, SLEEVES OR OPENINGS IN FIRE PARTITIONS.

   D. ALL CONDUITS SHALL BE RUN CONCEALED IN SO FAR AS IS PRACTICABLE. CONDUITS SHALL BE EXPOSED ONLY WHERE SO INDICATED ON THE DRAWINGS OR IN UNFINISHED AREAS, SUCH AS ELECTRICAL AND MECHANICAL ROOMS.

   E. BOXES: SIZED PER NEC ARTICLE 314, SHEET METAL COMPLYING WITH NEMA OS-1 AND UL 514A. PROVIDE PUTTY PADS TO MAINTAIN PARTITION FIRE RATING.

11. FIRE STOPPING

   A. PROVIDE ALL REQUIRED FIRE-STOPPING. WORK INCLUDES FIRE STOPPING PENETRATIONS OF FIRE-RESISTANCE RATED FLOORS, WALLS AND PARTITIONS IN NEW CONSTRUCTION, AS WELL AS PRE-EXISTING PENETRATIONS IN RENOVATION AREAS OF EXISTING CONSTRUCTION.

   B. FIRE RESISTANT JOINT SEALERS: PROVIDE MANUFACTURER'S STANDARD FIRE-STOPPING SEALANT WITH ACCESSORY MATERIALS, HAVING FIRE RESISTANCE RATINGS INDICATED AS ESTABLISHED BY TESTING IDENTICAL ASSEMBLIES PER ASTM E814 BY UNDERWRITERS LABORATORY, INC. OR OTHER TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

12. HANGERS AND SUPPORTS

   A. PROVIDE ALL METALLIC HANGERS AND SUPPORTS. COMPLETE WITH ACCESSORIES AND COMPONENTS, NECESSARY FOR THE EXECUTION OF THE WORK. ALL EQUIPMENT SHALL BE FULLY SUPPORTED AND FASTENED IN PLACE TO REDUCE DISPLACEMENT CAUSED BY VIBRATIONS, SEISMIC FORCES OR MODERATE ACCIDENTAL CONTACT. COMPLY WITH ASTM, NECA, NFPA AND COMMON INDUSTRY STANDARDS.

13. IDENTIFICATION FOR ELECTRICAL EQUIPMENT

   A. EQUIPMENT IDENTIFICATION LABELS: SELF-ADHESIVE, ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL. ADHESIVE BACKED WITH WHITE LETTERS ON A DARK-GRAY BACKGROUND. MINIMUM LETTER HEIGHT SHALL BE 3/8".

   B. WARNING LABELS AND SIGNS: COMPLY WITH NFPA 72 AND OSHA (29 CFR 1910.145). FACTORY PRINTED, MULTICOLOR, PRESSURE-SENSITIVE ADHESIVE LABELS, CONFIGURED FOR DISPLAY ON FRONT COVER, DOOR, OR OTHER ACCESS TO EQUIPMENT.

14. LOW-VOLTAGE DISTRIBUTION EQUIPMENT

   A. PROVIDE COMPLETE EQUIPMENT INCLUDING: SWITCHES, FUSES, CIRCUIT BREAKERS, PANELS AND TRANSFORMERS, ETC.

   B. ALL EQUIPMENT SHALL BE NEW AND CONFORM TO NEMA, ANSI AND IEEE STANDARDS AS WELL AS JURISDICTIONAL CODE REQUIREMENTS. EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) FOR USE INTENDED. "RECOGNIZED" PRODUCTS SHALL NOT BE UTILIZED. IN ADDITION, REMANUFACTURED, RECONDITIONED OR USED PRODUCTS SHALL NOT BE UTILIZED.

16. PANELBOARDS

   O. SWITCHING UNITS SHALL BE 3 PHASES, 4-WIRE BOLT-ON CIRCUIT BREAKER TYPE. BUS BARS SHALL BE HARD DRAWN COPPER, MINIMUM 98 PERCENT CONDUCTIVITY. FOR BLANK (SPACE) COMPARTMENTS, PROVIDE FULL RATED BUS. MINIMUM GUTTER SPACES SHALL BE 5-3/4 IN. SIDES, TOP AND BOTTOM, INCREASE FOR THROUGH FEEDERS. PROVIDE 25% COPPER GROUND BUS AND 100% COPPER NEUTRAL BUS AND INCREASE NEUTRAL BUS AS INDICATED. DIRECTORY HOLDER SHALL BE METAL FRAME WITH CLEAR PLASTIC, TRANSPARENT COVER. A TYPEWRITTEN LIST INDICATING FEEDER CABLE AND CONDUIT SIZE, CIRCUIT NUMBERS, OUTLETS SUPPLIED AND THEIR LOCATIONS SHALL BE PROVIDED.

      1) PROVIDE MULTI-SECTION PANELS AS REQUIRED TO PROVIDE THE APPROPRIATE NUMBER OF POLES. WHERE THE PANEL SCHEDULE INDICATES A MAIN DEVICE FOR THE PANEL AND CONTRACTOR ELECTS TO PROVIDE MULTIPLE SECTIONS, PROVIDE SEPARATE MAIN DEVICES FOR EACH SECTION. SPLIT THE LOADING AND BRANCH BREAKERS BETWEEN EACH SECTION.

      2) PROVIDE COMMON TRIP HANDLES FOR MULTI-WIRE BRANCH CIRCUITS PER NEC SECTION 210.4.

      3) ENCLOSURES SHALL BE SURFACE OR FLUSH AS INDICATED. TRIMS SHALL BE SECURED TO PANEL WITH MACHINE SCREWS. COVERS SHALL BE HINGED DOOR-IN-DOOR CONSTRUCTION WITH CYLINDER LOCKS AND CATCHES. LOCKS MUST BE COMPATIBLE WITH BUILDING STANDARD KEY SYSTEM AND WHEN NONE EXISTS, THEY SHALL BE SIMILAR TO A YALE NO. 911 KEY.

   B. CONTACTORS FOR BRANCH CIRCUIT CONTROL IF SPECIFIED SHALL BE SIMILAR TO ASCO MODEL NO. 918 WITH TWO WIRE CONTROL OPTION AND ADDITIONAL REQUIRED ACCESSORIES, MOUNTED IN A NEMA 1 ENCLOSURE. CONTACTORS FOR PANELBOARDS SHALL BE SIMILAR TO ASCO MODEL NO. 920, MATCHING BUS AMPACITY WITH REQUIRED ACCESSORIES AND MOUNTED IN A NEMA 1 ENCLOSURE OR INTERNAL TO PANEL AS REQUIRED.

   C. BALANCE THE LOAD OVER PHASES TO WITHIN +10% WHEN NEW CIRCUITS ARE ADDED TO NEW OR EXISTING PANELS. LOADING SHALL BE BALANCED WITH ALL LAMPS OPERATING EQUIPMENT IN OPERATION AFTER THE SPACE IS OCCUPIED.

   D. PROVIDE MULTI-CABLE LUGS WHERE REQUIRED. DOUBLE LUGGING SHALL NOT BE PERMITTED.

   E. MOUNTING HEIGHT SHALL BE A MAXIMUM OF 6 FT-6 IN. FROM FLOOR TO TOP SWITCH UNIT.

   F. UPDATE DIRECTORIES ON EXISTING PANELBOARDS WHERE CIRCUITING IS CHANGED.

   G. TESTS: OPEN AND CLOSE LOAD BREAK SWITCHING DEVICES UNDER LOAD.

17. WIRING DEVICES

   F. PROVIDE COMPLETE MATERIAL AND ACCESSORIES AS NOTED BY LEVITON, HUBBELL, OR EQUAL. ALL DEVICE TYPES, FINISH AND COLOR ARE SUBJECT TO APPROVAL BY ARCHITECT.

   G. LOCAL WALL SWITCHES SHALL BE SPECIFICATION GRADE, TOGGLE, QUIET TYPE, RATED 20 AMP, 120/277 VOLT, AC. ALL SWITCHES SHALL BE GANGED WITH MULTI DEVICE PLATES, IN AREAS WHERE DIMMERS ARE SPECIFIED WITH WALL SWITCHES; ALL SWITCHES SHALL MATCH DIMMER SERIES AND SHALL BE GANGED TOGETHER.

      SIMILAR TO:

      1) IN FINISHED AREAS ARCHITECTURAL TYPE ROCKER SWITCH: LEVITON DECORA PLUS #5621-2 (SINGLE POLE), 5622-2 (DOUBLE POLE), 5623-2 (THREE WAY), 5624-2 (FOUR WAY).

      2) ALL OTHER AREAS HEAVY-DUTY INDUSTRIAL TYPE TOGGLE SWITCH: LEVITON 1221-2 (SINGLE POLE), 1222-2 (DOUBLE POLE), 1223-2 (3 WAY), 1224-2 (4 WAY).

      3) DIMMER SWITCHES: AS NOTED ON PLANS. DIMMERS MUST BE COMPATIBLE WITH LIGHT FIXTURE.

   C. INSERTION RECEPTACLES SHALL BE COMMERCIAL/INDUSTRIAL GRADE, DUPLEX, 125 VOLT, 2 POLE, 3 WIRE, 20 AMP WITH U GROUND SLOT GROUNDED, EXCEPT AS NOTED. FURNISH DEVICES BY LEVITON OR EQUAL BY HUBBELL, ARROW HART OR PASS & SEYMOUR LEGRAND OR GE. FACE COLOR SHALL BE SELECTED BY OWNER OR ARCHITECT.

      SIMILAR TO:

      1) IN FINISHED AREA:S ARCHITECTURAL TYPE DECORATOR SERIES RECEPTACLES, COMMERCIAL SPECIFICATION GRADE: LEVITON DECORA PLUS #16351-W (SIMPLEX), 16352-W (DUPLEX).

      2) IN BACK-OF-HOUSE AREAS: COMMERCIAL SPECIFICATION GRADE LEVITON #CR20-W.

      3) ISOLATED GROUND DUPLEX RECEPTACLE, HEAVY-DUTY INDUSTRIAL SPECIFICATION GRADE: LEVITON #5362-IGW.

      4) DUPLEX RECEPTACLE AND USB COMBINATION OUTLET: LEVITON #R02-T5832-0BW

      5) DUPLEX CONTROLLED RECEPTACLE: LEVITON 16352-1PW (SINGLE OUTLET CONTROL), 16352-2PW (DOUBLE OUTLET CONTROL).

      6) GROUND FAULT INTERRUPTER WITH SELF-TESTING AND AUDIBLE TRIP ALERT: LEVITON GFNT2-W.

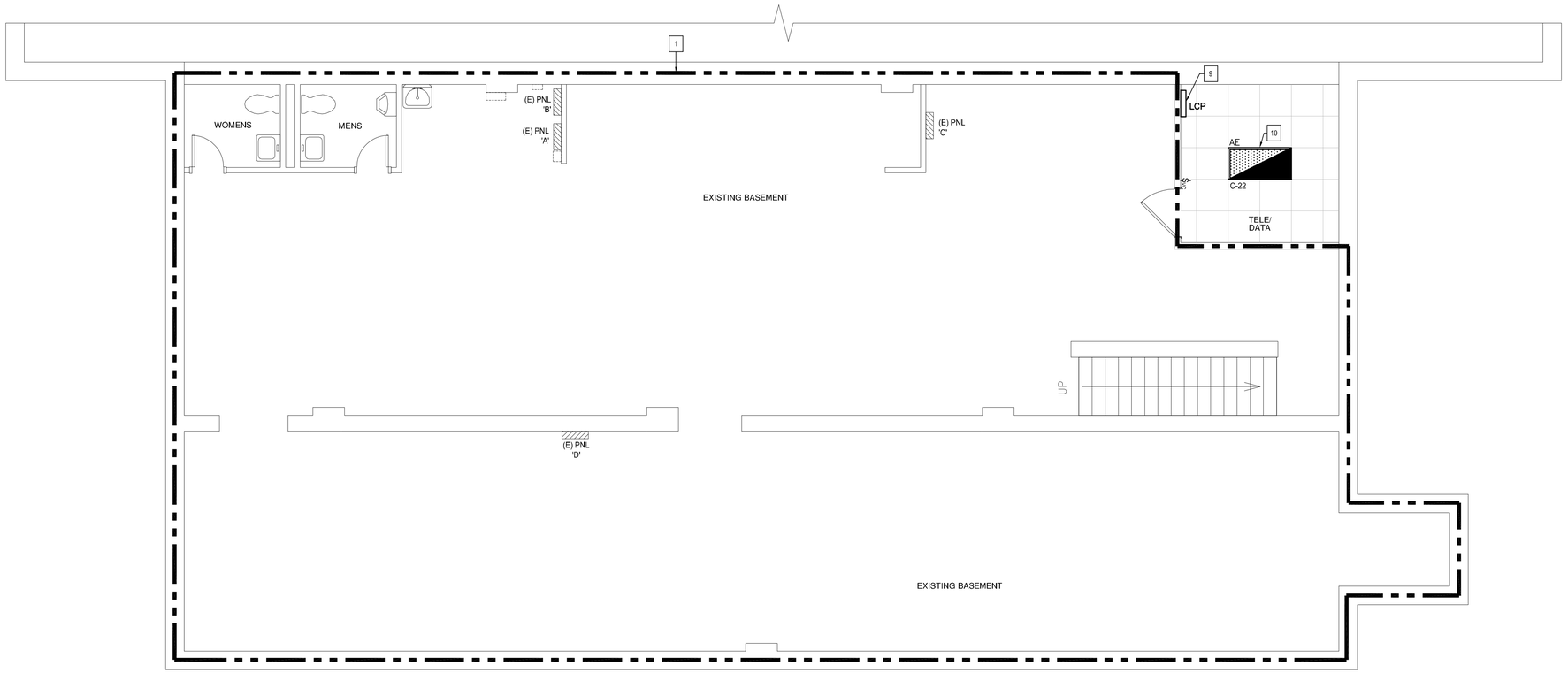
         a) GROUND FAULT INTERRUPTER RECEPTACLES IN WET LOCATIONS SHALL BE WEATHER RESISTANT WITH METALLIC WHILE-IN-USE COVER.

   D. DEVICE PLATES: COORDINATE WITH ARCHITECT FOR TYPE.

   E. MOMENTARY CONTACT SWITCHES. FOR REMOTE CONTROL SWITCH

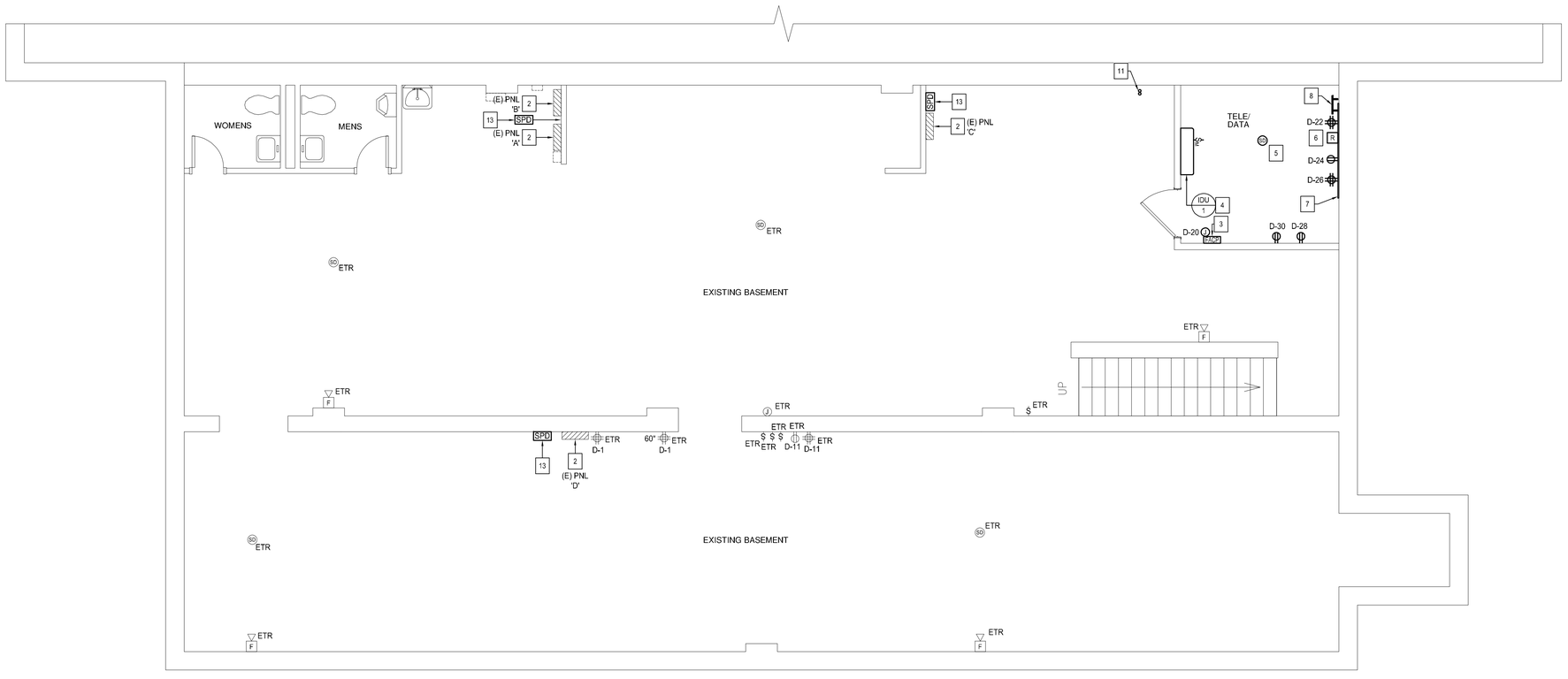
1 E100 CELLAR LIGHTING PLAN

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



2 E100 CELLAR POWER AND FIRE ALARM PLAN

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



3 E100 SHEET GENERAL NOTES

1. EC SHALL COORDINATE WITH ARCHITECTURAL AND DECOR DRAWINGS FOR FINAL REFLECTED CEILING PLANS, EXACT LIGHT FIXTURE LOCATIONS AND MOUNTING INFORMATION.
2. EC SHALL PROVIDE A UNIT PRICE TO FURNISH AND INSTALL ADDITIONAL EXIT SIGNS AND EMERGENCY BATTERY PACKS AS MAY BE REQUIRED PER THE LOCAL AHJ. UNIT PRICE SHALL INCLUDE PER FOOT COST FOR REQUIRED CONDUCTORS AND CONDUIT.
3. EXIT AND EMERGENCY LIGHTS SHALL BE UNSWITCHED AND OPERATE 24/7. CONNECT TO LIGHTING CIRCUIT SERVING THE AREA AHEAD OF ANY CONTROLS OR DEDICATED EXIIT/EMERGENCY LIGHTING CIRCUIT. PROVIDE 2#12 &1#12 EG IN 3/4"C AS NEEDED.
4. PRIOR TO COMPLETION OF WORK, EC SHALL VERIFY ALL EXIT ACCESS AND EGRESS PATHS IN RENOVATED AREAS MAINTAIN A MINIMUM ILLUMINATION OF 1 FOOT-CANDLE WHEN ONLY EMERGENCY LIGHTING IS OPERATING. ADJUST AS NECESSARY TO MEET CODE.
5. ALL LIGHTING FIXTURES SHALL BE SUPPORTED PER CODE, DO NOT SUPPORT FIXTURES OR BOXES WITH CONDUIT. PROVIDE GALVANIZED STEEL WIRES FROM LIGHTING FIXTURE AND SECURE TO STRUCTURE.
6. ALL LIGHTING FIXTURES SHALL BE DUSTED AND CLEANED AFTER CONSTRUCTION IS COMPLETED. DEFECTIVE LAMPS IN EXISTING LIGHTING SHALL BE REPLACED IN KIND WITH NEW.
7. ALL LIGHTING FIXTURES TAGGED 'LCP-#' SHALL BE WIRED THROUGH RELAY PANEL AND BE CAPABLE OF MANUAL OVERRIDE FROM REMOTE MOUNTED SWITCH. REFER TO KEY NOTES FOR ADDITIONAL INFORMATION.
8. AUTOMATIC LIGHTING SHUTOFF FOR OCCUPANCY/VACANCY SENSORS SHALL NOT EXCEED 15 MINUTES AFTER ALL OCCUPANTS LEAVE THE SPACE.
9. WHERE MULTIPLE OCCUPANCY/VACANCY SENSORS SERVE A GIVEN SPACE, WIRE SENSORS ON SAME CIRCUIT TO OPERATE IN PARALLEL.
10. NOTE, ALL LIGHTING THAT IS NOT DESIGNATED AS SECURITY (ON 24/7) SHALL BE AUTOMATICALLY CONTROLLED BY EITHER SENSORS OR RELAYS, UON.
11. PROVIDE A JUNCTION BOX BETWEEN EVERY INTERVAL OF CONDUIT RUNS WITH (3) RIGHT ANGLE TURNS (270°) OR EQUIVALENT. VERIFY EXACT ROUTINGS OF ALL CONDUITS IN THE FIELD.
12. DIMMING CONTROL WIRING NOT SHOWN FOR CLARITY, EC SHALL PROVIDE MINIMUM 2#18 COPPER CLASS 2 WIRING WITH VIOLET AND GRAY INSULATION FROM EVERY DIMMER SWITCH TO EVERY 0-10V DIMMING CAPABLE LIGHT FIXTURE IN EACH RESPECTIVE SPACE. DO NOT RUN DIMMING CONTROL WIRING IN SAME CONDUIT AS POWER CONDUCTORS, UNLESS SPECIFICALLY LISTED BY THE MANUFACTURER. UTILIZE MC-PCS DUO POWER & CONTROL / SIGNAL CABLE BY SOUTHWIRE OR EQUAL. PROVIDE SEPARATE 1/2" CONDUIT FOR DIMMING WIRE AS NEEDED.
13. SEAL ALL PENETRATIONS TO MATCH OR EXCEED EXISTING FIRE RATING. PROVIDE WEATHER-TIGHT SEALS FOR EXTERIORS PENETRATIONS.
14. CONCEAL ALL RACEWAYS AND BOXES IN FINISHED SPACES BEHIND WALLS, ABOVE CEILINGS, ETC. TO THE MAXIMUM EXTENT POSSIBLE. WHERE EXPOSED RACEWAYS AND BOXES ARE UNAVOIDABLE, PAINT EQUIPMENT TO MATCH ADJACENT FINISH.
15. EC IS RESPONSIBLE TO SUPPLY A COMPLETE EMPTY CONDUIT SYSTEM FOR LOW VOLTAGE PHONE/COMMUNICATION LINES. COORDINATE TELE/DATA OUTLET LOCATIONS AND REQUIREMENTS WITH TENANT'S IT VENDOR.
16. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL DEVICES AND EQUIPMENT IN THE FIELD. AVOID CONFLICTS WITH EXISTING CONDITIONS AND OTHER SYSTEMS, EQUIPMENT, GLAZING, ETC.
17. ALL NEW OUTLETS SHALL BE FLUSH MOUNTED WHEREVER POSSIBLE. PROVIDE ARCHITECTURAL SURFACE MOUNTED RACEWAY IN AREAS THAT FLUSH MOUNTING IS NOT PRACTICAL.
18. ALL HVAC EQUIPMENT THAT IS NOT CORD & PLUG CONNECTED SHALL BE PROVIDED WITH A LOCAL DISCONNECT SWITCH. VERIFY DISCONNECT SWITCH OPTION TO BE SUPPLIED AS A UNIT ACCESSORY WITH MANUFACTURER. HVAC DISCONNECT SWITCH SIZE AND RATING SHALL MATCH OR EXCEED UPSTREAM CIRCUIT BREAKER. COORDINATE WITH HVAC CONTRACTOR AND PROVIDE SEPARATE DISCONNECT SWITCH AS NEEDED.
19. ALL DISCONNECT SWITCH RATINGS SHALL MATCH OR EXCEED AMPERAGE OF UPSTREAM CIRCUIT BREAKER. COORDINATE WITH PANEL SCHEDULES.
20. REFER TO DRAWING E-101 FOR APPLICABLE FIRE ALARM GENERAL NOTES.

4 E100 SHEET KEY NOTES

1. EXISTING LIGHTING AND CONTROLS WITHIN THIS AREA TO REMAIN.
2. EXISTING ELECTRICAL PANEL TO REMAIN. REFER TO PANEL SCHEDULES ON DRAWING E200 FOR ADDITIONAL INFORMATION.
3. EXISTING RELOCATED FIRE ALARM CONTROL PANEL. EC SHALL EXTEND ALL EXISTING POWER CONDUCTORS, CONDUITS AND CABLES TO NEW LOCATION AND MAKE ALL FINAL TERMINATIONS. EXTEND ALL FIRE ALARM WIRING TO NEW LOCATION. COORDINATE FINAL LOCATION WITH AUTHORIZED OWNER REPRESENTATIVE AND LOCAL AHJ.
4. INDOOR UNIT SHALL BE POWERED BY RESPECTIVE OUTDOOR UNIT. EXTEND CIRCUIT FROM OUTDOOR UNIT TO INDOOR UNIT WITH MATCHING WIRING/CONDUIT AND MAKE FINAL CONNECTION.
5. CONNECT NEW FIRE ALARM INITIATION DEVICE TO EXISTING SIGNALING LINE CIRCUIT DEDICATED TO THE TENANT AREA. PROVIDE NEW LOOP ON EXISTING FIRE ALARM SYSTEM AND ALL ASSOCIATED MODULES, AS NEEDED, QUANTITY, SIZE, RATING AND TYPE OF NEW WIRING/CONDUIT SHALL MATCH BUILDING STANDARD. MINIMUM NOTIFICATION APPLIANCE CIRCUIT SHALL BE 2#16 AWG SHIELDED FPL. CONFIRM CIRCUIT WITH BASE BUILDING.
6. PROVIDE RELAY FOR FIRE ALARM SIGNALING TO SECURITY SYSTEM, COORDINATE WITH SECURITY VENDOR.
7. ROOM FURNISHED WITH FIRE-RESISTANT PLYWOOD, REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. CONFIRM RECEPTACLE REQUIREMENTS AND LOCATIONS WITH TENANT'S IT VENDOR.
8. FURNISH AND INSTALL GROUND BAR FOR GROUNDING OF IT EQUIPMENT. REFER TO GROUNDING BUSBAR DETAIL FOR ADDITIONAL INFORMATION.
9. FURNISH AND INSTALL LYNXSPRING JENE CONTROLLER WITH BUILT-IN LIGHTING CONTROL RELAYS TO PROVIDE LIGHTING CONTROL FOR GENERAL LIGHTING THROUGHOUT SPACE BASED ON THE TYPICAL BUILDING OPERATING SCHEDULE. ALL OTHER LIGHTING LOCAL CONTROLS SUCH AS COMBINATION WALL SWITCHES, OCCUPANCY / VACANCY SENSORS, AND DAYLIGHT DIMMING CONTROLS SHALL BE BY ACUITY BRANDS OR EQUAL. REFER TO RELAY PANEL SCHEDULE FOR ADDITIONAL INFORMATION. COORDINATE WITH MECHANICAL CONTRACTOR.
10. SECURITY/EGRESS LIGHTING FIXTURE SHALL BE UNSWITCHED AND OPERATE 24/7.
11. EC SHALL FURNISH AND INSTALL (2) 2" CONDUIT FOR I.T. BACKBONE FROM NEW I.T. DATA ROOM LOCATED IN CELLAR AND STUB UP TO CONFERENCE ROOM ON FIRST FLOOR. COORDINATE ALL EFFORTS WITH AUTHORIZED OWNER REPRESENTATIVE.
12. EC SHALL FURNISH AND INSTALL NEW SURGE PROTECTIVE DEVICE FOR ELECTRICAL PANEL. EMERSON MODEL 510-YA12ANAL1S

WELLS FARGO

INTERIOR FIT–OUT

MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
0600364910

William R Ryan
N.Y. LIC. #: 017735-1 SEAL
CONSULTANTS

DJM CONSULTING ENGINEERING
4914 Outlook Drive
Suite 300
Wall, NJ 07753
(732)359-9332
www.DJM-CE.com
DISTRIBUTED BY ARMSTRONG SUPPLY
#340A2823340

DAVID J. MANTONE
N.Y. LIC. #: 0092743-1
CONSULTANTS

REVISIONS

NO.	DATE	DESCRIPTION	BY

DATE ISSUED: 8.26.21
ISSUED FOR: BID & PERMIT SET
REVIEWED BY: JV
DRAWN BY: AC

WELLS FARGO BE NUMBER
111700

SHEET TITLE
CELLAR
ELECTRICAL PLANS

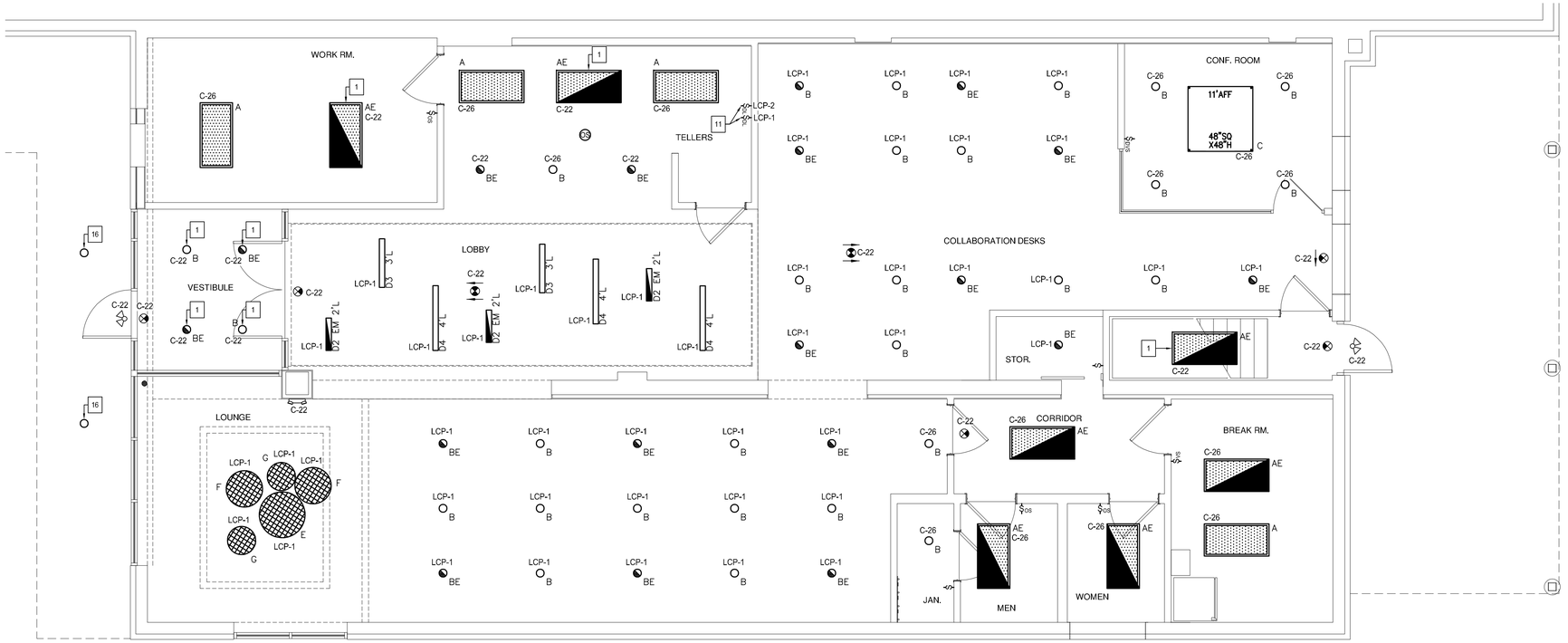
SHEET NUMBER
E-100

SHT. OF

ARCHITECT PROJECT NUMBER
2174

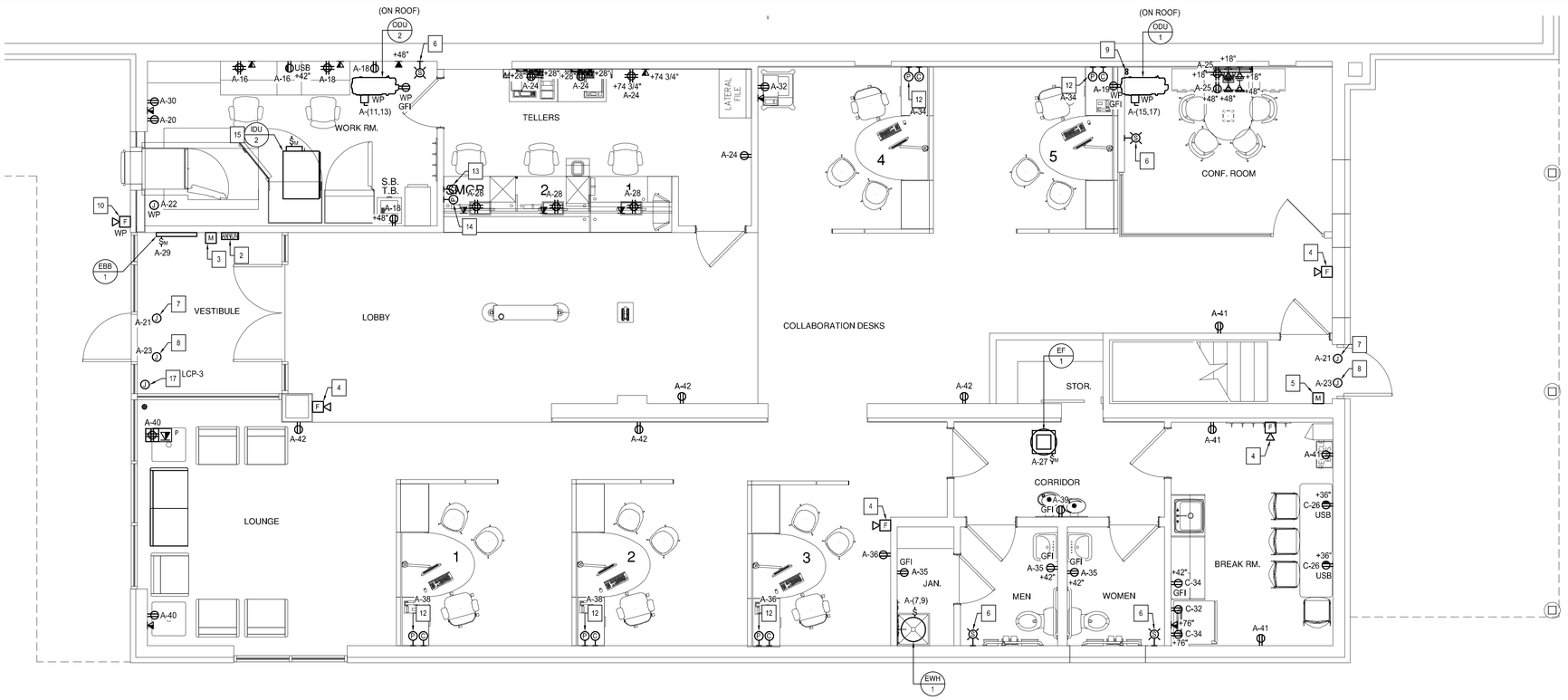
1 E101 FIRST FLOOR LIGHTING PLAN

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



2 E101 FIRST FLOOR POWER & FIRE ALARM PLAN

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



3 E101 SHEET GENERAL NOTES

1. REFER TO DRAWING E-100 FOR APPLICABLE SHEET GENERAL NOTES.

4 E101 FIRE ALARM NOTES

1. ALL FIRE ALARM INSTALLATIONS SHALL BE IN ACCORDANCE WITH NFPA 70 & 72 AND COMPLY WITH THE LOCAL AUTHORITY HAVING JURISDICTION.
2. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL CEILING MOUNTED DETECTORS IN THE FIELD, COORDINATE DETECTOR LOCATIONS WITH LIGHTING FIXTURES, GRILLES, REGISTERS, DIFFUSERS, SPRINKLER HEADS, ETC.
3. CONTRACTOR SHALL INSTALL CEILING MOUNTED DETECTORS MINIMUM 3'-0" FROM ANY HVAC SUPPLY REGISTER.
4. PULL STATIONS SHALL BE PROVIDED WITHIN 6'-0" OF EXIT DOORWAYS OR AS CLOSE AS PRACTICAL, VERIFY WITH LOCAL AHJ. DISTANCE OF TRAVEL BETWEEN PULL STATIONS SHALL NOT EXCEED 200'-0".
5. CONTRACTOR SHALL WIRE AND PROVIDE ALL COMPONENTS NECESSARY TO EXTEND AND/OR EXPAND A COMPLETELY OPERABLE FIRE ALARM SYSTEM IN ACCORDANCE WITH ALL LOCAL AND ADA REQUIREMENTS.
6. THE CONTRACTOR SHALL NOTIFY THE LOCAL AUTHORITY HAVING JURISDICTION TO WITNESS 100% ACCEPTANCE TESTING OF FIRE ALARM SYSTEM.
7. SUBMIT RECORD OF COMPLETION, FIRE ALARM SYSTEM TEST RESULTS AND TRAINING DOCUMENTATION.
8. FIRE ALARM WIRING SHALL BE RUN SEPARATE FROM ANY OTHER WIRING. PROVIDE DEDICATED CONDUITS AND JUNCTION BOXES (WITH RED COVERS) AS NEEDED FOR FIRE ALARM WIRING. ALL FIRE ALARM EQUIPMENT AND JUNCTION LOCATIONS SHALL BE IDENTIFIED AND MARKED PER CODE.
9. PROVIDE EQUIVALENT CEILING MOUNTED NOTIFICATION DEVICES WHERE WALL MOUNTED DEVICES ARE NOT FEASIBLE.
10. GENERAL CONTRACTOR IS RESPONSIBLE TO SUBCONTRACT BASE BUILDING FIRE ALARM CONTRACTOR AND PAY ALL ASSOCIATED COSTS FOR FIRE ALARM SYSTEM ALTERATIONS AS REQUIRED. NO OTHER FIRE ALARM CONTRACTOR SHALL PERFORM FIRE ALARM INSTALLATIONS UNLESS SPECIFICALLY ALLOWED BY OWNER.
11. FIRE ALARM DEVICE AND EQUIPMENT DESIGN SHOWN ON THIS PLAN IS INDICATED AS A PERFORMANCE GUIDELINE AND SUBJECT TO CHANGE AS DETERMINED BY THE BASE BUILDING FIRE ALARM CONTRACTOR, FIRE ALARM INSTALLER SHALL ADJUST LOCATIONS AND AUDIO / VISUAL INTENSITIES OF HORN-STROBES AND STROBE DEVICES IN THE FIELD AS NECESSARY FOR OPTIMAL NOTIFICATION.

5 E101 SHEET KEY NOTES

1. SECURITY / EGRESS LIGHTING FIXTURE SHALL BE UNSWITCHED AND OPERATE 24/7.
2. EC SHALL FURNISH AND INSTALL NEW FIRE ALARM ANNUNCIATOR PANEL.
3. EXISTING MANUAL PULL STATION TO BE RELOCATED TO THIS LOCATION. EXTEND ALL FIRE ALARM WIRING AS REQUIRED TO NEW LOCATION.
4. EXISTING RELOCATED HORN / STROBE FIRE DEVICE. EXTEND ALL FIRE ALARM WIRING AS REQUIRED TO NEW LOCATION.
5. EC SHALL FURNISH AND INSTALL NEW MANUAL PULL STATION. EXTEND EXISTING FIRE ALARM INITIATION LOOP TO NEW LOCATION AND PROVIDE WIRING AS REQUIRED.
6. EC SHALL FURNISH AND INSTALL NEW STROBE FIRE DEVICE, EXTEND EXISTING FIRE ALARM NOTIFICATION LOOP TO NEW LOCATION AND PROVIDE WIRING AS REQUIRED.
7. FURNISH AND INSTALL JUNCTION BOX WITH 120V POWER FOR DYE PACK ACTIVATION SYSTEM. VERIFY REQUIREMENTS WITH TENANT'S SECURITY VENDOR AND MAKE FINAL CONNECTION TO EQUIPMENT.
8. FURNISH AND INSTALL WIRING FOR LOW VOLTAGE TRANSFORMER, BY SECURITY VENDOR, AND MAKE FINAL CONNECTIONS. RUN CONDUCTORS FROM TRANSFORMER TO DOOR HARDWARE, AS REQUIRED. VERIFY CONDUCTOR SIZE AND INSTALLATION WITH SECURITY VENDOR.
9. (2) 2" CONDUITS STUBBED UP INTO CONFERENCE ROOM FROM CELLAR LEVEL IT ROOM. ROUTE CONDUITS TO ABOVE HUNG CEILING.
10. EC SHALL FURNISH AND INSTALL NEW HORN/STROBE FIRE DEVICE, EXTEND EXISTING FIRE ALARM NOTIFICATION LOOP TO NEW LOCATION AND PROVIDE WIRING AS REQUIRED.
11. FURNISH AND INSTALL LOW VOLTAGE OVERRIDE/DIMMING SWITCHES FOR RELAY CONTROLLED CIRCUITS (LCP-1 & 2). PROVIDE CAT5E CABLING FROM EACH SWITCH TO ASSOCIATED CONTACT IN RELAY PANEL IN ELECTRIC ROOM. VERIFY EXACT LOCATION WITH TENANT. OCCUPANT SHALL BE ABLE TO OVERRIDE LIGHTING CONTROL AND TURN LIGHTING ON FOR A PERIOD OF NO MORE THAN 2 HOURS WHEN PRESSED AFTER-HOURS. REFER TO LIGHTING CONTROL PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
12. EC SHALL FURNISH AND INSTALL 2 #12, #12 GND IN 3/4" CONDUIT FROM MODULAR FURNITURE BASE FEED MODULE TO CIRCUITS INDICATED. MAKE FINAL CONNECTION TO BASE FEED AND COORDINATE INSTALLATION WITH MODULAR FURNITURE SUPPLIER.
13. EC SHALL FURNISH AND INSTALL (2) 1" CONDUITS FROM J-BOX TO CEILING SPACE FOR COMMUNICATIONS.
14. EC SHALL FURNISH AND INSTALL 3/4" CONDUIT FROM J-BOX TO CEILING SPACE FOR POWER.
15. INDOOR UNIT SHALL BE POWERED BY RESPECTIVE OUTDOOR UNIT. EXTEND CIRCUIT FROM OUTDOOR UNIT TO INDOOR UNIT WITH MATCHING WIRING/CONDUIT AND MAKE FINAL CONNECTION.
16. EC SHALL REPLACE EXISTING DOWNLIGHT WITH LED EQUIVALENT. CONNECT DOWNLIGHT TO EXISTING CIRCUIT SERVING EXTERIOR CANOPY LIGHTING. COORDINATE ALL EFFORTS WITH AUTHORIZED OWNER REPRESENTATIVE.
17. EC SHALL FURNISH AND INSTALL JUNCTION FOR EXTERIOR SIGNAGE AND CONNECT TO CIRCUIT / CONTACTOR SHOWN. COORDINATE ALL EFFORTS WITH AUTHORIZED OWNER REPRESENTATIVE.

WELLS FARGO

INTERIOR FIT–OUT

MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
0600364910

William R Ryan
N.Y. LIC. #: 017735-1 SEAL
CONSULTANTS

DJM CONSULTING ENGINEERING
Fire protection solutions for your success
18114 Dudek Drive
Suite 300
Willis, TM 77318
(713)320-2332
www.DJM-CE.com
DEPARTMENT OF HOMELAND SECURITY
#340A3B2254OO

DAVID J. MANTONE
N.Y. LIC. #: 0092743-1
CONSULTANTS

REVISIONS

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SHEET TITLE
FIRST FLOOR
ELECTRICAL PLANS

SHEET NUMBER
E-101

SHT. OF

ARCHITECT PROJECT NUMBER
2174

1 E200 LIGHTING FIXTURE SCHEDULE

SYMBOL/DESIGNATION	DESCRIPTION	VOLTAGE	WATTAGE	COLOR TEMP.	MOUNTING	MANUFACTURER	CATALOG NUMBER
A	2'X4' RECESSED ARCHITECTURAL LED TROFFER.	120	40	4000K	LAY-IN GRID	CREE LIGHTING	ZR24M-40L-40K-10V-FD INCLUDE DGA24-WHT ACCESSORY FOR HARD CEILINGS
AE	2'X4' RECESSED ARCHITECTURAL LED TROFFER WITH EMERGENCY BATTERY BACK-UP.	120	40	4000K	LAY-IN GRID	CREE LIGHTING	ZR24M-40L-40K-10V-FD-EB14 INCLUDE DGA24-WHT ACCESSORY FOR HARD CEILINGS
B	6" OPEN LED DOWNLIGHT DIFFUSE ANODIZED FINISH, DEEP RECESS, 1000 LUMENS	120	18	4000K	RECESSED GRID OR SHEETROCK	CREE LIGHTING	KR6-13L-40K-120V / KR6T-SSGC-FF
BE	6" OPEN LED DOWNLIGHT DIFFUSE ANODIZED FINISH, DEEP RECESS, 1000 LUMENS, EMERGENCY BATTERY BACK-UP	120	18	4000K	RECESSED GRID OR SHEETROCK	CREE LIGHTING	KR6-13L-40K-120V-EB7 / KR6T-SSGC-FF
C	48" ACOUSTIC SQUARE LIGHT.	120	60	3000K	SURFACE	-	-
D2 2'L D3 3'L D4 4'L	LINEAR LED LIGHT FIXTURE, D# INDICATES LENGTH IN FEET. EX: D2 = 2'-0"	120	6W / FT	4000K	RECESSED GRID OR SHEETROCK	MARK LIGHTING	SL6L-QS-LOP-VARIES-STYLE-TRIM-80CRI-40K-600LMF-NODIM-120 EM AND HALF SHADED FIXTURE INDICATED TO PROVIDE REMOTE MOUNTED EMERGENCY BATTERY PACK.
E	34" DIAMETER CIRCULAR ACOUSTIC PENDANT LED LIGHT FIXTURE. (1) DIMMABLE 12W G40 LED GLOBE BULB.	120	12	3000K	PENDANT	LIGHTART	ACC-SHPE-EMP-34D-NI-CT-STD-830CK-WH-WH
F	27" DIAMETER CIRCULAR ACOUSTIC PENDANT LED LIGHT FIXTURE. (1) DIMMABLE 12W G40 LED GLOBE BULB.	120	12	3000K	PENDANT	LIGHTART	ACC-SHPE-EMP-27D-NI-CA-STD-830CK-WH-WH
G	22" DIAMETER CIRCULAR ACOUSTIC PENDANT LED LIGHT FIXTURE. (1) DIMMABLE 8W G25 LED GLOBE BULB.	120	8	3000K	PENDANT	LIGHTART	ACC-SHPE-EMP-22D-NI-ZN-STD-830CK-WH-WH
	LED DUAL HEAD EMERGENCY WALL PACK. MINIMUM 90 MINUTE BATTERY BACKUP, AND MANUAL TEST SWITCH. UL 924 AND NFPA 101 COMPLIANT. NICAD BATTERY.	120	4	N/A	SURFACE	LITHONIA	ELM4L
	LED EDGE-LIT EXIT SIGN WITH BRUSHED ALUMINUM FINISH, CLEAR ACRYLIC PANEL, 6" RED LETTERING, MINIMUM 90 MINUTE BATTERY BACKUP, AND MANUAL TEST SWITCH. UL 924 AND NFPA 101 COMPLIANT.	120	4	N/A	RECESSED GRID OR SHEETROCK	LITHONIA LIGHTING	EDG-1-R-EL
	REMOTE MOUNTED EMERGENCY LIGHT WITH TWIN LAMPHEADS	120	4	N/A	SURFACE	LITHONIA	ELA-T-QWP PROVIDE WITH REMOTE MOUNTED BATTERY PACK.

NOTES:

1. ALL FIXTURES, LAMPS, MOUNTING HARDWARE, ACCESSORIES ARE TO BE PROVIDED BY EC AND INCLUDED IN BID. EC IS RESPONSIBLE TO CONFIRM VOLTAGES AND MODEL NUMBERS WITH FACTORY, ORDER FIXTURES WITH ALL REQUIRED ACCESSORIES, AND RECEIVE & STORE IN SAFE CONDITION FOR INSTALLATION.
2. EC SHALL CONFIRM ALL LIGHTING FIXTURE COLORS/FINISHES WITH ARCHITECT PRIOR TO ORDERING. ALL LIGHTING FIXTURES SHALL BE IN ACCORDANCE WITH HSBC BANK USA'S STANDARDS.
3. LIGHTING FIXTURES SHALL BE FROM APPROVED WELLS FARGO SUPPLIERS ONLY. COORDINATE WELLS FARGO'S NATIONAL ACCOUNT INFORMATION WITH APPROVED LIGHTING VENDORS.

ALL EMERGENCY LIGHTS AND EXIT SIGNS SHALL BE PROVIDED WITH A UL 924 AND NFPA 101 COMPLIANT INTEGRAL BATTERY PACK AND TEST SWITCH. BATTERY PACK SHALL BE CAPABLE OF OPERATING ENTIRE LIGHTING FIXTURE FOR MINIMUM 90 MINUTES. COORDINATE OPTIONS AND ACCESSORIES WITH LIGHTING FIXTURE MANUFACTURER. REFER TO PLANS FOR QUANTITY AND LOCATION. PROVIDE REMOTE TEST SWITCH AS NEEDED.

2 E200 CONDUIT SIZING SCHEDULE

CONDUIT SIZING - BRANCH/FEEDER CIRCUITS

Conduit Size / Fill

1/2 (Inch)	3/4 (Inch)	1 (Inch)	1-1/4 (Inch)	1-1/2 (Inch)	2 (Inch)	2-1/2 (Inch)	3 (Inch)	3-1/2 (Inch)	4 (Inch)	Wire Size (AWG / KCMil)
6	10	16	28	39	64	112	169	221	282	14
4	8	13	23	31	51	90	136	177	227	12
3	6	10	18	24	40	70	106	138	177	10
1	4	6	10	14	24	42	63	83	106	8
1	3	4	8	11	18	32	48	63	81	6
1	1	3	6	8	13	24	36	47	60	4
1	1	3	5	7	12	20	31	40	52	3
1	1	2	4	6	10	17	26	34	44	2
1	1	1	3	4	7	12	18	24	31	1
0	1	1	2	3	6	10	16	20	26	1/0
0	1	1	1	3	5	9	13	17	22	2/0
0	1	1	1	2	4	7	11	15	19	3/0
0	0	1	1	1	3	6	9	12	16	4/0

Ampacity Adjustments Factors for More than 3 Current Carrying Conductors in a Raceway or Cable:

# Conductors	Adj Factor
4-6	80%
7-9	70%
10-20	50%
21-30	45%
31-40	40%
40+	35%

1. Conduit fill is 40% maximum based upon EMT conduit and THW/THHW copper conductors taken from the latest adopted NEC table.
2. Ampacity Adjustment Factors are taken from the latest adopted NEC.

This chart is provided as direction to EC, as conduit sizes are not shown, providing the EC with the discretion to group circuits in conduits as best dictated by field conditions. Conductors must then be derated accordingly.

CONTACTOR/CONTROL SCHEDULE

NO.	Max Voltage	Poles	Type	Coil	Circuit	Load Controlled	Schedule	JENE Relay	JENE Lighting Channel Name
C-1.1	240	1	ELEC HELD	120V	C-24	INTERIOR LIGHTING	**	#1	INTERIOR CUSTOMER
C-1.2	240	2	ELEC HELD	120V	A-(7,9)	WATER HEATER	**	#2	INTERIOR EMPLOYEE
C-1.3	240	1	ELEC HELD	120V	C-20	EXTERIOR SIGNAGE		#3	EXTERIOR SIGNAGE
C-1.4	240	1	ELEC HELD	120V		SPARE		#4	

NOTES: 1. ALL SCHEDULE FUNCTIONS PROVIDED THROUGH JENE BUILDING MANAGER SYSTEM.
2. SWITCHES FUNCTION ONLY DURING "OFF" TIMES AS DETERMINED BY EJEN SYSTEM. FIRST OPERATION FOR "ON", SECOND OPERATION FOR "OFF".
3. COORDINATE NIGHT SETBACK OVERRIDE AND LOCATION WITH LNXSPRING REPRESENTATIVE FOR ALL EHEN CONFIGURATIONS AND SETPOINTS.
**BASED ON STORE OPEN AND CLOSE HOURS CONTROLLED BY JENE BUILDING MANAGER 2 HOUR OVERRIDE SWITCH AVAILABLE AT BOTH FRONT AND REAR ENTRANCES.

Lighting Purchase Approved Vendors

Wells Fargo has partnered with leading lighting distributors to ensure the lighting equipment is delivered on time and accurately for each project.

Company	Application	Contacts	Contact Information
Border States	Distribution	Quotes - David Budnick Acct Mgr - Derek Miller	dbudnick@borderstates.com 704-372-3040 dmiller@borderstates.com 704-245-8767
CED	Distribution	Quotes - Collin Sefcik Acct Mgr - Shawn Campbell	Collin.sefcik@ced.com 817-923-1983 Shawn.campbell@ced.com 678-215-3065
Crescent	Distribution	Acct Mgr - Dustin Hinkle	Dustin.hinkle@cesco.com 615-573-1516
Regency	Distribution	Greg Tellason	Greg.tellason@regencylighting.com 770-686-2057

3 E200 ELECTRICAL PANEL SCHEDULES

PANEL ID: 'A' (EXISTING PANEL)

VOLTAGE: 208Y/120V, 3PH., 4W | MLO | X | MCB | N/A | AIC: 22K | COMMENTS:
MAIN BUS: 200A | MOUNTING: SURFACE | ACCESSORIES:

CIR. NO.	WIRE DATA NO.	WIRE	GND	LOAD DESCRIPTION	BREAKER POLE	BREAKER TRIP (A)	LOAD (VA)	PHASE A	PHASE B	PHASE C	LOAD (VA)	BREAKER TRIP (A)	BREAKER POLE	LOAD DESCRIPTION	WIRE DATA NO.	WIRE	GND	CIR. NO.
1							3480	3480										2
3	(E)	(E)	(E)	AIR COND 1 / HEATING 1	3	50	3480		3480			15	3	NEW SPD *	2	12	12	4
5							3480			3480								6
7	2	12	12	EWH-1	2	30	1500	1500				20	2	SPARE				8
9							1500		1500									10
11	2	8	10	ODU-2 / IDU-2 *	2	35	1768			1768		20	2	SPARE				12
13							1768	1768										14
15	2	12	12	ODU-1 / IDU-1 *	2	15	728		1268		540	20	1	RECEPT - WORK ROOM	2	12	12	16
17							728			1448	720	20	1	RECEPT - WORK ROOM	2	12	12	18
19	2	12	12	RECEPT - ROOFTOP MAINTENANCE	1	20	180	1380			1200	20	1	RECEPT - ATM	2	12	12	20
21	2	12	12	DYE PACK	1	20	300		900		600	20	1	RECEPT - EXTERIOR ATM SURROUND	2	12	12	22
23	2	12	12	DOOR HARDWARE	1	20	300			1200	900	20	1	RECEPT - TELLER BACKWALL	2	12	12	24
25	2	12	12	RECEPT - CONFERENCE ROOM	1	20	540	640			100	20	1	(E) SMOKE DETECTOR	(E)	(E)	(E)	26
27	2	12	12	EF-1	1	15	300		1380		1080	20	1	RECEPT - TELLER LINE	2	12	12	28
29	2	12	12	EBB-1	1	15	500			1700	1200	20	1	RECEPT - ATM	2	12	12	30
31				SPARE	1	15		800			800	20	1	RECEPT - PRINTER	2	12	12	32
33				SPARE	1	15			720		720	20	1	RECEPT - COLLARBORATION DESKS	2	12	12	34
35	2	12	12	RECEPT - JAN/RR	1	20	540			1080	540	20	1	RECEPT - COLLARBORATION DESKS	2	12	12	36
37	(E)	(E)	(E)	(E) SMOKE DETECTOR	1	20	100	820			720	20	1	RECEPT - COLLARBORATION DESKS	2	12	12	38
39	2	12	12	RECEPT - EWC	1	20	800		1520		720	20	1	RECEPT - LOUNGE	2	12	12	40
41	2	12	12	RECEPT - BREAK ROOM	1	20	720			1440	720	20	1	RECEPT - CONVENIENCE	2	12	12	42
				PHASE CONN. (VA)			10388	10768	12116									
				PHASE CONN. (AMPS)			86.5	89.7	100.9									

NOTES: * - EC SHALL FURNISH AND INSTALL NEW CIRCUIT BREAKER AS INDICATED

33.3 TOTAL CONNECTED LOAD (KVA)
92.4 TOTAL CONNECTED LOAD (AMPS)

PANEL ID: 'C' (EXISTING PANEL)

VOLTAGE: 208Y/120V, 3PH., 4W | MLO | X | MCB | N/A | AIC: 22K | COMMENTS:
MAIN BUS: 100A | MOUNTING: SURFACE | ACCESSORIES:

CIR. NO.	WIRE DATA NO.	WIRE	GND	LOAD DESCRIPTION	BREAKER POLE	BREAKER TRIP (A)	LOAD (VA)	PHASE A	PHASE B	PHASE C	LOAD (VA)	BREAKER TRIP (A)	BREAKER POLE	LOAD DESCRIPTION	WIRE DATA NO.	WIRE	GND	CIR. NO.
1				SPACE	1			0					1	SPACE				2
3				SPACE	1				0				1	SPACE				4
5				SPACE	1					0			1	SPACE				6
7								0										8
9				SPARE	3	30			0			15	3	NEW SPD	3	12	12	10
11										0								12
13								0				20	1	SPARE				14
15				SPARE	3	30			0			20	1	SPARE				16
17										0		20	1	SPARE				18
19				SPARE	3	30		600			600	20	1	EXTERIOR SIGNAGE	2	12	12	20
21									400		400	20	1	LIGHTING - EXIT SIGNS AND NIGHT LIGHTS	2	12	12	22
23										790	790	20	1	LIGHTING - COMMON AREAS	2	12	12	24
25				SPARE	3	30		466			466	20	1	LIGHTING - RR/JAN/STOR/TELLER	2	12	12	26
27									0			15	1	SPARE				28
29				SPARE	3	30				360	360	20	1	RECEPT - BREAK ROOM COUNTER	2	12	12	30
31								800			800	20	1	RECEPT - REFRIGERATOR	2	12	12	32
33				SPARE	3	20			1000		1000	20	1	RECEP T- BREAK ROOM BACKSPLASH	2	12	12	34
35										0		20	1	SPARE				36
				PHASE CONN. (VA)			1866	1400	1150									
				PHASE CONN. (AMPS)			15.5	11.7	9.6									

NOTES:

4.4 TOTAL CONNECTED LOAD (KVA)
12.3 TOTAL CONNECTED LOAD (AMPS)

PANEL ID: 'D' (EXISTING PANEL)

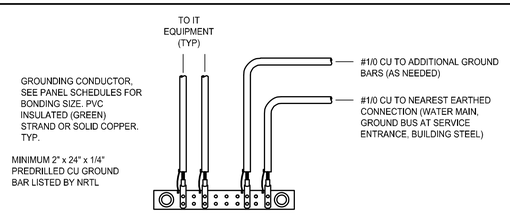
VOLTAGE: 208Y/120V, 3PH., 4W | MLO | MCB | 100A | AIC: 22K | COMMENTS:
MAIN BUS: 200A | MOUNTING: SURFACE | ACCESSORIES:

CIR. NO.	WIRE DATA NO.	WIRE	GND	LOAD DESCRIPTION	BREAKER POLE	BREAKER TRIP (A)	LOAD (VA)	PHASE A	PHASE B	PHASE C	LOAD (VA)	BREAKER TRIP (A)	BREAKER POLE	LOAD DESCRIPTION	WIRE DATA NO.	WIRE	GND	CIR. NO.
1	2	12	12	QUAD RECEPT - CELLAR	1	20	720	720										2
3				SPARE	1	15			0			15	3	NEW SPD *	3	12	12	4
5				SPARE	1	15				0								6
7				SPARE	1	15		0										8
9				SPARE	1	15			0			30	3	SPARE				10
11	2	12	12	RECEPT - CELLAR	1	20	540			540								12
13				SPARE	1	20		0				20	1	SPARE				14
15				SPARE	1	20			0			20	1	SPARE				16
17				SPARE	1	20				0		15	1	SPARE				18
19				SPARE	1	20		600			600	20	1	RECEPT - FIRE ALARM CONTROL PANEL	2	12	12	20
21				SPARE	2	20			360		360	20	1	RECEPT - TELCO	2	12	12	22
23										180	180	20	1	RECEPT - IT DEDICATED	2	12	12	24
25				SPARE	1	20		360			360	20	1	RECEPT - IT DEDICATED	2	12	12	26
27				SPARE	1	20			180		180	20	1	RECEPT - IT DEDICATED	2	12	12	28
29				SPARE	1	15				180	180	20	1	RECEPT - IT DEDICATED	2	12	12	30
31				SPARE	1	30		0				20	1	SPARE				32
33				SPACE	1				0			20	1	SPARE				34
35				SPACE	1					0		20	1	SPARE				36
37								0				20	1	SPARE				38
39	(E)	(E)	(E)	EXISTING MAIN CIRCUIT BREAKER	3	100			0			20	1	SPARE				40
41										0		20	1	SPARE				42
				PHASE CONN. (VA)			1680	540	900									
				PHASE CONN. (AMPS)			14.0	4.5	7.5									

NOTES:

3.1 TOTAL CONNECTED LOAD (KVA)
8.7 TOTAL CONNECTED LOAD (AMPS)

4 E200 GROUNDING BUSBAR DETAIL



WELLS FARGO

INTERIOR FIT–OUT
MAMARONECK

1130 EAST POST ROAD
MAMARONECK, NY 10022

LONGO | ARCHITECTS & ASSOCIATES LLC
36 SOUTH STREET
NEW PROVIDENCE, N.J. 07974
TELEPHONE (908) 464-9300
FAX (908) 464-3123
06003649I0

N.Y. LIC. #: 017735-1 SEAL
CONSULTANTS

DJM CONSULTING ENGINEERING
one Dudick Drive
Suite 302
Wall, NJ 07719
(732)359-2332
www.DJM-CE.com
DEPARTMENT OF HOMELAND SECURITY
#340A3B2254OO

DAVID J. MANTONE
N.Y. LIC. #: 0092743-1
CONSULTANTS

REVISIONS

NO.	DATE	DESCRIPTION	BY

DATE ISSUED: 8.26.21
ISSUED FOR: BID & PERMIT SET
REVIEWED BY: JV
DRAWN BY: AC

WELLS FARGO BE NUMBER
111700

SHEET TITLE
ELECTRICAL SCHEDULES AND DETAILS

SHEET NUMBER
E-200

SHT. OF

ARCHITECT PROJECT NUMBER
2174