

Housing Authority of the City of Pittsburgh

HACP Northview Heights Police Station-Task Order 71

441 Mt Pleasant Road
Pittsburgh, PA 15214

4-12-18

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PLUMBING/ FIRE
PORTECTION/ ELECTRICAL
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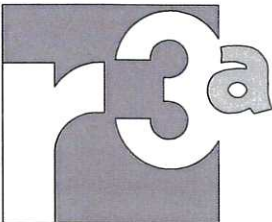


1 Location Map
NOT TO SCALE

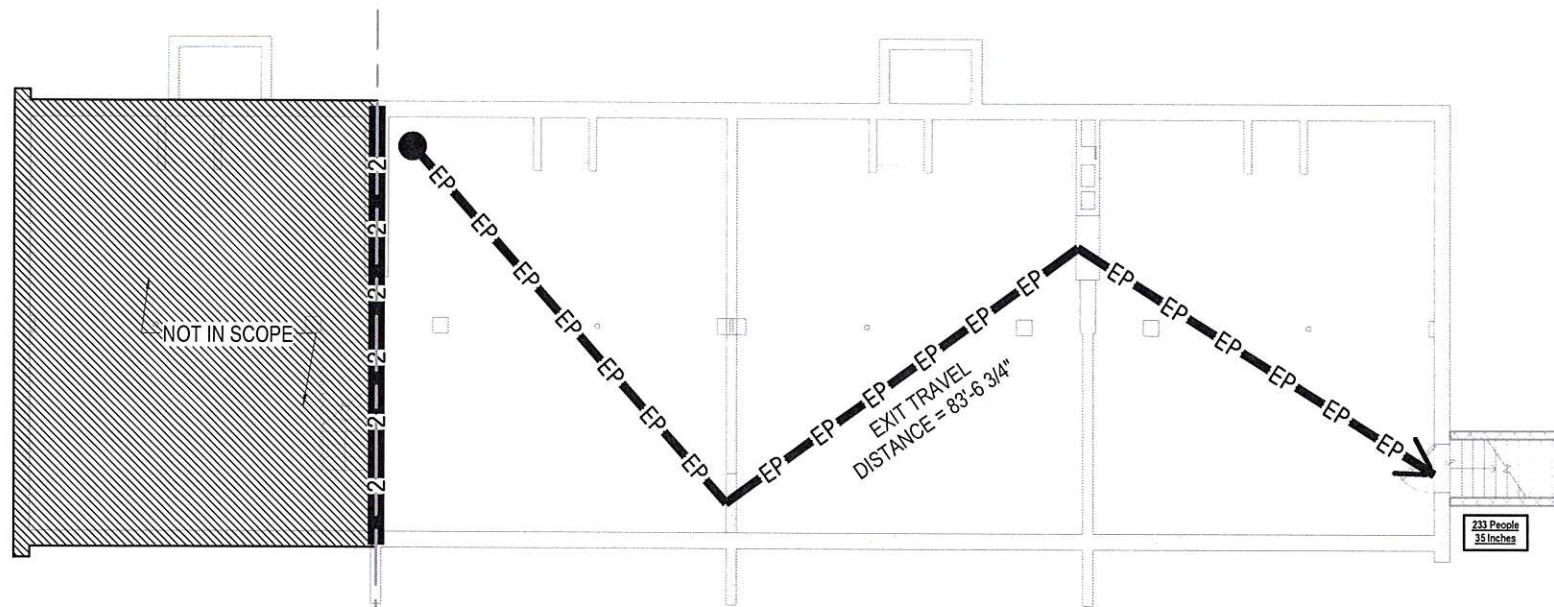
Construction Documents

List of Drawings

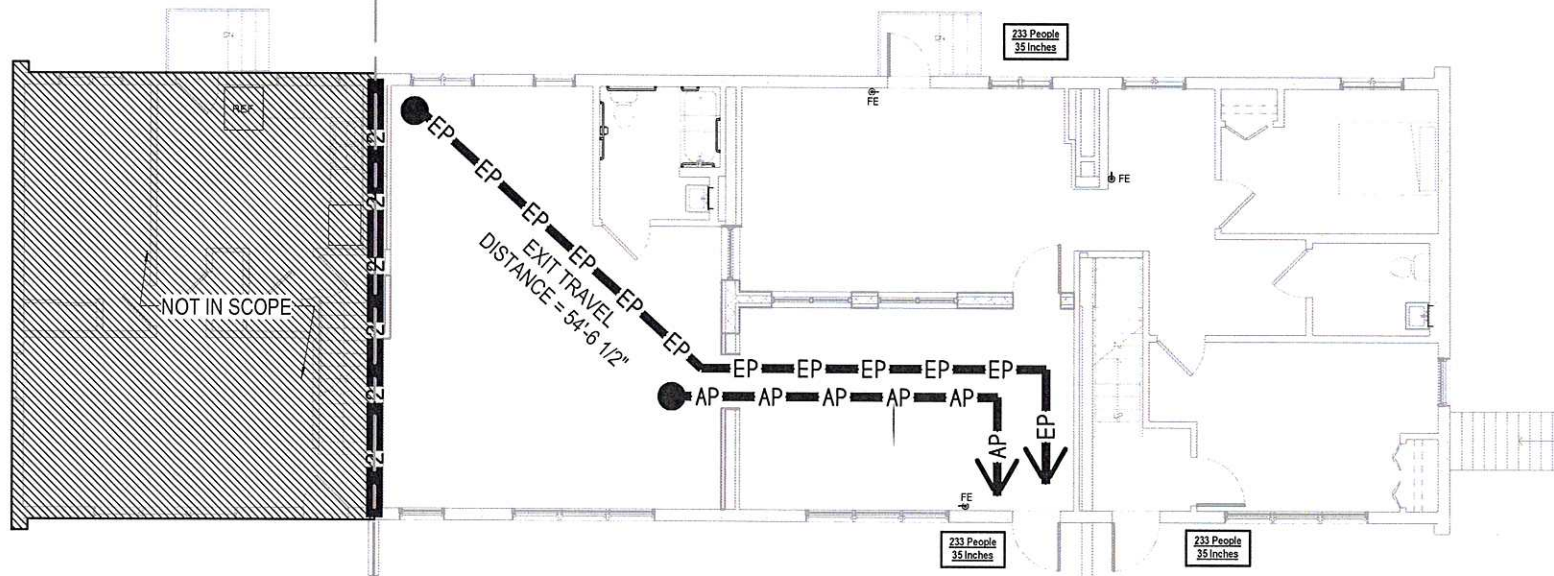
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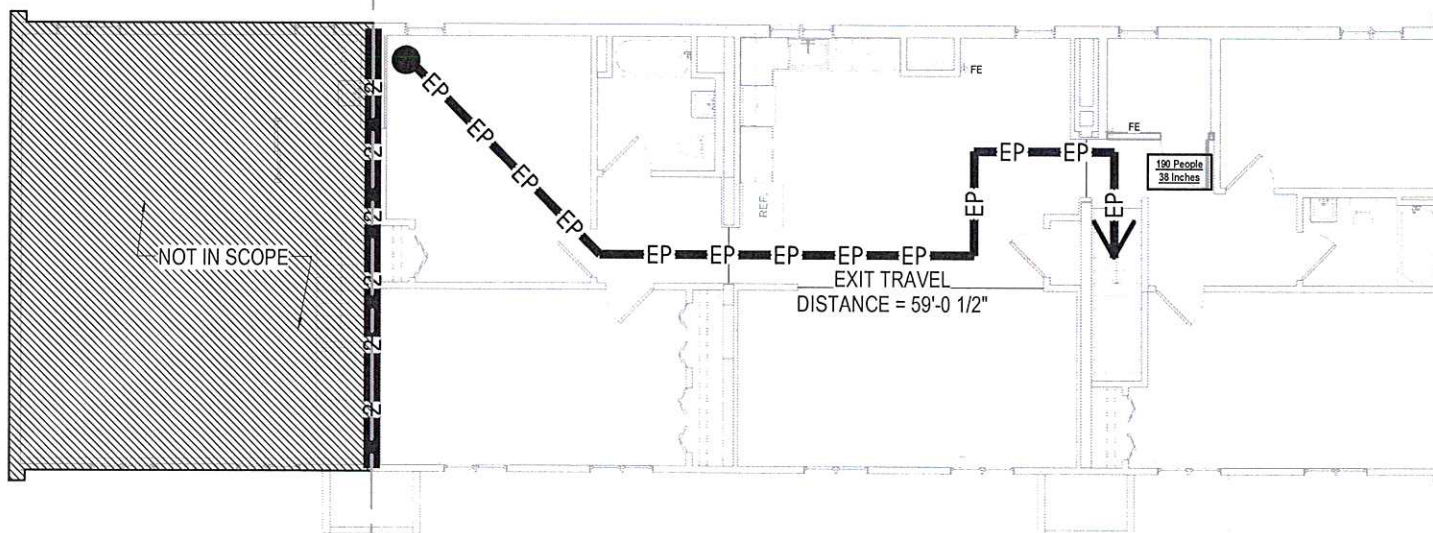
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1 Basement Life Safety Plan
3/16" = 1'-0"



2 First Floor Life Safety Plan
3/16" = 1'-0"



3 Second Floor Life Safety Plan
3/16" = 1'-0"



HACP
Northview Heights - Mini Police Station
March 27, 2018

Building Code & Regulations Summary

General Data

- Location: Pittsburgh, Pa - Allegheny County
- Building Official of Jurisdiction: City of Pittsburgh - Department of Permitting, Licensing, and Inspections (Building, Mechanical, Electrical, and Fire Protection Permits)
Allegheny County Health Department - Plumbing Division (Plumbing Permits)
- Building Codes: 2009 International Existing Building Code - IIBC
2009 International Building Code (Chapters 2-10 12-33) - IBC
2015 International Building Code (Chapter 11) - IBC
2009 International Fire Code - IFC
2009 International Electrical Code - IEC
2009 International Mechanical Code - IMC
2009 International Plumbing Code - IPC (Allegheny County Health Dept.)
- Amendments: PA Code 34 Chapter 405 (Elevators and Other Lifting Devices) - UCC 34
Pittsburgh Code of Ordinances Title 10 (Chapter 1002.2 UCC Changes) - PIT10
- Permitting: Building Permits: Requires Zoning Approval, Application, & Fee
Occupancy: Requires Completed Inspections

Use and Occupancy Classification

- Existing Use: Overall Building Classification: R-2, Residential Group R (IBC 310)
- Proposed First Floor Use: Occupancy Classification: B, Business Group B (IBC 304)

Classification of Work

- Change of Occupancy - R-2 to B (Per IBC 912)

General Building Heights and Areas

- Allowable Height: 2 Stories (40 ft) (IBC Table 503 per occupancy and construction type - R-2 & B)
- Allowable Area: 7,000 gross square feet (IBC Table 503 per occupancy and construction type - R-2)
9,000 gross square feet (IBC Table 503 per occupancy and construction type - B)
- Existing Building Area: 3,762 gross square feet
First Floor Area: 1,881 gross square feet
Second Floor Area: 1,881 gross square feet

Building Elements and Materials

- Construction Type: VB (Existing - IBC 603)
- Primary Structural Frame: 0 hour (IBC Table 601)
- Bearing Walls: 0 hour (IBC Table 601)
- Nonbearing Walls: 0 hour (Exterior) / 0 hour (Interior) (IBC Table 601)
- Floor Construction: 0 hour (IBC Table 601)
- Roof Construction: 0 hour (IBC Table 601)
- Fire Wall Separation (Table 706.4): 2 hours (Per Construction Type V exception) between B and R-3

Fire Protection

- Automatic Fire Suppression: Existing: Fully Sprinklered (Not required in B occupancy per 903.2.2)
- Fire Alarm: Existing: Manual Fire Alarm (No required per 907.2.2)
- Existing Unit Separation (Floor Assembly): 30 min

Means of Egress

- Occupant Load Calculation (IBC Table 1004.1.1)
Existing Occupant Load: 1,881 gross sf (First Floor Unit) = 10 occupants per 200/sf for R-2 occupancy
1,881 gross sf (Second Floor Unit) = 10 occupants per 200/sf for R-2 occupancy
Total Existing Occupant Load: 20 Occupants
Proposed Occupant Load: 1,436 gross sf (First Floor) = 15 occupants per 100/sf for B occupancy
445 sf (Meeting Room) = 30 occupants per 15/sf (Assembly Space)
1,881 gross sf (Second Floor) = 19 occupants per 100/sf for B occupancy
Total Existing Occupant Load: 64 Occupants
- Number of Means of Egress
Two are required where the space has an occupant load of 50 or more (IBC 402.4.2)
Maximum Occupant Load for Single on First Floor (Per Table 1021.2): 45 (2 Existing Exits)
Maximum Occupant Load for Second Floor with one exit (Per Table 1021.2): 29 (1 Existing Exits)
- Travel Distance to Exits
300 feet, for B occupancy if building is sprinklered
- Egress Width (IBC 1005.1)
For First Floor: 45 occupants x 0.2 = 9" required (6" existing)
- Dead-ends
50 feet maximum, for B occupancy if building is sprinklered.
- Common Path of Egress Travel
100 Feet (IBC 1014.3, for B occupancy if building is sprinklered)

Plumbing Fixture Count

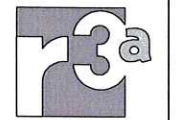
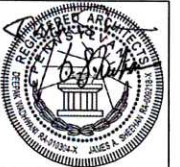
- Per IPC Table 403.1
Business First Floor: (45 Occupants)

Water Closets - 1 per 20 for first BU, then 1 per BU for the remainder exceeding BU = 2 WCs
Lavatories - 1 per 50 for first BU, then 1 per BU for the remainder exceeding BU = 2 LAVs
Drinking fountain - 1 per 100 = 1 DFs (To be confirmed with Allegheny County Health Department)
Other - 1 service sink. (To be confirmed with Allegheny County Health Department)

Existing (First Floor)

Water Closets - 2
Lavatories - 2
Drinking fountain - 0
Bathub/ Shower - 1.

NOTE:
REFER TO MEP DRAWINGS FOR LOCATIONS OF EXIT SIGNS, SPRINKLER HEAD LOCATIONS,
EMERGENCY LIGHTING AND FIRE PROTECTION DEVICES.



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Heights Police
Station-Task
Order 71
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Construction
Documents

ISSUED: 4-12-18

REVISIONS

Life Safety Plans

R3A PROJECT # 18019

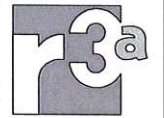
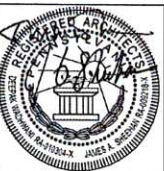
G-101

<p>1. Incl. Otto (which means same as above) # Number, or Pound</p> <p>AB: Anchor Bolt, Asbestos Board ABV: Above AC: Acoustical Panel Ceiling System ACC: Access ACF: Architectural Concrete Finish ACFL: Access Floor ACI: American Concrete Institute ACPL: Acoustical Plaster ACR: Acrylic ACST: Acoustic ACSTF: Acoustic Tile Ceiling AD: Area Drain ADA: Americans with Disabilities Act ADAAG: Americans with Disabilities Act Architectural Guidelines ADDL: Additional ADH: Adhesive ADJ: Adjacent AFF: Above Finished Floor AGGR: Aggregate AIA: American Institute of Architects AEE: American Institute of Electrical Engineers AISC: American Institute of Steel Construction AL: Aluminum ALT: Alternate AP: Access Panel APPROX: Approximate APT: Apartment ARCH: Architectural ARS: Asbestos Roof Shingles AS: Acoustic Sealant ASB: Asbestos ASO: Above Suspended Ceiling ASCE: American Society of Civil Engineers ASME: American Society of Mechanical Engineers ASPH: Asphalt ASSOC: Association ASTM: American Society for Testing and Materials AT: Asphalt Tile ATTEN: Attention ATM: Automatic Teller Machine ATO: Automatic AVG: Average AW: Add Waste AWG: American Wire Gauge AWM: Automatic Washing Machine AWS: American Welding Society</p> <p>B TO B: Back to Back BBD: Bulletin Board BAL: Balance BEL: Below BETW: Between BEV: Bevel BF: Board Foot BIO: Bulbhead BIT: Bituminous BKR: Breaker BL: Building Line BLDG: Building BLT: Bolted/Lite BM: Beam BMT: Butyl Mastic Tape Sealant BN: Bulbcase BP: Base Plate BPL: Bearing Plate BRD: Bearing BRK: Break BRKR: Breaker BRKT: Bracket</p>	<p>BRS: Butyl Rubber Sealant BRZ: Bronze BSMT: Basement BTU: British Thermal Units BTUa: British Thermal Units per Hour BTM: Bottom BUR: Built-up Roof BUZ: Buzzer BVL: Beveled C: Degrees Celsius C/C: Center to Center CAB: Cabinet CAIS: Caisson CAP: Capacity CARP: Carpenter CB: Catch Basin CCTV: Closed Circuit TV CCM: Cement CF: Cubic Feet CFO: Contractor Furnish Contractor Install CFOI: Contractor Furnish Owner Install CFL: Counterflashing CFS: Cubic Feet per Minute C/G: Corner Guard CH: Coat Hook CHB: Chalk Board CHAM: Chamfer CHAN: Channel CIP: Cast-in-Place CIR: Circular CJ: Control Joint CL: Centerline CLG: Ceiling CLUG: Caulking CLL: Corridor Line CLO: Closet CLR: Clear CMT: Ceramic Mosaic Tile CMU: Concrete Masonry Unit CND: Conduit COAX: Coaxial CO: Cased Opening COL: Column COMB: Combination COMP: Compressed CONC: Concrete CONSTR: Construction CONT: Continuous CORO: Corridor CPL: Cement Plaster CPP: Cement Plaster Painted CPR: Copper CPT: Carpet CS: Cast Stone CUB: Cubic CF: Cubic Feet CY: Cubic Yard CV: Check Valve CWC: Closets CYL: Cylinder DA: Double Acting DBL: Double DEG: Degree DEGC: Degree Celsius DEGF: Degree Fahrenheit</p>	<p>DEMO: Demolition DEPT: Department DET: Detail DF: Drinking Fountain DTM: Detachable DOW: Down DR: Drain D/T: Detail D/VTL: Dovetail DW: Dashed Water DWG: Drawing DWS: Dripout E: Each EB: Expansion Bolt EC: Electrical Contractor EFS: Each Face E/F: Exterior Insulation and Finish System EL: Elevation ELEC: Electrical EM: Emergency EXP: Expansion ENAM: Enamel ENC: Enclosure ENG: Engineer ENT: Entrance EPDM: Ethylene Propylene Diene Monomer EQ: Equal EQUIP: Equipment ESC: Escalator EST: Estimate EWC: Electric Water Cooler EWH: Electric Water Heater EXIST: Existing EXP: Expansion F: Degrees Fahrenheit, Fuse FA: Fire Alarm FAB: Fabricate IN: Inch CONSTR: Construction CONT: Continuous CORO: Corridor CPL: Cement Plaster CPP: Cement Plaster Painted CPR: Copper CPT: Carpet CS: Cast Stone CUB: Cubic CF: Cubic Feet CY: Cubic Yard CV: Check Valve CWC: Closets CYL: Cylinder DA: Double Acting DBL: Double DEG: Degree DEGC: Degree Celsius DEGF: Degree Fahrenheit</p>	<p>FP: Fireproof FT: Feet FTG: Footing FURN: Furnish FURN: Furring FUT: Future GA: Gauge GALV: Galvanized GC: General Contractor GL: Glaze GND: Ground GOVT: Government GP: Galvanized Pipe GPM: Gallons Per Minute GPL: Gypsum Lath GPM: Gallons Per Minute GR: Grade, Grille, Grate GRAN: Granular, Granite GRND: Ground GVL: Gavel GWS: Gypsum Wall Board GY: Gypsum HB: Hose Bib HC: HVAC Contractor HWR: Hardware H: Handhole HD: High Intensity Discharge HL: Hydrol Line HM: Hollow Metal HORZ: Horizontal HPS: High Pressure Sodium, High Pressure EQ: Equal H: Hour HS: Heat Strengthened HVAC: Heating, Ventilating & Air Conditioning HWD: Hardwood HWY: Highway HYD: Hydraulic ID: Inside Diameter IE: Invert Elevation IMH: Inlet Manhole INCH: Inch INCH: Inclinometer INCL: Incline, Include INFO: Information INSUL: Insulation INV: Invert IP: Iron Pipe JAN: Janitor JB: Junction Box JC: Janitor's Closet JT: Joint KIT: Kitchen KO: Knockout KP: Kickplate PL: Floor Line FLASH: Flashing FLEX: Flexible LAB: Laboratory, Labor LAD: Ladder LAM: Laminated, Laminated LAT: Lateral LAV: Laboratory LB: Pound (weight), Lag Bolt LCD: Liquid Crystal Diode</p>	<p>PRMLD: Premixed PROT: Protection, Protective PRSTR: Prestressed PRTN: Partition PSF: Pounds per square foot PSI: Pounds per square inch PT: Paint, Point PTC: Post-Tensioned Concrete PTD: Painted PVC: Polyvinyl Chloride PVP: Polyvinylidene Fluoride P/MT: Pavement MET: Metal MEZZ: Mezzanine MFR: Manufacturer, Manufacturer MH: Manhole MIN: Minimum MISC: Miscellaneous MO: Masonry Opening MP: Metal Acoustic Panel MTD: Mounted NAT: Natural NEC: National Electrical Code NIC: Not In Contract NO: Number, Normally Open NRC: Noise Reduction Coefficient NTS: Not To Scale OBS: Obscure O.C.: On Center OD: Outside Diameter HR: Hour OH: Overhead OHD: Overhead Door OP: Oppose OPP: Opposite OR: Outside Radius OZ: Ounce P: LAM: Plastic Laminates PA: Public Address PAR: Parallel PB: Push Button, Panic Bar PC: Plumbing Contractor PCF: Pounds per cubic foot PD: Pump Discharge, Plaza Drain PE: Professional Engineer PED: Pedestal, Pedestrian PERF: Perforate, Performance PERM: Perimeter PERP: Perpendicular PJF: Preformed Joint Filler PKG: Parking PKWY: Parkway PL: Plate, Plan, Property Line, Plastic Laminates, Plastic PLAS: Plaster, Plastic PLF: Pounds Per Linear Foot PLWD: Plywood PLN: Panel POL: Polish, Polished POR: Porcelain PR: Par PREFAB: Prefabricated PRESS: Pressure PRFMD: Preformed PR: Primary</p>	<p>SSGS: Silicone Structural Glazing Sealant ST: Straight, Storm Water STC: Sound Transmission Class STD: Standard STIFF: Stiffener STK: Stack STL: Steel STM: Steam STOR: Storage STRUCT: Structural SUPP: Supplementary, Supplement SUSP: Suspended, Suspend SY: Square Yard SYS: System TAG: Tongue & Groove TAN: Tangent TEL: Telephone TEL CL: Telephone Closet TEMP: Temporary, Temperature THK: Thick, Thickness THERM: Thermal THERMST: Thermostat TIBD: Tackboard TLT: Toilet TRAV: Traveline TRD: Tread TS: Time Switch TV: Television TW: Top of Wall, Thin Wall (conduit), Tempered Water TYP: Typical UC: Undercut UH: Unit Heater UL: Underlayment, Laboratories UNEXD: Unexcavated UNO: Unless Noted Otherwise UP: Unpainted VAT: Vinyl Asbestos Tile VB: Vapor Barrier, Valve Box, Vinyl Base, Vacuum Breaker VCT: Vinyl Composition Tile VERT: Vertical VEST: Vestibule VF: Verify in the Field VP: Vapor Proof, Vent Pipe VR: Vapor Retarder, Vacuum Return, Vertical Rise VRM: Vermiculite VS: Vent Stack WVC: Vinyl Wall Covering W: With WO: Without WB: Wood Base WC: Water Closet WD: Wood WOSD: Wood, Stained & Sealed WDW: Window WH: Water Heater, Wall Hung, Wall Hydrant WP: Waterproof, Working Point, Working Pressure, Waterproof WPR: Waterproofing WR: Water Resistant, Water Repellent, Waste Receptacle WWF: Welded Wire Fabric XH: Extra Heavy X STR: Extra Strong YD: Yard YR: Year</p>
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Abbreviations

Symbol Legend

<p>00000 00</p> <p>NOTE: NUMBER, REFER TO REFERENCED CONSTRUCTION NOTES.</p>	<p>GRADE ELEVATION INDICATOR</p> <p>FINISHED FLOOR ELEVATION</p>
<p>EXISTING DOOR</p> <p>NEW DOOR</p> <p>NOTE: REFER TO DOOR INDICATOR AND DOOR SCHEDULE FOR MORE INFORMATION.</p>	<p>CEILING ELEVATION INDICATOR</p> <p>FINISHED ELEVATION</p> <p>FINISHED MATERIAL</p> <p>STORAGE INDICATOR</p> <p>STORAGE INDICATOR</p> <p>NOTE: REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.</p>
<p>DOOR INDICATOR</p> <p>ROOM NUMBER</p> <p>DOOR NUMBER</p> <p>NOTE: REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.</p>	<p>FINISH MATERIAL INDICATOR</p> <p>FINISH MATERIAL DESCRIPTION</p> <p>FINISH MATERIAL NUMBER</p> <p>FINISH MATERIAL EXTENTS LEADER</p> <p>NOTE: REFER TO FINISH SCHEDULE FOR ADDITIONAL INFO.</p>
<p>ROOM NAME INDICATOR</p> <p>ROOM NAME</p> <p>ROOM FINISH TYPE: SEE SCHEDULE OF FINISHES FOR DESCRIPTION</p> <p>ROOM NUMBER</p> <p>DETAIL INDICATOR</p> <p>INDICATES DIRECTION OF DETAIL VIEW</p> <p>DETAIL NUMBER</p> <p>SHEET NUMBER</p>	<p>COLUMN LINE INDICATOR</p> <p>COLUMN LINE NUMBER</p> <p>GRADE ELEVATION INDICATOR</p> <p>EXISTING ELEVATION</p> <p>NEW FINISHED ELEVATION</p> <p>NOTE: REFER TO FINISH SCHEDULE FOR SPECIFIC WALL TYPE.</p>
<p>TOILET ACCESSORY INDICATOR</p> <p>INDICATES ITEM SCHEDULED AND SPECIFIED IN PROJECT MANUAL</p> <p>CONTROL POINT SYMBOL INDICATOR</p> <p>CONTROL POINT NUMBER</p>	<p>WALL TYPE INDICATOR</p> <p>WALL TYPE: REFER TO WALL TYPE LEGEND FOR ADDITIONAL INFORMATION.</p> <p>WINDOW INDICATOR</p> <p>WINDOW NUMBER</p> <p>NOTE: REFER TO WINDOW SCHEDULE FOR ADDITIONAL INFORMATION.</p>
<p>DETAIL OR ENLARGED PLAN INDICATOR</p> <p>AREA OF DETAIL OR ENLARGED PLAN</p> <p>DETAIL OR ENLARGED PLAN NUMBER</p> <p>SHEET NUMBER</p>	
<p>INTERIOR ELEVATION INDICATOR</p> <p>ELEVATION NUMBER</p> <p>SHEET NUMBER</p> <p>ELEVATION NUMBER</p>	
<p>EXTERIOR ELEVATION INDICATOR</p> <p>INDICATES SURFACE ELEVATED</p> <p>ELEVATION NUMBER</p> <p>SHEET NUMBER</p>	
<p>BUILDING SECTION INDICATOR</p> <p>INDICATES DIRECTION OF WALL SECTION VIEW</p> <p>SECTION NUMBER</p> <p>SHEET NUMBER</p>	
<p>WALL SECTION INDICATOR</p> <p>INDICATES DIRECTION OF WALL SECTION VIEW</p> <p>SECTION NUMBER</p> <p>SHEET NUMBER</p>	



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ISSUED: 4-12-18

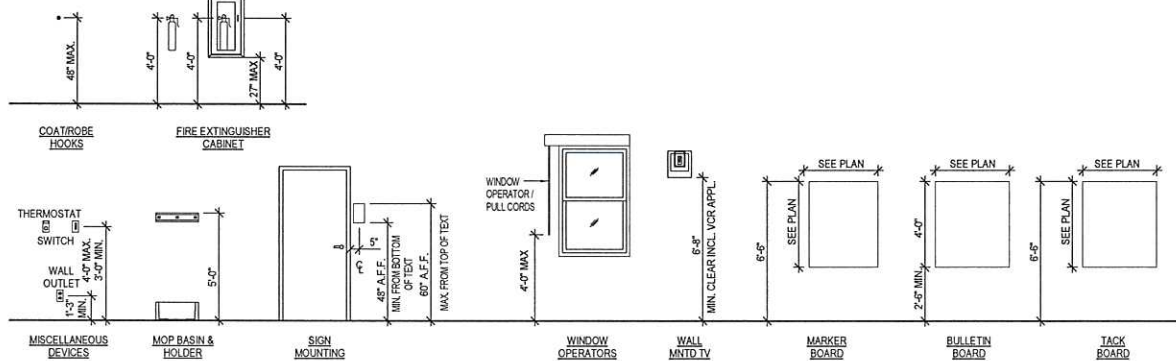
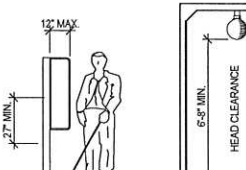
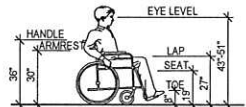
REVISIONS

Abbreviations,
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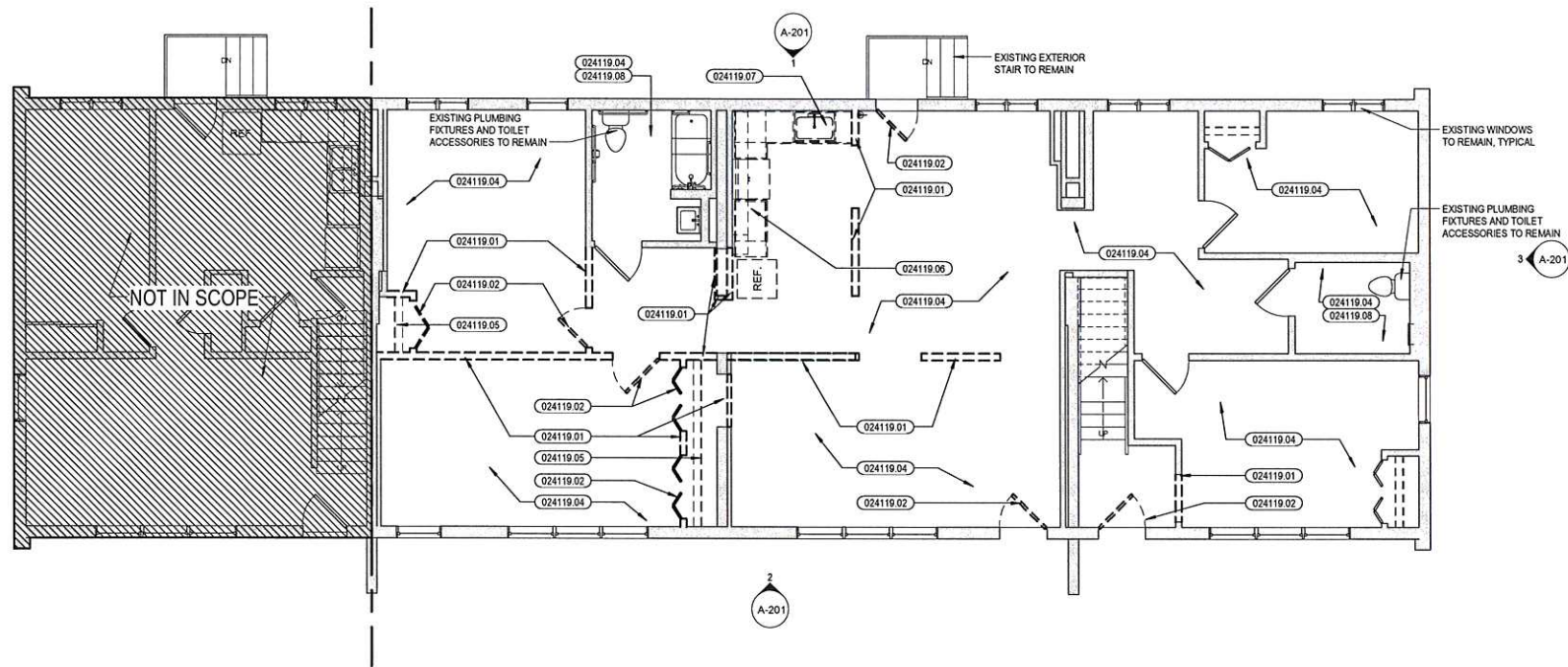
R3A PROJECT # 18019

A-001

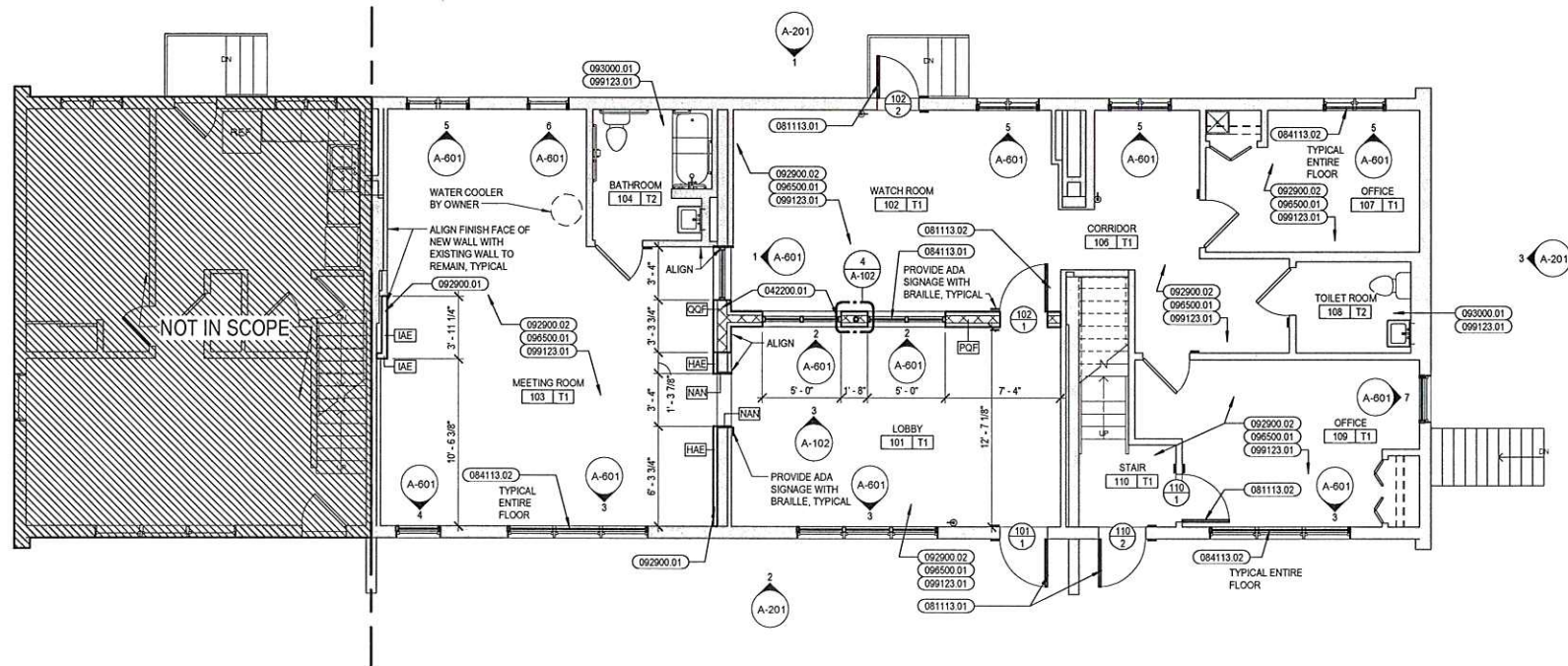
<p>STANDARD MOUNTING HEIGHTS-GENERAL NOTES</p> <p>1. THE DETAILS AND NOTES ON THIS SHEET ARE "TYPICAL," AND ARE TO BE USED BY THE CONTRACTOR FOR REFERENCED HEIGHTS SHOWN ANYWHERE ELSE IN THIS SET OF CONSTRUCTION DOCUMENTS. THESE DETAILS ARE NOT NECESSARILY REFERENCED CONDITIONS.</p> <p>2. THESE DIAGRAMS ILLUSTRATES THE SPECIFIC REQUIREMENTS OF ACCESSIBILITY STANDARDS, TITLE 24 & ADA REQUIREMENTS AND IS INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.</p> <p>3. ALL MOUNTING HEIGHTS SHOWN ARE FROM ABOVE FINISH FLOOR, TO THE HIGHEST OPERABLE PART WHICH IS ESSENTIAL TO BASIC OPERATION OF THE DEVICE SHOWN. (CRITICAL FOR ADA COMPLIANCE)</p> <p>4. ALL CLEAR AREA DIMENSIONS SHOWN ARE FACE OF FINISH TO FACE OF FINISH. (CRITICAL FOR ADA COMPLIANCE)</p> <p>5. PROVIDE SEALANT AROUND ALL RECESSED RESTROOM EQUIPMENT</p> <p>6. PROVIDE 18 GA. BACKING OR WOOD BLOCKING AT ALL ACCESSORIES AND LAVATORY TOPS. AT GRAB BARS PROVIDE BLOCKING SECURED TO AT LEAST 3 STUDS.</p> <p>7. ALL TOILET PAPER DISPENSERS INSTALLED AT 7" MIN. TO 9" MAX IN FRONT OF WATER CLOSET</p> <p>8. BOTTOM OF MIRROR TO BE INSTALLED 38" ABOVE FLOOR OR MINIMUM OF 40" TO BOTTOM OF VIEWING SURFACE</p> <p>9. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF (22.2 N) FAUCETS LEVER-OPERATED, PUSH-TYPE AND ELECTRONICALLY SHALL COMPLY WITH 4.274 CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. IF SELF-CLOSING VALVES ARE USED THE FAUCET SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS</p> <p>10. DIMENSIONS SHOWN ARE TO CONTROLS OF ITEM OR THE ACTION REQUIRED TO USE THE INDICATED ITEM. VERTICAL DIMENSIONS ARE THE TOP OF GRAB BARS AND HORIZONTAL ARE TO THE CENTER LINE.</p> <p>11. REFER TO ENLARGED PLANS AND INTERIOR ELEVATIONS FOR FIXTURE LOCATIONS.</p> <p>12. UNLESS OTHERWISE NOTED, ALL TOILET ACCESSORIES ARE HORIZONTALLY DIMENSIONED TO CENTER LINE.</p>	<p>CANE RANGE</p> <p>CANE RANGE</p> <p>EYE LEVEL</p> <p>WHEELCHAIR REACH RANGES</p> <p>MINIMUM CLEARANCES</p>
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Standard Mounting Heights
1/4" = 1'-0"



2 First Floor Demolition Plan
3/16" = 1'-0"



1 First Floor New Work Plan
3/16" = 1'-0"

GENERAL CONSTRUCTION NOTES

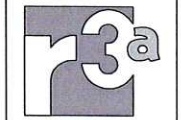
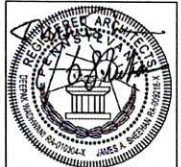
- WORK IS TO BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND INDUSTRY STANDARDS.
- THE ADJACENT BUILDINGS WILL BE OCCUPIED DURING DEMOLITION AND CONSTRUCTION. CONTRACTOR TO COORDINATE ANY REQUIRED UTILITY SHUT DOWNS WITH THE OWNER. CONTRACTOR TO PROVIDE TEMPORARY BARRICADES, PER APPROVAL OF BUILDING OWNER, TO PROTECT THE USERS AND EXISTING MATERIALS TO REMAIN. MEANS OF EGRESS ARE REQUIRED TO BE MAINTAINED THROUGHOUT DEMOLITION AND CONSTRUCTION.
- CONTRACTORS SHALL OBTAIN ALL REQUIRED PERMITS FROM ALL GOVERNING AGENCIES FOR CONSTRUCTION WORK, INSPECTIONS, AND TEMPORARY BARRIERS.
- PROVIDE CUTTING & PATCHING AS REQUIRED FOR INSTALLATION OF ALL NEW MATERIALS INDICATED ON THE CONTRACT DOCUMENTS. PATCHING SHALL RESTORE CONSTRUCTION TO ORIGINAL CONDITION AND PROVIDE A SMOOTH CONSISTENT FINAL SURFACE AFTER THE INSTALLATION OF OTHER WORK. THE CONTRACTOR IS TO COORDINATE THE EXTENT OF PATCHING WITH THE FINAL FINISHED REQUIREMENTS AND PROVIDE AND INSTALL MATERIALS AND SYSTEMS AS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS. REFER TO FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR COORDINATION.
- CONTRACTORS ARE REQUIRED TO PROTECT EXISTING BUILDING MATERIALS AND EQUIPMENT TO REMAIN FROM DAMAGED BY DEMOLITION AND CONSTRUCTION ACTIVITIES. EXISTING OR NEWLY INSTALLED BUILDING MATERIALS AND EQUIPMENT THAT ARE DAMAGED DURING THE PERFORMANCE OF DEMOLITION AND NEW CONSTRUCTION WORK SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF HACP'S REPRESENTATIVE AND ARCHITECT. WHERE ITEMS HAVE BEEN DEMOLISHED, ADJACENT CONSTRUCTION, EITHER NEW OR EXISTING, SHALL BE PREPARED, PATCHED, FINISHED AND/OR REFINISHED TO MATCH THE ADJACENT SURFACE TO REMAIN WHERE APPLICABLE, UNLESS OTHERWISE NOTED. EACH PRIME CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING THEIR SCOPE OF WORK.
- HAZARDOUS MATERIALS ARE NOT ANTICIPATED NOTIFY OWNER & ARCHITECT OF ANY ASBESTOS MATERIALS THAT ARE UNCOVERED DURING DEMOLITION.
- OWNER HAS THE RIGHT OF FIRST OF REFUSAL FOR ALL SALVAGEABLE MATERIALS.
- PROVIDE NEGATIVE AIR CONDITIONS THROUGHOUT DEMOLITION AND CONSTRUCTION.
- PROVIDE BRACING AND SHORING FOR BEARING WALLS AS REQUIRED FOR TEMPORARY SUPPORT DURING CUTTING AND PATCHING, AND FOR STRUCTURAL EXAMINATION DURING SELECTIVE DEMOLITION. SHORE, BRACE, UNDERPIN OR OTHERWISE SUPPORT STRUCTURE WHICH MAY BE TEMPORARILY WEAKENED BY WORK.
- MATERIAL DEBRIS IS TO BE REMOVED AND LEGALLY DISPOSED OF FROM THE SITE BY THE CONTRACTOR. CONTRACTORS SHALL ASSUME COSTS FOR DISPOSAL AND OR RECYCLING OF DEBRIS INCLUDING ON SITE DISPOSAL CONTAINERS.
- PROVIDE PROGRESS CLEANING ON A REGULAR BASIS TO KEEP THE PROJECT SITE CLEAR OF TRASH AND CONSTRUCTION DEBRIS.
- PROVIDE ADA COMPLIANT SIGNAGE AT ALL ROOMS.
- USE OF SITE: LIMIT USE OF PROJECT SITE TO WORK IN AREAS INDICATED ON THE DRAWINGS. DO NOT DISTURB PORTIONS OF THE SITE BEYOND AREAS IN WHICH THE WORK IS INDICATED.
- REMOVE AND DISCARD EXISTING FINISHES NOT NOTED TO BE REMOVED AS REQUIRED TO COMPLETE WORK. WHERE EXISTING FINISH IS REMOVED, REMOVE IN ENTRY DOWN TO THE SUBSTRATE AND PREPARE SUBSTRATE SMOOTH AND LEVEL FOR FINISH REPLACEMENT FINISHES. COORDINATE WITH FINISH SCHEDULES, DRAWINGS AND SPECIFICATIONS WITH OTHER DISCIPLINES AND TRADES.
- WHERE FINISHES ARE INDICATED TO BE INSTALLED OVER EXISTING FINISHES, ETCH, SCARIFY OR OTHERWISE PREPARE EXISTING FINISHES TO RECEIVE FINISHES. ENSURE WARRANTY COMPLIANCE.
- INTERIOR DIMENSION ARE FROM FACE OF FINISH WALL TO FACE OF FINISHED WALL, UNLESS NOTED OTHERWISE. DIMENSIONS CONNECT COLUMN LINES, FACE OF BRICK, FACE OF METAL SIDING. REFER TO WALL TYPES AND WALL SECTIONS FOR THICKNESS OF WALLS.
- CONTRACTOR SHALL PROVIDE APPROPRIATE AND LEVEL SUBSURFACE FOR FINISH MATERIAL.
- CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES AND OTHER TEMPORARY FACILITIES TO PROTECT THE PUBLIC, STORED MATERIALS AND INSTALLED MATERIALS.
- REFER TO LIFE SAFETY PLANS ON SHEET G-101 FOR LOCATION AND EXTENT OF FIRE RATED ASSEMBLIES.
- REFER TO SHEET A-601 FOR TYPICAL WALL TYPES, WINDOW TYPES, AND DOOR TYPES & INFO.
- NOT USED.
- PROVIDE 18 GA. STEEL BACKING OR WOOD BLOCKING FOR MOUNTING CASEWORK, SHELVING, EQUIPMENT, FUTURE FURNITURE AND OTHER WALL MOUNTED ITEMS; SECURE PROVIDED BLOCKING TO AT LEAST 3 STUDS BUT NOT LESS THAN WIDTH REQUIRED. PROVIDE BLOCKING WHETHER CASEWORK, EQUIPMENT OR FURNITURE, ARE PROVIDED OR INSTALLED BY CONTRACTOR, OWNER OR THIRD PARTY. COORDINATE LOCATION OF BLOCKING WITH OWNER'S FURNITURE INSTALLER AND DRAWINGS.
- MEANS OF EGRESS ARE REQUIRED TO BE MAINTAINED AT ALL TIMES THROUGHOUT DEMOLITION AND CONSTRUCTION.
- CONTRACTOR TO VERIFY DIMENSIONS, QUANTITIES AND CONDITIONS IN FIELD AT JOB SITE AND NOTIFY ARCHITECT & ENGINEER OF DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS PRIOR TO BEFORE COMMENCING WORK.
- COORDINATE ACCESS PANEL LOCATIONS & TYPE REQUIRED WITH M.P.E. DRAWINGS & EXISTING GYPSUM BOARD CEILING.
- EXISTING FIRE EXTINGUISHERS SHALL REMAIN ACCESSIBLE AND OPERATIONAL DURING RELOCATION OR REPLACEMENT OF THE MOUNTING BRACKETS.

REFERENCED DEMOLITION NOTES

MARK	DESCRIPTION
024119.01	DEMOLISH INTERIOR PARTITION. PATCH AND PREPARE EXPOSED SURFACES TO REMAIN TO RECEIVE NEW FINISHES. COORDINATE DEMOLITION AND/OR RELOCATION OF STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING ELEMENTS WITHIN THE WALLS. REFER TO SHEET DRAWINGS FOR DEMOLITION SCOPE.
024119.02	DEMOLISH DOORS, FRAMES AND HARDWARE. PREPARE EXISTING OPENING TO REMAIN FOR NEW DOOR, FRAME AND HARDWARE.
024119.04	DEMOLISH FLOOR AND ADHESIVE. PATCH AND PREPARE SUBFLOORING AS NEEDED TO PROVIDE CONSISTENT SURFACE FOR NEW FLOORING.
024119.05	DEMOLISH SHELVING AND PATCH AND PREPARE EXISTING WALLS TO REMAIN TO RECEIVE NEW FINISH.
024119.06	DEMOLISH KITCHEN CASEWORK INCLUDING COUNTERTOP, BACKSPLASH, WALL CABINETS AND BASE CABINETS. PATCH AND PREPARE EXISTING WALLS TO REMAIN TO RECEIVE NEW FINISHES.
024119.07	DEMOLISH KITCHEN SINK, CUT AND CAP DOMESTIC HOT AND COLD WATER AND SANITARY LINES IN WALL. COORDINATE ANY ELECTRICAL DEMOLITION AS NEEDED.
024119.08	DEMOLISH DAMAGED PLYWOOD SUBFLOOR. PATCH AND PREPARE SUBFLOORING AS NEEDED TO PROVIDE CONSISTENT SURFACE FOR NEW FLOORING.

REFERENCED CONSTRUCTION NOTES

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042200.01	PROVIDE CONCRETE MASONRY UNIT PARTITION, REFER TO WALL TYPE ON SHEET A-601.
042200.02	PROVIDE CONCRETE MASONRY UNIT INFILL IN EXISTING MASONRY OPENING WHERE WINDOWS WERE REMOVED.
081113.01	PROVIDE INSULATED HOLLOW METAL DOOR AND FRAME IN EXISTING MASONRY OPENING. REFER TO DOOR TYPES AND SCHEDULES ON SHEET A-601. MODIFY EXISTING OPENING AS REQUIRED TO MAINTAIN CODE REQUIRED DOOR WIDTH - PAINT.
081113.02	PROVIDE HOLLOW METAL DOOR, FRAME AND HARDWARE. REFER TO DOOR TYPES AND SCHEDULES ON SHEET A-601 - PAINT.
084113.01	PROVIDE BULLET RESISTANT GLAZING AND HOLLOW METAL FRAMING ASSEMBLY.
084113.02	PROVIDE BULLET RESISTANT GLAZING AND HOLLOW METAL FRAMING ASSEMBLY AT ALL EXTERIOR WINDOWS AND REINFORCE WALL FRAMING AND SUPPORT BELOW AS REQUIRED FOR ADDITIONAL WEIGHT. REFER TO STRUCTURAL DRAWINGS. COORDINATE EXISTING OPENING SIZE AND AVAILABLE DEPTH FOR FRAME IN THE FIELD AND VERIFY WITH VENDOR PRIOR TO INSTALLATION.
092900.01	PROVIDE INTERIOR GYPSUM WALL BOARD PARTITION AS INDICATED PER THE DESIGNATED WALL TILE.
092900.02	PROVIDE INTERIOR GYPSUM BOARD AT CEILING TO PATCH DUE DEMOLITION AND CONSTRUCTION ACTIVITIES AS REQUIRED.
093000.01	PROVIDE PORCELAIN TILE, COVE BASE WITH BULLNOSE TOP EDGE, THINSET AND GROUT OVER NEW CEMENT BOARD UNDERLAYMENT. COORDINATE WITH NEW SUBFLOOR.
096500.01	PROVIDE RESILIENT FLOORING AND APPROPRIATE ADHESIVE PER EXISTING SUBFLOOR AND COMPATIBLE WALL BASE.
099123.01	PROVIDE PAINT ON ALL EXPOSED WALL AND CEILING SURFACES, NEW DOORS, DOOR FRAMES AND WINDOW FRAMES. PREPARE WALLS AND CEILINGS AS NEEDED FOR SMOOTH AND CONSISTENT SURFACE.



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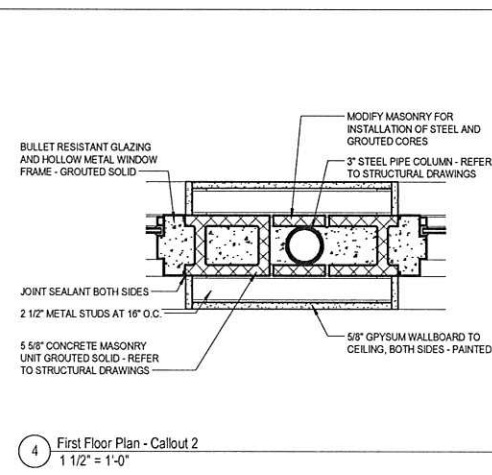
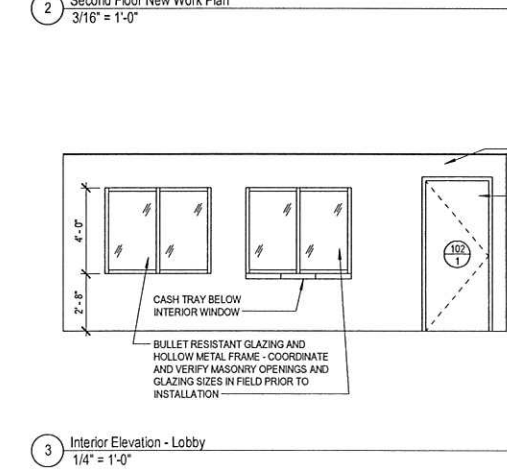
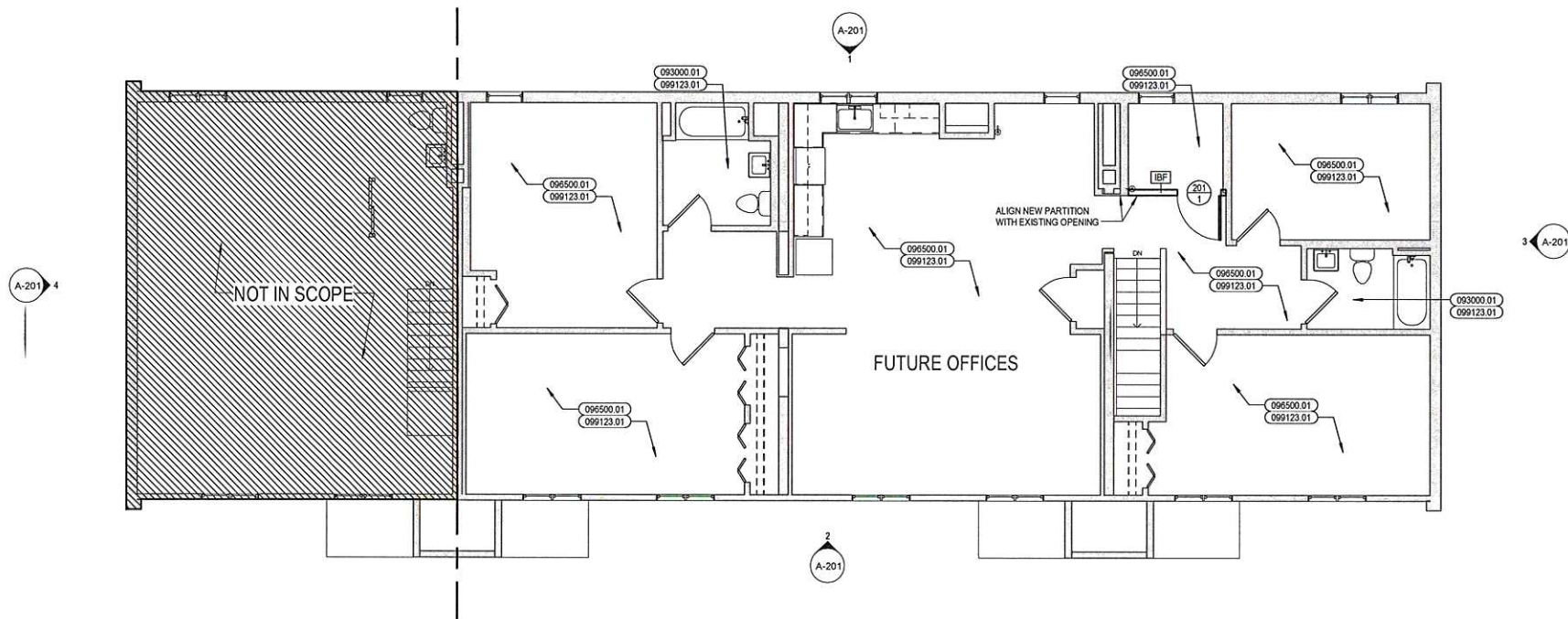
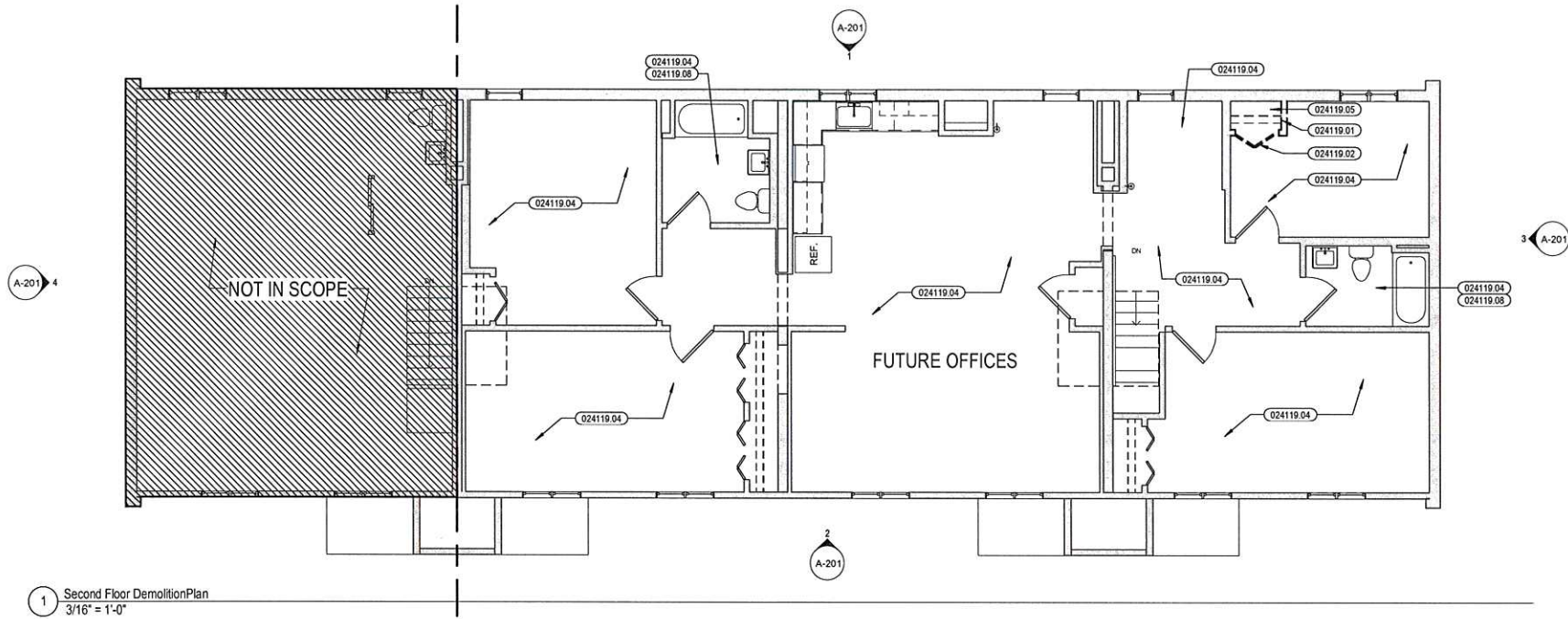
Construction
Documents

ISSUED: 4-12-18
REVISIONS

First Floor
Demolition and
New Work Plan

R3A PROJECT # 18019

A-101



GENERAL CONSTRUCTION NOTES	
1	WORK IS TO BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND INDUSTRY STANDARDS.
2	THE ADJACENT BUILDINGS WILL BE OCCUPIED DURING DEMOLITION AND CONSTRUCTION. CONTRACTOR TO COORDINATE ANY REQUIRED UTILITY SHUT DOWNS WITH THE OWNER. CONTRACTOR TO PROVIDE TEMPORARY BARRICADES, PER APPROVAL OF BUILDING OWNER, TO PROTECT THE USERS AND EXISTING MATERIALS TO REMAIN. MEANS OF EGRESS ARE REQUIRED TO BE MAINTAINED THROUGHOUT DEMOLITION AND CONSTRUCTION.
3	CONTRACTORS SHALL OBTAIN ALL REQUIRED PERMITS FROM ALL GOVERNING AGENCIES FOR CONSTRUCTION WORK, INSPECTIONS, AND TEMPORARY BARRIERS.
4	PROVIDE CUTTING & PATCHING AS REQUIRED FOR INSTALLATION OF ALL NEW MATERIALS INDICATED ON THE CONTRACT DOCUMENTS. PATCHING SHALL RESTORE CONSTRUCTION TO ORIGINAL CONDITION AND PROVIDE A SMOOTH CONSISTENT FINAL SURFACE AFTER THE INSTALLATION OF OTHER WORK. THE CONTRACTOR IS TO COORDINATE THE EXTENT OF PATCHING WITH THE FINAL FINISHED REQUIREMENTS AND PROVIDE AND INSTALL MATERIALS AND SYSTEMS AS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS. REFER TO FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR COORDINATION.
5	CONTRACTORS ARE REQUIRED TO PROTECT EXISTING BUILDING MATERIALS AND EQUIPMENT TO REMAIN FROM DAMAGED BY DEMOLITION AND CONSTRUCTION ACTIVITIES. EXISTING OR NEWLY INSTALLED BUILDING MATERIALS AND EQUIPMENT THAT ARE DAMAGED DURING THE PERFORMANCE OF DEMOLITION AND NEW CONSTRUCTION WORK SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF HACP'S REPRESENTATIVE AND ARCHITECT. WHERE ITEMS HAVE BEEN DEMOLISHED, ADJACENT CONSTRUCTION, EITHER NEW OR EXISTING, SHALL BE PREPARED, PATCHED, FINISHED AND/OR REFINISHED TO MATCH THE ADJACENT SURFACE TO REMAIN WHERE APPLICABLE. UNLESS OTHERWISE NOTED, EACH PRIME CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING THEIR SCOPE OF WORK.
6	HAZARDOUS MATERIALS ARE NOT ANTICIPATED NOTIFY OWNER & ARCHITECT OF ANY ASBESTOS MATERIALS THAT ARE UNCOVERED DURING DEMOLITION.
7	OWNER HAS THE RIGHT OF FIRST REFUSAL FOR ALL SALVAGEABLE MATERIALS.
8	PROVIDE NEGATIVE AIR CONDITIONS THROUGHOUT DEMOLITION AND CONSTRUCTION.
9	PROVIDE BRACING AND SHORING FOR BEARING WALLS AS REQUIRED FOR TEMPORARY SUPPORT DURING CUTTING AND PATCHING, AND FOR STRUCTURAL EXAMINATION DURING SELECTIVE DEMOLITION. SHORE, BRACE, UNDERPIN OR OTHERWISE SUPPORT STRUCTURE WHICH MAY BE TEMPORARILY WEAKENED BY WORK.
10	MATERIAL DEBRIS IS TO BE REMOVED AND LEGALLY DISPOSED OF FROM THE SITE BY THE CONTRACTOR. CONTRACTORS SHALL ASSUME COSTS FOR DISPOSAL AND OR RECYCLING OF DEBRIS INCLUDING ON SITE DISPOSAL CONTAINERS.
11	PROVIDE PROGRESS CLEANING ON A REGULAR BASIS TO KEEP THE PROJECT SITE CLEAR OF TRASH AND CONSTRUCTION DEBRIS.
12	PROVIDE ADA COMPLIANT SIGNAGE AT ALL ROOMS.
13	USE OF SITE: LIMIT USE OF PROJECT SITE TO WORK IN AREAS INDICATED ON THE DRAWINGS. DO NOT DISTURB PORTIONS OF THE SITE BEYOND AREAS IN WHICH THE WORK IS INDICATED.
14	REMOVE AND DISCARD EXISTING FINISHES NOT NOTED TO BE REMOVED AS REQUIRED TO COMPLETE WORK. WHERE EXISTING FINISH IS REMOVED, REMOVE IN ENTIRETY DOWN TO THE SUBSTRATE AND PREPARE SUBSTRATE SMOOTH AND LEVEL FOR IN KIND REPLACEMENT FINISHES. COORDINATE WITH FINISH SCHEDULES, DRAWINGS AND SPECIFICATIONS. WITH OTHER DISCIPLINES AND TRADES.
15	WHERE FINISHES ARE INDICATED TO BE INSTALLED OVER EXISTING FINISHES, ETCH, SCARIFY OR OTHERWISE PREPARE EXISTING FINISHES TO RECEIVE FINISHES, ENSURE WARRANTY COMPLIANCE.
16	INTERIOR DIMENSION ARE FROM FACE OF FINISH WALL TO FACE OF FINISHED WALL, UNLESS NOTED OTHERWISE. DIMENSIONS CONNECT COLUMN LINES, FACE OF BRICK, FACE OF METAL SIDING. REFER TO WALL TYPES AND WALL SECTIONS FOR THICKNESS OF WALLS.
17	CONTRACTOR SHALL PROVIDE APPROPRIATE AND LEVEL SUBSURFACE FOR FINISH MATERIAL.
18	CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES AND OTHER TEMPORARY FACILITIES TO PROTECT THE PUBLIC, STORED MATERIALS AND INSTALLED MATERIALS.
19	REFER TO LIFE SAFETY PLANS ON SHEET G-101 FOR LOCATION AND EXTENT OF FIRE RATED ASSEMBLIES.
20	REFER TO SHEET A-601 FOR TYPICAL WALL TYPES, WINDOW TYPES, AND DOOR TYPES & INFO.
21	NOT USED
22	PROVIDE 16 GA. STEEL BACKING OR WOOD BLOCKING FOR MOUNTING CASEWORK, SHELVING, EQUIPMENT, FUTURE FURNITURE AND OTHER WALL MOUNTED ITEMS. SECURE PROVIDED BLOCKING TO AT LEAST 3 STUDS BUT NOT LESS THAN WIDTH REQUIRED. PROVIDE BLOCKING WHETHER CASEWORK, EQUIPMENT OR FURNITURE, ARE PROVIDED OR INSTALLED BY CONTRACTOR, OWNER OR THIRD PARTY. COORDINATE LOCATION OF BLOCKING WITH OWNER'S FURNITURE INSTALLER AND DRAWINGS.
23	MEANS OF EGRESS ARE REQUIRED TO BE MAINTAINED AT ALL TIMES THROUGHOUT DEMOLITION AND CONSTRUCTION.
24	CONTRACTOR TO VERIFY DIMENSIONS, QUANTITIES AND CONDITIONS IN FIELD AT JOB SITE AND NOTIFY ARCHITECT & ENGINEER OF DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS PRIOR TO BEFORE COMMENCING WORK.
25	COORDINATE ACCESS PANEL LOCATIONS & TYPE REQUIRED WITH M.P.E. DRAWINGS & EXISTING GYPSUM BOARD CEILING.
26	EXISTING FIRE EXTINGUISHERS SHALL REMAIN ACCESSIBLE AND OPERATIONAL DURING RELOCATION OR REPLACEMENT OF THE MOUNTING BRACKETS.

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081113.02	PROVIDE HOLLOW METAL DOOR, FRAME AND HARDWARE. REFER TO DOOR TYPES AND SCHEDULES ON SHEET A-601 - PAINT.
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092900.02	PROVIDE INTERIOR GYPSUM BOARD AT CEILING TO PATCH DUE DEMOLITION AND CONSTRUCTION ACTIVITIES AS REQUIRED.
093000.01	PROVIDE PORCELAIN TILE, COVE BASE WITH BULLNOSE TOP EDGE, THINSET AND GROUT OVER NEW CEMENT BOARD UNDERLAYMENT. COORDINATE WITH NEW SUBFLOOR.
090500.01	PROVIDE RESILIENT FLOORING AND APPROPRIATE ADHESIVE PER EXISTING SUBFLOOR AND COMPATIBLE WALL BASE.
099123.01	PROVIDE PAINT ON ALL EXPOSED WALL AND CEILING SURFACES, NEW DOORS, DOOR FRAMES AND WINDOW FRAMES. PREPARE WALLS AND CEILINGS AS NEEDED FOR SMOOTH AND CONSISTENT SURFACE.



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100 Ross Street, Suite 200, 2nd Floor
Pittsburgh, PA 15219

HACP Northview Heights Police Station-Task Order 71
441 Mt Pleasant Road
Pittsburgh, PA 15214

Construction Documents

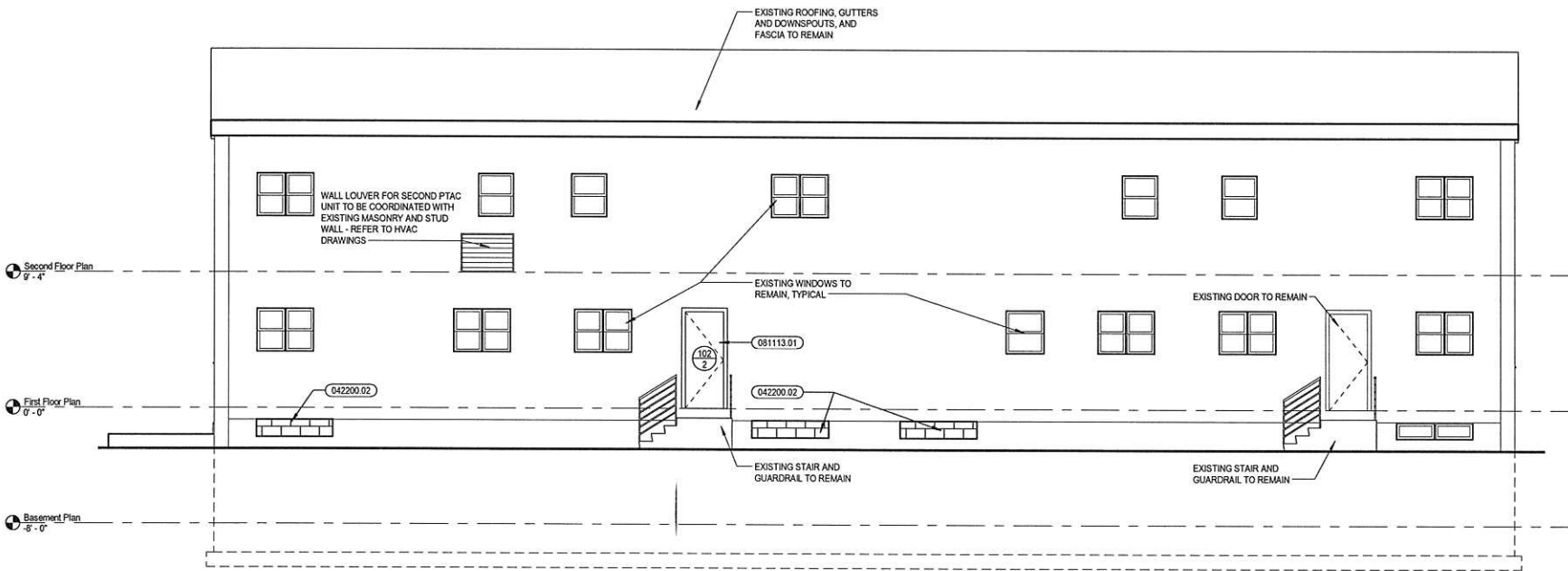
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REVISIONS

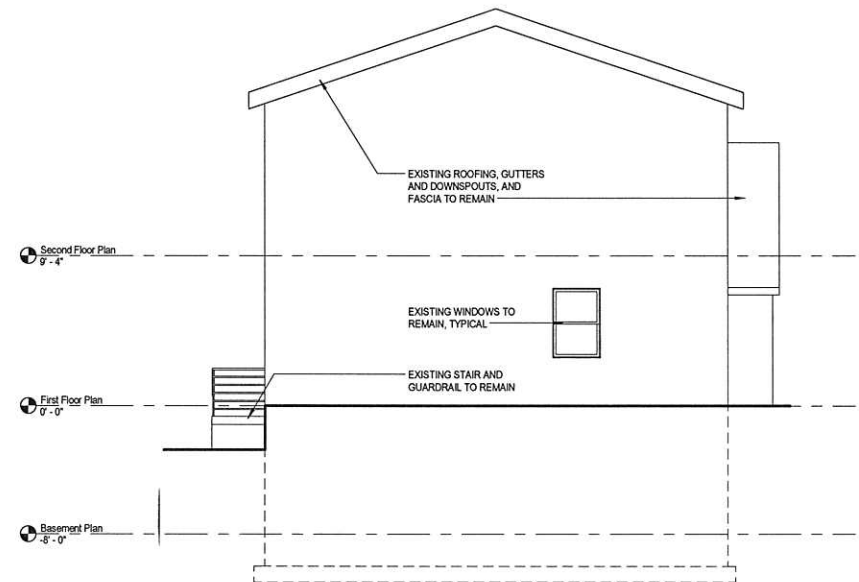
Second Floor Demolition and New Work Plans

R3A PROJECT # 18019

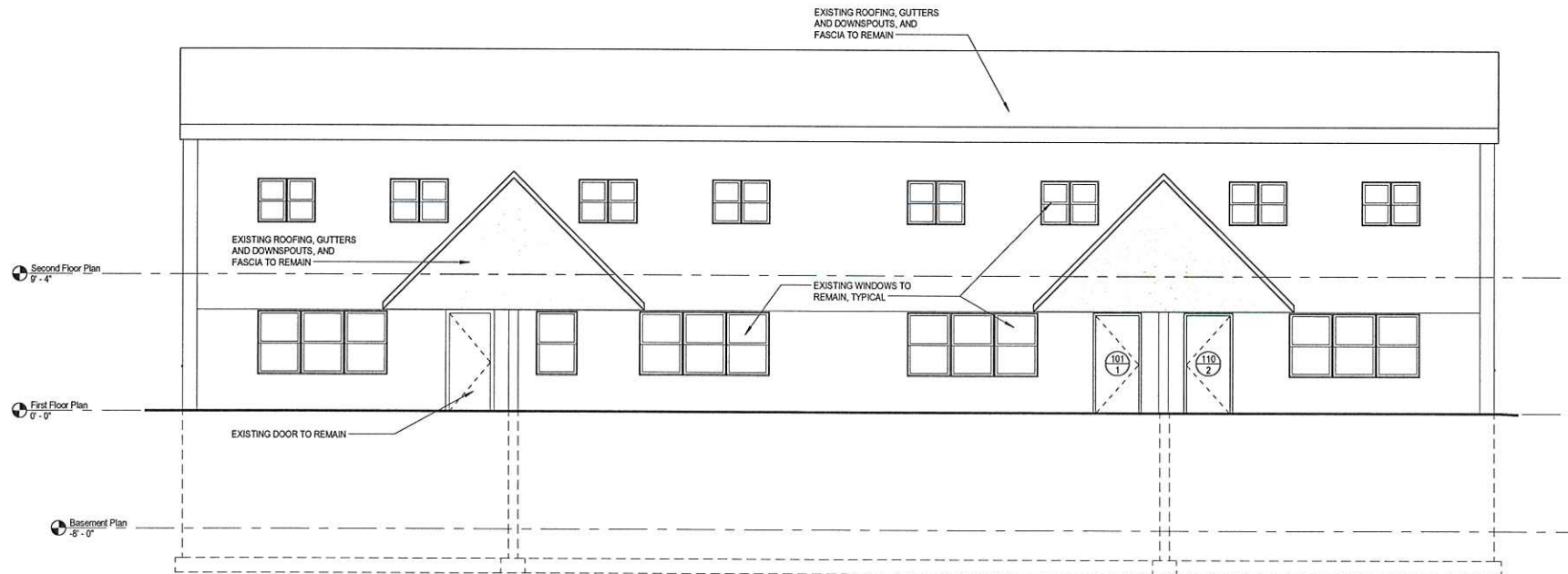
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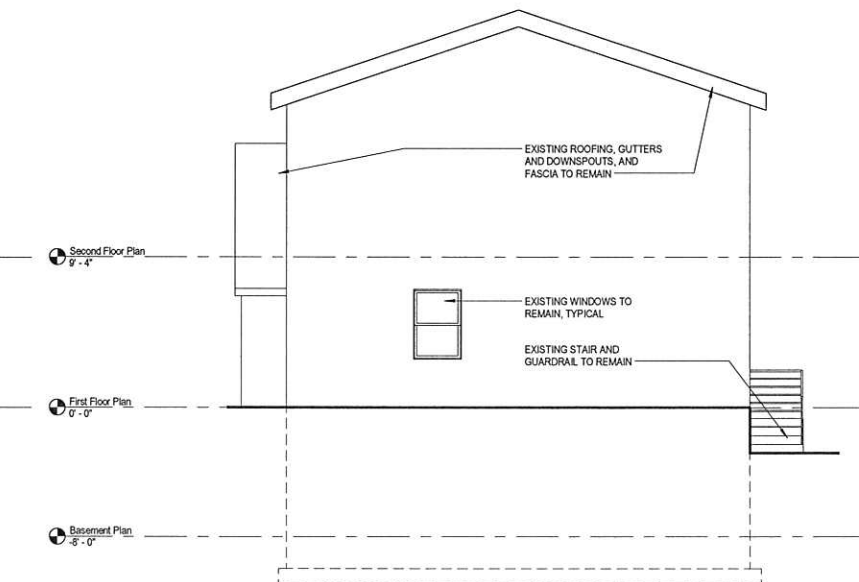
1 North Elevation
3/16" = 1'-0"



4 West Elevation
3/16" = 1'-0"

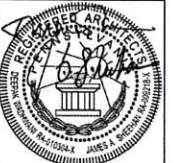


2 South Elevation
3/16" = 1'-0"



3 East Elevation
3/16" = 1'-0"

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Construction
Documents

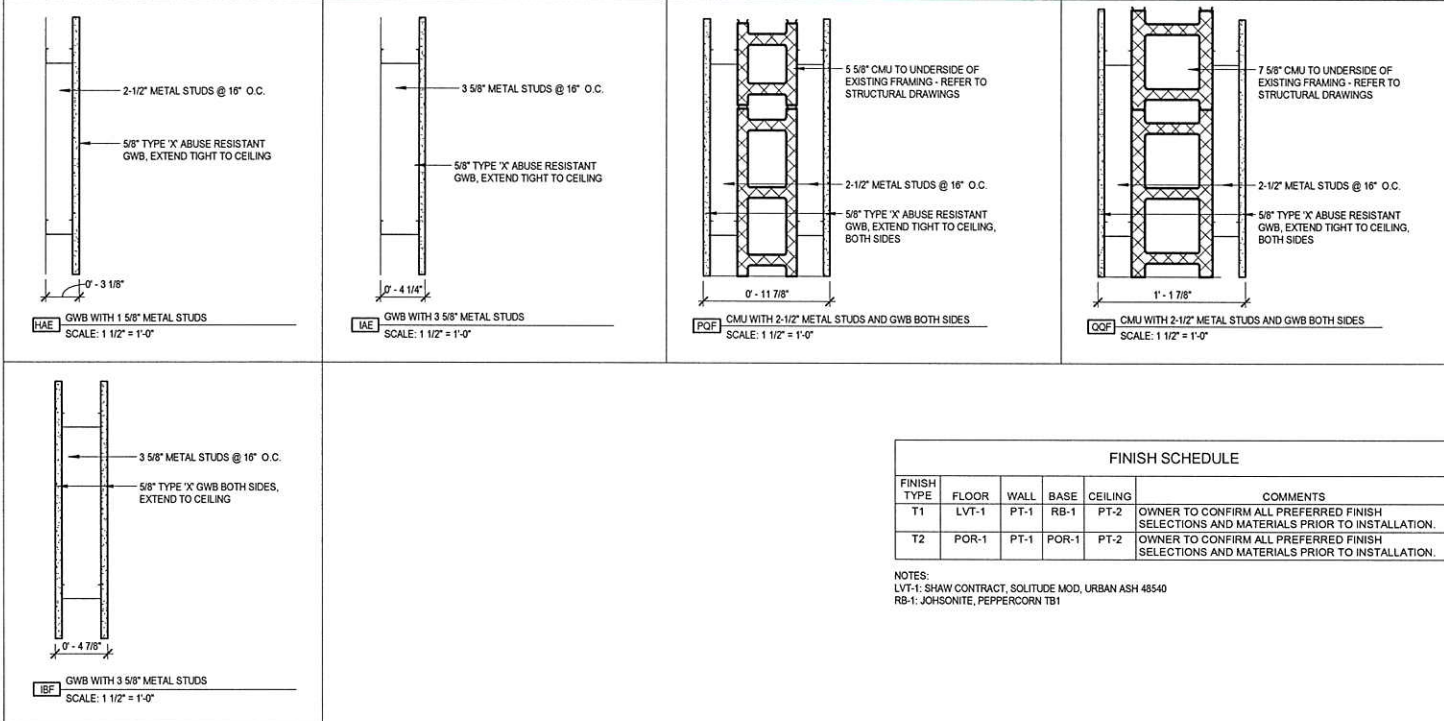
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REVISIONS

Exterior
Elevations

R3A PROJECT # 18019

A-201

WALL TYPE LEGEND



FINISH SCHEDULE					
FINISH TYPE	FLOOR	WALL	BASE	CEILING	COMMENTS
T1	LVT-1	PT-1	RB-1	PT-2	OWNER TO CONFIRM ALL PREFERRED FINISH SELECTIONS AND MATERIALS PRIOR TO INSTALLATION.
T2	POR-1	PT-1	POR-1	PT-2	OWNER TO CONFIRM ALL PREFERRED FINISH SELECTIONS AND MATERIALS PRIOR TO INSTALLATION.

NOTES:
LVT-1: SHAW CONTRACT, SOLITUDE MOD, URBAN ASH 48540
RB-1: JOHNSONITE, PEPPER CORN TB1

DOOR SCHEDULE

ROOM# DOOR#	NOMINAL DOOR SIZE			DOOR			FRAME			DETAILS		HOW SET	COMMENTS
	WIDTH	HEIGHT	THICK	TYPE	MATL	FINISH	RATING	TYPE	MATL	FINISH	HEAD	JAMB	
101 1	3'-0"	6'-8"	1 3/4"	A	INSULATED HOLLOW METAL	PAINT	-	F2	HOLLOW METAL	PAINT	H1	J1	4
102 1	3'-0"	7'-0"	1 3/4"	A	HOLLOW METAL	PAINT	-	F2	HOLLOW METAL	PAINT	H3	J3	3
102 2	2'-8"	6'-8"	1 3/4"	A	INSULATED HOLLOW METAL	PAINT	-	F1	HOLLOW METAL	PAINT	H1	J1	1
110 1	3'-0"	6'-8"	1 3/4"	B	HOLLOW METAL	PAINT	-	F1	HOLLOW METAL	PAINT	H2	J2	2
110 2	3'-0"	6'-8"	1 3/4"	A	INSULATED HOLLOW METAL	PAINT	-	F1	HOLLOW METAL	PAINT	H1	J1	1
201 1	3'-0"	6'-8"	1 3/4"	A	HOLLOW METAL	PAINT	-	F1	HOLLOW METAL	PAINT	H2	J2	5

HARDWARE SETS

HARDWARE SET #1 (EXTERIOR DOOR - REAR AND STAIR)

1.5 PR 5 KNUCKLE HEAVY DUTY HINGES WITH NON-REMOVABLE PINS
1.0 EXIT DEVICE
1.0 CLOSER SURFACE MOUNTED ON SECURE SIDE
1.0 CONTINUOUS WEATHER SEAL
1.0 SEAL PLATE
1.0 CONTINUOUS ASTRAGAL

NOTE:
EXIT DOOR ONLY - NO HARDWARE ON EXTERIOR OF DOOR

HARDWARE SET #2 (INTERIOR DOOR - OFFICE AND STAIR)

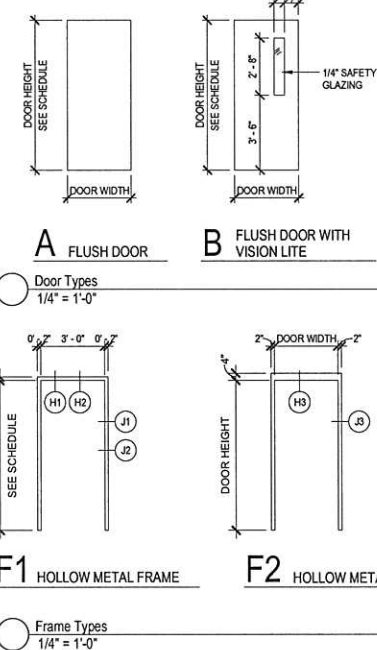
1.5 PR 5 KNUCKLE HEAVY DUTY HINGES
1.0 CYLINDRICAL LOCKSET - OFFICE FUNCTION LEVER WITH TURN KNOB, ADA HANDLES AND ROSE ESCUTCHEON PLATES
1.0 REMOVABLE CYLINDRICAL CORE
1.0 CLOSER SURFACE MOUNTED ON STAIR SIDE
1.0 CONTINUOUS WEATHER SEAL

HARDWARE SET #3 (INTERIOR DOOR - WATCH ROOM)

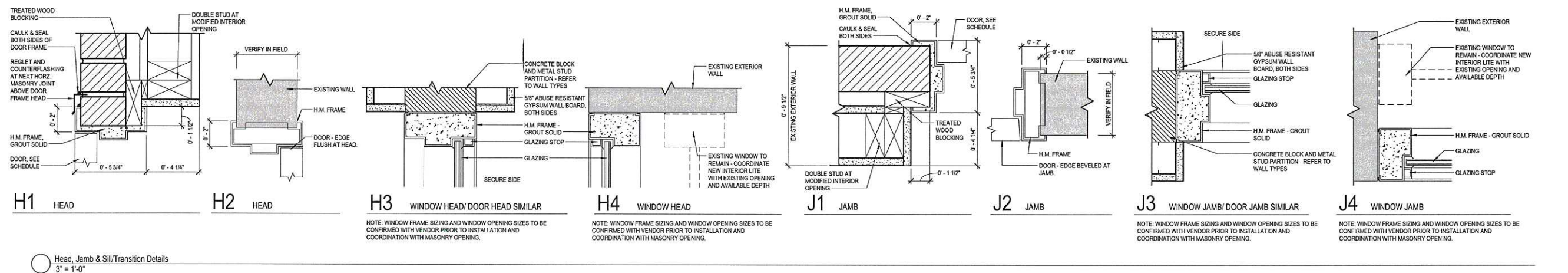
1.5 PR 5 KNUCKLE HEAVY DUTY HINGES WITH NON-REMOVABLE PINS
1.0 ENTRANCE LOCKSET WITH ADA LEVER HANDLE
1.0 REMOVABLE CYLINDRICAL CORE
1.0 EXIT DEVICE
1.0 CLOSER SURFACE MOUNTED ON SECURE SIDE
1.0 FLOOR STOP
1.0 ELECTRIC STRIKE
1.0 ELECTRIC POWER TRANSFER

GENERAL NOTE:
1. CONTRACTOR AND OWNER ARE COORDINATE ALL POWER REQUIRES, KEYING REQUIREMENTS, HARDWARE TYPES, SET COMPLETION, FINISHES AND AVAILABILITY WITH HARDWARE VENDOR PRIOR TO INSTALLATION.

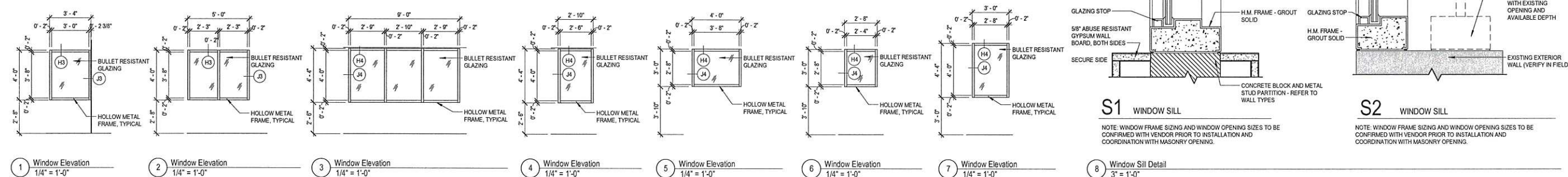
DOOR READER NOTES:
1. ACCESS CONTROL READER REQUEST TO EXIT SENSOR AND DOOR SECURITY PANELS ABOVE DOOR PROVIDED BY OWNERS VENDOR. CYLINDER CORE AND ELECTRIC STRIKE PROVIDED BY GC. DOOR TO BE FACTORY PREPARED FOR ELECTRIFIED HARDWARE. ELECTRIFIED WIRING WITHIN FRAME FOR ELECTRIFIED HARDWARE.
2. OPERATION: ACCESS FROM SECURE SIDE BY VALID CREDENTIAL OR KEY PASS.
3. INSIDE ACCESS TO BE FREE FOR EGRESS AT ALL TIMES.



Wall Types
1 1/2" = 1'-0"



Head, Jamb & Sill/Transition Details
3" = 1'-0"



Window Elevation
1/4" = 1'-0"

Window Elevation
1/4" = 1'-0"

Window Elevation
1/4" = 1'-0"

Window Elevation
1/4" = 1'-0"

Window Elevation
1/4" = 1'-0"

Window Elevation
1/4" = 1'-0"

Window Elevation
1/4" = 1'-0"

Window Sill Detail
3" = 1'-0"

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HACP Northview Heights Police Station-Task Order 71
441 Mt Pleasant Road
Pittsburgh, PA 15214

Construction Documents
ISSUED: 4-12-18
REVISIONS

Schedules, Types and Details

R3A PROJECT # 18019
A-601

GENERAL

- 1) DO NOT SCALE DRAWINGS.
- 2) ALL DETAILS, SECTIONS, AND NOTES SHOWN ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE SHOWN.
- 3) ALL CONTRACTORS SHALL REVIEW THE CONTRACT DOCUMENTS IN THEIR ENTIRETY PRIOR TO PROCEEDING WITH AN CONSTRUCTION OR THE PURCHASE OF ANY MATERIALS. IF DISCREPANCIES EXIST IN STRUCTURAL INFORMATION INDICATED ON THE CONTRACT DOCUMENTS OR BETWEEN STRUCTURAL CONTRACT DOCUMENTS AND ARCHITECTURAL AND MECHANICAL CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE PROJECT OF DISCREPANCIES FOR CORRECTIVE MEASURES PRIOR TO PROCEEDING.
- 4) THIS PROJECT HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE LIVE LOADS INDICATED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING, SHORING, ETC.
- 5) THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STRUCTURAL INTEGRITY OF EFFECTED EXISTING AND SURROUNDING STRUCTURES AT ALL TIMES. THE CONTRACTOR IS REQUIRED TO PROVIDE BRACING AND GUIDING OF PARTIAL WORK DURING THE CONSTRUCTION PERIOD.
- 6) DESIGN AND CONSTRUCTION DOCUMENTS ARE BASED UPON ASSUMPTIONS MADE FROM AVAILABLE ORIGINAL DRAWINGS AND FIELD INVESTIGATION. INFORMATION SHOWN MAY NOT NECESSARILY REFLECT ACTUAL CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY OR ESTABLISH THE FOLLOWING:
ALL DIMENSIONS AND ELEVATIONS
EXISTING CONDITIONS
EXISTING STRUCTURAL ARRANGEMENT AND SIZES IN WORK AREAS
- 7) THE CONTRACTOR SHALL NOTIFY THE PROJECT OF ANY DISCREPANCIES BETWEEN THE DESIGN DOCUMENTS AND ACTUAL CONDITIONS FOR CORRECTIVE MEASURES. ALL EXISTING DIMENSIONS AND CONDITIONS SHALL BE REFLECTED ON THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR REVIEW PRIOR TO PURCHASE AND FABRICATION OF ANY MATERIALS AND START OF CONSTRUCTION WORK.
- 8) PRIOR TO SHOP DRAWING SUBMISSION, THE CONTRACTOR SHALL INFORM THE PROJECT IN WRITING OF ANY SUBSTITUTIONS, DEVIATIONS OR OMISSIONS FROM THE CONTRACT DOCUMENTS. NO CHANGE IN SIZE, DIMENSIONS OR POSITION OF STRUCTURAL ELEMENTS SHALL BE MADE. NOR SHALL ANY OPENINGS OR SLEEVES BE PERMITTED THROUGH ANY STRUCTURAL ELEMENT, WITHOUT THE PRIOR WRITTEN CONSENT OF THE ENGINEER-OF-RECORD.
- 9) SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS SHALL BE SUBMITTED BY THE CONTRACTOR AND REVIEWED BY THE PROJECT. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS BEFORE SUBMITTING AND/OR RESUBMITTING TO THE STRUCTURAL ENGINEER-OF-RECORD AND MAKE ALL CORRECTIONS AS THEY DEEM NECESSARY.
- INCOMPLETE OR PARTIAL SUBMITTALS AND SUBMITTALS WITHOUT REQUIRED P.E. SEALS AND ACCOMPANYING P.E. SEALED STRUCTURAL CALCULATIONS WILL BE RETURNED WITHOUT REVIEW.
- 10) CONTRACTOR SHALL PROVIDE AN ESTIMATED SCHEDULE FOR THE SUBMITTAL OF ALL STRUCTURAL SHOP DRAWINGS IN ADVANCE. ADDITIONAL TIME FOR REVIEW OF LARGE NUMBERS OF SHOP DRAWINGS WILL BE REQUIRED BY THE CONSULTANTS AND SUB-CONSULTANTS.
- FAILURE TO SUBMIT A SCHEDULE WILL RESULT IN LONGER REVIEW TIMES.
- 11) REPRODUCTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR USE AS SHOP DRAWINGS SHALL NOT BE PERMITTED.

DESIGN BASIS

BUILDING IS DESIGN UNDER THE INTERNATIONAL BUILDING CODE 2009 EDITION .
BUILDING OCCUPANCY CATEGORY _____ II

LIVE LOADS	
ROOF	30 PSF
OFFICES	50 PSF
CORRIDORS	60 PSF
PARTITIONS	20 PSF

SNOW DESIGN DATA PER IBC 2009:
GROUND SNOW LOAD, P_g = 25 PSF. SNOW DRIFT APPLIES
SNOW EXPOSURE C_e = 1.0
SNOW LOAD IMPORTANCE FACTOR I_s = 1.0
THERMAL FACTOR C_t = 1.0

WIND DESIGN DATA PER IBC 2009:
BASIC WIND SPEED 90 MPH
WIND IMPORTANCE FACTOR I_w = 1.0
BUILDING MAIN WINDFORCE RESISTING SYSTEM WIND EXPOSURE B
COMPONENTS & CLADDING WIND EXPOSURE C
NET UPLIFT WIND AT CANOPIES WIND EXPOSURE C

EARTHQUAKE DESIGN DATA PER IBC 2009:
SEISMIC IMPORTANCE FACTOR I_e = 1.0
SEISMIC USE GROUP 1
MAPPING SPECTRAL RESPONSE ACCELERATIONS:
 S_s = 12.5%
 S_1 = 5.9%
SITE CLASS C
SPECTRAL RESPONSE COEFFICIENTS:
 S_{ds} = 10%
 S_{d1} = 6.6%
SEISMIC DESIGN CATEGORY = A
BASIC SEISMIC FORCE RESISTING SYSTEM = STRUCTURAL STEEL NOT DETAILED FOR SEISMIC
DESIGN BASE SHEAR = 7.5 KIPS
ANALYSIS PROCEDURE PER ASCE 7 SECTION 11.7

INSPECTION

- 1) THE OWNER SHALL RETAIN A CERTIFIED INDEPENDENT INSPECTION AGENCY TO INSPECT / MONITOR / TEST ITEMS PER IBC CHAPTER 1704 AND AS LOCAL CODE OFFICIALS REQUIRE.
- | | | |
|------------------------------|-------------|----------|
| REQUIRED SPECIAL INSPECTIONS | IBC SECTION | TABLE |
| STEEL CONSTRUCTION | 1704.3 | 1704.3 |
| CAST IN PLACE CONCRETE | 1704.4 | 1704.4 |
| MASONRY - LEVEL 1 | 1704.5 | 1704.5.1 |
- TESTING AND INSPECTION AGENCIES SHALL PROVIDE CERTIFICATION LETTER FOR EACH COMPONENT NEEDED.
- 2) TESTING AND INSPECTION REPORTS SHALL BE ASSEMBLED INTO WEEKLY REPORTS AND FORWARDED IN A TIMELY MANNER. DEFICIENCY REPORTS SHALL BE FORWARDED WITHIN 24 HOURS FOR REVIEW.
- 3) PERIODIC SIDE VISITS BY THE ARCHITECT AND ENGINEER DOES NOT REPLACE THE REQUIREMENTS FOR INSPECTION AND TESTING.
- 4) INDEPENDENT INSPECTION IS NOT A SUBSTITUTE FOR INSPECTIONS BY THE LOCAL CODE INSPECTOR OR ENFORCEMENT AGENCY.
- 5) CONTRACTORS ARE TO COORDINATE AND GIVE FULL ACCESS TO ALL INSPECTORS WITH ADEQUATE NOTICE OF WORK BEING PERFORMED. WORK INSTALLED WITHOUT THE APPROVAL OR REVIEW FROM THE LOCAL CODE INSPECTOR AND INDEPENDENT INSPECTION AGENT IS SUBJECT TO REMOVAL.

FOUNDATIONS

- 1) THE FOUNDATIONS SHOWN HAVE BEEN DESIGNED UTILIZING THE PRESUMPTIVE LOAD BEARING VALUES OF SOILS AS INDICATED IN THE 2009 INTERNATIONAL BUILDING CODE SECTION 1806.
MINIMUM ALLOWABLE BEARING PRESSURE = 1500 PSF
SITE CLASS D
- 2) THE ASSUMED MINIMUM ALLOWABLE SOIL BEARING PRESSURE SHALL BE CONFIRMED IN THE FIELD DURING CONSTRUCTION BY A QUALIFIED SOILS ENGINEER REGISTERED IN THE COMMONWEALTH OF PENNSYLVANIA AND RETAINED BY THE GENERAL CONTRACTOR PRIOR TO FOOTING PLACEMENT. IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, THE GENERAL CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER FOR FOUNDATION REDESIGN PRIOR TO PROCEEDING.
- 3) ALL FOOTINGS SHALL BE PROOF ROLLED WITH SOFT OR UNSUITABLE MATERIAL REMOVED. REBUILD OVER EXCAVATION WITH ENGINEERED FILL CLSM MATERIAL.
- 4) INITIAL EXCAVATIONS SHALL PROCEED IN A MANNER TO LOCATE AND PROTECT ALL EXISTING UTILITIES. PROVIDE TEMPORARY SUPPORTS FOR ALL EXISTING UTILITIES IN EXCAVATIONS AS MAY BE REQUIRED BY THE UTILITIES UNTIL THEY ARE RELOCATED OR RETURNED TO THEIR INTIAL SUPPORT CONDITIONS. COORDINATE ALL EXCAVATION WORK WITH UTILITY RELOCATIONS AND FOUNDATION CONSTRUCTION.
- 5) ALL BRACING, SHORING, UNDERPINNING, ETC. SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF PENNSYLVANIA AND EMPLOYED BY THE GENERAL CONTRACTOR.
- 6) CLSM (CONTROLLED LOW SLUMP MATERIAL / LEAN CONCRETE) IS TO BE NORMAL WEIGHT DENSITY , SELF LEVELING MATERIAL AND PROVIDE MINIMUM COMPRESSIVE STRENGTH IN 14 DAYS. W/C RATIO IS NOT A DESIGN LIMITATION BUT SUPPLIER SHOULD PROVIDE FLOW SPREAD DIAMETER AND MIX DESIGN FOR APPROVAL.

MATERIAL	F'C	MIN SPREAD	RIPPLEABLE
FILL BELOW FOOTINGS	1000 PSI	8"	NO

CONCRETE

- 1) ALL CONCRETE SHALL BE IN ACCORDANCE TO ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- 2) NORMAL WEIGHT CONCRETE (144 PCF) WITH A MINIMUM OF 5 1/2 SACS PER CUYD AND THE FOLLOWING REQUIREMENTS: W/C AT TIME OF PLACEMENT, SLUMP BEFORE ADDITION OF WATER REDUCING ADMIXTURE, F'C - MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS, AIR - % AIR ENTRAINED (+1-1%) (TOWELED FINISHES ARE TO TO HAVE AIR ENTRAINMENT)
- | MATERIAL | W/C | SLUMP | F'C | AIR |
|------------------------------|-----|-------|----------|-----|
| INTERIOR SLAB ON GRADE | .50 | 5" | 3000 PSI | 0% |
| FOOTINGS, WALLS, PIERS, ECT. | .50 | 5" | 4000 PSI | N/A |
- 3) REINFORCEMENT
REINFORCED BARS _____ A.S.T.M. A615-GRADE 60
WELDED WIRE FABRIC _____ A.S.T.M. A185
- 4) SPLICES IN REINFORCING SHALL BE MADE ACCORDING TO ACI 318, CHAPTER 12
- 5) ALL REINFORCEMENT DESIGNS FOR BENDS, COVER, AND PLACEMENT TO MEET REQUIREMENTS OF ACI 318, CHAPTER 7
- 6) NO ELECTRICAL CONDUIT SHALL BE PLACED IN FRAMED CONCRETE SLABS.
- 7) ALL CONCRETE BRACING, SHORING, AND RESHORING SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF PENNSYLVANIA AND EMPLOYED BY THE GENERAL CONTRACTOR. THIS INCLUDES QUALIFICATION TO THE ADEQUACY AND STABILITY OF SHORING BEARING SUBSTRATE.
- 8) PROVIDE VERTICAL SLOTS FOR DOVETAIL MASONRY ANCHORS WHERE MASONRY ABUTS OR FACES CONCRETE WALL OR PIER.
- 9) CONTRACTOR TO SUBMIT FOR REVIEW:
DESIGN MIXES FOR EACH CONCRETE MIXTURE - READY MIX PROPORTION SHEETS
WITH PLANT TRIAL MIX STRENGTH TESTS PER ACI 301.
STEEL REINFORCEMENT SHOP DRAWINGS: PLACING AND DETAIL FABRICATION WITH BENDING.
LOCATION AND DETAILING OF ALL WALL, BEAM, AND SUSPENDED SLAB CONSTRUCTION JOINTS.
PLAN AND METHOD FOR ALL SLAB ON GRADE CONTROL AND CONSTRUCTION JOINTS
PREFERRED CONCRETE POUR SEQUENCE
- 10) EPOXY ANCHORS DESIGN BASIS ARE HILTI HIT-HY 150 ADHESIVE AND 3/4"Ø HAS-E RODS.
MINIMUM CONTROL FACTORS FOR INSTALLATION AND PLACEMENT ARE:
EMBEDMENT = 6 5/8"
SPACING > 8"
EDGE DISTANCE > 8"
ANCHOR SUBSTITUTIONS MUST MEET OR EXCEED DESIGN BASIS CAPACITIES

MASONRY

- 1) ALL MASONRY WORK SHALL BE IN CONFORMANCE WITH THE "SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD-BEARING CONCRETE MASONRY"- NATIONAL CONCRETE MASONRY ASSOCIATION AND, THE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES - ACI 530-05.
- 2) CMU MASONRY - MINIMUM f_m = 1500 PSI
LOAD BEARING CONCRETE BLOCK _____ ASTM C90
MORTAR FOR LOAD-BEARING WALLS AND EXTERIOR WALLS _____ ASTM 270 - TYPE 'S'
GROUT - MINIMUM COMPRESSIVE STRENGTH = 2000 PSI _____ ASTM C476
HORIZONTAL JOINT REINFORCEMENT _____ ASTM A82
- 3) WALLS SHALL BE TEMPORARILY SHORED AND SECURELY BRACED UNTIL FLOOR AND ROOF SYSTEM HAVE BEEN ANCHORED THERETO.
- 4) HORIZONTAL JOINT REINFORCEMENT (HDG 9 X9 GAGE - LADDER TYPE) SHALL BE PLACED AT 16" ON CENTER IN ALL WALLS.
- 5) HORIZONTAL REINFORCEMENT SHALL BE PLACED IN THE FIRST TWO COURSES ABOVE ALL OPENINGS AND IN THE FIRST COURSE ABOVE AND BELOW EACH FLOOR.
- 6) PROVIDE VERTICAL REINFORCEMENT OF SIZE AND SPACING AS INDICATED ON THE DRAWINGS. PACE REINFORCING, REINFORCING IN CENTER OF WALL OR AS INDICATED ON DRAWINGS. GROUT ALL CELLS HAVING BARS SOLID.
- 7) ADJUSTABLE WIRE ANCHORS OF W1.7 WIRE SHALL BE SPACED A MINIMUM OF 16" O.C. VERTICALLY & 24" O.C. HORIZONTALLY AND PROVIDE ONE ANCHOR FOR EVER 2.67 SQFT OF WALL AREA. CORRUGATED METAL ANCHORS ARE NOT ACCEPTABLE.
- 8) CONTRACTOR TO SUBMIT:
DESIGN MIXES FOR EACH TYPE OF MORTAR AND GROUT -
INCLUDE DESCRIPTION OF TYPE AND PROPORTIONS OF EACH INGREDIENT
STEEL REINFORCEMENT SHOP DRAWINGS: PLACING AND DETAIL FABRICATION WITH BENDING.
SHOW ELEVATIONS OF REINFORCED WALLS
HORIZONTAL WALL REINFORCING TYPE AND MANUFACTURE CUT SHEETS
INCLUDE VENEER ANCHOR TYPE, SPACING AND CONNECTION TO BACKING WALL

STEEL

- 1) ALL STRUCTURAL STEEL WORK SHALL BE IN ACCORDANCE WITH THE "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"- ALSO MANUAL OF STEEL CONSTRUCTION - THIRTEENTH EDITION. ALL MEMBERS SHOWN ARE DESIGNED USING LOAD CASES FOR ALLOWABLE STRESS DESIGN.
- 2) STRUCTURAL STEEL
STRUCTURAL STEEL ROLLED SHAPES _____ ASTM A992 - GRADE 50
STRUCTURAL STEEL CHANNELS, ANGLES, AND PLATES _____ ASTM A36
STRUCTURAL STEEL TUBING _____ ASTM A500 - GRADE B
STRUCTURAL STEEL PIPE _____ ASTM A53 - GRADE B
- 3) CONNECTIONS:
BOLTS _____ ASTM A325-N 3/4"Ø UNLESS NOTED
WELDS _____ AWS D1.1 W/ E70 ELECTRODES
ANCHOR RODS _____ ASTM F1554 WELDABLE
SHEAR CONNECTOR STUDS _____ ASTM C1010 THRU 1020
- 4) ALL WELDERS MUST BE QUALIFIED PER THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY AND MUST HOLD AN UNEXPIRED CERTIFICATE.
- 5) ALL BEAM FRAMING TO COLUMNS SHALL BE CONNECTED AT MAXIMUM DEPTH. USE ERECTION ANGLE SEATS AS REQUIRED.
- 6) NO SHOP OR FIELD HOLES SHALL BE PLACED IN STRUCTURAL MEMBERS UNLESS SHOWN ON THE DRAWINGS.
- 7) PRIOR TO SHOP DRAWINGS GENERAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOCATIONS, SIZES, AND OPENINGS. DISCREPANCIES SHALL BE IDENTIFIED AND BROUGHT TO THE PROJECTS ATTENTION IMMEDIATELY. DISCREPANCIES CAUSED BY EQUIPMENT SELECTION SHALL BE IDENTIFIED AND FRAMING REVISED AND SUBMITTED FOR APPROVAL BY THE EQUIPMENT SUPPLIER PRIOR TO ERECTION.
- 8) ALL STEEL TO HAVE FABRICATOR'S STANDARD LEAD-FREE AND CHROMATE-FREE, NONASPHALTIC, RUST-INHIBITING PRIMER SHOP APPLIED TO A MINIMUM THICKNESS OF 1.5 MILS.
- 9) CONTRACTOR TO SUBMIT:
SHOP DRAWINGS FOR REVIEW - INDICATE PROFILES, SIZES, SPACING, LOCATIONS OF STRUCTURAL MEMBERS, CONNECTIONS, OPENINGS, ATTACHMENTS, FASTENERS, AND FINISHING

WOOD FRAMING NOTES

- 1) ALL FRAMING TO BE 16"O.C. UNLESS NOTED OTHER.
- 2) ALL CONNECTIONS FOR FRAMING SHALL BE A MINIMUM OF REQUIREMENTS SHOWN IN TABLE 2304.9.1 OF THE IBC
TOE AND END NAILING IS PERMITTED AT BEARING TYPE CONNECTIONS WITH SHEATHING.
ALL OTHER CONNECTIONS SHALL USE METAL CONNECTIONS.
FASTENERS AND METAL CONNECTOS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE EPOXY COATED AND RATED ACCEPTABLE TO WOOD TREATMENT.
WOOD POST TO CONCRETE / MASONRY CONNECTIONS REQUIRE METAL ELEVATED POST BASE WITH 6000 LB BEARING CAPACITY UNLESS NOTED OTHERWISE.
- 3) MULTIPLE MEMBER MUST BE FASTENED TOGETHER AS NOTED:
BEAMS OF (2) 2X OR (2) LVL - (2) ROWS 10d NAILS AT 12" O.C. - ONE SIDE
POSTS OF (3) 2X - (2) ROWS 30d NAILS AT 8" O.C. - ALL SIDES
- 4) STUD AND JOISTS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING WITHOUT ADDING METAL OR WOOD SIDE PIECES TO STRENGTHEN THE MEMBER TO REQUIRED CAPACITY.

STRUCTURAL ABBREVIATIONS:

ADDL. _____ ADDITIONAL
APPROX. _____ APPROXIMATELY
ARCH. _____ ARCHITECT(URAL)
B.E. _____ BOTH ENDS
BT _____ BOTTOM OF
BLDG. _____ BUILDING
BOT. _____ BOTTOM
BPL _____ BASE PLATE
BRG. _____ BEARING
B.S. _____ BOTH SIDES
CP _____ CAST IN PLACE
CJ _____ CONSTRUCTION JOINT
ICANT. _____ ICANTILEVER
CL _____ CENTER LINE
CLR _____ CLEAR
COL. _____ COLUMN
COMP. _____ COMPOSITE OR COMPRESSIBLE
CONC. _____ CONCRETE
CONNL. _____ CONNECTION
CONT. _____ CONTINUOUS
COORD. _____ COORDINATE
DL _____ DEAD LOAD
DBL _____ DOUBLE
DIA. _____ DIAMETER
DIAG. _____ DIAGONAL
DIM. _____ DIMENSIONS
DWGS. _____ DRAWINGS
EA. _____ EACH
E.E. _____ EACH END
E.F. _____ EACH FACE
E.O.D. _____ EDGE OF DECK
E.O.R. _____ ENGINEER OF RECORD
E.O.S. _____ EDGE OF SLAB
E.W. _____ EACH WAY
EL. _____ ELEVATION
ELEV. _____ ELEVATION/ELEVATOR
EMBED. _____ EMBEDMENT/EMBEDDED
ENGR. _____ ENGINEER
EQ. _____ EQUAL
EQUIP. _____ EQUIPMENT
E.S. _____ EACH SIDE/EQUAL SPACES
ETC. _____ ETCETERA
EXP. JT. _____ EXPANSION JOINT
EXT. _____ EXTERIOR/EXTENDED
EX. _____ EXISTING
EXIST. _____ EXISTING
EXP. _____ EXPANSION
FAB. _____ FABRICATOR
FDN. _____ FOUNDATION
FIN. _____ FINISH
FG. _____ FOOTING
GB. _____ GRADE BEAM
G.C. _____ GENERAL CONTRACTOR
GA. _____ GAGE
GALV. _____ GALVANIZED
GEN. _____ GENERAL
HORIZ. _____ HORIZONTAL
IF. _____ INSIDE FACE
INT. _____ INTERIOR
JT. _____ JOINT

K _____ KIPS
L.E. _____ LEFT END
LL _____ LIVE LOAD
LLH _____ LONG LEG HORIZONTAL
LLV _____ LONG LEG VERTICAL
LT. _____ LIGHT
L _____ ANGLE
(2)L _____ DOUBLE ANGLE
(3)L _____ TRIPLE ANGLE
LWT. _____ TRIPLE ANGLE
MAX. _____ MAXIMUM
MECH. _____ MECHANICAL
MFR. _____ MANUFACTURER
MIN. _____ MINIMUM
MISC. _____ MISCELLANEOUS
M.O. _____ MASONRY OPENING
N.F. _____ NEAR FACE
N.S. _____ NEAR SIDE/ON-SHRUNK
N.T.S. _____ NOT TO SCALE
N.W.T. _____ NORMAL WEIGHT
O.C. _____ ON CENTER
O.F. _____ OUTSIDE FACE
OPER. _____ OPERATING
OPNG. _____ OPENING
OPP. _____ OPPOSITE
PC _____ PIECE
PC-CONC. _____ PRECAST CONCRETE
PERP. _____ PERPENDICULAR
PEMB. _____ PRE-ENGINEERED METAL BUILDING
PL _____ PLATE
PLF _____ POUNDS PER LINEAR FOOT
PSF _____ POUNDS PER SQUARE FOOT
PSI _____ POUNDS PER SQUARE INCH
PT _____ PRESERVATIVE TREATED LUMBER
PT _____ POST-TENSIONED
R.E. _____ RIGHT END
REINF. _____ REINFORCED
REQD. _____ REQUIRED
REQMTS _____ REQUIREMENTS
SCHED. _____ SCHEDULE
SIM. _____ SIMILAR
S.O.G. _____ SLAB ON GRADE
SPEC. _____ SPECIFICATION
SQ. _____ SQUARE
STD. _____ STANDARD
STIFF. _____ STIFFENER
STRUCT. _____ STRUCTURAL
TI _____ TOP OF
TEMP. _____ TEMPORARY
TRANS. _____ TRANSVERSE
TYP. _____ TYPICAL
US _____ UNDERSIDE
UNO _____ UNLESS NOTED OTHERWISE
VIF _____ VERIFY IN FIELD OR
VERT. _____ VERTICAL
WI _____ WITH
W/O _____ WITHOUT
W.P. _____ WORK POINT
WT. _____ WEIGHT
WWF _____ WELDED WIRE FABRIC



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Permit Drawings

ISSUED: 04-05-18

REVISIONS

GENERAL
NOTES

R3A PROJECT # 18019



S-001

Proj. No: 18-054

CODES / STANDARDS
- IBC, IMC, IECC - 2009 EDITION (Just Municipality)
- COMMONWEALTH OF PENNSYLVANIA
- ASHRAE Standards: <ul style="list-style-type: none">• 15-2010, "Safety Code for Mechanical Refrigeration"• 62-2007, "Ventilation for Acceptable Indoor Air Quality"• 90.1-2007, "Energy Standard for Buildings"• 170-2008, "Ventilation of Healthcare Facilities"• 2008, "Advanced Energy Guide for (K-12 School Buildings, Small Retail Buildings, Small Office Buildings)"• 55-2004, "Thermal Environmental Conditions for Human Occupancy"
- NFPA 90A - 2010 EDITION
- LEED COMMISSIONING AGENT
- "Guidelines for Design and Construction of Healthcare Facilities" 2010 EDITION

GENERAL NOTES
1. THE CONTRACT DOCUMENT DRAWINGS ARE DIAGRAMMATIC ONLY, AND ARE INTENDED TO CONVEY THE SCOPE AND GENERAL ARRANGEMENT OF WORK.
2. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR BY FIELD INSPECTION PRIOR TO BIDDING. ANY INTERFERENCES TO INSTALLATION SHALL BE NOTED AND THE CONTRACTOR SHALL INCLUDE IN HIS BID PRICE THE COST TO AVOID OR RELOCATE ITEMS THAT INTERFERE, INCLUDING THE COST TO RELOCATE ITEMS OF OTHER TRADES.
3. LOCATIONS OF TERMINAL DEVICES, AIR OUTLETS AND INLETS ARE APPROXIMATE. LOCATE PER THE ARCHITECTURAL DRAWINGS AND TO AVOID OTHER TRADES WORK, COORDINATE LOCATIONS WITH OTHER TRADES. CONSULT ARCHITECT/ENGINEER FOR CLARIFICATION IF CONFLICTS OCCUR.
4. ALL MATERIALS FURNISHED, AND ALL WORK PERFORMED BY THE MECHANICAL CONTRACTOR SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER AND ALL APPLICABLE CODES AND REGULATIONS, INCLUDING BUT NOT LIMITED TO THE LATEST EDITIONS OF NFPA, IEEE, OSHA, SMACNA, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL BUILDING CODE, STATE, COUNTY, AND LOCAL CODES.
5. THE MECHANICAL CONTRACTOR SHALL GIVE ALL NOTICES, OBTAIN ALL PERMITS, AND PAY ALL TAXES, FEES, AND OTHER COSTS ASSOCIATED WITH HIS WORK. THE MECHANICAL CONTRACTOR SHALL FILE ALL APPROVALS OF ALL REQUIRED CERTIFICATES AND INSPECTION FOR HIS WORK JURISDICTION, AND DELIVER SAME TO THE ENGINEER BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN HIS SCOPE OF WORK, WITHOUT EXTRA COST TO THE OWNER, ALL LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS (IN ADDITION TO CONTRACT AND DOCUMENTS) IN ORDER TO COMPLY WITH ALL APPLICABLE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS.
6. THE MECHANICAL CONTRACTOR SHALL FURNISH ALL EQUIPMENT, MATERIALS, APPLIANCES, TOOLS, RIGGING, AND ACCESSORIES, AND PERFORM ALL LABOR REQUIRED TO PROVIDE, INSTALL, CONNECT AND TEST COMPLETE HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT AND SYSTEMS IN ACCORDANCE WITH THE SPECIFICATIONS, DRAWINGS AND THE APPLICABLE CODES.
7. THE MECHANICAL CONTRACTOR SHALL INSTALL ALL HVAC EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. THE MECHANICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS.
8. THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION AND HEIGHT OF ALL HVAC EQUIPMENT AND COORDINATE WITH ALL OTHER MECHANICAL, ELECTRICAL, ARCHITECTURAL, AND STRUCTURAL SYSTEMS.
9. THE MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES INVOLVED. ALL RISERS, DROPS, OFFSETS, AND TRANSITIONS IN DUCTWORK AND PIPING AROUND OBSTACLES SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
10. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATION AND SIZE OF ALL FLOOR, WALL AND ROOF OPENINGS WITH THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL PROVIDE ALL OPENINGS UNLESS OTHERWISE NOTED.
11. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATION AND SIZE OF ALL EQUIPMENT, DUCTWORK, AND PIPING SUSPENDED FROM THE BUILDING STRUCTURE WITH THE GENERAL CONTRACTOR.
12. THE MECHANICAL CONTRACTOR SHALL SUPPORT ALL EQUIPMENT, DUCTWORK, AND PIPING MOUNTED ABOVE THE CEILING DIRECTLY FROM THE STRUCTURE. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTARY STRUCTURAL STEEL REQUIRED AND/OR AS SPECIFIED AND SHOWN IN THE DETAILS (UNLESS OTHERWISE NOTED). ALL EQUIPMENT SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE WITH COMBINATION SPRING AND NEOPRENE-IN-SHEAR HANGER RODS. ALL SUPPORTS SHALL BE PROVIDED AS REQUIRED TO ASSURE A VIBRATION FREE INSTALLATION. ALL ATTACHMENTS TO BEAMS, TRUSSES, OR JOIST SHALL BE MADE AT PANEL POINTS WITH BEAM CLAMPS MEETING MSS STANDARDS.
13. THE MECHANICAL CONTRACTOR SHALL VERIFY THE VOLTAGE OF ALL HVAC EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.
14. THE MECHANICAL CONTRACTOR SHALL PROVIDE MOTORS AND STARTERS FOR ALL HVAC EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER WIRING.
15. THE MECHANICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR ALL HVAC EQUIPMENT, INCLUDING WEATHERPROOF UNITS AS REQUIRED.
16. THE MECHANICAL CONTRACTOR SHALL PROVIDE PHASE LOSS PROTECTION FOR POLY-PHASE MOTOR DEVICES FOR ALL EQUIPMENT.
17. PROVIDE ACCESS DOORS OF SUFFICIENT SIZE TO SERVICE ALL CONCEALED APPARATUS INCLUDING VALVES, DAMPERS, COILS, TERMINAL DEVICES, VENTS, DRAINS, DRIPS, AIR BOXES, EQUIPMENT, ETC., WHERE INACCESSIBLE OR WHERE CEILINGS ARE NOT REMOVABLE. CONCEALED SPRING CEILINGS ARE NOT CONSIDERED REMOVABLE. MINIMUM DOOR SIZE IS 18" x 18".
18. ALL DUCTWORK AND PIPING SHALL BE ROUTED AS CLOSE TO AND PARALLEL TO THE BUILDING STRUCTURE AS POSSIBLE TO MAINTAIN GRADIENT AND BE INSTALLED AT A COMMON ELEVATION WHEREVER PRACTICAL.
19. ALL CONTROL, WIRING AND CONDUIT PROVIDED BY THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL BE IN ACCORDANCE WITH NEC AND DIVISION 23 OF THE SPECIFICATIONS.

DUCTWORK NOTES
1. ALL DUCTWORK INDICATED IS SCHEMATIC AND SHOW ONLY RELATIVE POSITIONS. PROVIDE OFFSETS, RISERS, TRANSITIONS AND ELBOWS AS NEEDED TO INSTALL PROPERLY.
2. DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE FACE-TO-FACE DIMENSIONS AND DO NOT INCLUDE DUCT LINER WHERE SPECIFIED. INCREASE DIMENSIONS OF LINED DUCTWORK TO PROVIDE FREE INSIDE AREA EQUAL DIMENSIONS SHOWN. REFER TO THE SPECIFICATIONS FOR LOCATION OF LINED DUCTWORK.
3. FINAL CONNECTIONS FROM HIGH VELOCITY MAIN DUCTS TO AIR TERMINAL UNITS SHALL BE MADE WITH FLEXIBLE DUCTWORK NOT EXCEEDING 3 FEET IN LENGTH. CONNECTIONS BETWEEN LOW VELOCITY DUCTWORK AND/OR TERMINAL UNITS TO AIR INLETS AND OUTLETS SHALL BE MADE WITH FLEXIBLE DUCTWORK NOT EXCEEDING 6 FEET IN LENGTH. LONGER DUCT RUN OUTS SHALL BE CONSTRUCTED OF HARD DUCT OF THE SAME MATERIAL SPECIFIED FOR THE SYSTEM SERVED AND INSULATED AS SPECIFIED FOR THAT SYSTEM. FLEXIBLE DUCTWORK SHALL BE OF THE PRESSURE CLASS AND FACTORY INSULATED AS SPECIFIED FOR THE SYSTEM WHERE INSTALLED.
4. FLEXIBLE DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS WITHOUT ANY SAGS, SHARP TURNS OR KINKS. AT THE MINIMUM, THE FLEXIBLE DUCTWORK SHALL BE FASTENED TO THE HARD DUCT BY A NYLON STRAP SECURED BY SHEETMETAL SCREWS TO PREVENT SLIPPING OFF FROM COLLAR.
5. PROVIDE VOLUME DAMPERS AT EACH AIR OUTLET, AIR INLET AND TERMINAL DEVICE
6. PROVIDE VOLUME DAMPER AT EACH BRANCH TAKE-OFF CONNECTION FROM THE MAIN.
7. DUCTWORK LOCATED IN FIRE RATED CORRIDORS THAT PENETRATE FIRE RATED PARTITION WALLS SHALL BE CONSTRUCTED OF GALVANIZED STEEL NOT LESS THAN 0.019-INCH IN THICKNESS AND SHALL HAVE NO OPENINGS SERVING THE CORRIDOR.

ASBESTOS NOTES
1. THERE IS ASBESTOS IN THE CEILINGS AND WALLS. THE CONTRACTOR SHALL WORK WITH THE ASBESTOS SUBCONTRACTOR TO REMOVE ASBESTOS IMPREGNATED MATERIALS BEFORE CARRYING OUT HIS WORK.
2. THE GENERAL CONTRACTOR IS TO COORDINATE THE WORK OF ALL DISCIPLINES AND DETERMINE THE EXTENT OF ACM ABATEMENT REQUIRED. THE GENERAL CONTRACTOR SHOULD SCHEDULE ACM ABATEMENT PRIOR TO PERFORMING ANY OTHER WORK.
3. THE GENERAL CONTRACTOR IS REQUIRED TO NOTIFY AND SEEK FURTHER GUIDANCE FROM THE PROJECT REPRESENTATIVE IF THE SCOPE OF CONSTRUCTION EXPANDS, OR IF ANY MATERIALS ARE ENCOUNTERED THAT ARE DIFFERENT FROM THOSE INDICATED IN THE OWNER'S ABATEMENT STUDY. SUCH NOTIFICATION SHALL BE MADE PRIOR TO ANY DISTURBANCE OF THE SUSPECT MATERIALS.
4. ASBESTOS CONTAINING MATERIALS MUST BE ABATED BY WORKERS SKILLED AND LICENSED TO PERFORM SUCH WORK ACCORDING TO ALL FEDERAL, STATE, AND LOCAL REGULATIONS USING APPROPRIATE METHODS.
5. IT SHALL BE THE RESPONSIBILITY OF THE ASBESTOS CONTRACTOR (A.C.) TO PRE-CLEAN THE SHAFT USING HEPA VACUUMS AND WET METHODS.
6. THE A.C. SHALL USE A DRILL EQUIPPED WITH A HEPA VACUUM TO PENETRATE THE SHAFT WALL.
7. THE A.C. SHALL INSTALL ANCHORS INTO THE FINISHED HOLES.

PIPING NOTES
1. ALL PIPING SHOWN HAS BEEN DRAWN SCHEMATICALLY FOR CLARITY AND SHOW ONLY RELATIVE POSITIONS. PROVIDE OFFSETS AND ELBOWS AS NEEDED TO INSTALL PROPERLY AND TO AVOID INTERFERENCES.
2. ALL NEW OR REPLACED HYDRONIC PIPING SHALL BE INSTALLED SO THAT IT CAN BE COMPLETELY VENTED AT HIGH POINTS AND DRAINED AT LOW POINTS. PROVIDE AIR VENTS AT HIGH POINTS, TYPE PER SPECIFICATIONS. PROVIDE 1/2" BALL VALVES WITH HOSE END CONNECTIONS AND CAPS AT LOW POINT.
3. PROVIDE SERVICE VALVES AT EACH BRANCH CONNECTION FROM MAINS AND AT EACH TERMINAL DEVICE OR EQUIPMENT CONNECTION.
4. CONTRACTOR SHALL PROVIDE NEW VALVES ON EXISTING PIPING WHERE THE PIPES ARE TO BE REMOVED SO THAT THE SYSTEM DOES NOT HAVE TO BE DRAINED WHILE REMOVING EXISTING UNITS, INSTALLING NEW UNITS AND MAKING CONNECTIONS TO NEW EQUIPMENT.

DUCTWORK LEGEND
SA SUPPLY AIR
RA RETURN AIR
OA OUTDOOR AIR - GENERAL VENTILATION
EA EXHAUST AIR - GENERAL EXHAUST
REL RELIEF AIR

DEMOLITION NOTES
1. THE MECHANICAL CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK WITH THE OWNER PRIOR TO COMMENCEMENT.
2. THE MECHANICAL CONTRACTOR SHALL REMOVE ALL DEMOLITION DEBRIS COMPLETELY AT THE END OF EACH WORK DAY. THE CONTRACTOR SHALL SCHEDULE THE TIME, HAULING ROUTE, ELEVATOR, AND LOCATION WITH THE OWNER.
3. THE MECHANICAL CONTRACTOR SHALL RETURN ALL SALVAGEABLE EQUIPMENT TO THE OWNER AT THE REQUEST OF THE BUILDING ENGINEER AFTER DEMOLITION.
4. THE MECHANICAL CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED EQUIPMENT, CEILINGS, WALLS, FLOORS, ETC. THAT HAVE BEEN DAMAGED BY THE DEMOLITION CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. THE MECHANICAL CONTRACTOR SHALL REMOVE ALL DEMOLITION WORK COMPLETELY INCLUDING ALL ASSOCIATED APPURTENANCES. UNDER NO CIRCUMSTANCES SHALL ANY DEMOLITION MATERIAL BE ABANDONED IN PLACE UNLESS OTHERWISE NOTED.
6. DEMOLITION DRAWINGS ARE INTENDED TO INDICATE SCOPE AND GENERAL INTENT OF THE DEMOLITION WORK REQUIRED, AND DO NOT, IN ANY WAY, LIMIT THE AMOUNT OF DEMOLITION ONLY TO THE ITEMS SHOWN. DEMOLITION WORK INCLUDES REMOVAL OF ALL ITEMS THAT INTERFERE WITH THE CONSTRUCTION AND PATCHING AS REQUIRED AT ALL DISTURBED AREAS WITHOUT LIMITATIONS.

ABBREVIATIONS	
AAD AUTOMATIC AIR DAMPER	HR HEAT RECOVERY
AC AIR CONDITIONING UNIT	HWC HEATING COIL
ACP APPARATUS CONTROL PANEL	HWP HOT WATER PUMP
ACC AIR-COOLED CONDENSER (W/O COMPRESSORS)	HX HEAT EXCHANGER
ACCU AIR COOLED CONDENSING UNIT (W/COMPRESSORS)	HZ HERTZ (CYCLE)
ACWC AIR-COOLED WATER CHILLER	LD LINEAR AIR DIFFUSER
AD ACCESS DOOR	LRA LOCKED ROTOR AMPS
AFF ABOVE FINISHED FLOOR	LRP LINEAR RADIANT PANEL
AHU AIR HANDLING UNIT	LVG LEAVING
AL ALUMINUM	LWT LEAVING WATER TEMPERATURE
APPROX APPROXIMATE	MAU MAKE-UP AIR UNIT
AS AIR SEPARATOR	MAX MAXIMUM
ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MBTUH BTUH IN THOUSANDS
ATC AUTOMATIC TEMPERATURE CONTROL	MCA MINIMUM CIRCUIT AMPACITY
AUX AUXILIARY	MCP MAXIMUM CURRENT PROTECTION
AWG AMERICAN WIRE GAUGE	MECH MECHANICAL
BDD BACKDRAFT DAMPER	MFCB MAXIMUM FUSE/CIRCUIT BREAKER SIZE
BLDG BUILDING	MIN MINIMUM
BOTT BOTTOM	MISC MISCELLANEOUS
BTUH BRITISH THERMAL UNITS PER HOUR	MMS MANUAL MOTOR STARTER
C CONTROL SYSTEM CONTACT	MS MAGNETIC STARTER
CV CONVECTOR	MTD MOUNTED
CB CIRCUIT BREAKER	NC NORMALLY CLOSED
CC COOLING COIL	NIC NOT IN CONTRACT
CD CEILING DIFFUSER	NO NORMALLY OPEN
CDWP CONDENSER WATER PUMP	NTS NOT TO SCALE
CH CABINET HEATER	OD OUTSIDE DIAMETER
CHWP CHILLED WATER PUMP	OPD OVER-CURRENT PROTECTION DEVICE
CLG CEILING	OPG OPENING
CO CLEAN OUT	PB PUSH-BUTTON (ON-OFF OR AUTO CONTROL)
CONC CONCRETE	PC PLUMBING CONTRACTOR
CONT CONTINUED	PD PRESSURE DROP
CRM CENTRIFUGAL REFRIGERATION MACHINE	PE PNEUMATIC ELECTRIC SWITCH
CRU CONDENSATE RETURN UNIT	PF PRE-FILTER
CS COMBINATION MOTOR STARTER	PH PHASE
CT COOLING TOWER	PHC PRE-HEAT COIL
CU CONDENSING UNIT	PL PILOT LIGHT
CU COPPER	PR PRESENT TO REMAIN
DEG DEGREE (°F)	PRV PRESSURE REDUCING VALVE
DEMO DEMOLISH/DEMOLITION (REMOVE/PRESENT)	R RELOCATE PRESENT
DIA DIAMETER (Ø)	RCD ROUND CEILING DIFFUSER
DIM DIMENSION	REOD REQUIRED
DN DOWN	RF RELIEF FAN
DS DISCONNECT SWITCH	RF ROUGHING FILTER
DWG DRAWING	RG RETURN AIR GRILLE
DX DIRECT EXPANSION	RH RELIEF/ROOF HOOD
EA EACH	RHC REHEAT COIL
EC ELECTRICAL CONTRACTOR	RL RELOCATED PRESENT
EF EXHAUST FAN	RLA RUNNING LOAD AMPS
EG EXHAUST AIR GRILLE	RM ROOM
EL ELEVATION	RP REMOVE PRESENT
ER EXHAUST AIR REGISTER (W/ DAMPER)	SA SOUND ATTENUATOR
EMS ENERGY MANAGEMENT SYSTEM	SBY STAND-BY
ENT ENTERING	SV STEAM CONVECTOR
EP ELECTRIC PNEUMATIC SWITCH	SC STEAM CONVERTER
ET ELECTRIC THERMOSTAT	SD SMOKE DAMPER
EWT ENTERING WATER TEMP.	SD SMOKE DETECTOR
EXIST EXISTING	SD SUPPLY AIR DIFFUSER
EXT EXPANSION TANK	SF SUPPLY FAN
FACP FIRE ALARM CONTROL PANEL	SG SUPPLY AIR GRILLE
FC FAN COIL	SH STEAM HUMIDIFIER
FD FIRE DAMPER	SPECS SPECIFICATIONS
FD FLOOR DRAIN	SIS STAINLESS STEEL
FISD FIRE & SMOKE DAMPER	T-STAT THERMOSTAT
FF FINAL FILTER	TG TRANSFER AIR GRILLE
FLA FULL LOAD AMPS	TYP TYPICAL
FLEX FLEXIBLE CONNECTION	UC UNDER-CUT
FMS FLOW MEASURING STATION	V VOLTS
FPM FEET PER MINUTE	V/ØHZ VOLTS/PHASE/HERTZ
FS FREEZE-STAT	VCD VARIABLE VOLUME CEILING DIFFUSER
GA GAUGE	VD VOLUME DAMPER
GALV GALVANIZED	VFD VARIABLE FREQUENCY DRIVE
GC GENERAL CONTRACTOR	VT VARIABLE VOLUME TERMINAL
HC HVAC CONTRACTOR	WI WITH
HH HORIZONTAL UNIT HEATER	W/O WITHOUT
	WL WALL LOUVER
	WSA WIRE SIZING AMPS (NCA)

SYMBOLS	
GENERAL	AIR INLETS & OUTLETS
NEW WORK	SUPPLY AIR DIFFUSER (ROUND NECK) CFM - AIRFLOW RATE
PRESENT TO REMAIN (PR)	TWO OR THREE-WAY DIFFUSER HATCHED AREA INDICATES BLOCKED OFF SECTION
DEMOLITION	SUPPLY AIR OUTLET (G - GRILLE, R - REGISTER) CFM - AIRFLOW RATE
BACKGROUND	RETURN or EXHAUST AIR INLET (G - GRILLE, R - REGISTER) CFM - AIRFLOW RATE
HIDDEN LINE	LINEAR SUPPLY AIR DIFFUSER CFM - AIRFLOW RATE
CENTER LINE	RETURN or EXHAUST AIR INLET (G - GRILLE, R - REGISTER) CFM - AIRFLOW RATE
POINT OF CONNECTION - NEW TO EXISTING	TRANSFER RETURN AIR GRILLE CFM - AIRFLOW RATE
POINT OF DISCONNECTION - CAP EXISTING	FLOOR SUPPLY AIR GRILLE CFM - AIRFLOW RATE
DEMOLITION (DRAWING SPECIFIC) NOTE	
NEW WORK (DRAWING SPECIFIC) NOTE	
DETAIL NUMBER	
SHEET WHERE IT APPEARS	
TAG FOR SCHEDULED CENTRAL EQUIPMENT	
SECTION LETTER	
SHEET WHERE IT APPEARS	
REVISION TRIANGLE	
AIR INLET & OUTLET TAGS	DUCTWORK - DAMPERS
3 BOX	MANUAL VOLUME CONTROL DAMPER
2 BOX	BACKDRAFT DAMPER
TAG TYPES	MOTORIZED AIR DAMPER (PNEUMATIC - ELECTRIC)
EX-XXX EXISTING DEVICE XXX	EAG-X EXHAUST AIR GRILLE
SAD-X SUPPLY AIR DIFFUSER	EAR-X EXHAUST AIR REGISTER
SAR-X SUPPLY AIR REGISTER	TAG-X TRANSFER AIR GRILLE
RAG-X RETURN AIR GRILLE	FSG-X FLOOR SUPPLY GRILLE
RAR-X RETURN AIR REGISTER	
LOUVER TAGS	TAG TYPES
##	OAL-X OUTSIDE AIR LOUVER
	EAL-X EXHAUST AIR LOUVER
	RAL-X RELIEF AIR LOUVER
CONTROL DEVICES	THERMOSTAT
DUCTWORK - GENERAL	
SUPPLY DUCT (UP & DOWN)	
RETURN DUCT (UP & DN)	
DUCT DIMENSIONS (INSIDE CLEAR AREA) W INDICATES WIDTH D INDICATES DEPTH Ø INDICATES DIAMETER OF ROUND DUCT ARROW INDICATES DIRECTION OF FLOW	
EQUIPMENT FLEXIBLE CONNECTION	
SQUARE ELBOW W/ DOUBLE THICKNESS TURNING VANES	
ROUND ELBOW (1.5Ø RADIUS)	
TRANSITION	
SQUARE-TO-ROUND DUCT TRANSITION	
STANDARD BRANCH TAKE-OFF (LOW VELOCITY SUPPLY - USE SINGLE BLADE EXTRACTOR)	
CHANGE IN ELEVATION ARROW INDICATES DIRECTION OF FLOW R INDICATES RISE, DN INDICATES DROP	
SUPPLY	
RETURN/EXHAUST/TRANSFER/OUTDOOR AIR	
TRANSFER AIR VIA UNDER CUT DOOR	
LOUVERED DOOR	
AIRSIDE EQUIPMENT	
CC-X	COOLING COIL
HC-X	HEATING COIL
F-X	FAN (F)



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REVISIONS

Mechanical
Symbols &
General Notes

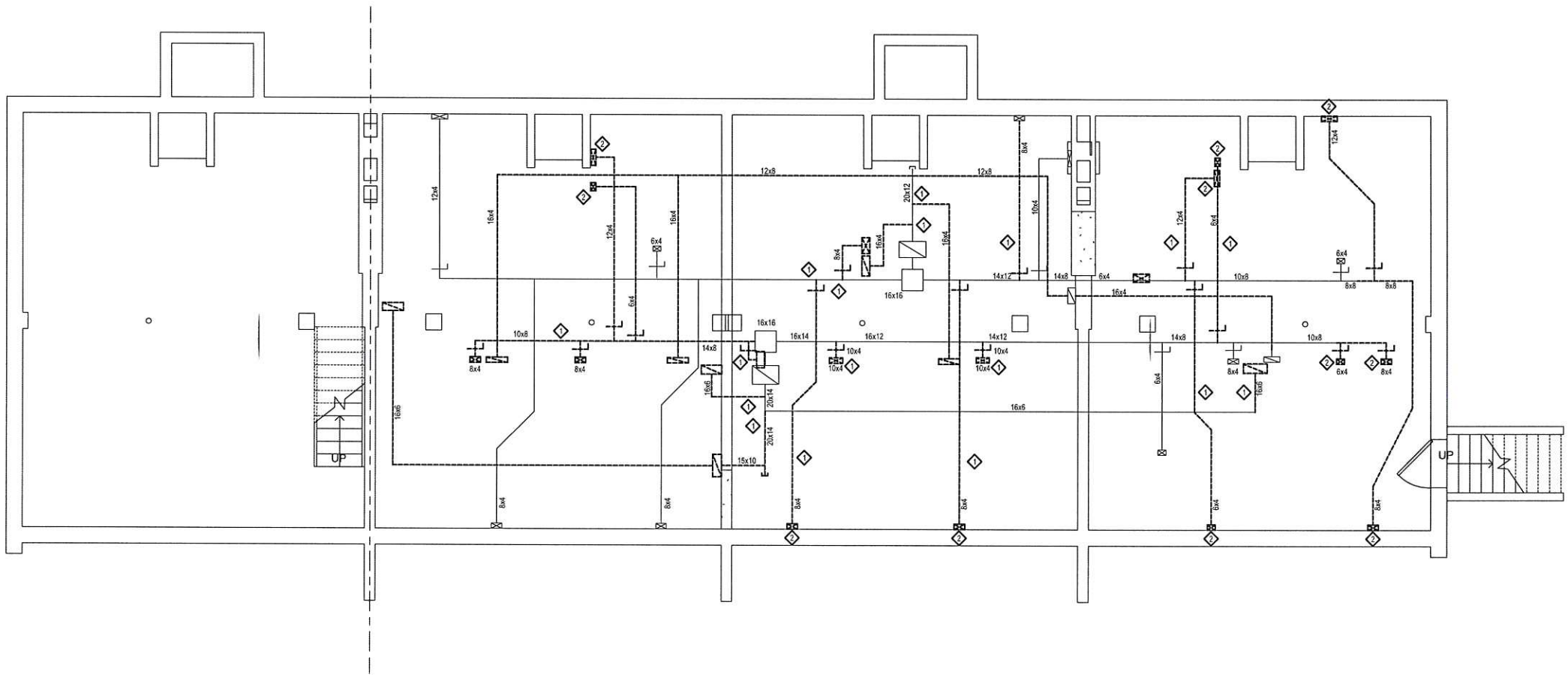
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M-001

Proj. No: 18-054



KEYED DEMOLITION NOTES	
	CAP EXISTING DUCT TO REMAIN.
	DEMOLISH DUCT UP TO JOIST SPACE. DUCT IN JOIST SPACE TO REMAIN.



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Mechanical
Demolition
Basement Floor
Plan

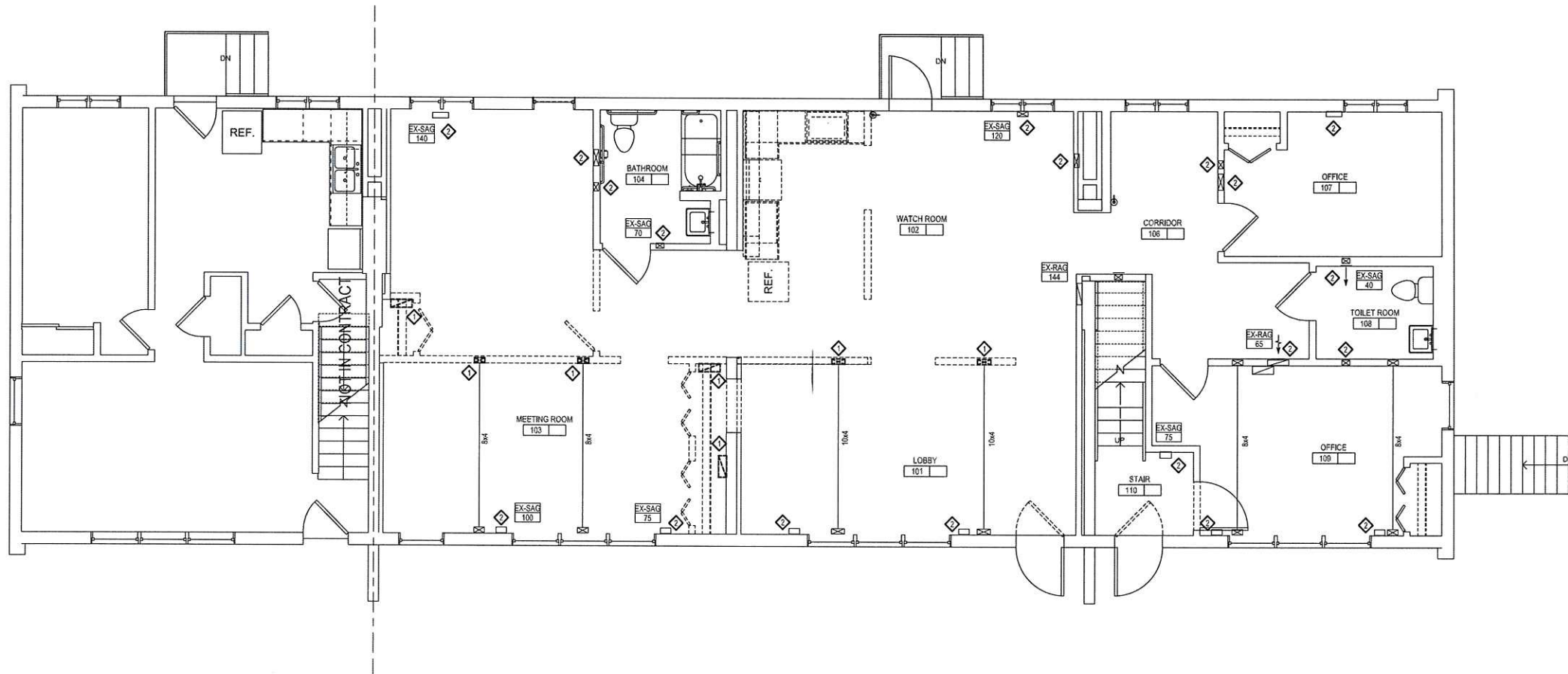
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MD-100

Proj. No: 18-054

1 MECHANICAL DEMOLITION BASEMENT FLOOR PLAN
SCALE: 1/4" = 1'-0"



KEYED DEMOLITION NOTES	
	DEMOLISH DUCT UP TO ABOVE THE CEILING. DUCT IN JOIST SPACE TO REMAIN.
	EXISTING AIR TERMINAL DEVICE TO REMAIN.



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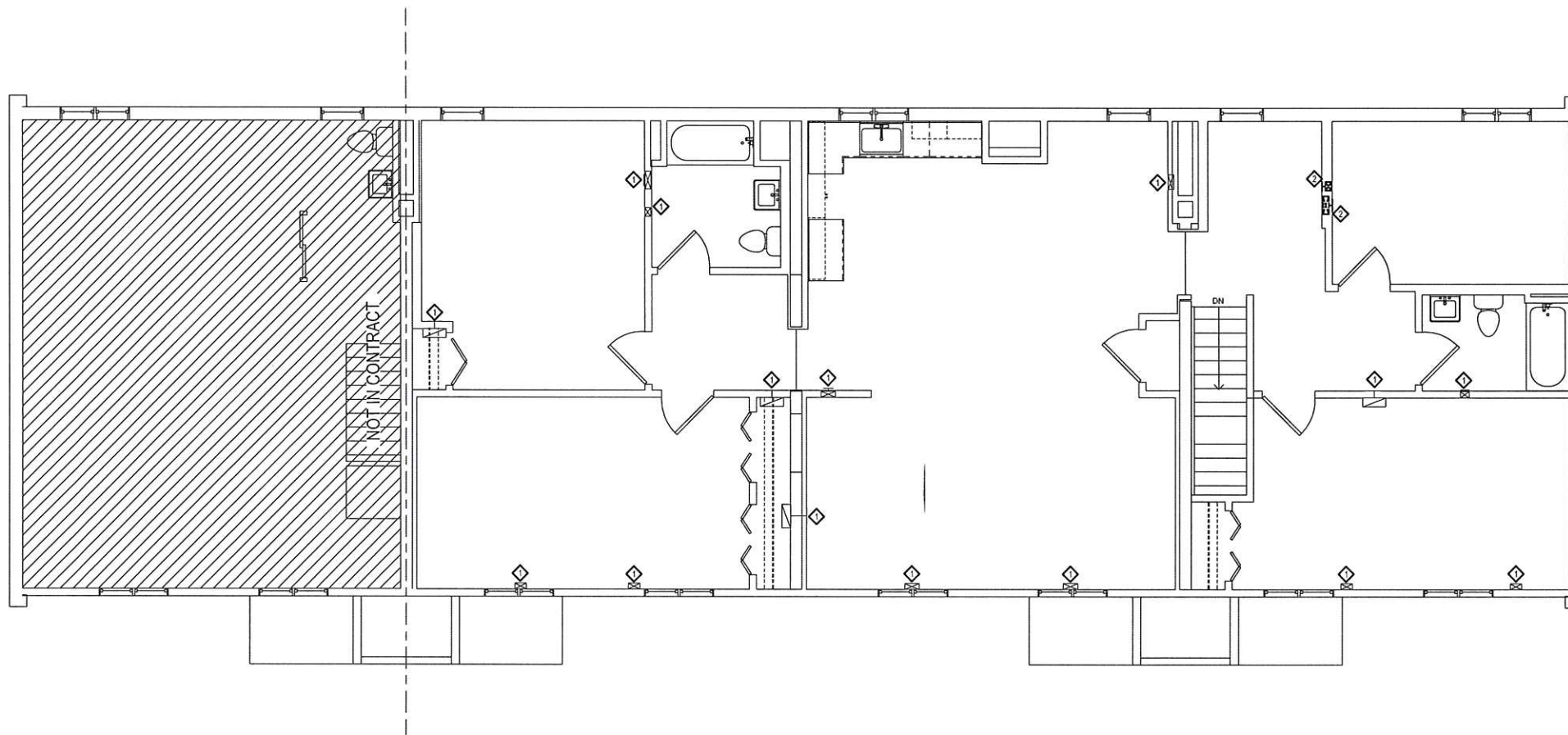
Mechanical
Demolition
First Floor
Plan

R3A PROJECT # 18019

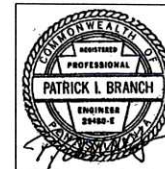
MD-101

Proj. No: 18-054

1 MECHANICAL DEMOLITION FIRST FLOOR PLAN
SCALE: 3/8" = 1'-0"



KEYED DEMOLITION NOTES	
	EXISTING AIR TERMINAL DEVICE TO REMAIN.
	DEMOLISH DUCT TO 3" A.F.F. DUCT TO REMAIN FOR CAPPING.



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Mechanical
Demolition
Second
Floor Plan

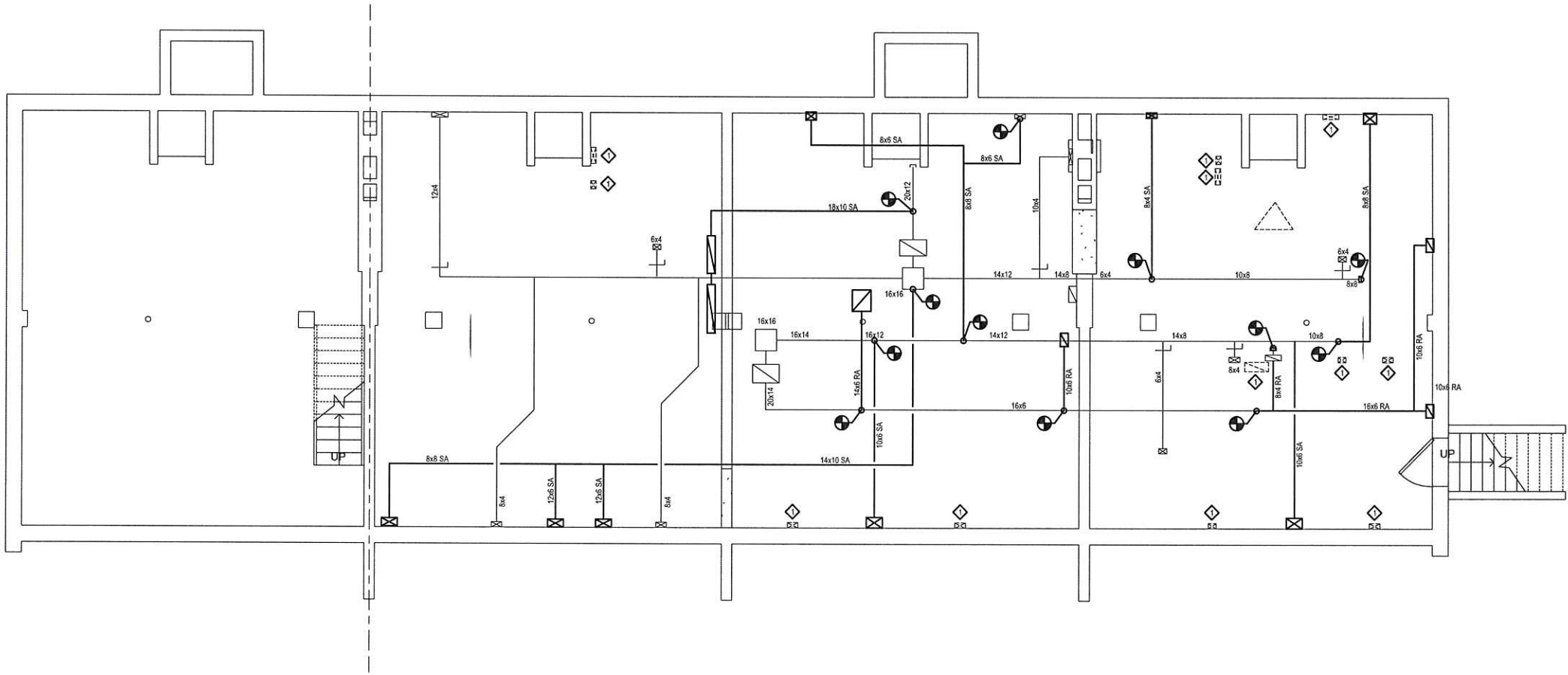
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MD-102

Proj. No: 18-054

1 MECHANICAL DEMOLITION SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"



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

KEYED NOTES	
◇	CAP DUCT IN JOIST SPACE.



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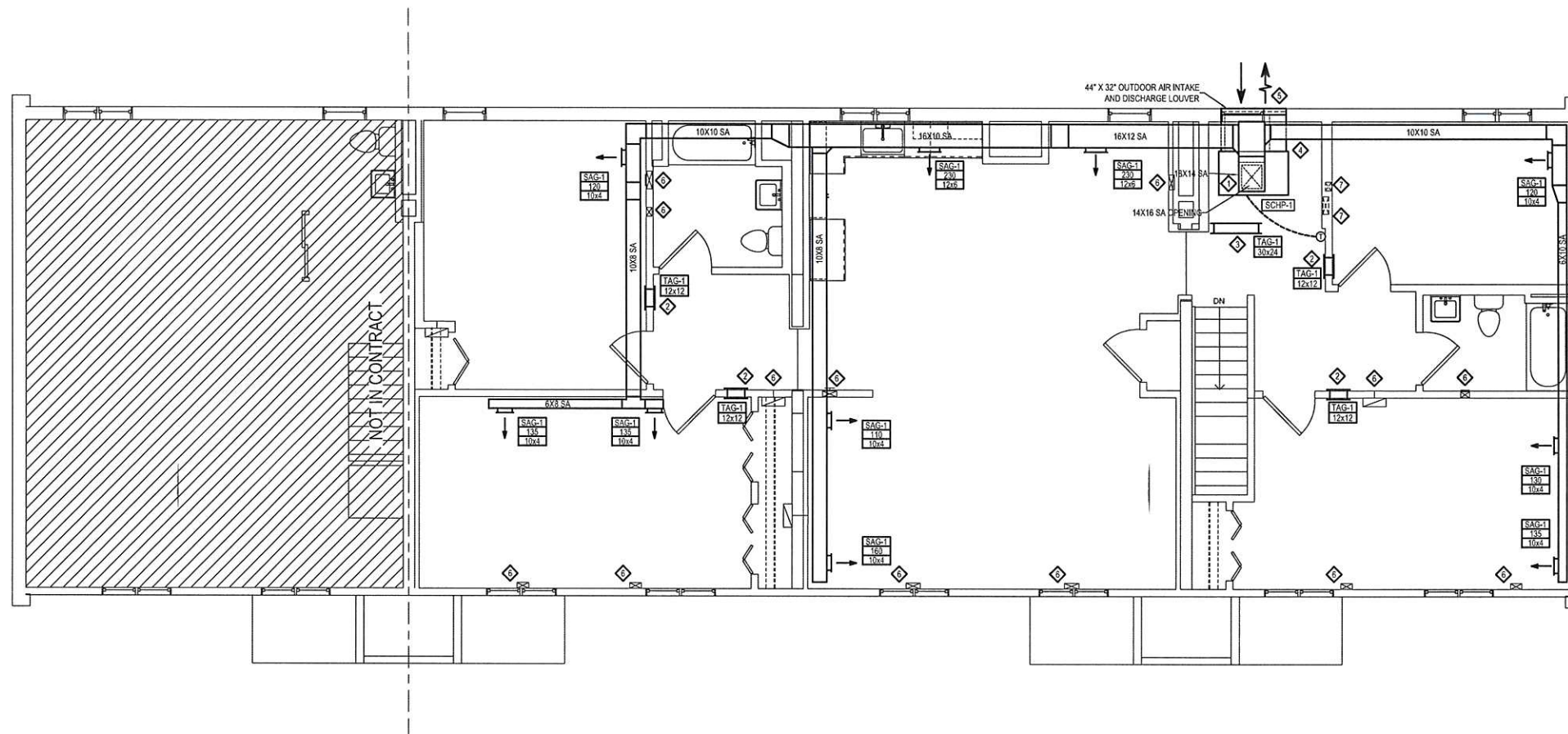
Mechanical
Basement
Floor Plan

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M-100

Proj. No: 18-054



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

- KEYED NOTES
- 1 SAFEWASTE CONDENSATE FROM SCHP-1 AT FLOOR DRAIN IN THE LAUNDRY ROOM 443-02.
 - 2 MOUNT TRANSFER AIR GRILLES AT DIFFERENT ELEVATIONS. TOP EDGE OF GRILLE IN BEDROOM IS TO BE MOUNTED AT LEAST 8' A.F.F. BOTTOM EDGE OF TRANSFER AIR GRILLE IN THE HALLWAY IS TO BE MOUNTED 6' A.F.F.
 - 3 MOUNT TRANSFER AIR GRILLES AT DIFFERENT ELEVATIONS. TOP EDGE OF GRILLE IN SCHP-1 ROOM IS TO BE MOUNTED AT LEAST 7' A.F.F. BOTTOM EDGE OF TRANSFER AIR GRILLE IN THE HALLWAY IS MOUNTED 6' A.F.F.
 - 4 VERIFY DUCT SIZES AND CONNECTIONS TO OUTDOOR AIR LOUVER WITH MANUFACTURER RECOMMENDED INSTALLATION.
 - 5 VERIFY PLACEMENT OF OUTDOOR AIR LOUVER FOR HEAT PUMP UNIT WITH THE ARCHITECT PRIOR TO INSTALLATION. COORDINATE WITH GENERAL CONSTRUCTION.
 - 6 CAP AND SEAL CLOSED EXISTING AIR TERMINAL DEVICE.
 - 7 CAP EXISTING DUCT IN WALL CAVITY.



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Mechanical
Second
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R3A PROJECT # 18019

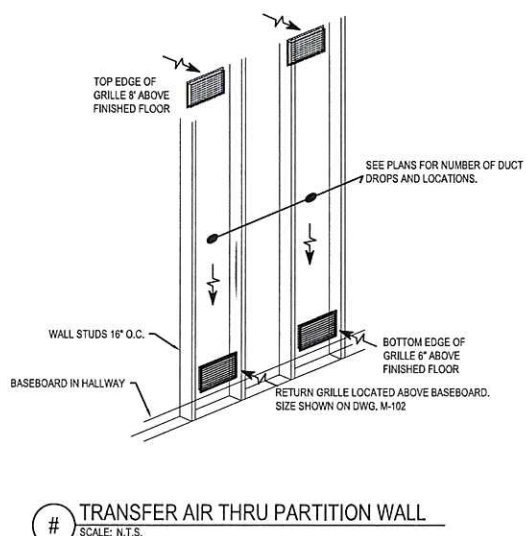
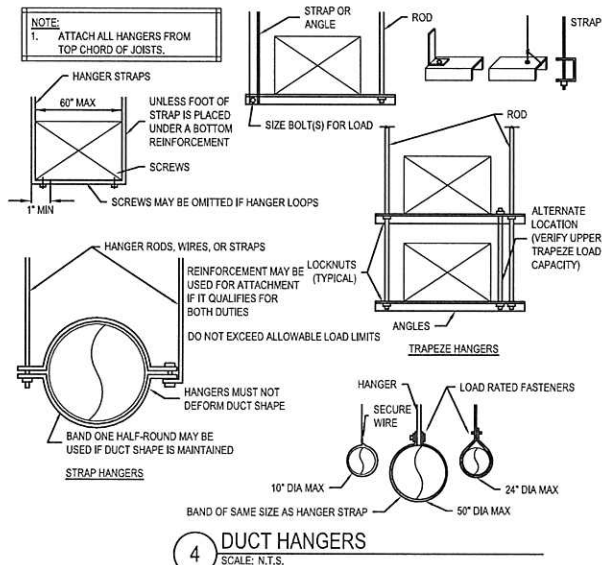
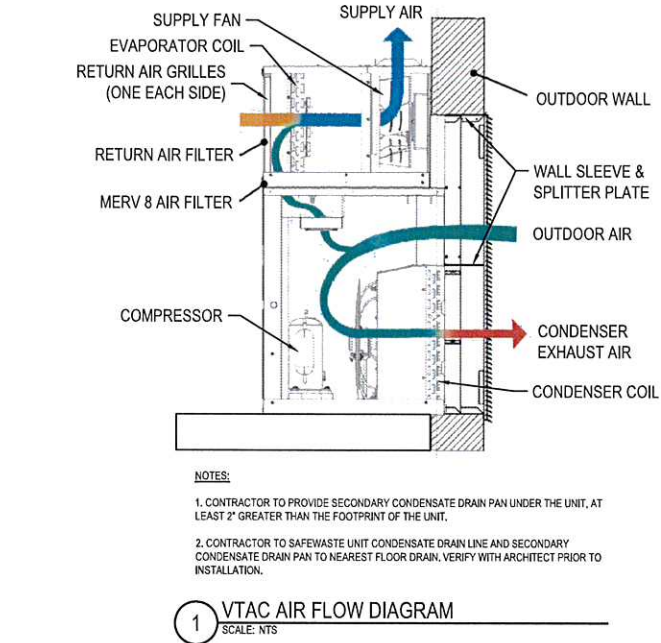
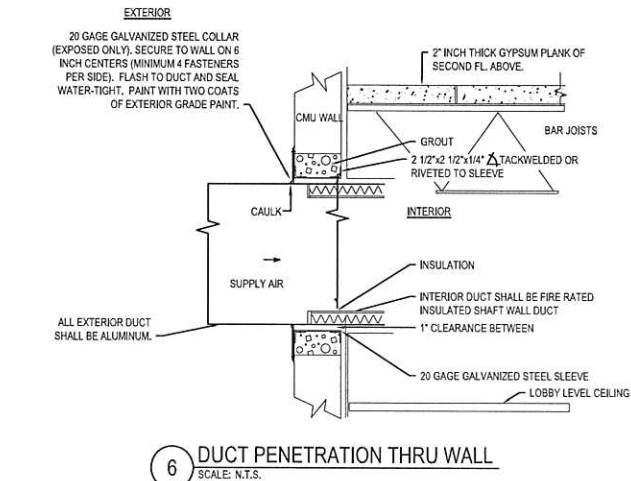
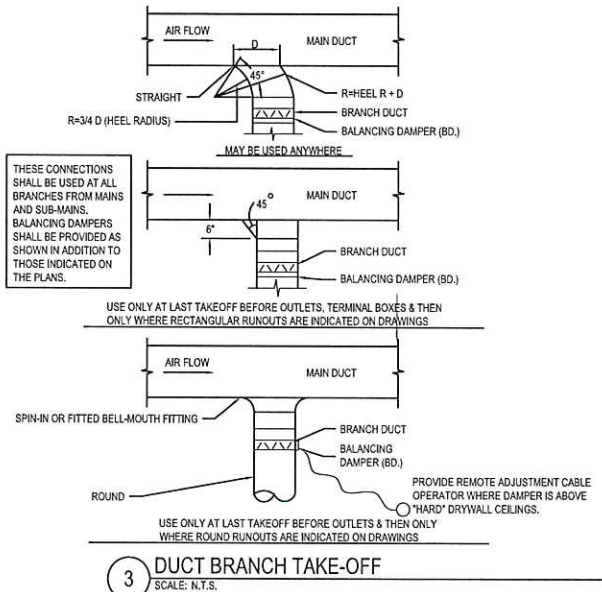
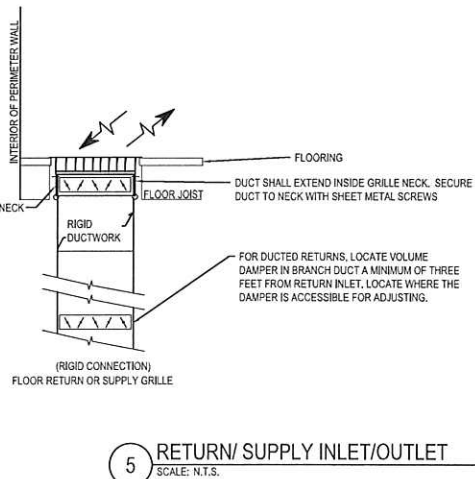
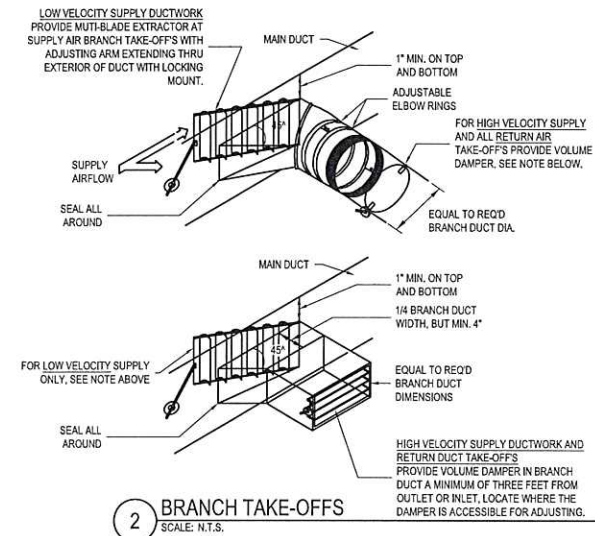


M-102

Proj. No: 18-054

SELF-CONTAINED VERTICAL HEAT PUMP (SCHP) UNIT SCHEDULE																
TAG	MAX AIRFLOW (CFM)	COOLING SECTION			HEATING SECTION			ELECTRICAL INFORMATION				MIN. EFF. EER	NET WEIGHT (LBS.)	BASIS OF DESIGN		NOTES
		TOTAL CAPACITY / SENS CAPACITY (MBH)	EAT DB / WB (°F)	LAT DB / WB (°F)	HEAT PUMP @ 47° AMBIENT (MBH)	AUX. ELEC (KW)	EAT / LAT (°F)	VOLTS/ PHASE/ HERTZ	MCA	FLA	MOP			MANUF.	MODEL	
SCHP-1	1500	44.3 / 34.6	78.4 / 64.2	55.1 / 54.8	47.2	15	54 / 95	230 / 1 / 60	106.9	85.6	110			AIREDALE / MODINE	CMP 048	1 - 5
NOTES : 1. WALL OPENING BY GC. 2. VERIFY EXACT LOCATION IN FIELD WITH ARCHITECT. 3. PROVIDE WITH MANUFACTURER CONDENSATE DRAIN KIT IF AVAILABLE. PROVIDE WORK TO INSTALL CONDENSATE PIPE FROM UNIT TO NEAREST SAFE WASTE OR SANITARY RISER. 4. PROVIDE WALL SLEEVE, SPLITTER, AND WALL MOUNTED PROGRAMMABLE THERMOSTAT. 5. PROVIDE UNIT WITH INTEGRAL TOTAL ENERGY HEAT WHEEL. 6. OPTIONAL 6" REAR EXTENSION.																

AIR OUTLET / INLETS							
TAG	SYSTEM	BASIS OF DESIGN		DESCRIPTION	SIZE	MAX. NC	NOTES
		MANUF.	MODEL				
SAG-1	SUPPLY	ANEMOSTAT	S2H	WALL MOUNTED, STEEL, ADJUSTABLE DEFLECTION SUPPLY GRILLE	AS SHOWN	<22	1
SAG-2	SUPPLY	ANEMOSTAT	AL-250	FLOOR MOUNTED, 15° DEFLECTION, 1/2" SPACING, SUPPLY GRILLE	AS SHOWN	<22	1
TAG-1	TRANSFER	TITUS	355FL	WALL MOUNTED, ALUMINUM, 35° DEFLECTION TRANSFER GRILLE	AS SHOWN	<22	1
RAG-1	RETURN	ANEMOSTAT	AL-450	FLOOR MOUNTED, STEEL, 45° DEFLECTION, RETURN GRILLE	AS SHOWN	<22	1
NOTES: 1. REFER TO PLAN FOR LOCATION, CFM, AND SIZE							



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HACP Northview
Heights Police
Station-Task
Order 71
441 Mt Pleasant Road
Pittsburgh, PA 15214

Permit Drawings

ISSUED: 04-05-19
REVISIONS

Mechanical
Schedules and
Details

R3A PROJECT # 18019



M-600

Proj. No: 18-054



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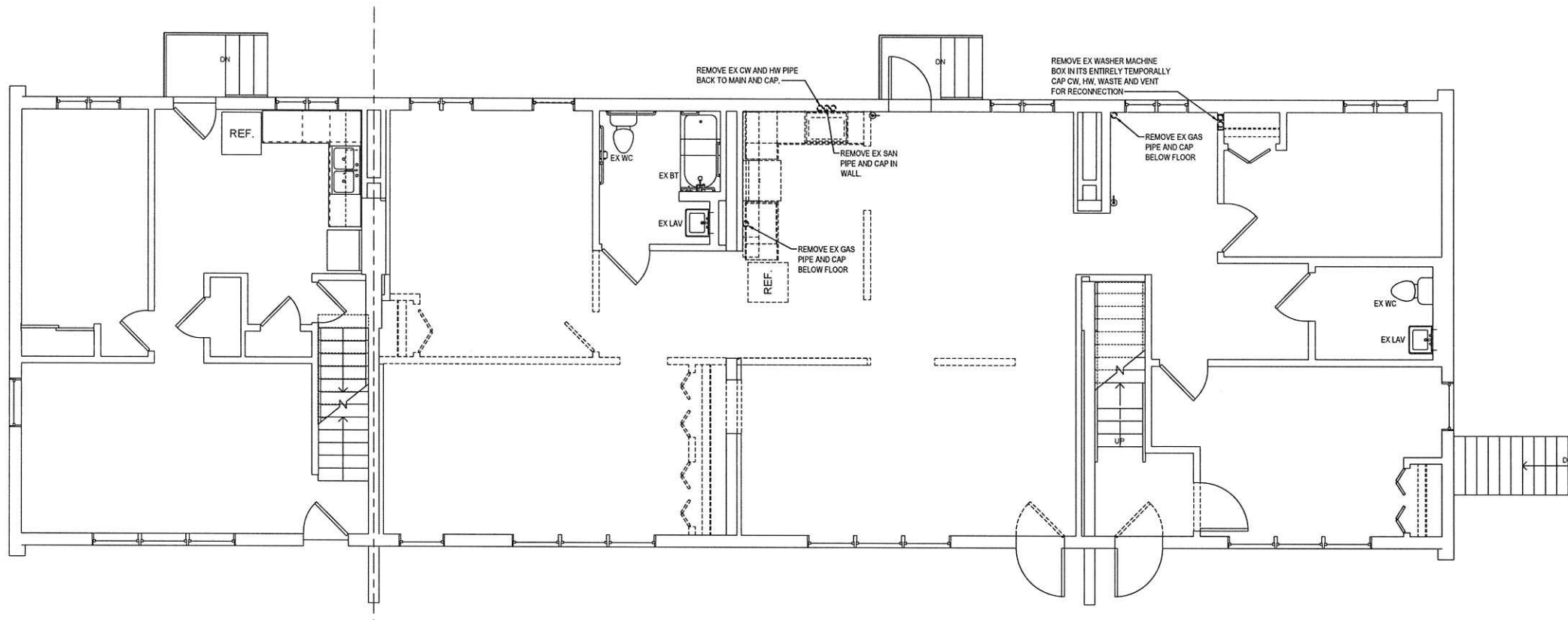
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REVISIONS

Mechanical
Specifications

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MECHANICAL SPECIFICATIONS			
<p>MECHANICAL WORK SPECIFICATIONS</p> <p>GENERAL</p> <p>RELATED DOCUMENTS - THE OWNER'S GENERAL CONDITIONS, THE SUPPLEMENTARY GENERAL CONDITIONS AND OWNERS GENERAL REQUIREMENTS FORM A PART OF THE CONTRACT AND ALL SUBCONTRACTS AND SHALL GOVERN THE WORK PERFORMED UNDER EACH SECTION OF THE SPECIFICATION.</p> <p>SCOPE OF WORK - PROVIDE ALL MATERIALS, TOOLS AND LABOR REQUIRED TO PERFORM THE WORK SHOWN ON THE DRAWING AND DESCRIBED IN THESE SPECIFICATIONS. THE MECHANICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR HIS WORK.</p> <p>WORK SHALL INCLUDE PROVISIONS FOR:</p> <ul style="list-style-type: none">- DEMO PORTIONS OF EXISTING DUCTWORK- NEW SELF-CONTAINED HEAT PUMP- LOW PRESSURE DUCTWORK- CONDENSATE WASTE PIPING- DUCTWORK, GRILLES, DIFFUSERS- ELECTRIC/ELECTRONIC CONTROLS, POWER WIRING TO CONTROL DEVICES AND PANELS- AIR BALANCING- ROOF EXHAUST FANS, PROPELLER FANS <p>REGULATORY REQUIREMENTS - ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES INCLUDING INTERNATIONAL BUILDING CODE AND THE INTERNATIONAL MECHANICAL CODE AS ADOPTED BY THE LOCAL GOVERNMENT. NOTHING IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED TO CONFLICT WITH ANY LAWS, ORDINANCES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE CONTRACT WORK AND ALL REQUIREMENTS SHALL BE COMPLIED WITH THROUGHOUT, WITHOUT ADDITIONAL COST TO THE OWNER.</p> <p>INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS WHICH SHALL BE AVAILABLE AT THE JOB SITE.</p> <p>SITE VISIT - CONTRACTORS ESTIMATING THIS WORK SHALL VISIT THE SITE AND FULLY INFORM THEMSELVES OF THE NATURE OF THE WORK AND CONDITIONS, AND OBTAIN ALL NECESSARY INFORMATION TO ESTIMATE AND EXECUTE THE WORK. FAILURE TO DO SO WILL IN NO WAY OBLIGATE THE OWNER FOR ANY OMISSIONS OR ERRORS RESULTING FROM SUCH NEGLIGENCE.</p> <p>DRAWINGS - WHILE THE DRAWINGS SHOW THE GENERAL LOCATION, ARRANGEMENT AND EXTENT OF WORK TO BE DONE, THE EXACT SIZES, LOCATIONS AND ARRANGEMENT ARE SUBJECT TO CONDITIONS EXISTING AT THE BUILDING.</p> <p>SHOP DRAWING - PROVIDE FOR HEAT PUMP, DIFFUSERS, GRILLES, SHEETMETAL AND FLEXIBLE DUCTWORK, AUTOMATIC TEMPERATURE CONTROLS, PIPING ACCESSORIES, AND SHALL BE SUBMITTED TO THE ENGINEER FOR EXAMINATION AND COMMENT.</p> <p>PROCEDURE AND COORDINATION - PIPE LINES, CONDUITS, ETC., OTHER THAN MECHANICAL CONTRACT WORK SHALL BE UNDER INSTALLATION THROUGHOUT THE BUILDING SITE AND THIS CONTRACTOR SHALL CONSULT WITH ALL OTHER TRADES TO COORDINATE THE ASSEMBLY AND INSTALLATION OF ALL TRADES TO AVOID CONFLICT AND NEED FOR REARRANGEMENT, AS NO EXTRAS SHALL BE GRANTED DUE TO LACK OF COORDINATION.</p> <p>THE CONTRACTOR SHALL SCHEDULE HIS WORK AT THE CONVENIENCE OF THE OWNER TO MINIMIZE INTERFERENCE WITH BUILDING AND PLANT OPERATIONS.</p> <p>MECHANICAL EQUIPMENT SHALL BE INSTALLED IN A MANNER TO PERMIT EASE OF SERVICE AND THE MECHANICAL CONTRACTOR SHALL INFORM OTHER TRADES OF ACCESS REQUIREMENT TO PREVENT INTERFERENCE WITH SAME.</p> <p>CUTTING AND PATCHING - CUTTING WHERE NECESSARY FOR MECHANICAL WORK SHALL BE DONE BY THE MECHANICAL CONTRACTOR IN A NEAT AND CAREFUL MANNER TO PREVENT DAMAGE OR WEAKENING OF WALLS, ROOF OR FLOORS AND SHALL MEET THE APPROVAL OF THE ENGINEER. PATCHING CAUSED BY THE MECHANICAL CONTRACTOR SHALL BE DONE BY THE MECHANICAL CONTRACTOR.</p> <p>ASBESTOS OR CONTAMINATED MATERIAL REMOVAL - IF ASBESTOS OR CONTAMINATED MATERIAL IS ENCOUNTERED DURING DEMOLITION OPERATIONS, OR ANY OTHER PHASE OF THE WORK, CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY THE OWNER. AT NO TIME SHALL THE CONTRACTOR REMOVE OR ATTEMPT TO REMOVE ANY MATERIALS WHICH CONTAIN OR IS THOUGHT TO CONTAIN ASBESTOS OR RADIOACTIVITY. THE OWNER WILL REMOVE THESE MATERIALS.</p> <p>ELECTRICAL WORK - THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL POWER WIRING AND CONTROL WIRING FOR HIS WORK. THE ELECTRICAL SUB-CONTRACTOR SHALL OBTAIN POWER FROM THE NEAREST POWER PANEL AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE N.E.C. CODE. WIRING SHALL COMPLY WITH LOCAL AND COUNTY CODES.</p> <p>MOTOR STARTER - MOTOR STARTERS SHALL BE COMBINATION TYPE, NON-REVERSING, WITH HAND-OFF-AUTO SELECTOR SWITCH ON PANEL FACE, RED "ON" INDICATION LIGHT AND ONE SET OF N.O. AND ONE SET OF N.C. AUXILIARY CONTACTS. THE MOTOR CIRCUIT PROTECTOR SHALL BE CIRCUIT BREAKER TYPE.</p> <p>SALVAGE AND SCRAP - REMOVED MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER. UNWANTED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROPERTY AND DISPOSED OF PROPERLY BY THE MECHANICAL CONTRACTOR.</p> <p>PENETRATION SEALS - OPENINGS AROUND THE NEW DUCTS AND PIPES WHERE THEY PASS THROUGH FIRE/SMOKE PARTITIONS SHALL BE PACKED WITH AN APPROVED MATERIAL TO PREVENT THE SPREAD OF FIRE OR PRODUCTS OF COMBUSTION. SUITABLE PRODUCTS OF 3-M OR DOW CORNING SHALL BE USED.</p> <p>WORK BY OTHERS - CERTAIN LABOR AND MATERIALS WHICH ARE REQUIRED TO ACCOMMODATE THE MECHANICAL WORK BUT WHICH ARE NOT INCLUDED IN THIS CONTRACT ARE AS FOLLOWS:</p> <p>THE GENERAL CONTRACTOR SHALL INSTALL FLASH ROOF CURBS AND PIPE PORTALS AND ROOF-TOO UNIT CURBS PROVIDED BY THE MECHANICAL CONTRACTOR. PATCH ROOFING AND FLASH AS REQUIRED.</p> <p>THE GENERAL CONTRACTOR SHALL CUT ALL HOLES THROUGH THE ROOF REQUIRED FOR THE INSTALLATION OF MECHANICAL EQUIPMENT AND PIPING.</p> <p>THE GENERAL CONTRACTOR SHALL INSTALL AND CAULK THE WEATHER LOUVERS PROVIDED BY THE MECHANICAL CONTRACTOR. THIS INCLUDES CUTTING THE OPENING AND PROVIDING LINTELS AS REQUIRED.</p> <p>THE GENERAL CONTRACTOR SHALL PROVIDE ALL STRUCTURAL MEMBERS REQUIRED TO SUPPORT ROOFTOP EQUIPMENT.</p> <p>THE ELECTRICAL CONTRACTOR SHALL PROVIDE ADEQUATE ELECTRICAL SERVICE FOR NEW MECHANICAL EQUIPMENT AND INSTALL ALL POWER WIRING AND ELECTRICAL DEVICES AS SHOWN ON THE MECHANICAL DRAWINGS OR REQUIRED.</p>	<p>TEMPORARY HEAT - THE COST OF TEMPORARY HEAT, EXCLUDING FUEL AND UTILITY COSTS SHALL BE AT THE EXPENSE OF THE MECHANICAL CONTRACTOR. THE MECHANICAL TRADE SHALL PROVIDE THE MEANS OF TEMPORARY HEAT. NEW MECHANICAL EQUIPMENT AND SYSTEMS SHALL NOT BE USED FOR TEMPORARY HEAT. SUPPLEMENTAL EQUIPMENT TYPE AND PLACEMENT SHALL BE COORDINATED BETWEEN THE MECHANICAL TRADE AND GENERAL TRADE. AIR HANDLING SYSTEMS SHALL BE OPERATED FOR TEMPORARY HEAT ONLY WITH THE AIR FILTERS IN PLACE WHICH SHALL BE CHANGED AND THE DUCTWORK AND EQUIPMENT CLEANED BEFORE FINAL ACCEPTANCE OF THE SYSTEM. THE EXISTING SYSTEMS MAY BE USED FOR TEMPORARY HEAT AND THEN REMOVED WHEN THE PERMANENT SYSTEM IS INSTALLED. IN NO EVENT SHALL THE MECHANICAL CONTRACTOR'S ONE YEAR WARRANTY BE VOIDED.</p> <p>WARRANTY - THE CONTRACTOR SHALL WARRANT HIS WORKMANSHIP, MATERIALS AND ALL EQUIPMENT FOR A PERIOD OF ONE YEAR. THE CONTRACTOR SHALL REPAIR, REPLACE OR CORRECT ANY ITEM THAT IS FOUND DEFECTIVE IN THE TIME PERIOD OF ONE YEAR AFTER WHEN THE PROJECT IS ACCEPTED BY THE OWNER.</p> <p>INSULATION</p> <p>INSULATION COVERING - ALL INSULATION MATERIALS SHALL BE U.L. RATED NOT TO EXCEED 25 FOR FLAME SPREAD, 50 FOR FUEL CONTRIBUTED, AND 50 FOR SMOKE DEVELOPED.</p> <p>ALL AIR CONDITIONING SUPPLY DUCTWORK EXCEPT WHERE NOTED ON THE DRAWINGS AS HAVING DUCT LINER, SHALL BE COVERED WITH 2" THICKNESS, 1-1/2 POUND DENSITY GLASS FIBER BLANKET INSULATION WITH FOIL SCORIM KRAFT VAPOR BARRIER FACING. COVERING SHALL BE WRAPPED AROUND DUCTWORK (BUTT ALL EDGES) AND HELD IN PLACE WITH CONTINUOUS APPLICATION OF ADHESIVE TO THE METAL SURFACE. JOINTS AND SEAMS SHALL BE PAINTED WITH VAPOR BARRIER MASTIC AND COVERED WITH 4" WIDE MATCHING TAPE. DO NOT INSULATE RETURN OR EXHAUST DUCTWORK UNLESS OTHERWISE INDICATED ON DRAWING.</p> <p>REPAIR ANY EXISTING INSULATION DAMAGED BY THE NEW WORK. ALL INSULATION COVERING SHALL BE DONE BY MECHANICS SPECIALLY TRAINED IN THIS CLASS OF WORK AS EMPLOYED BY A RECOGNIZED INSULATION CONTRACTOR.</p> <p>WHEN DUCTWORK WHERE INDICATED IS TO BE INSULATED USING INTERNAL ACOUSTICAL LINER, OMIT EXTERNAL INSULATION.</p> <p>PIPING</p> <p>COOLING COIL CONDENSATE DRAINS - PIPE SHALL BE SCHEDULE 40 CPVC (FOR FIRE RETARDANT) WITH MATCHING FITTINGS SOLVENT WELDED.</p> <p>WHERE WATER PIPING OF DISSIMILAR METALS IS JOINED, THE CONNECTION SHALL BE MADE WITH "CLEARFLOW" DIELECTRIC COUPLINGS AS MANUFACTURED BY VICTAULIC COMPANY OF AMERICA.</p> <p>PIPE TESTING</p> <p>WATER PIPING SHALL BE TESTED TO 150 PSIG HYDROSTATIC PRESSURE FOR LEAKS AND REPAIRED AS NECESSARY BEFORE INSULATION IS APPLIED.</p> <p>ALL LEAKS SHALL BE REPAIRED BY DISMANTLING AND REBUILDING OR AS OTHERWISE DIRECTED. NO TEST PRESSURES SHALL BE APPLIED TO ANY DEVICE OR SPECIALTY NOT DESIGNED FOR SUCH PRESSURES. TESTS SHALL BE RUN BEFORE PIPING IS INSULATED OR CONCEALED.</p> <p>PIPE HANGERS - CLEVIS TYPE HANGERS SHALL BE USED FOR SUPPORT OF ALL HORIZONTAL PIPING AND SHALL BE SPACED NO MORE THAN 10 FEET ON CENTERS. ALL WATER PIPING SHALL BE RUN LEVEL. PIPE SUPPORT SHALL BE ON THE OUTSIDE OF THE INSULATION. OUTDOOR PIPING SHALL BE SUPPORTED USING UNISTRUT DEVICES WITH RUBBER ISOLATORS AT PIPE CLAMPS AND PAINTED TO PREVENT RUSTING.</p>	<p>AIR DISTRIBUTION</p> <p>SHEETMETAL DUCTWORK - ALL NEW DUCTWORK SHOWN ON THE DRAWING SHALL BE CONSTRUCTED OF GALVANIZED STEEL (UNLESS OTHERWISE INDICATED). ALL SUPPLY DUCTWORK UPSTREAM FROM THE AIR TERMINALS SHALL BE CONSIDERED "MEDIUM PRESSURE" TYPE. ALL OTHER DUCTWORK SHALL BE CONSIDERED "LOW PRESSURE" TYPE. SEE SCHEDULE ON THE DRAWINGS.</p> <p>CENTERLINE RADIUS OF ELBOWS SHALL NOT BE LESS THAN THE WIDTH OF THE DUCT. ALL SQUARE ELBOWS SHALL BE FITTED WITH DOUBLE WALL TURNING VANES. ALL FLAT SIDES OF DUCTS OVER 18" WIDE SHALL BE CROSS BROKEN. ALL DUCTS SHALL BE RIGIDLY HELD OR FASTENED IN PLACE BY STRAPS OR CHANNEL SUPPORTS DEPENDING ON SIZE AND ARRANGEMENT. DETAILS OF DUCT CONSTRUCTION SHALL BE IN ACCORD WITH THE MANUAL PUBLISHED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA), AND ALL DUCT SYSTEMS SHALL MEET NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS.</p> <p>ALL ROUND DUCTWORK (GALVANIZED) SHALL BE SPIRAL SEAM TYPE AND FITTINGS SHALL BE "LOW-LOSS" FACTORY WELDED SEAM TYPE (INCLUDING CONICAL AND 45 DEGREE BRANCH TAKEOFFS) AS MANUFACTURED BY UNITED SHEET METAL OR EQUAL.</p> <p>PROVIDE MANUAL VOLUME DAMPERS WHERE UPSTREAM OF ALL GRILLES, REGISTERS, AND DIFFUSERS. USE SINGLE BLADE DAMPERS FOR DUCT SIZES UP TO 10" X 30"; FOR LARGER DUCTS USE MULTIBLADE DAMPERS OF OPPOSED BLADE PATTERN. PROVIDE LOCKING, INDICATING QUADRANT REGULATORS. FOR EXTERNALLY INSULATED DUCTWORK, PROVIDE EXTENDED REGULATORS TO MAINTAIN CONTINUITY OF INSULATION AND VAPOR BARRIER.</p> <p>ALL SEAMS AND JOINTS SHALL BE SEALED AIRTIGHT (SEAL CLASS A) USING APPROPRIATE DUCT SEALANT AS MANUFACTURED BY UNITED SHEET METAL PROPERLY APPLIED.</p> <p>DUCT ACCESS DOORS SHALL BE PROVIDED WHERE SHOWN OR REQUIRED TO REACH FIRE DAMPERS, SMOKE DAMPERS, ETC. ALL DUCT ACCESS DOORS SHALL BE DOUBLE WALL HINGED TYPE WITH GASKETS AND ONE OR TWO ECCENTRIC LATCHES AS REQUIRED.</p> <p>DUCTWORK INDICATED TO HAVE ACOUSTICAL LINER SHALL BE LINED WITH ONE INCH THICK FIBERGLASS ACOUSTICAL LINER WITH NEOPRENE COATING. DUCT SIZE SHOWN IS CLEAR INSIDE. WHERE LINER IS USED INCREASE OUTSIDE DIMENSIONS OF SHEET METAL TO MAINTAIN INSIDE DUCT AREA.</p> <p>BEFORE ANY DUCTWORK IS INSTALLED, THIS CONTRACTOR SHALL BE CERTAIN THAT SUFFICIENT SPACE IS AVAILABLE TO MAINTAIN THE PROPER CEILING HEIGHT. WHERE DUCTS OF SIZE SHOWN CANNOT BE INSTALLED, DIMENSIONS MAY BE ALTERED TO AN EQUIVALENT SIZE AS APPROVED. IF RESIZING DUCTWORK DOES NOT RESOLVE ISSUE, REPORT DETAILS TO ENGINEER.</p> <p>FIRE DAMPERS - FIRE DAMPERS SHALL BE UL LISTED WITH A 1 1/2 HOUR RATING AND DYNAMIC CLOSING RATING IN ACCORDANCE WITH UL555. DAMPERS IN LOW PRESSURE DUCTWORK SHALL BE LOW PRESSURE DROP PREFCO MODEL "LPB" WITH A STAINLESS STEEL SHUTTER AND 165 DEGREE F. FUSIBLE LINK (212 DEGREE F. FOR HOT DUCTS). DAMPERS IN MEDIUM PRESSURE DUCTWORK SHALL BE SAME AS ABOVE EXCEPT MODEL "LPC". PROVIDE HINGED PANEL TYPE DUCT ACCESS DOORS WITH CAM LOCKING DEVICES FOR INSPECTING AND RESETTING FIRE DAMPERS. EQUAL PRODUCTS MANUFACTURED BY GREENHECK, ARROW AND RUSKIN ARE ACCEPTABLE AS APPROVED.</p> <p>FILTER GAGES - DIRECT READING DIAL-3, 1/2 INCH DIAMETER DIAPHRAGM ACTUATED DIAL IN METAL CASE, VENT VALVES, BLACK FIGURES ON WHITE BACKGROUND, FRONT RECALIBRATION ADJUSTMENT, RANGE 0 TO 2 INCH IWG, 2 PERCENT OF FULL SCALE ACCURACY, SERIES 2000, MANUFACTURED BY Dwyer INSTRUMENTS, INC.</p> <p>ACCESSORIES: STATIC PRESSURE TIPS WITH INTEGRAL COMPRESSION FITTINGS, 1/4 INCH ALUMINUM TUBING, 2-WAY OR 3-WAY VENT VALVES.</p> <p>ALL SHEETMETAL DUCT SURFACES VISIBLE THROUGH GRILLES AND REGISTERS SHALL BE PAINTED FLAT BLACK BY THE MECHANICAL CONTRACTOR TO MAKE SAME INCONSPICUOUS.</p> <p>FLEXIBLE DUCTWORK - FINAL CONNECTION OF DUCTS TO ROOM TERMINAL UNITS AND AIR DIFFUSERS SHALL BE MADE WITH INSULATED FLEXMASTER TYPE 3M (UL RATED AT 4000 FPM VELOCITY) FLEXIBLE ROUND DUCTWORK AND SHALL BE INSTALLED IN STRICT ACCORD WITH THE MANUFACTURER'S INSTRUCTIONS. BEFORE JOINING ALL MATING SURFACES OF FLEXIBLE CONDUIT AND ROUND DUCTWORK SHALL BE PAINTED WITH SEALANT. AFTER JOINING THE CONNECTION SHALL BE SECURED WITH IDEAL WRAPLOCK MODEL 5900 OR EQUAL CLAMP. IN NO CASE SHALL FLEXIBLE DUCT EXCEED 4 FEET. DUCTS PASSING THRU PARTITIONS MUST BE RIGID. DUCTS SHALL MEET UL 181 AND LABELED WITH A MAXIMUM SMOKE GENERATION OF 50, AND FLAME SPREAD OF 25.</p> <p>ALL DIFFUSERS, GRILLES, AND REGISTERS SHALL BE AS MANUFACTURED BY TTUS INC. AND SHALL HAVE FACTORY OFF-WHITE FINISH. EQUAL PRODUCTS MANUFACTURED BY ANEMOSTAT, PRICE INDUSTRIES AND TUTTLE & BAILEY ARE ACCEPTABLE AS APPROVED.</p>	



1 PLUMBING FIRST FLOOR DEMOLITION PLAN
SCALE: 3/8" = 1'-0"



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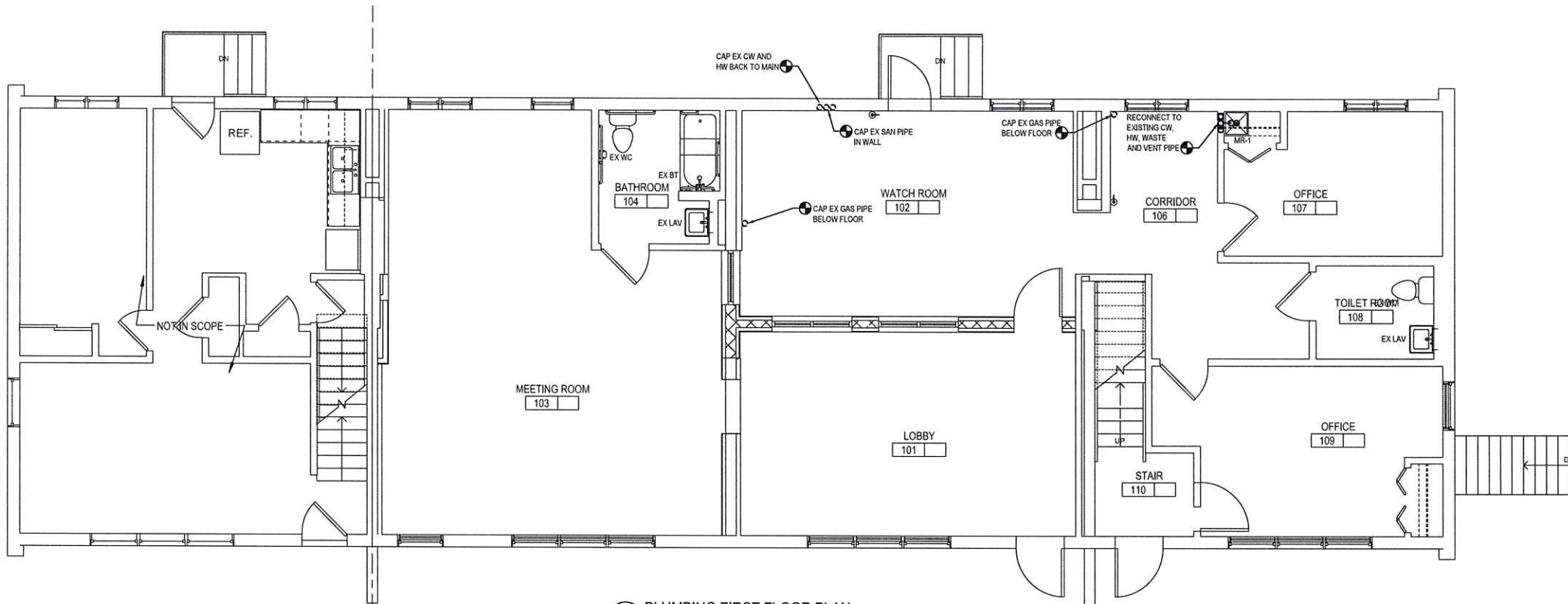
Plumbing
First Floor
Demolition Plan

R3A PROJECT # 18019



PD-111

Proj. No: 18-054



1 PLUMBING FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE						
TYPE	DESCRIPTION	WASTE	VENT	HOT WATER	COLD WATER	REMARKS
NR-1	MOP RECEPTOR (24"x24"x12")	2"	1 1/2"	1/2"	1/2"	FIAT: MOP SERVICE BASIN MODEL MSB 2424 MOLDED STONE MOP BASIN FLOOR MOUNTED, WITH 10" HIGH WALLS AND 1" SHOULDERS, FLAT STAINLESS STEEL STRAINER, STAINLESS STEEL DRAIN BODY, 5' LONG FLEXIBLE HEAVY DUTY 50" RUBBER HOSE CLOTH WITH 3/4 CHROME COUPLING AT ONE END, MOP BRACKET, AND STAINLESS STEEL WALL GUARDS, KOSHER SERVICE SINK FAUCET MODEL K-897-RP, BRASS CONSTRUCTION, ROUGH PLATE, LEVER HANDLE, SPOUT WALL BRACE, INTEGRAL VACUUM BREAKER, HOSE END SPOUT, STRAINERS, ECCENTRIC ADJUSTABLE INLETS, INTEGRAL SCREWDRIVER WITH COVERING CAPS AND ADJUSTABLE THREADED WALL FLANGES. PROVIDE HOSE CONNECTION OF FAUCETS
SIZES SHOWN IN SCHEDULE ARE MINIMUM REFER TO PLANS FOR ACTUAL SIZES. SEE ARCHITECTURAL PLANS AND ELEVATIONS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.						

PLUMBING SYMBOLS	
	CAPPED CONNECTION
	PIPE UP
	BATH TUB
	EXISTING
	LAVATORY
	MOP RECEPTOR
	WATER CLOSET
	CONNECT TO EXISTING PIPING

PLUMBING SPECIFICATIONS	
1.	FURNISH AND INSTALL ALL PLUMBING PIPING, AND ALL OTHER MINOR AUXILIARY EQUIPMENT AND MATERIALS FOR A COMPLETE PLUMBING SYSTEM AS SHOWN ON THE DRAWINGS.
2.	ALL MATERIALS, TESTING AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODES, NFPA STANDARDS, FEDERAL AND STATE LAWS, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS AND UTILITY COMPANY REGULATIONS.
3.	PERFORMANCE OF ALL WORK SHALL BE SCHEDULED AS APPROVED BY THE OWNER TO AVOID INTERFERENCE WITH FUNCTIONS IN OTHER PARTS OF THE BUILDING, AND TO COORDINATE WITH THE WORK OF OTHER TRADES. NO SERVICES SHALL BE INTERRUPTED WITHOUT PRIOR APPROVAL.
4.	ALL PIPING SHALL BE INSTALLED CONCEALED ABOVE CEILINGS, BEHIND WALLS, IN PARTITIONS OR FURRED SPACES UNLESS OTHERWISE NOTED. ALL SERVICES SHALL RUN OVERHEAD WHERE POSSIBLE, WITH VALVING ACCESSIBLE IN THE AREA CONTROLLED.
5.	OBTAIN PERMITS, AND REQUEST INSPECTIONS FROM ALL AUTHORITIES HAVING JURISDICTION.
6.	INSTALL WORK IN LOCATIONS SHOWN ON DRAWINGS, UNLESS PREVENTED BY PROJECT CONDITIONS.
7.	WASTE AND VENT PIPING 2" SIZE AND SMALLER SHALL BE TYPE "L" COPPER TUBING WITH WROUGHT COPPER SOLDER-JOINT DRAINAGE FITTINGS. SOLDER JOINTS WITH 95-5 SOLDER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
8.	SANITARY SEWER PIPING, BELOW GRADE, PVC SEWER PIPE AND FITTINGS: ASTM D 3034 (OUTSIDE BUILDING LIMITS).
9.	NEW WATER PIPING SHALL BE TYPE "L" COPPER TUBING WITH WROUGHT COPPER FITTINGS MADE UP WITH LEAD FREE SOLDER AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.
10.	POLYETHYLENE PIPE (PEX) A. TUBING: CROSS-LINKED POLYETHYLENE MANUFACTURED TO COPPER TUBE SIZE O.D. SDR 9 AND COMPLIANT WITH ASTM F876, ASTM F877, AND NSF-14. B. FITTING: ASTM F1807, METAL-INSERT TYPE WITH COPPER OR STAINLESS-STEEL CRIMP RINGS AND MATCHING PEX TUBE DIMENSIONS. C. PRESSURE RATING: MINIMUM 160 PSI AT 73 DEGREES F AND 400 PSI AT 180 DEGREES F. D. APPLICATION SPECIALTIES: 1. ACCEPTABLE MANUFACTURER: UPONOR, INC., OR AS APPROVED. 2. COPPER STRAIGHT STUB: 1/2 INCH WITH COMPRESSION FITTING AND MNPT ADAPTOR. 3. COPPER STUB ELL: 1/2" INCH 90-DEGREE TRANSITION FITTING WITH EARS. 4. STRAIGHT-THROUGH SUPPORT: PROVIDES RIGID STRAIGHT-THROUGH SUPPORT FOR 1/2 INCH TUBING AS IT EXISTS FLOOR. 5. WALL SUPPORT BRACKET: PROVIDES RIGID STRAIGHT-THROUGH SUPPORT FOR 1/2 OR 3/4 INCH TUBING AS IT EXISTS THE WALL, 2 INCH ON-CENTER SPACING.
11.	GAS PIPING ABOVE GRADE SHALL BE STEEL PIPE ASTM A53 OR A120 SCHEDULE 40 BLACK. FITTINGS TO BE MALLEABLE IRON OR FORGED STEEL WELDING TYPE. SCREWED JOINTS FOR PIPING 2" AND UNDER, ALL INTERIOR PIPING LOCATED IN INACCESSIBLE SPACES SHALL BE BUTTWELDED.

PLUMBING SYSTEM NOTES	
A.	ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE ORDINANCES, CODES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION. ALL PLUMBING WORK SHALL BE INSPECTED AND APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY FEES AND PERMITS, INCLUDING THE CERTIFICATE OF PLUMBING INSPECTION.
B.	THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SAFETY. ARCHITECT AND/OR ENGINEER SHALL ASSUME NO RESPONSIBILITY FOR WORKMANS, OR PEDESTRIANS SAFETY. NOTHING IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED TO INSTRUCT PROCEDURES OR COMPONENTS FOR PROJECT SAFETY.
C.	NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED TO CONFLICT WITH ANY NATIONAL, STATE, MUNICIPAL, OR LOCAL LAWS OR REGULATIONS GOVERNING THE WORK INDICATED OR SPECIFIED. ALL SUCH REQUIREMENTS SHALL BE SATISFIED BY THE PLUMBING CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
D.	WHERE A CONFLICT ARISES BETWEEN PLANS, SPECIFICATIONS, DETAILS, SCHEDULES, APPLICABLE CODES OR REGULATIONS, THE MOST STRINGENT SHALL APPLY.
E.	THE CONTRACT DOCUMENTS ARE COMPRISED OF DRAWINGS AND SPECIFICATIONS. EACH PLUMBING BIDDER SHALL VISIT SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID PROPOSAL. BIDS SHALL BE BASED ON THE COMPLETE EXAMINATION OF THE DRAWINGS, SPECIFICATIONS AND EXISTING CONDITIONS. NO CONSIDERATION WILL BE GIVEN ANY CONTRACTOR WHO FAILS TO DO SO.
F.	THE WORK UNDER THIS CONTRACT SHALL INCLUDE THE FURNISHING OF ALL NECESSARY MATERIALS, TOOLS, AND LABOR FOR A COMPLETE, AND WORKING INSTALLATION AS DEFINED BY THE PLANS AND SPECIFICATIONS. THE PLUMBING CONTRACTOR SHALL WARRANT THE WORK INDICATED AND SPECIFIED, THE WORK SHALL FUNCTION AS INTENDED, BE COMPLETE IN ALL DETAILS, AND SHALL INCLUDE ALL INDICATED, SPECIFIED, OR REQUIRED ACCESSORIES FOR A FUNCTIONING SYSTEM.
G.	PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES.
H.	CONTRACTOR SHALL REMOVE DEMOLITION DEBRIS COMPLETELY. CONTRACTOR SHALL SCHEDULE WITH THE CONSTRUCTION MANAGER THE TIME, LOCATION AND HAULING ROUTE.
I.	THE PLUMBING CONTRACTOR SHALL CLEAN UP ALL DEBRIS AT THE END OF EACH WORK DAY.
J.	ALL PIPING IS TO BE CONCEALED IN WALLS OR ABOVE CEILING UNLESS NOTED OTHERWISE.
K.	THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR PRIOR TO AND FOR SCHEDULING ANY INTERRUPTION OF ANY BUILDING UTILITY.



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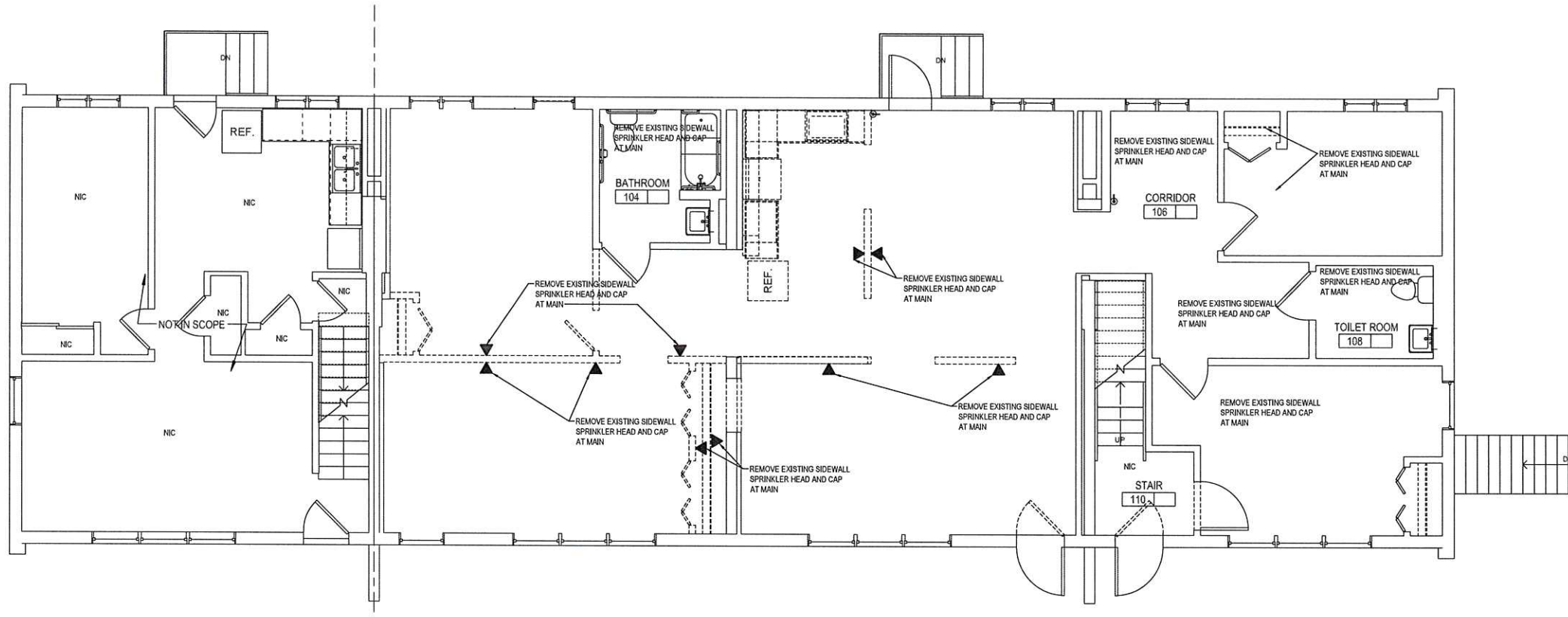
Plumbing
First Floor Plan
Symbols, Notes
& Specification

R3A PROJECT # 18019



P-111

Proj. No: 18-054



1 FIRE PROTECTION FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

FIRE PROTECTION SYMBOLS	
◄	SIDEWALL SPRINKLER HEAD TO BE REMOVED
NIC	NOT IN CONTRACT
EX	EXISTING



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Fire Protection
First Floor
Demolition Plan

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FPD-111

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GENERAL SYMBOLS	
	FEEDER TAG - SEE FEEDER SCHEDULE
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
PR	PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC., TO REMAIN
PRN	PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC., TO BE REMOVED AND REPLACED WITH NEW.
PRR	PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC., SHOWN AT NEW LOCATION.
PRX	PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC., TO BE REMOVED AND OUTLET BOX EXTENSION INSTALLED FOR SURFACE CONDUIT OR SMR AND WIRE EXTENSION TO NEW OUTLET SHOWN. REINSTALL PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC.
RPC	REMOVE PRESENT FIXTURE, SWITCH, DEVICE, ETC., AND CAP OUTLET.
RPP	REMOVE PRESENT FIXTURE, SWITCH, DEVICE, ETC., PATCH THE PLASTER IF IN PLASTER, CAP IF IN METAL OR WOOD.
RPR	REMOVE PRESENT FIXTURE, SWITCH, DEVICE, ETC., TO BE REMOVED AND RELOCATED.
RPX	REMOVE PRESENT FIXTURE, SWITCH, DEVICE, ETC., WIRE AND ALL RELATED EXPOSED RACEWAY INsofar AS IS POSSIBLE. ALL DAMAGED SURFACES TO BE REPAIRED.

WIRING SYMBOLS	
	CONCEALED CONDUIT AND WIRING
	UNDER FLOOR OR UNDER GROUND CONDUIT AND WIRING
	SURFACE CONDUIT AND WIRING
	GROUND CABLE
	WIRING HOMERUN, INDICATES BRANCH CIRCUIT CONDUIT AND WIRE TO PANELBOARD

MOUNTING HEIGHT SCHEDULE	
	FIRE ALARM HORNS/STROBES
	PENDANT MOUNTED LIGHT FIXTURES
6'-0"	TOP OF PANELBOARDS, CABINETS
6'-0"	TOP OF DISCONNECT SWITCHES, STARTERS, AND CONTACTORS
4'-0"	TOP OF ACTUATING DEVICE ON LIGHT SWITCHES, FIRE ALARM PULL STATIONS, MANUAL MOTOR STARTERS OR PUSH BUTTON
CTR	COUNTER TOP RECEPTACLE MOUNT CENTER OF RECEPTACLE 8" ABOVE COUNTER TOP OR BACKSPLASH
3'-6"	WALL MOUNTED HANDICAPPED TELEPHONE OUTLETS
2'-0"	ELECTRICAL RECEPTABLES IN MECHANICAL/ELECTRICAL ROOMS & ELEVATOR MACHINE ROOMS
1'-6"	ELECTRICAL RECEPTABLES (JULIO) COMMUNICATIONS/DATA OUTLETS (JULIO)
0'-0"	FINISHED FLOOR

ACCESS / CONTROL SYMBOLS	
	DOOR RELEASE BUTTON
	FUTURE CARD READER BY HOUSING AUTHORITY - PROVIDE 1" C BACK TO RACK, COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT.
	FUTURE EYE READER BY HOUSING AUTHORITY - PROVIDE 1" C BACK TO RACK, COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT.
	FUTURE KEY PAD BY HOUSING AUTHORITY - PROVIDE 1" C BACK TO RACK, COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT.
	ELECTROMAGNETIC LOCK
	ELECTRONIC STRIKE - PROVIDE ROUGH IN, WIRING BY OTHERS.

LIGHTING SYMBOLS	
	2x2 RECESSED FIXTURE
	2x4 RECESSED FIXTURE
	4' RECESSED FIXTURE
	8' RECESSED FIXTURE
	4' PENDANT MOUNTED FIXTURE
	2x4 PENDANT MOUNTED FIXTURE
	4' SURFACE MOUNTED FIXTURE
	2x4 SURFACE MOUNTED FIXTURE
	STRIP FIXTURE
	SURFACE MOUNT FIXTURE
	WALL WASHER FIXTURE
	WALL MOUNTED FIXTURE
	PENDANT LIGHT

LIGHTING FIXTURE KEY	
	SHADING INDICATES FIXTURE ON EMER. CIRCUIT
	INDICATES FIXTURE TYPE SEE SCHEDULE FOR DESCRIPTION
	INDICATES SWITCH CONTROL (a)
	INDICATES PANEL NAME
	INDICATES CIRCUIT NUMBER

	SINGLE EXIT SIGN CEILING/WALL MOUNT FACE DIRECTION AS SHOWN BY ARROWS.
	DOUBLE EXIT SIGN CEILING/WALL MOUNT FACE DIRECTION AS SHOWN BY ARROWS.
	EMERGENCY LIGHT DUAL HEAD
	EMERGENCY REMOTE DUAL HEAD
	EMERGENCY REMOTE HEAD
	COMBINATION EXIT SIGN AND EMERGENCY DUAL LIGHT HEAD
	DUAL TECHNOLOGY OCCUPANCY SENSOR CEILING/WALL MOUNTED - STANDALONE DEVICE WITH POWER PACK AS REQUIRED
	SINGLE POLE SWITCH

NOMENCLATURE - Xs	
a,b,c	DESIGNATES LIGHT FIXTURE CONTROLLED
3	THREE WAY
4	FOUR WAY
D	DIMMER
DT	DUAL TECHNOLOGY OCCUPANCY SENSOR
E	EMERGENCY
F	FAN
K	KEY OPERATED
L	LOW VOLTAGE (L DENOTES SWITCH NUMBER, REFER TO SCHEDULE)
LV-x	
MC	MOMENTARY CONTACT
M	MANUAL MOTOR STARTER
P	PASSIVE INFRARED OCCUPANCY SENSOR
T	DIGITAL TIMER SWITCH FOR MOTOR LOAD
W	WET LOCATION
OS	OCCUPANCY SENSOR
OS2	OCCUPANCY SENSOR WITH 2 SWITCHES

SECURITY SYMBOLS	
	SECURITY ACCESS CONTROL PANEL
	ELECTRONIC KEY SWITCH
	KEY SWITCH
	GUARD STATION
	PASSIVE INFRARED EYE
	DOOR CONTACT
	ELECTRONIC LOCK DEVICE
	REQUEST TO EXIT
	LOCAL ALARM
	GLASS BREAK SENSOR
	PANIC BUTTON
	INTERCOM BY HOUSING AUTHORITY - PROVIDE 1" C BACK TO RACK, WIRING TBD.
	CAMERA BY HOUSING AUTHORITY - PROVIDE (1) CAT 6 CABLE AND 3/4" C BACK TO RACK

POWER SYMBOLS		
WALL	FLR	CLG

NOMENCLATURE	
+	6" ABOVE COUNTER
+48	MOUNTED 48" A.F.F.
CR	OVERHEAD CORD REEL
GFI	GROUND FAULT INTERRUPTER
IG	ISOLATED GROUND
TR	TAMPER RESISTANT
WP	WEATHER PROOF
#	NUMERICAL NUMBER INDICATES THE NUMBER OF DEVICES

POWER DEVICE KEY	
	INDICATES PANEL NAME
	INDICATES CIRCUIT NUMBER
	DEVICE SYMBOL

	SURFACE RACEWAY WITH 20 AMP DUPLEX OUTLETS 120 V SPACED AS INDICATED
	NEW ELECTRIC PANEL
	EXISTING PANEL
	MOTOR CONNECTION, SINGLE PHASE
	MOTOR CONNECTION, THREE PHASE

DISCONNECT SWITCH KEY	
SIZE	NO. OF POLES
	NEMA TYPE
	FUSED # OR NF

	UNFUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	COMBINATION MOTOR STARTER FURNISHED BY MC INSTALLED BY EC
	MOTOR STARTER FURNISHED BY MC INSTALLED BY EC
	CIRCUIT BREAKER
	GROUNDING TRIODE
	AIR TERMINAL
	LIGHTNING PROTECTION CONNECTION
	LIGHTNING PROTECTION ROOF PENETRATION
	GROUNDING ROD
	HANDHOLE / MANHOLE P - POWER T - TELECOM
	TRANSFORMER-SEE SCHEDULE
	CORD REEL
	METER
	AUTOMATIC TRANSFER SWITCH
	DUAL FACE WALL MOUNTED CLOCK
	WALL / CEILING MOUNTED CLOCK
	PUSH BUTTON
	PUSH BUTTON - 3 POSITION

COMMUNICATION SYMBOLS	
	VOICE OUTLET. PROVIDE 4" SQUARE BOX WITH SINGLE GANG DEVICE BRACKET AND 3/4" EMT CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING - PROVIDE (1) CATEGORY 6 PLENUM RATED CABLE TO TELECOM ROOM INDICATED, COVERPLATE AND CAT 6 VOICE JACKS.
	DATA OUTLET. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MOUNTING BRACKET, ARLINGTON MODEL NUMBER LVM81 OR EQUAL, WITH 3/4" EMT CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING, U.N.O.
	CATV COAX DROP. PROVIDE SINGLE GANG LOW VOLTAGE MOUNTING BRACKET, ARLINGTON MODEL NUMBER LVM81 OR EQUAL, WITH 3/4" EMT CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING, U.N.O.
	WIRELESS ACCESS POINT - PROVIDE (2) CATEGORY 6A PLENUM RATED CABLE TO TELECOM ROOM INDICATED. PROVIDE IN-CEILING BRACKET AND PLENUM RATED SURFACE BOX. LEVITON 41089-2XP WITH 4923-CBC BRACKET. (OR APPROVED EQUAL)

CEILING MOUNTED	WALL MOUNTED

ELECTRICAL NOTES	
1. ALL ELECTRICAL WORK SHALL BE IN ACCORD WITH ALL APPLICABLE ORDINANCES, CODES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION. ALL ELECTRICAL WORK SHALL BE INSPECTED AND APPROVED BY THE LOCAL ELECTRICAL INSPECTION AGENCY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY FEES AND PERMITS, INCLUDING THE CERTIFICATE OF ELECTRICAL INSPECTION.	BE BY THE ELECTRICAL CONTRACTOR.
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SAFETY. ARCHITECT AND/OR ENGINEER SHALL ASSUME NO RESPONSIBILITY FOR WORKMANS, OR PEDESTRIANS SAFETY. NOTHING IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED TO INSTRUCT PROCEDURES OR COMPONENTS FOR PROJECT SAFETY.	17. UPON THE COMPLETION OF WORK THE E.C. SHALL PROVIDE ALL PANELBOARDS WITH TYPED PANEL SCHEDULES TO CLEARLY DEFINE THE EQUIPMENT SERVED.
3. WHERE A CONFLICT ARISES BETWEEN PLANS, SPECIFICATIONS, DETAILS, SCHEDULES, APPLICABLE CODES OR REGULATIONS, THE MOST STRINGENT SHALL APPLY.	18. UPON THE COMPLETION OF WORK THE E.C. SHALL PROVIDE ALL DISTRIBUTION EQUIPMENT WITH TYPED NAMEPLATES TO CLEARLY DEFINE THE EQUIPMENT SERVED AND RECEPTACLE PLATES WITH CIRCUITS SERVING EACH.
4. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED TO CONFLICT WITH ANY NATIONAL, STATE, MUNICIPAL, OR LOCAL LAWS OR REGULATIONS GOVERNING THE WORK INDICATED OR SPECIFIED. THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER SHALL SATISFY ALL SUCH REQUIREMENTS.	19. CHANNELING OF THE FLOORS SHALL BE MINIMIZED.
5. THE CONTRACT DOCUMENTS ARE COMPRISED OF DRAWINGS AND SPECIFICATIONS. EACH ELECTRICAL BIDDER SHALL VISIT SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID PROPOSAL. BIDS SHALL BE BASED ON THE COMPLETE EXAMINATION OF THE DRAWINGS, SPECIFICATIONS AND EXISTING CONDITIONS. NO CONSIDERATION WILL BE GIVEN ANY CONTRACTOR WHO FAILS TO DO SO.	20. REFER TO REFLECTED CEILING PLANS FOR THE COORDINATED PLACEMENT OF LIGHTS, DIFFUSERS, SPRINKLERS, AND RETURN AIR GRIDS.
6. THE WORK UNDER THIS CONTRACT SHALL INCLUDE THE FURNISHING OF ALL NECESSARY MATERIALS, TOOLS, AND LABOR FOR A COMPLETE, AND WORKING INSTALLATION AS DEFINED BY THE PLANS AND SPECIFICATIONS. THE ELECTRICAL CONTRACTOR SHALL WARRANT THE WORK INDICATED AND SPECIFIED FOR A PERIOD OF ONE YEAR. THE WORK SHALL FUNCTION AS INTENDED, BE COMPLETE IN ALL DETAILS, AND SHALL INCLUDE ALL INDICATED, SPECIFIED, OR REQUIRED ACCESSORIES FOR A FUNCTIONING SYSTEM.	21. E.C. SHALL COORDINATE ALL RECEPTACLE AND LIGHT FIXTURES LOCATIONS WITH CASEWORK AND THE OWNERS FIXTURES LAYOUT PLAN WHICH WILL BE DIMENSIONED.
7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY LIGHT AND POWER AS REQUIRED.	22. ALL HOMERUNS WITH MORE THAN SIX (6) TOTAL CONDUCTORS SHALL BE A MINIMUM OF NO. 16 THWN WIRE UNLESS SPECIFICALLY SIZED OTHERWISE.
8. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES. ALL DEVICES PROVIDED BY OTHERS THAT REQUIRE LINE VOLTAGE ELECTRICAL POWER SHALL BE CONNECTED BY THE ELECTRICAL CONTRACTOR. POWER, PHONE, DATA, TV, AND SIMILAR DEVICE OUTLET LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL INTERIOR LAYOUTS, THE GENERAL CONTRACTOR, AND THE OWNER.	23. ALL WORK SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
9. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER'S PROJECT MANAGER PRIOR TO AND FOR SCHEDULING ANY INTERRUPTION OF ANY BUILDING UTILITY.	24. CONTRACTOR SHALL REMOVE DEMOLITION DEBRIS COMPLETELY. CONTRACTOR SHALL SCHEDULE WITH THE OWNER THE TIME, LOCATION, ELEVATOR AND HAULING ROUTE.
10. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR SHALL MEET WITH THE REPRESENTATIVES OF THE ELECTRICAL UTILITY & COMCAST TO CONFIRM DETAILS ON THE SERVICE AND METERING. THE ELECTRICAL CONTRACTOR SHALL PAY ALL NECESSARY COSTS, FEES, AND PERMITS INVOLVED IN BRINGING SERVICE TO THE BUILDING.	25. CONTRACTOR SHALL CLEAN UP ALL DEBRIS AT THE END OF EACH WORK DAY.
11. THE ELECTRICAL CONTRACTOR AT THE SITE SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PERTAINING TO THE INSTALLATION OF THE ELECTRICAL SYSTEMS. WHERE A CONTRACTOR UNCOVERS CONDITIONS NOT INDICATED ON THE PLANS OR IN THE SPECIFICATIONS, HE SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH ANY WORK. FAILURE TO NOTIFY THE ARCHITECT WILL MAKE THE CONTRACTOR RESPONSIBLE FOR ALL COSTS AND CONSEQUENCES OF SUCH FAILURE.	26. EXACT COUNTS/QUANTITIES FOR CONTRACT PURPOSES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND INCLUDED AS PART OF THE BASE BID.
12. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE DESIGN/LAYOUT INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL DETERMINE CIRCUITING, ROUTING, WIRING ETC., AS REQUIRED BY THE SITE CONDITIONS, AND ALL APPLICABLE CODES.	27. REFER TO ARCHITECTURAL DRAWING FOR ALL WALL HEIGHTS.
13. ALL WIRING SHALL BE CONCEALED IN FINISHED AREAS AS SPECIFIED. WHERE PERMITTED IN THE SPECIFICATIONS, USE OF MC CABLE IN CONCEALED AREAS SHALL BE PER N.E.C., LOCAL CODES, AND INSPECTION AGENCY APPROVAL. OTHERWISE, USE EMT CONDUIT, MINIMUM 3/4" UNLESS NOTED OR SPECIFIED OTHERWISE.	28. VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR, PRIOR TO ROUGH-IN. E.C. SHALL ALSO INCLUDE COORDINATION WITH DEVICES BY M.C., WIRING REQUIREMENTS, INTERCONNECTIONS, AND TERMINATIONS AND PROVIDE AS REQUIRED.
14. THE FOLLOWING CONDUCTORS SHALL BE RUN IN HEAVY WALL CONDUIT: 14.1. ALL FEEDERS RUN IN SLAB - MAY BY SCHEDULE 40 PVC. 14.2. WHERE REQUIRED BY THE N.E.C. 14.3. EXPOSED WIRING ON A ROOF - SEAL PROPERLY. 14.4. EXTERIOR, ABOVE GRADE WIRING.	29. ALL CONDUITS RUN IN EXPOSED AREAS SHALL BE MOUNTED TIGHT TO THE UNDERSIDE OF THE STRUCTURAL STEEL. THIS APPLIES FOR ALL BRANCH CIRCUIT AND FEEDER CONDUITS.
15. FOLLOWING FEEDERS SHALL BE IN EMT: 15.1. BRANCH FEEDERS TO PANELS. 15.2. BRANCH RACEWAY RUN EXPOSED.	30. ALL HOLES AND OPENINGS CREATED TO EXTEND THE ELECTRICAL SYSTEMS THROUGH FLOORS AND FIRE RATED ASSEMBLIES SHALL BE FIRE STOPPED.
16. TRENCHING AND BACKFILL FOR UNDERGROUND CONDUITS SHALL	31. DURING THE BIDDING PROCESS, ELECTRICAL CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS OF ALL OTHER TRADES (GENERAL, HVAC, AND PLUMBING). ALL ITEMS REQUIRING POWER INDICATED ON THESE DRAWINGS BUT NOT INDICATED ON THE ELECTRICAL DRAWINGS SHALL BE CONSIDERED A PART OF THE ELECTRICAL CONTRACTORS WORK. THIS WORK SHALL BE INSTALLED AS PER NEC AT NO ADDITIONAL COST TO THE OWNER.
	32. WHERE CONDUIT SIZES HAVE BEEN OMITTED, THE CONTRACTOR SHALL INSTALL THE CORRECT SIZES REQUIRED BY THE N.E.C. AS DETERMINED BY THE NUMBER OF WIRES TO BE INSTALLED. WHERE THE NUMBER AND OR SIZES OF HAVE BEEN OMITTED, THE CONTRACTOR SHALL INSTALL THE REQUIRED NUMBER AND OR SIZES AS DETERMINED BY THE EQUIPMENT REQUIREMENTS OR FROM ADJACENT SECTIONS AND CIRCUIT NUMBERS.
	33. WIRE SIZE FOR BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP CALCULATIONS AS REQUIRED BY NEC. IF CIRCUIT RUN EXCEEDS 100FT. IN WIRE LENGTH, NEXT WIRE SIZE (#10) SHALL BE USED.
	34. STARTERS, COMBINATION STARTERS, CONTRACTORS, ETC., FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. ALL POWER WIRING AND CONDUIT TO EQUIPMENT TERMINALS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. POWER TO MECHANICAL EQUIPMENT SHALL BE TURNED ON ONLY BY THE MECHANICAL CONTRACTOR. MECHANICAL NAME PLATE DATA SHALL NOT BE COVERED BY ELECTRICAL DEVICES.
	35. THE ELECTRICAL CONTRACTOR SHALL FURNISH SUBMITTALS IN ACCORDANCE WITH THE SPECIFICATIONS. ALL SUBMITTALS SHALL BE REVIEWED AND STAMPED BY THE ENGINEER PRIOR TO INSTALLATION.
	36. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS FOR THE ENTIRE PROJECT AS DEFINED IN THE SPECIFICATIONS
	37. THIS CONTRACTOR SHALL VISIT THE SITE AND FULLY INFORM HIMSELF OF ALL THE EXISTING CONDITIONS, WHICH IN ANY WAY WILL AFFECT THE EXECUTION OF HIS WORK AND THE REQUIREMENTS OF THIS CONTRACT AS SHOWN OR REASONABLY INFERRED ON THE DRAWINGS AND PRODUCT SPECIFICATIONS.
	38. COORDINATE ANY BUILDING OUTGAGE SIX WEEKS BEFORE WORK BEGINS, WITH THE HOUSING AUTHORITY.



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REVISIONS

Electrical
Symbols &
General Notes

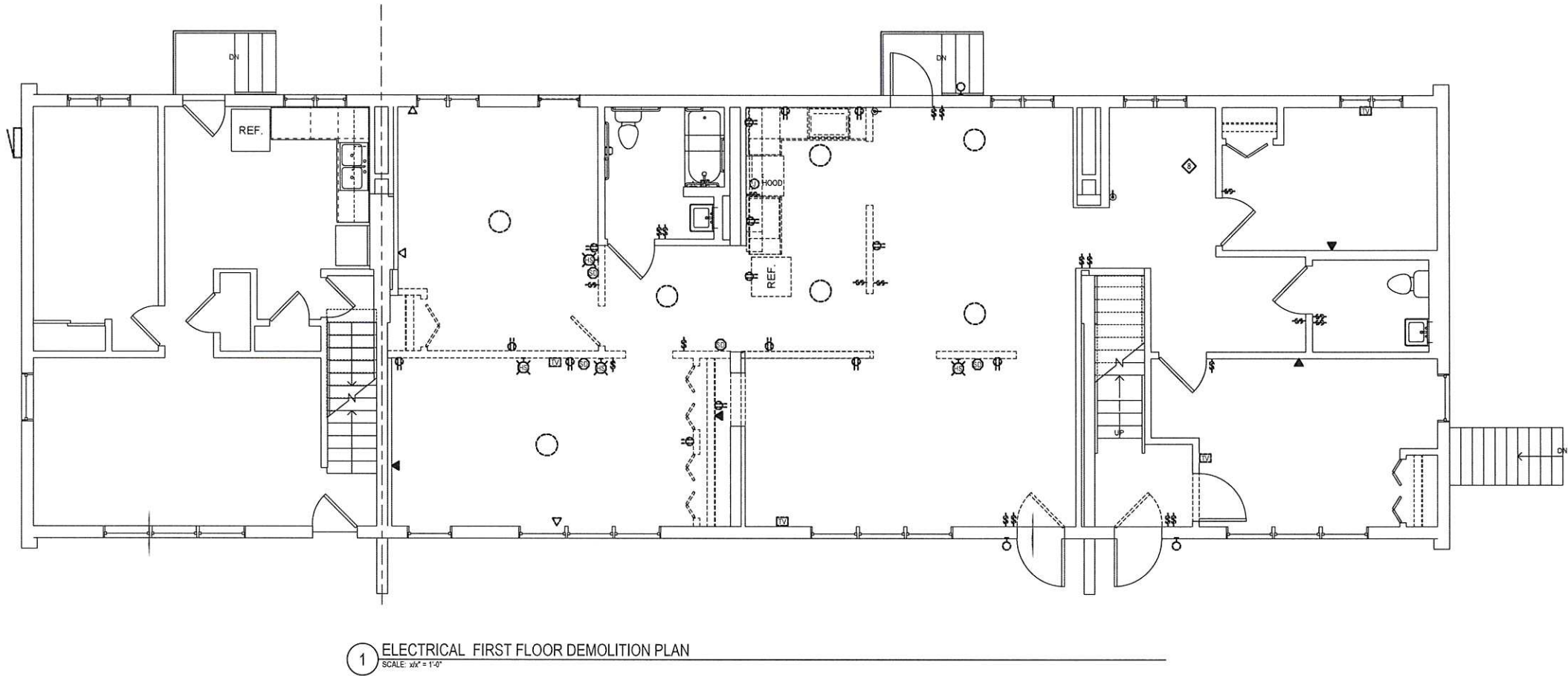
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Proj. No: 18-054

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DEMOLITION NOTES

1. ALL LIGHTING, RACEWAYS, DEVICES, PANELBOARDS, ELECTRICAL DISTRIBUTION, COMMUNICATIONS DEVICES AND ASSOCIATED EQUIPMENT, FIRE ALARM DEVICES AND ASSOCIATED EQUIPMENT AND ALL OTHER ELECTRICAL EQUIPMENT THAT ARE NO LONGER A FUNCTIONING PART OF THE ELECTRICAL SYSTEM OR ANY AUXILIARY ELECTRICAL SYSTEM, SHALL BE DE-ENERGIZED, DISCONNECTED AND REMOVED. THIS CONTRACTOR SHALL PATCH AND PAINT ALL CEILING, WALL OR FLOOR OPENINGS LEFT BY THIS REMOVAL.



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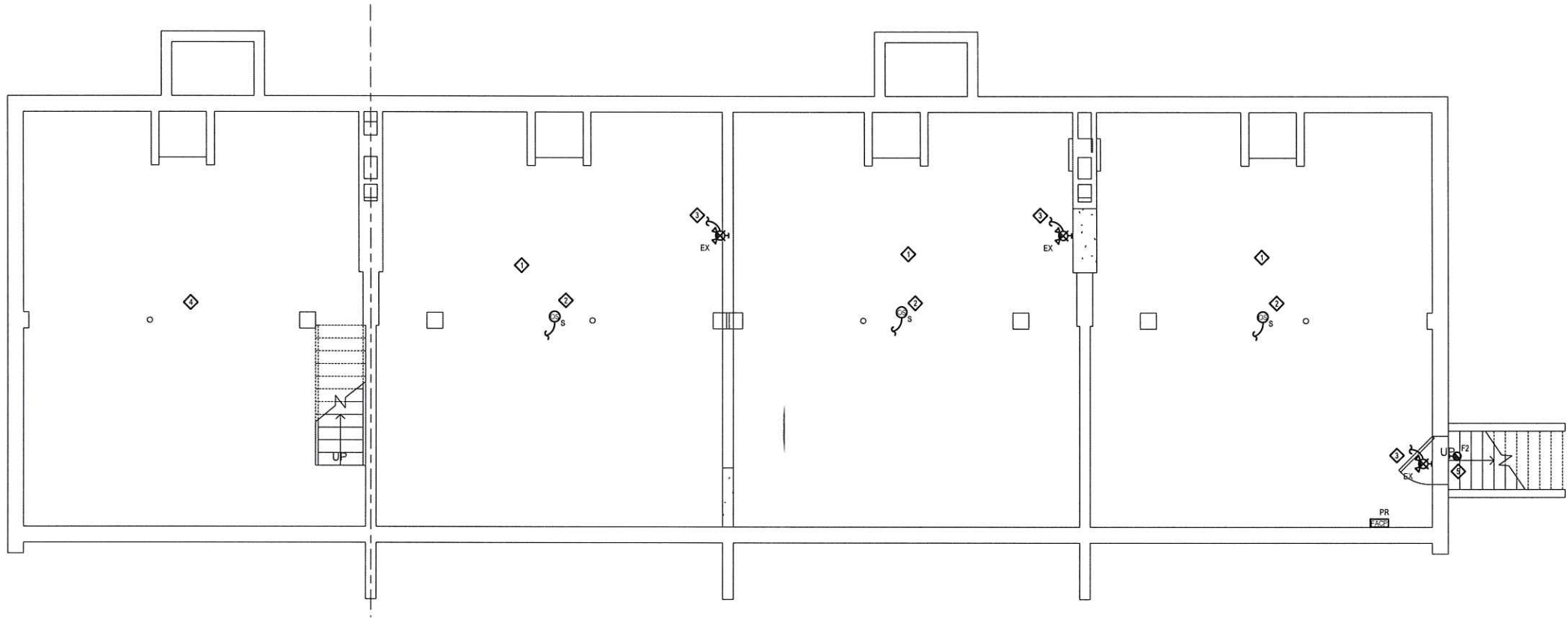
Electrical
First Floor
Demolition Plan

R3A PROJECT # 18019



ED-111

Proj. No: 18-054



1 ELECTRICAL BASEMENT PLAN
SCALE: 1/4" = 1'-0"

- KEY NOTES
- 1 EXISTING LIGHTING TO REMAIN THIS AREA. CLEAN RELAMP EXISTING FIXTURES AND REPLACE DAMAGED FIXTURES WITH SAME MAKE AND MODEL.
 - 2 INTERCEPT EXISTING LIGHTING CIRCUIT THIS AREA AND PROVIDE STANDALONE OCCUPANCY SENSOR FOR LIGHTING THIS AREA. REMOVE WALL BOX TIMER AND BLANK AS REQUIRED.
 - 3 INTERCEPT EXISTING LIGHTING CIRCUIT THIS AREA AND WIRE COMBO EXIT SIGN EM LIGHTING. PROVIDE UNSWITCHED HOT FROM CIRCUIT AS REQUIRED.
 - 4 NO WORK THIS AREA. UNIT NOT IN SCOPE OF WORK.
 - 5 FIXTURE TO BE WIRED TO LOCAL AREA LIGHTING CIRCUIT WITH UNSWITCHED HOT THIS AREA.



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Permit Drawings

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REVISIONS

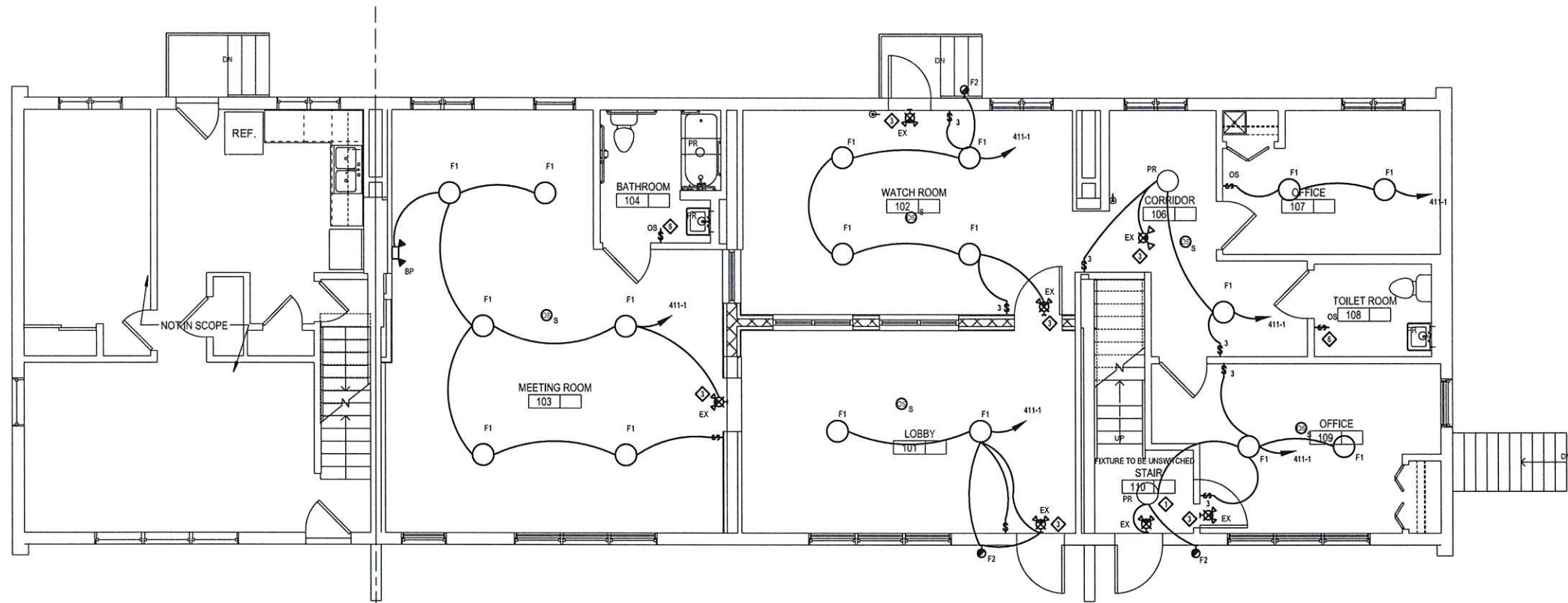
Electrical
Basement Plan

R3A PROJECT # 18019

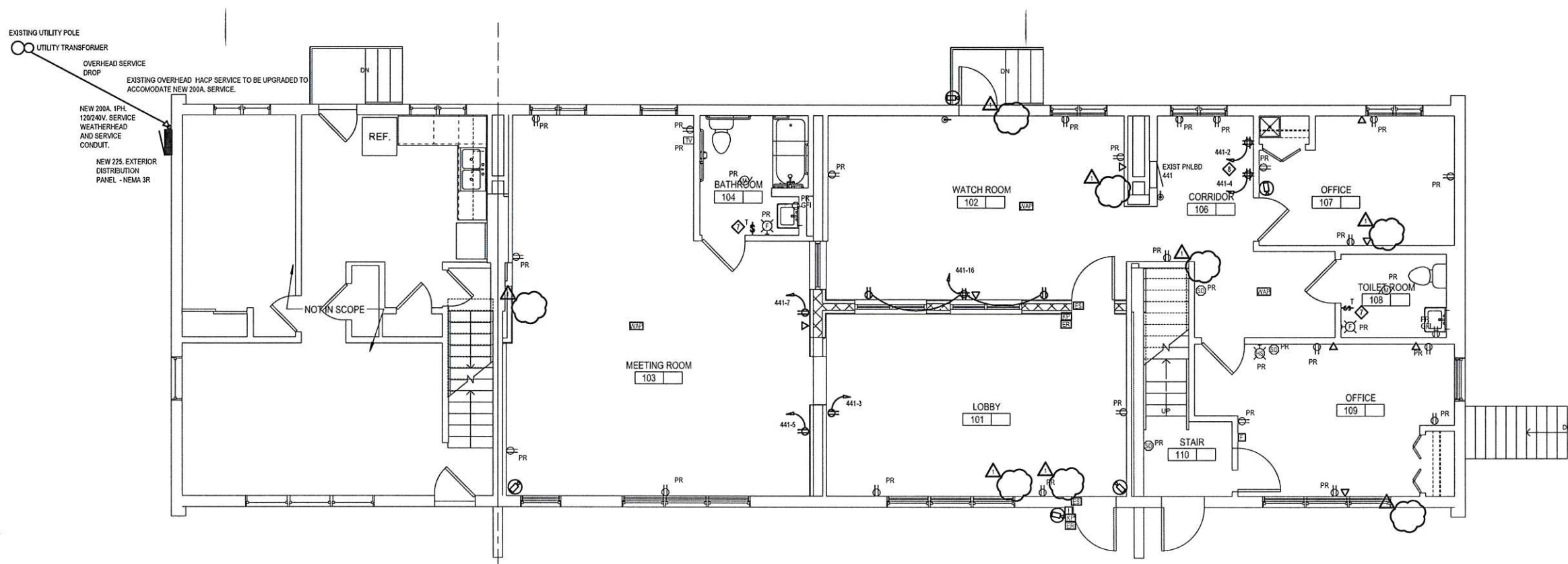


E-101

Proj. No: 18-054



1 LIGHTING FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 POWER FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES
1. EXISTING PRESENT TO REMAIN LIGHTING FIXTURES MARKED 'PR' ARE TO BE CLEANED AND RELAMPED AS REQUIRED. REPLACE ANY DAMAGED FIXTURES WITH SAME MAKE AND MODEL.

KEY NOTES
<ul style="list-style-type: none"> EXISTING FIXTURE TO BE WIRE UNSWITCHED TO INDICATED CIRCUIT. NOT USED. INTERCEPT EXISTING LIGHTING CIRCUIT THIS AREA AND WIRE COMBO EXIT SIGN EM LIGHTING. PROVIDE UNSWITCHED HOT FROM CIRCUIT AS REQUIRED. NO WORK THIS AREA. UNIT NOT IN SCOPE OF WORK. FIXTURE TO BE WIRED TO LOCAL AREA LIGHTING CIRCUIT WITH UNSWITCHED HOT THIS AREA. EXISTING SWITCH TO BE REMOVED AND REPLACED WITH WALLBOX DUAL TECHNOLOGY OCCUPANCY SENSOR BY WATTSTOPPER OR EQUIVALENT. EXISTING EXHAUST FAN SWITCH TO BE REMOVED AND REPLACED WITH WALLBOX DIGITAL TIMER SWITCH RATED FOR MOTOR LOAD, BY WATTSTOPPER OR EQUIVALENT. NEW TELECOMMUNICATIONS RACK LOCATION. EXTEND (2) 1 1/2" C. UP TO SECOND FLOOR FOR FUTURE USE. COORDINATE EXACT LOCATION WITH OWNER. ALL SERVICE ENTRANCE CONDUITS AND RELATED EQUIPMENT TO BE BY HOUSING AUTHORITY.



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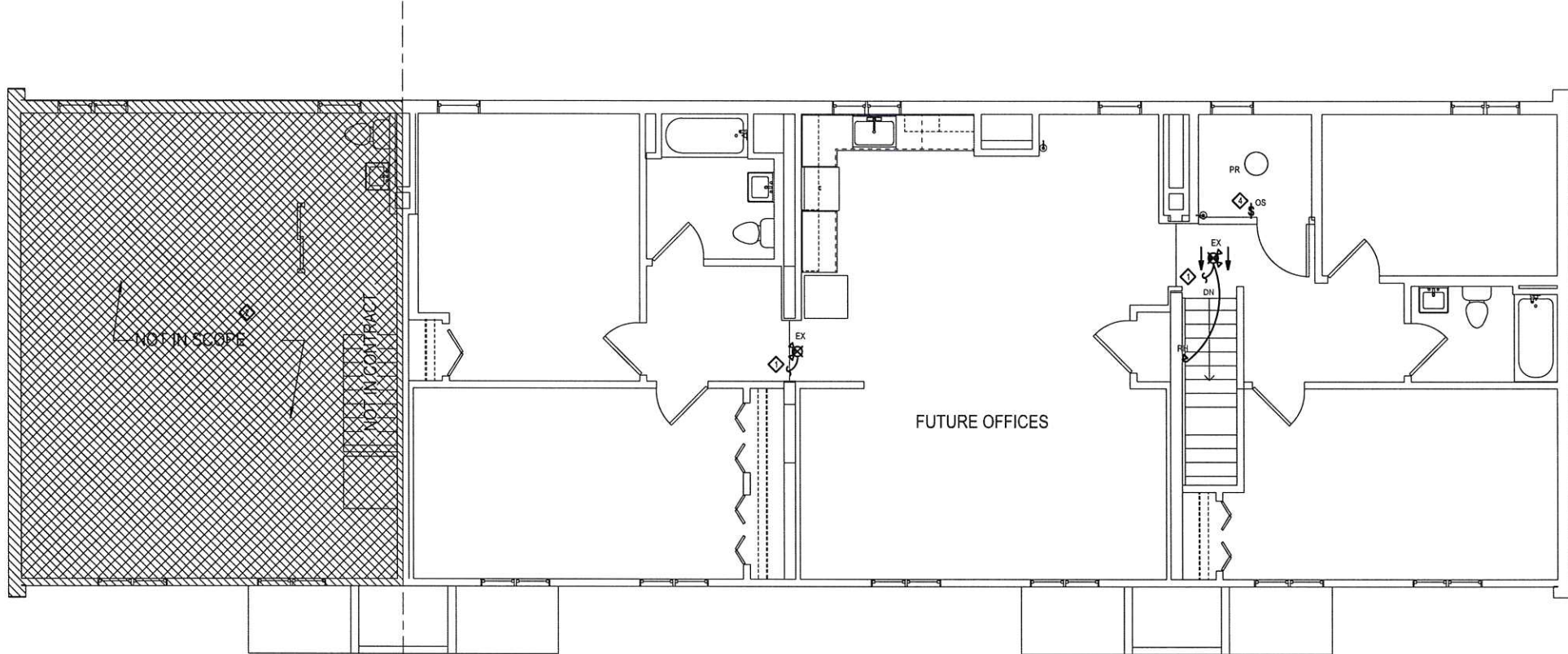
Electrical
First Floor Plan

R3A PROJECT # 18019

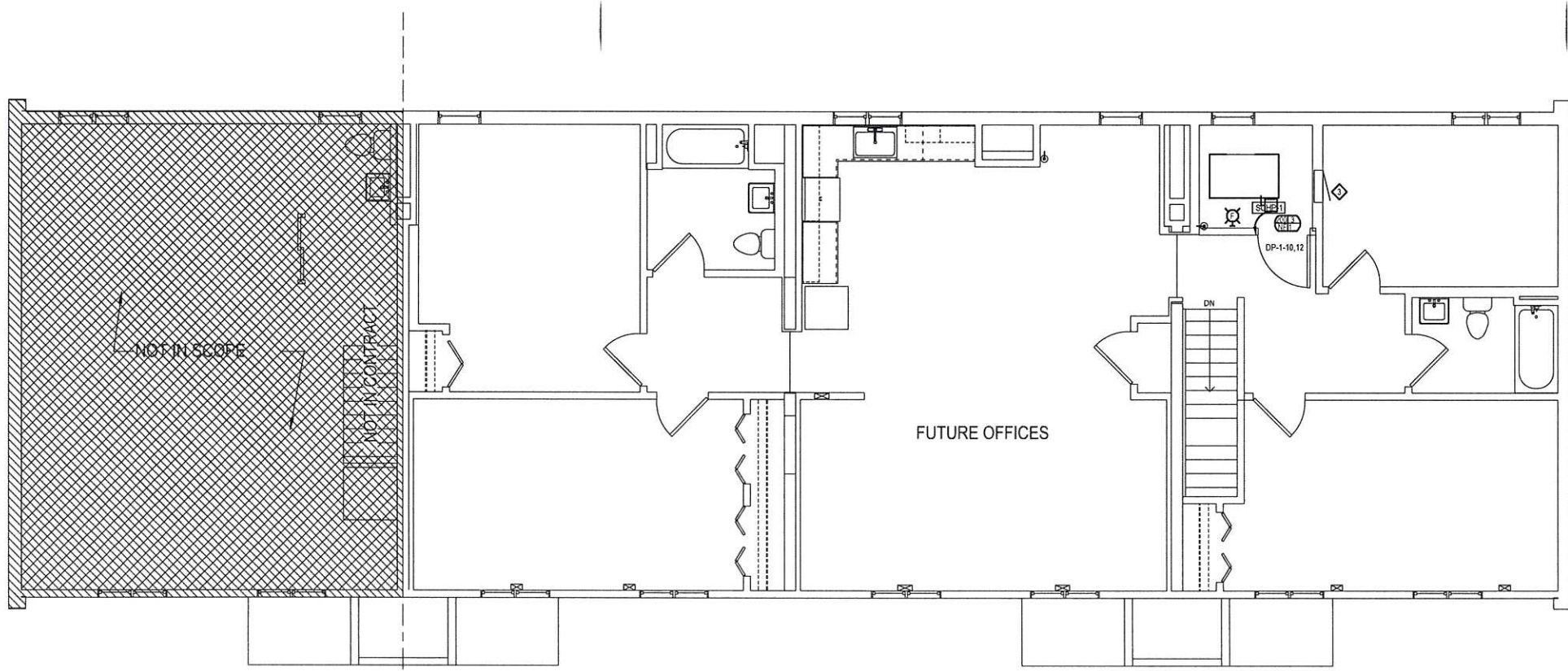
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E-111

Proj. No: 18-054



1 LIGHTING SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 POWER SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"

KEY NOTES	
1	INTERCEPT EXISTING LIGHTING CIRCUIT THIS AREA AND WIRE COMBO EXIT SIGN EM LIGHTING. PROVIDE UNSWITCHED HOT FROM CIRCUIT AS REQUIRED.
2	NO WORK THIS AREA. UNIT NOT IN SCOPE OF WORK.
3	EXISTING PANELBOARD TO BE ROTATED AND RELOCATED TO ACCOMMODATE NEW MECHANICAL UNIT IN ROOM. EXTEND WIRING, CONDUIT AND ALL EXISTING TO REMAIN CIRCUITS AS REQUIRED. FIELD VERIFY PRIOR TO BID.
4	EXISTING SWITCH TO BE REMOVED AND REPLACED WITH WALLBOX DUAL TECHNOLOGY OCCUPANCY SENSOR BY WATTSTOPPER OR EQUIVALENT. EXISTING CIRCUIT TO REMAIN THIS AREA FOR EXISTING LIGHTING.



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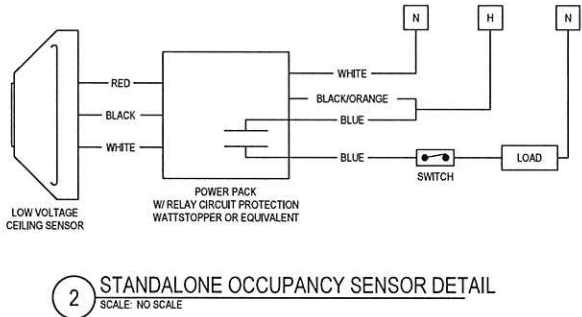
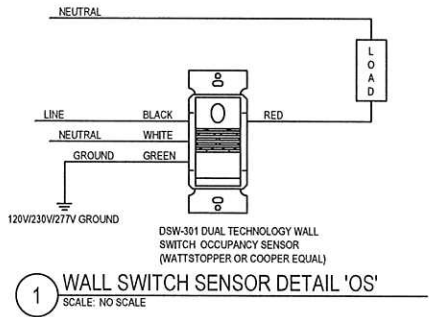
Electrical
Second Floor
Plan

R3A PROJECT # 18019



E-121

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Electrical
Details

R3A PROJECT # 18019



E-602

Proj. No: 18-054

ELECTRICAL SPECIFICATIONS

GENERAL ELECTRICAL REQUIREMENTS

THE WORK COVERED BY THIS DIVISION OF THE CONTRACT CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION AND APPLIANCES REQUIRED IN PERFORMING ALL OPERATIONS IN CONNECTION WITH THE ELECTRICAL CONSTRUCTION WORK.

THIS CONTRACTOR SHALL VISIT THE SITE AND ACQUAINT HIMSELF WITH EXISTING CONDITIONS BEFORE SUBMITTING HIS PROPOSAL.

ALL MATERIALS AND EQUIPMENT FURNISHED FOR THE PROJECT SHALL BE NEW AND OF FIRST QUALITY, PRODUCED BY MANUFACTURERS OF RECOGNIZED REPUTATION. ALL MATERIALS SHALL BE APPROVED BY UNDERWRITERS LABORATORIES, INC.

THIS CONTRACTOR SHALL PROCURE ALL NECESSARY PERMITS, PAYING ALL ASSOCIATED CHARGES, AND FURNISHING THE ARCHITECT WITH EVIDENCE OF THE PERMITS BEFORE COMMENCING THE CONTRACT WORK. FURTHERMORE, A FINAL ELECTRICAL INSPECTION CERTIFICATE SHALL BE FURNISHED TO THE ARCHITECT BY THIS SUBCONTRACTOR PRIOR TO HIS APPLICATION FOR FINAL PAYMENT. IT SHALL BE THE SUBCONTRACTORS RESPONSIBILITY TO NOTIFY THE INSPECTION DEPARTMENT IN SUFFICIENT TIME THAT A COMPLETE ROUGH-IN INSPECTION MAY BE MADE. THE MATERIAL, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING:

THE NATIONAL ELECTRICAL CODE (NFPA70)
THE NATIONAL FIRE PROTECTION ASSOCIATION
THE NATIONAL ELECTRICAL SAFETY CODE
AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION (NEMA)
THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
BUILDING AND FIRE PREVENTION CODES
INTERNATIONAL BUILDING CODE (IBC)

SUBMIT SHOP DRAWINGS CLEARLY MARKED FOR ALL ITEMS OF MATERIAL AND EQUIPMENT AS HEREIN AND FOLLOWING SPECIFIED. REVIEW THE SHOP DRAWINGS PRIOR TO SUBMISSION TO VERIFY THAT THEY ARE COMPLETE INCLUDING THE FOLLOWING MINIMUM INFORMATION:

COMPLETE CONSTRUCTION DETAIL, INCLUDING DIMENSIONS, MATERIALS AND FINISHES, DIAGRAMS OR ILLUSTRATION SHOWING PHYSICAL CHARACTERISTICS, PERFORMANCE DATA, DESCRIPTION OF OPERATION, NAME OF LABORATORY BY WHICH ITEM WILL BE LABELED, CERTIFIED OR LISTED, AND WHERE APPLICABLE, WIRING DIAGRAMS SHOWING THE CONNECTION OF ALL COMPONENTS OF RELATED EQUIPMENT. SUBMIT SHOP DRAWINGS FOR LIGHTING FIXTURES, PANELBOARDS, DISCONNECT SWITCHES AND WIRING DEVICES. PROVIDE WARRANTY INFORMATION FOR ALL FURNISHED EQUIPMENT.

THE DRAWINGS ARE GENERALLY INDICATIVE AND DIAGRAMMATIC OF THE WORK TO BE INSTALLED. CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND ARRANGE ALL WORK ACCORDINGLY, FURNISHING NECESSARY PARTS AND EQUIPMENT THAT MAY BE REQUIRED TO MEET THE VARIOUS CONDITIONS.

FIRE STOP OPENINGS AROUND ELECTRICAL PENETRATIONS IN FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS.

FURNISH AND INSTALL SLEEVES AND SEAL EACH CONDUIT OR CABLE AS REQUIRED TO PREVENT THE SPREAD OF FIRE OR THE PRODUCTS OF COMBUSTION AT ALL LOCATIONS DESIGNATED IN ARTICLE 300-21 OF THE NATIONAL ELECTRICAL CODE.

SEALS SHALL CONSIST OF BOTH CONDUIT AND CABLE FIRE STOPS AS MANUFACTURED BY O.Z. OR APPROVED EQUAL. IRREGULAR OPENINGS SHALL BE SEALED WITH A SILICON FOAM SEALANT APPROVED AS A FIRE STOP AS MANUFACTURED BY OSH CORP., OR 3M, OR APPROVED EQUAL.

WHERE OPENINGS ARE REQUIRED IN WORK ALREADY IN PLACE, ALL CUTTING AND PATCHING SHALL BE DONE BY OR AT THE EXPENSE OF THIS CONTRACTOR.

THE CONTRACTOR SHALL CONSULT WITH THE OWNER BEFORE CUTTING ANY OPENINGS, AND SHALL CUT SUCH OPENINGS IN AN APPROVED MANNER SO THAT THEY WILL NOT WEAKEN OR DAMAGE ANY STRUCTURAL PART OF THE BUILDING.

IDENTIFY ALL ITEMS OF ELECTRICAL EQUIPMENT, PROTECTIVE DEVICES, CONTROL DEVICES AND SIMILAR ITEMS BY NAME, FUNCTION AND/OR CONTROL. PROVIDE PNEUMATIC NAMEPLATES WITH CHARACTERS NOT LESS THAN 1/8 INCH AND MINIMUM SIZE OF 1" X 1/2". FABRICATE USING TWO UNPAINTED BLACK PLASTIC SHEETS BONDING WITH A WHITE PLASTIC SHEET OF WHITE PLASTIC AND CHARACTERS ENGRAVED IN ONE BLACK SHEET TO THE DEPTH OF THE WHITE PLASTIC. ATTACH NAMEPLATES WITH SHEET METAL SCREWS, OR BOLTS AND NUTS.

ACCEPTANCE TESTING

TESTING AGENCY: ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTION AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS FOR SUBMISSION TO ENGINEER AND OWNER.

PERFORM EACH VISUAL AND MECHANICAL INSPECTION AND ELECTRICAL TEST STATED IN NETA ACCEPTANCE TESTING SPECIFICATION (ATS). CERTIFY COMPLIANCE WITH TEST PARAMETERS, PERFORM NETA TESTS AND INSPECTIONS FOR EACH OF THE FOLLOWING NETA CATEGORIES AND PIECES OF EQUIPMENT.

- SWITCHES AND CIRCUIT BREAKERS
- LIGHTING AND LIGHTING CONTROL SYSTEMS
- GROUND FAULT SYSTEMS

CORRECT MALFUNCTIONING UNITS ON-SITE, WHERE POSSIBLE, AND RETEST TO DEMONSTRATE COMPLIANCE; OTHERWISE, REPLACE WITH NEW UNITS AND RETEST.

AS-BUILT DRAWINGS

CONTRACTORS SHALL SUPPLY A COMPLETE SET OF MARKED AS-BUILT DRAWINGS TO THE OWNER UPON COMPLETION OF THE PROJECT.

WARRANTY

THE ELECTRICAL CONTRACTOR SHALL WARRANT HIS EQUIPMENT AND INSTALLATIONS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. PROVIDE ADDITIONAL MANUFACTURERS WARRANTIES: LIGHTING FIXTURES - 5 YEARS, BALLASTS - 5 YEARS, FLUORESCENT LAMPS - 3 YEARS, LED LAMPS AND ASSEMBLIES - 5 YEARS, LIGHTING CONTROLS - 5 YEARS, WIRING DEVICES - 5 YEARS.

WIRE AND CABLE

ALL CONDUCTORS SHALL BE OF SOFT DRAWN COPPER HAVING A CONDUCTIVITY OF AT LEAST 95%. CONDUCTORS NO. 10 AND SMALLER SHALL BE SOLID WITH 600 VOLT THINWALL INSULATION. CONDUCTORS NO. 8 AND LARGER SHALL BE STRANDED WITH 800 VOLT THINWALL INSULATION. ALL WIRE AND CABLE SHALL BE OF THE SINGLE CONDUCTOR TYPE UNLESS OTHERWISE INDICATED, AND SHALL BE COLOR CODED SO AS TO IDENTIFY EACH WIRE IN A RACEWAY OR CABLE. MINIMUM WIRE SIZE SHALL BE #12AWG.

INSTALL BRANCH CIRCUITS IN RACEWAYS, WHERE PRACTICAL, HOMERUNS TO THE SAME PANELBOARD MAY BE GROUPED IN A SINGLE RACEWAY. NO MORE THAN THREE SINGLE PHASE, OR ONE THREE PHASE, 480/277 VOLT OR 208/120 VOLT CIRCUIT MAY BE ENCLOSED IN ONE RACEWAY UNLESS SPECIFICALLY SHOWN. DO NOT MIX VOLTAGE IN THE SAME RACEWAY.

THE NUMBER OF BRANCH CIRCUIT HOME RUNS IN EACH RACEWAY IS INDICATED BY ARROWS ON THE DRAWINGS. SINGLE PHASE BRANCH CIRCUITS SHOWN IN SEPARATE RACEWAYS MAY BE GROUPED TOGETHER IN A SINGLE RACEWAY, WHERE EACH "HOT" WIRE IS INDICATED TO BE SUPPLIED BY A SEPARATE BUS BAR IN THE SUPPLYING PANEL, BUT ONLY TO THE EXTENT OF THREE CURRENT CARRYING CONDUCTORS PER RACEWAY. THREE PHASE HOME RUNS SHALL NOT BE COMBINED. VOLTAGE DROP SHALL NOT EXCEED 2% FOR FEEDERS AND 3% FOR BRANCH CIRCUIT WIRING.

PROVIDE ONE NEUTRAL CONDUCTOR FOR EACH PHASE. WIRE HOME RUN TO A PANELBOARD. COMMON NEUTRALS ARE NOT ALLOWED UNLESS INDICATED OTHERWISE.

GROUNDING AND BONDING

ALL FEEDER RACEWAYS FOR PANELBOARD AND ALL OTHER CIRCUITS SHALL CONTAIN A SEPARATE EQUIPMENT GROUND WIRE WITH GREEN INSULATION. THE MINIMUM SIZE OF WHICH SHALL BE IN ACCORDANCE WITH ARTICLE 250-12 OF THE NATIONAL ELECTRICAL CODE. CONNECT THIS GROUND WIRE TO THE GROUND BUS AT THE SUPPLY END AND TO LOAD EQUIPMENT GROUND BUS, CABINET OR FRAME.

ALL CONDUIT WHICH ENTER EQUIPMENT THROUGH OPEN BOTTOMS, INSULATED OPENINGS OR OTHERWISE WITHOUT HAVING INTIMATE CONTACT WITH THE ENCLOSURES, SHALL BE TERMINATED WITH GROUNDING BUSHINGS. COPPER CONDUCTORS FROM GROUNDING BUSHINGS TO EQUIPMENT GROUNDING BUS SHALL BE SIZED IN ACCORDANCE WITH TABLE 250-6 OF THE NATIONAL ELECTRICAL CODE.

OUTLET BOXES

GALVANIZED STEEL SHALL BE OF AMPLE SIZE TO PROPERLY ACCOMMODATE THE CONDUCTORS PASSING THROUGH AND THE SPRINGS CONTAINED THEREIN AS REQUIRED BY N.E.C. TABLE 318-10. THEY SHALL BE NOT LESS THAN 4 INCH SQUARE OR OCTAGONAL AND 1-1/2 INCH DEEP. BOXES TO WHICH A 1 INCH RACEWAY, OR THREE OR MORE SMALLER RACEWAYS ARE CONNECTED SHALL NOT BE SMALLER THAN 4-1/4 INCH SQUARE AND 2-1/8 INCHES DEEP. WHERE TWO OR MORE SYSTEMS ENTER THE OUTLET BOXES, THEY SHALL BE AT LEAST 2-1/8 INCHES DEEP AND SHALL HAVE SEPARATORS PROPERLY LOCATED TO DIVIDE ONE SYSTEM FROM ANOTHER.

CEILING AND WALL OUTLET BOXES WHICH ARE TO SUPPORT LIGHTING FIXTURES, SHALL HAVE SHORT GALVANIZED OR 3/8 INCH FITURE SLOTS INSERTED FROM BACK OF BOX.

ALL OUTLET BOXES IN FINISHED WALLS AND CEILING, OTHER THAN BRICK, MASONRY OR TILE, SHALL HAVE PLASTER COVERS THAT COME FLUSH OR SLIGHTLY UNDER THE PLASTER SURFACE. CEILING AND BRACKET OUTLET BOXES SHALL HAVE COVERS THAT REDUCE THE SURFACE OPENING TO APPROXIMATELY 2 INCHES AND SHALL HAVE EARS TAPPED FOR MOUNTING WIRING DEVICES WHERE REQUIRED.

WHERE RACEWAYS ARE EXPOSED, OUTLET BOXES FOR WIRING DEVICES ON WALLS, PARTITIONS, OR STEEL FRAMEWORK, SHALL BE CRUISE HINDS TYPE FS OR FD CONDUITS AS REQUIRED WITH COVERS TO FIT. ALL OUTLET BOXES THAT ARE EXPOSED TO WEATHER SHALL BE CAST ALUMINUM WITH GASKETED COVERS.

ALL LOCATIONS WHERE SWITCH OR RECEPTACLE OUTLETS OCCUR IN FINISHED BRICK, MASONRY OR GLAZED TILE WALLS, USE SPECIAL OUTLET BOXES DESIGNED FOR THIS TYPE OF WIRING. OUTLET BOXES SHALL BE AT LEAST 3-1/2 INCHES DEEP HAVING SQUARE CORNERS WITH SUPPORT EARS MOUNTED ON THE INSIDE OF THE BOX. ANVOCUTS IN BOXES SHALL BE COVERED 2-1/2 INCHES FROM FACE OF BOX TO ALLOW A SOLID PIECE OF 2 INCH BRICK OR TILE TO BE PLACED IN FRONT OF RACEWAY ENTERING BOX WITHOUT CUTTING. PROVIDE SPECIAL LARGER COVERPLATE FOR THIS TYPE OF OUTLET. BOXES SHALL BE MOUNTED ROSS MODE, ON-1/8 OR ON-EQUAL. IF SPECIAL BOXES ARE FURNISHED BY OTHERS, THIS CONTRACTOR SHALL RECEIVE, STORE AND INSTALL SUCH BOXES.

SUPPORTING DEVICES

ALL FASTENINGS, SUPPORTS, HANGERS, CLAMPS, AND ANCHORS SHALL BE OF THE TYPE MADE FOR THE SPECIFIC PURPOSE FOR WHICH THEY ARE TO BE USED. PROVIDE TOGGLE BOLTS OR MACHINE BOLT FASTENINGS FOR HOLLOW TILE, TERRAZZO OR LATH CONSTRUCTION. USE MACHINE SCREWS FOR STRUCTURAL STEEL FASTENING, LEAD EXPANSION SHELDS AND MACHINE SCREWS FOR SOLID MASONRY FASTENINGS, AND LAG SCREWS OR BOLTS FOR WOOD FASTENING. INSTALL ALL CONDUIT RIGIDLY AND FINISH IT TO PREVENT SHAVING, VIBRATION OR SAGGING USING MALLEABLE OR WROUGHT STEEL, HANGERS OR STANDARD DESIGN, PIPE CLAMPS, OR FABRICATED STEEL SUPPORTS OR APPROVED DESIGN. HANGERS FOR HORIZONTAL CONDUIT RUNS SHALL BE ADJUSTABLE CLEVIS TYPE. PERFORATED STRAP IRON HANGERS ARE NOT PERMITTED.

FASTENINGS AND ATTACHMENTS SUCH AS SCREWS, BOLTS AND NUTS, SHALL BE MADE WITH NONFERROUS METALS, GALVANIZED OR GALUMINUM PLATED STEEL. ALL FASTENINGS AND ATTACHMENTS SHALL BE MADE WITH SUCH MATERIALS OR SO PROTECTED THEY WILL OFFER THE MAXIMUM PROTECTION AGAINST CORROSION FROM AGE, WEATHER AND DAMPNESS.

ALL EXTERIOR FASTENING DEVICES SHALL BE SERIES 300 STAINLESS STEEL.

RACEWAYS

ALL WIRE AND CABLE SHALL BE INSTALLED IN RACEWAYS OR WIREWAYS AS HEREINAFTER SPECIFIED.

UTILIZE RIGID STEEL CONDUIT FOR RACEWAYS IN DAMP LOCATIONS OR WHERE OTHERWISE REQUIRED BY NEC 76-20 CONDUIT SHALL BE MADE OF HOT DIPPED GALVANIZED OR SHERARDIZED STEEL, CONFORMING TO THE REQUIREMENTS OF FEDERAL SPECIFICATION WC-581, LATEST AMENDMENT. CONDUIT SHALL BEAR THE MANUFACTURERS AND UNDERWRITERS LABELS. ASSEMBLE RIGID CONDUIT WITH THREADED COUPLING, WITH CONDUITS SCREENED TIGHT UNTIL DATA BUTT IN THE CENTER OF COUPLING. MALE THREADS OF ALL LENGTHS THAT HAVE BEEN THREADED AT THE SITE SHALL BE COATED WITH A CONDUCTIVE INHIBITOR THOMAS & BETTS COPR-SHIELD, OR APPROVED EQUAL, BEFORE THREADING INTO COUPLINGS OR FITTINGS. CONDUIT SUSPENSORS FOR CONDUITS 1/2 INCH AND SMALLER MAY BE ZINC OR GALUMIN PLATED MALLEABLE IRON. THOSE FOR CONDUITS 1-1/4 INCH AND LARGER SHALL BE INSULATING MALLEABLE IRON TYPE B MADE BY THE O.Z. ELECTRICAL MANUFACTURING COMPANY, OR APPROVED EQUAL. LOCKNUTS UP TO AND INCLUDING 2 INCH IN SIZE SHALL BE GALVANIZED OF THE STANDARD WEIGHT TYPE. ALL LOCKNUTS 2-1/2 INCHES OR LARGER SHALL BE OF HEAVY DUTY CAST TYPE.

ELECTRICAL METALLIC TUBING MAY BE USED FOR ALL INTERIOR FEEDER RACEWAY RUNS. ELECTRICAL METALLIC TUBING SHALL BE ASSEMBLED WITH WATER-TIGHT, COMPRESSION TYPE STEEL COUPLINGS AND FITTINGS WITH NYLON INSULATING THROATS BUILT INTO THE SETTING AS MANUFACTURED BY T & B, OR APPROVED EQUAL. EMT COUPLINGS AND FITTINGS SHALL NOT BE OF THE CAST CONSTRUCTION, OR SET SCREW TYPE.

ALL RACEWAYS SHALL BE UL APPROVED FOR INTENDED USAGE AND EACH LENGTH DELIVERED TO THE PROJECT SITE SHALL BEAR UL MANUFACTURERS LABEL.

THE FLEXIBLE STEEL CONDUIT (GREENPANEL) IN LENGTHS NOT EXCEEDING 48 INCHES SHALL BE USED FOR THE CONNECTION OF RECESSED LIGHTING FIXTURES REQUIRING HIGH TEMPERATURE WIRING INSULATION AND FOR OTHER ITEMS SUBJECT TO VIBRATION, WHICH ARE INSTALLED ABOVE FINISHED CEILINGS. IT SHALL CONFORM TO THE REQUIREMENTS OF FEDERAL SPECIFICATION WW-296, LATEST REVISION.

METAL CLAD CABLE (TYPE MC) MAY BE INSTALLED FOR POWER AND LIGHTING BRANCH CIRCUITS ONLY) WHERE PERMITTED BY THE NATIONAL ELECTRICAL CODE, EVERY GOVERNING CODE, AND WHERE PERMITTED AND IN ACCORDANCE WITH OTHER SECTIONS OF THIS SPECIFICATION. MC CABLE IS PERMITTED FOR INSTALLATION IN OPEN CEILING APPLICATIONS. MC CABLE SHALL BE SECURED WITHIN 12 INCHES OF EVERY OUTLET BOX, JUNCTION BOX, CABINET OR FITTING AND AT INTERVALS NOT EXCEEDING 6 FEET. SECURE MC CABLE WITH FASTENERS.

METAL CLAD CABLE SHALL BE TWO CONDUCTOR TYPES AND SHALL COMPLY WITH UL REQUIREMENTS FOR TYPE MC CABLE. THE COPPER CONDUCTORS SHALL HAVE TYPE XHHW, 600 VOLT INSULATION AND NO. 12 AWG UNLESS OTHERWISE INDICATED ON THE DRAWINGS. THE CONDUCTORS SHALL HAVE A PROTECTIVE LAYER WRAPPED UNDER THEIR INTERLOCKED ARMOR COVER. ALL CABLES SHALL CONTAIN A SEPARATE COPPER INSULATED GROUND WIRE. THE CABLE SHALL BE SUITABLE AND NO LISTED FOR USE IN CABLE TRAY.

METAL CLAD CABLE CONNECTOR SHALL HAVE INSULATED THROATS AS MADE BY T & B, OR APPROVED EQUAL.

RACEWAYS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET, AND FROM OUTLET TO CABINET, JUNCTION BOX OR PULL BOX, AND SHALL ENTER AND BE SECURED TO ALL BOXES IN SUCH A MANNER THAT EACH SYSTEM SHALL BE ELECTRICALLY CONTINUOUS FROM SERVICE ENTRANCE TO ALL OUTLETS.

SURFACE METAL RACEWAYS, GALVANIZED STEEL WITH SNAP-ON COVERS, MANUFACTURERS STANDARD ENAMEL FINISH IN COLOR SELECTED BY ARCHITECT.

- MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS PROVIDE PRODUCTS BY ONE OF THE FOLLOWING.
- THOMAS & BETTS CORPORATION
- WALKER SYSTEMS, INC. WIREMOLD COMPANY
- WIREMOLD COMPANY, ELECTRICAL SALES DIVISION

ELECTRICAL DEMOLITION FOR REMODELING

WHERE PRESENT EQUIPMENT IS NOTED TO REMAIN OR LABELED "PR" IT IS TO REMAIN IN THE PRESENT LOCATION, BUT MAKE ALL REQUIRED ADJUSTMENTS TO PROVIDE FOR ALL NEW WIRING EXTENSIONS FROM SUCH OUTLETS OR EQUIPMENT.

ALL EXPOSED RACEWAYS, DEVICES, PANELBOARDS, AND OTHER ELECTRICAL EQUIPMENT THAT ARE NO LONGER A FUNCTIONING PART OF THE ELECTRICAL SYSTEM OR ANY AUXILIARY ELECTRICAL SYSTEM, SHALL BE DE-SIZED, DISCONNECTED AND REMOVED. GENERALLY, THESE REMOVALS ARE NOT SPECIFICALLY INDICATED ON THE DRAWINGS. THIS CONTRACTOR SHALL PATCH ALL CEILING, WALL OR FLOOR OPENINGS LEFT BY THIS REMOVAL.

IF THE CONTINUITY OF ANY EXISTING CIRCUITS THAT ARE TO REMAIN IS INTERRUPTED BY THESE ALTERNATIONS, EVEN THOUGH IT MAY NOT BE INDICATED, THE CONTRACTOR SHALL RESTORE SUCH CIRCUITS, PROVIDING ALL NECESSARY MATERIALS AND LABOR TO ACCOMPLISH THE SAME.

ITEMS INDICATED ON THE DRAWINGS TO BE RELOCATED, SHALL BE REMOVED, CLEANED AND STORED PRIOR TO RE-USE.

EXISTING DEVICES AND OTHER ELECTRICAL EQUIPMENT NOT SHOWN OR NOT INDICATED TO BE REMOVED OR REPLACED, SHALL REMAIN AS IS IF SUCH DEVICES OR EQUIPMENT ARE NECESSARY FOR PROPER FUNCTIONING OF THE ELECTRICAL SYSTEM. IF REQUIRED, EXISTING WIRING SHALL BE MOVED OR REPLACED TO SUIT THE NEW LAYOUT.

ALL REMOVED ELECTRICAL EQUIPMENT REQUESTED BY THE OWNER SHALL BE TURNED OVER TO THE OWNER AND STORED WHERE DIRECTED. IN THE CONDITION AS FOUND, ALL OTHER REMOVED EQUIPMENT AND MATERIAL SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES BY HIM.

FOR THE DURATION OF THE CONTRACT, THIS CONTRACTOR SHALL MAKE EVERY EFFORT TO KEEP ELECTRICAL OUTAGES TO A MINIMUM.

IN ORDER TO INTERRUPT CONTINUITY OF ELECTRICAL SERVICE TO ANY PART OF THE BUILDING, IT WILL BE NECESSARY FOR THIS CONTRACTOR TO REQUEST PERMISSION FOR SUCH OUTAGES BY LETTER. THE LETTER SHALL STATE THE DATE OF PROPOSED OUTAGE, TIME IT SHALL START, TOTAL OUTAGE TIME REQUIRED AND REASON FOR THE OUTAGE. THE REQUEST SHALL BE SUBMITTED A MINIMUM OF 15 DAYS BEFORE THE PROPOSED OUTAGE.

PANELBOARDS

PANELBOARDS SHALL COMPLY WITH NEMA PB1 AND BE OF THE DEAD FRONT TYPE, DOOR-IN-DOOR COVER, AND SHALL INCORPORATE SWITCHING AND PROTECTIVE DEVICES OF THE BOLT-IN SINGLE AND MULTIPOLAR MOULDED CASE CIRCUIT BREAKER TYPE WITH INTEGRAL THERMAL-MAGNETIC TRIP ELEMENTS. EACH CIRCUIT BREAKER SHALL HAVE AN INDEX NUMBER PERMANENTLY INSTALLED ON OR NEAR IT, OOD NUMBERS ON THE LEFT AND EVEN NUMBERS ON THE RIGHT.

PANELBOARD BUS SHALL BE COPPER WITH RATINGS AS INDICATED WITH COPPER GROUND BUS BAR.

MINIMUM INTEGRATED SHORT CIRCUIT SHALL BE FULLY RATED AS INDICATED ON THE DRAWINGS.

PROVIDE TYPEWRITTEN PANELBOARD SCHEDULES IDENTIFYING LOADS. PROVIDE TYPEWRITTEN PANELBOARD SCHEDULES FOR ALL EXISTING MOVED PANELBOARDS.

ARC-FAULT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKERS, COMPLY WITH UL1699 120/240V, SINGLE-POLE CONFIGURATION. ALL CIRCUITS FEEDING DWELLING UNIT BEDROOM OUTLETS AND LIGHTING SHALL BE PROTECTED BY AFCI CIRCUIT BREAKERS.

PANELBOARDS TO BE CUTLER HAMMER MAKE AND MODEL AS PER THE HOUSING AUTHORITY STANDARDS.

SAFETY SWITCHES AND FUSES

FUSED SWITCHES SHALL CONTAIN REINFORCED FUSE CLIPS AND SHALL BE EQUIPPED WITH A COMPLETE SET OF FUSES, BOTH FUSE CLIPS AND FUSES SHALL BE CORRECT FOR THE CURRENT, VOLTAGE AND FUSE TYPE AS HEREINAFTER SPECIFIED. FUSE CLIPS SHALL BE OF THE REJECTION TYPE TO ACCOMMODATE THE RK FUSE TYPES HEREAFTER SPECIFIED.

SWITCHES SHALL BE OF THE HEAVY DUTY CLASS, SHALL BE UNDERWRITERS LABORATORIES, INC. LISTED AND LABELED, HORSEPOWER RATED, CONFORMING TO FEDERAL SPECIFICATION KS-1969. SWITCHES SHALL GENERALLY HAVE NEMA 1 ENCLOSURE, UNLESS NOTED OTHERWISE.

FUSES 15 TO 100 AMPERE SHALL BE UL CLASS RK5, DUAL ELEMENT WITH A MINIMUM INTERRUPTING RATING OF 200,000 RMS SYMMETRICAL AMPERES, BUSSMANN FUSETRON, GOLD-SHANNWIT TRIG-ON, OR APPROVED EQUAL.

SAFETY SWITCH TYPE DISCONNECTS SHALL BE CUTLER HAMMER TYPE H400, GENERAL ELECTRIC TYPE TH, SQUARE D OR APPROVED EQUAL.

SAFETY SWITCHES SHALL BE OF THE HEAVY DUTY CLASS, SHALL BE UNDERWRITERS LABORATORIES, INC. LISTED AND LABELED, HORSEPOWER RATED, CONFORMING TO FEDERAL SPECIFICATION WS-865 AND NEMA SPECIFICATION KS-1969. SWITCHES SHALL GENERALLY HAVE NEMA 1 ENCLOSURES UNLESS NOTED OTHERWISE.

LIGHTING SYSTEM

PROVIDE LIGHTING FIXTURES COMPLETE WITH LAMPS, BALLASTS, FUSES, AND OTHER ACCESSORIES FOR EACH AND EVERY OUTLET INDICATED ON THE DRAWINGS. PLASTER RINGS OR FRAMES SHALL BE PROVIDED FOR ALL RECESSED FIXTURES IN PLASTER AND OTHER NON-ACCESSIBLE CEILINGS.

ALL LIGHTING EQUIPMENT SHALL BE DESIGNED, ADJUSTED AND FOCUSED TO PERFORM AS DESIRED AND TO ILLUMINATE THE OBJECTS OR AREAS INTENDED.

ALL GRID MOUNTED FIXTURES SHALL BE SUPPORTED INDEPENDENT OF CEILING GRID.

WIRING DEVICES

WALL SWITCHES SHALL BE SPECIFICATION GRADE RATED AT 20 AMPERES, 277 VOLTS, A.C., SINGLE POLE AND THREE-WAY, HUBBELL CATALOG NO. 1221 AND 1223, OR APPROVED EQUAL.

DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE RATED AT 20 AMPERES, 125 VOLT, A.C., 3-WIRE GROUNDING TYPE, HUBBELL CATALOG NO. 5363-1 OR APPROVED EQUAL.

GFI TYPE DUPLEX RECEPTACLES SHALL HAVE INTEGRAL GROUND FAULT INTERRUPTION. THE GFI RECEPTACLE SHALL BE RATED 20 AMPERES, 125 VOLTS, A.C., 3-WIRE GROUNDING TYPE, HUBBELL CATALOG NO. GF-5362 OR APPROVED EQUAL.

GFI TYPE DUPLEX RECEPTACLES SHALL HAVE INTEGRAL GROUND FAULT PROTECTION INTERRUPTION. THE GFI RECEPTACLE SHALL BE RATED 20 AMPERES, 125 VOLTS, A.C., 3-WIRE GROUNDING TYPE. THE RECEPTACLE SHALL BE MANUFACTURED UNDER THE CURRENT REVISION OF UL 943 STANDARD FOR 2015 WHICH REQUIRES THE RECEPTACLE TO PERFORM SELF TEST MONITORING EVERY 10 HOURS OR LESS AND IF THE UNIT CAN NO LONGER PROVIDE GFCI PROTECTION IT SHALL DENY POWER TO THE UNIT AND PROVIDE VISUAL AND/OR AUDIBLE INDICATION. PROVIDE HUBBELL CATALOG NO. GF5362 OR APPROVED EQUAL.

PROVIDE WIRING DEVICES SUITABLE FOR INTENDED USE AND WITH RATINGS ADEQUATE FOR LOAD SERVED.

FOR SINGLE RECEPTACLES INSTALLED ON AN INDIVIDUAL BRANCH CIRCUIT, PROVIDE RECEPTACLE WITH AMPERE RATING NOT LESS THAN THAT OF THE BRANCH CIRCUIT.

PROVIDE WEATHER RESISTANT GFI RECEPTACLES WITH SPECIFIED WEATHERPROOF COVERS FOR ALL INSTALLED OUTDOORS OR IN DAMP OR WET LOCATIONS.

PROVIDE TAMPER RESISTANT RECEPTACLES FOR ALL RECEPTACLES INSTALLED IN DWELLING UNITS.

PROVIDE GFI PROTECTION FOR ALL RECEPTACLES INSTALLED WITHIN 8 FEET OF SINKS, FOR ALL RECEPTACLES INSTALLED IN KITCHENS, AND FOR ALL RECEPTACLES SERVING ELECTRIC DRINKING FOUNTAINS.

THIS CONTRACTOR SHALL COORDINATE THE PLAN LOCATIONS AND MOUNTING HEIGHTS OF OUTLETS WITH THE LOCATION OF EQUIPMENT FURNISHED BY OTHER TRADES. ALL OUTLETS INDICATED TO BE LOCATED AT CABINETS SHALL BE INSTALLED SIX (6) INCHES ABOVE BASE CABINET TOPS. ALL OUTLETS INDICATED TO BE LOCATED ADJACENT TO SINKS SHALL BE INSTALLED SIX (6) INCHES ABOVE SINK TOP. VERIFY LOCATION WITH ARCHITECT.

WALL SWITCHES ARE INDICATED ON THE DRAWINGS ON THE DOOR STRIKE SIDE OF THE DOORS. HOWEVER, IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO VERIFY FINAL DOOR SWING ARRANGEMENTS PRIOR TO LOCATING OUTLET BOXES FOR WALL SWITCHES.

DETERMINE AT THE SITE THE LOCATION OF ALL RACEWAYS, OUTLETS AND EQUIPMENT. THE RIGHT IS RESERVED TO CHANGE THE LOCATION OF ANY ELECTRICAL OUTLET, CONTROL EQUIPMENT, OR MOTOR TO ANY POINT NOT OVER 5'-2" DISTANT FROM THE LOCATION SHOWN WITHOUT EXTRA COST. ACCORDINGLY, DO NOT INSTALL BRANCH CIRCUIT WIRING LEADING TO THE LOCATION OF SUCH EQUIPMENT UNTIL THE LOCATION HAS BEEN APPROVED. SPACE ALL LIGHTING FIXTURES EVENLY ON CENTERS OR JOINTS OR CEILING TILES OR OTHER ARCHITECTURAL ELEMENTS, OR AS DIMENSIONED ON THE DRAWINGS.

OUTLET BOXES FOR CEILING OUTLETS AND FLUSH WALL OUTLETS SHALL BE NOT LESS THAN 1/8 INCH THICK PRESSED.

LABEL ALL FACEPLATES WITH TYPEWRITTEN LABEL INDICATING PANEL AND CIRCUIT SERVING OUTLET.

MOUNTING HEIGHTS

WALL SWITCH OUTLETS 4'-0" TO TOP OF ACTUATING DEVICE.

WALL RECEPTACLES - GENERAL 1'-6" ABOVE COUNTERS

WALL RECEPTACLES - UTILITY AREAS 4'-0" TO TOP OF DEVICE.

PANEL CABINETS 6'-0" TO TOP

MANUAL FIRE ALARM STATIONS 3'-6"

FIRE ALARM SIGNALING DEVICES 6'-0" A.F.F.

TELEPHONE OUTLETS 1'-6"

WALL TELEPHONE OUTLETS 4'-0" TO CENTER

THESE MOUNTING HEIGHTS MAY BE SUPERSEDED BY ARCHITECTURAL ELEVATIONS.

IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY THE HEIGHTS OF ALL RECEPTACLE OUTLETS IN AREAS CONTAINING BUILT-UP EQUIPMENT SO THAT THEY ARE COMPLETELY USABLE. REFER TO EQUIPMENT DRAWINGS, AS WELL AS GENERAL CONSTRUCTION DRAWINGS. THE OWNER WILL NOT PAY ANY ADDITIONAL COSTS FOR OUTLETS THAT ARE TO BE MOVED BECAUSE OF PLACEMENT AND HEIGHT OF EQUIPMENT.

SAFETY SWITCHES AND FUSES

FUSED SWITCHES SHALL CONTAIN REINFORCED FUSE CLIPS AND SHALL BE EQUIPPED WITH A COMPLETE SET OF FUSES, BOTH FUSE CLIPS AND FUSES SHALL BE CORRECT FOR THE CURRENT, VOLTAGE AND FUSE TYPE AS HEREINAFTER SPECIFIED. FUSE CLIPS SHALL BE OF THE REJECTION TYPE TO ACCOMMODATE THE RK FUSE TYPES HEREAFTER SPECIFIED.

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LIGHTING SYSTEM

PROVIDE LIGHTING FIXTURES COMPLETE WITH LAMPS, DRIVERS, FUSES, AND OTHER ACCESSORIES FOR EACH AND EVERY OUTLET INDICATED ON THE DRAWINGS. PLASTER RINGS OR FRAMES SHALL BE PROVIDED FOR ALL RECESSED FIXTURES IN PLASTER AND OTHER NON-ACCESSIBLE CEILINGS.

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ALL GRID MOUNTED FIXTURES SHALL BE SUPPORTED INDEPENDENT OF CEILING GRID.

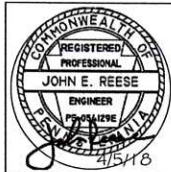
FIRE ALARM SYSTEM

AS PART OF THIS CONTRACT THIS CONTRACTOR IS RESPONSIBLE TO MAINTAIN OPERATION OF PR PRESENT TO REMAIN FIRE ALARM DEVICES IN EXISTING BASE BUILDING EDWARDS EST FIRE ALARM SYSTEM.

LOW VOLTAGE LIGHTING CONTROL SYSTEM

OCCUPANCY SENSORS

- THE OCCUPANCY SENSOR SYSTEM SHALL SENSE THE PRESENCE OF HUMAN ACTIVITY WITHIN THE DESIRED SPACE AND FULLY CONTROL THE "ON" / "OFF" FUNCTION OF THE LOADS AUTOMATICALLY. SENSORS SHALL TURN "ON" THE LOAD WITHIN 2 FEET OF THE ENTRANCE AND SHALL NOT INITIATE "ON" OUTSIDE OF ENTRANCE. SENSING TECHNOLOGIES SHALL BE COMPLETELY PASSIVE IN NATURE. THE OCCUPANCY SENSOR SYSTEM SHALL NOT EMIT OR INTERFERE WITH ANY ELECTRONIC DEVICE, OR HUMAN CHARACTERISTIC. ACCEPTABLE TECHNOLOGIES ARE PASSIVE INFRARED (PIR), MICROPHONIC, ULTRASONIC AND/OR PASSIVE DUAL TECHNOLOGY - PRIMORDIOPHONIC OR PIR/ULTRASONIC (POT). TIME DELAY SETTINGS SHALL BE FACTORY SET AT 10 MINUTES, AND SHALL NOT BE ADJUSTED UNLESS SPECIFICALLY INSTRUCTED BY ARCHITECT. THIS DELAY SELECTION IS BASED ON LAMP LIFE, VS. ENERGY SAVINGS AND SENSOR PERFORMANCE. MAXIMUM ADJUSTMENT SHALL BE 30 MINUTES. AUTOMATIC ADJUSTMENTS TO THIS DELAY PERIOD BY THE SENSOR SHALL NOT BE PERMITTED. INSTALLER IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION, SHALL DETERMINE FINAL SENSOR LOCATION. ALL SENSORS SHALL HAVE NON-ADJUSTABLE FACTORY CALIBRATED SENSITIVITY FOR MAXIMUM PERFORMANCE. TIME DELAY AND PHOTOCELL FIELD ADJUSTMENTS SHALL BE PROVIDED AS NEEDED. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE AND FUNCTIONAL SYSTEM IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
- THE LOW VOLTAGE TYPE OCCUPANCY SENSOR SHALL HAVE RELAY CIRCUIT PROTECTION WITH SWITCHING CAPACITY OF 20 AMPS AT EITHER 120 OR 277 VAC.
- WALL SWITCH, WATTS/STOPPER PIR, OR EQUIVALENT
- CEILING, WATTS/STOPPER PIR OR EQUIVALENT



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Permit Drawings

ISSUED: 04-05-18

REVISIONS
REV #1 - 04-24-18

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