

BATHROOM RENOVATIONS

STATE OF RHODE ISLAND DEPARTMENT OF LABOR & TRAINING

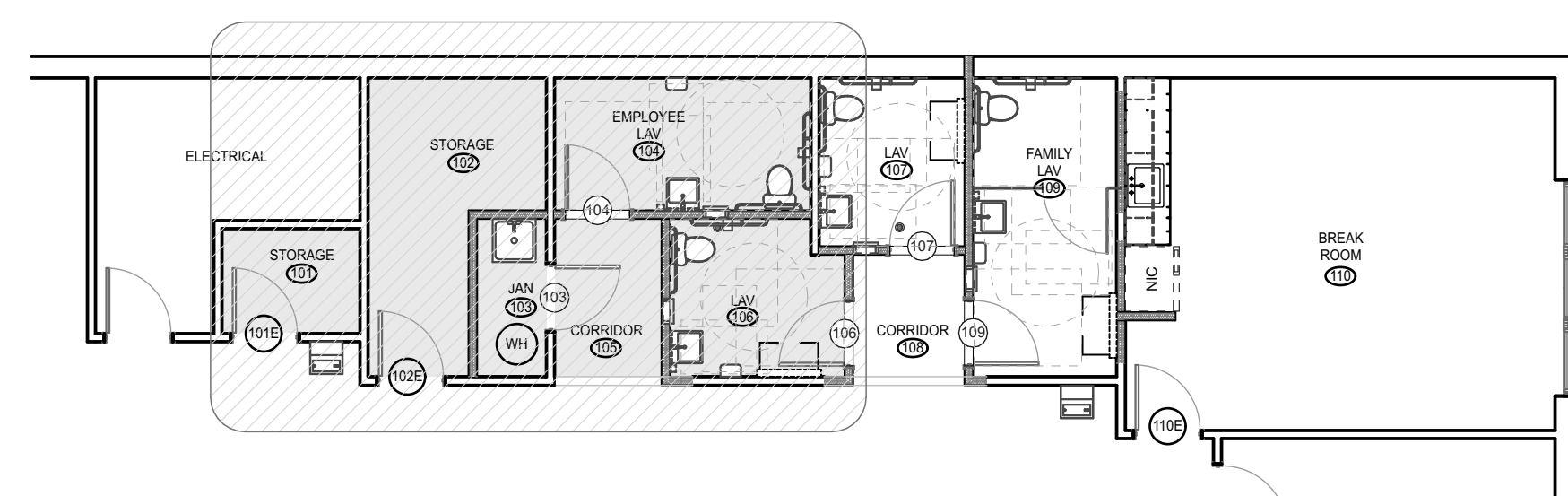
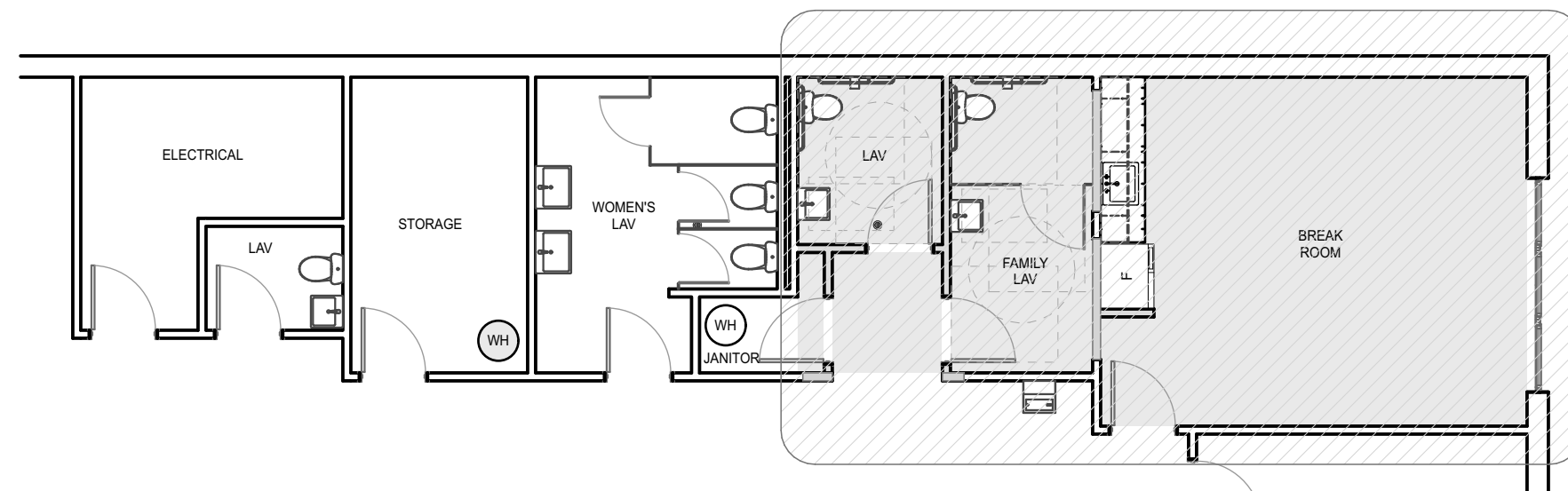
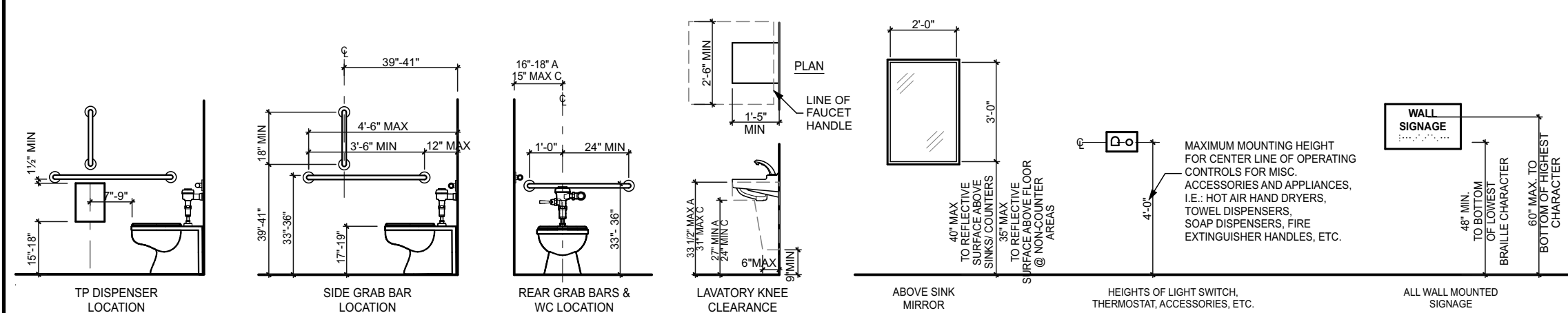
1330 Main Street
West Warwick, RI 02893

100% CONSTRUCTION DOCUMENT SET ISSUED: JUNE 30, 2023

ARCHITECTS:
NORTHEAST COLLABORATIVE ARCHITECTS, LLC
650 Ten Rod Road
North Kingstown, RI 02852
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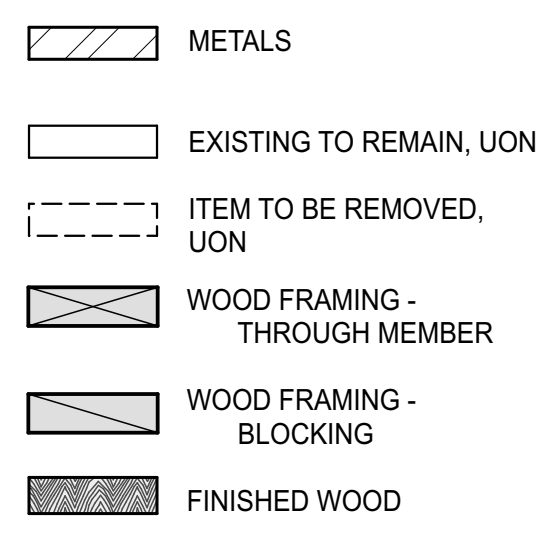
FIXTURE AND ACCESSORY MOUNTING HEIGHTS



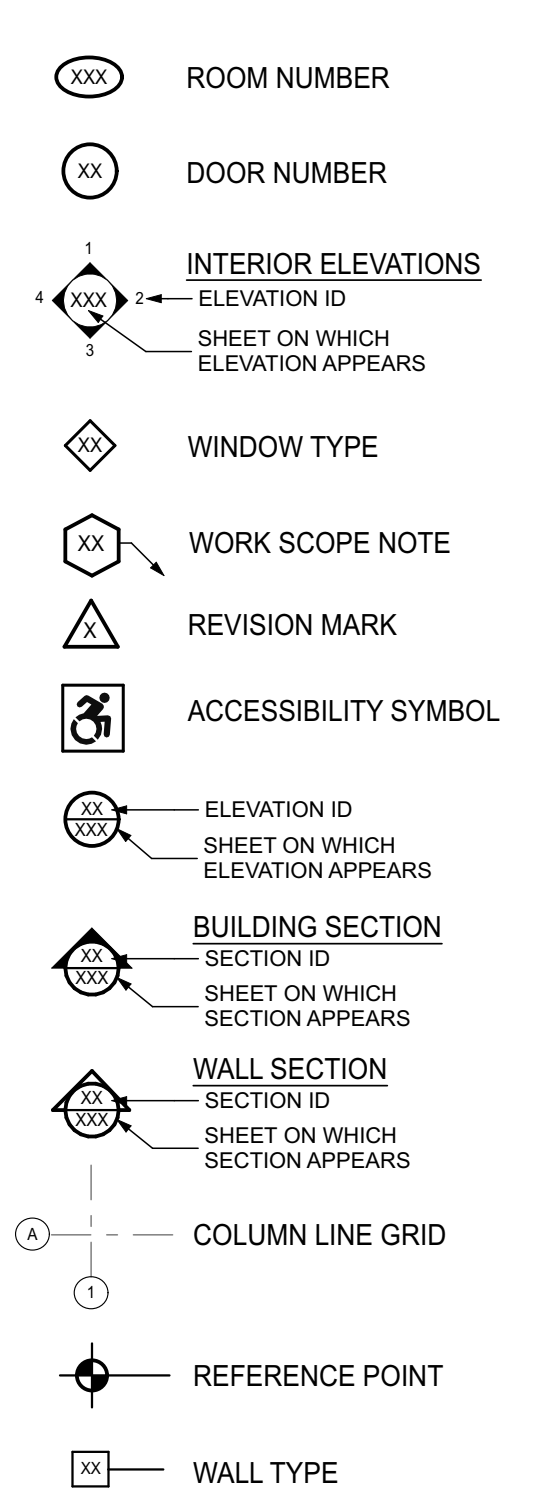
ABBREVIATIONS

| | | | | | |
|---------|---|---|---|--|---|
| & L @ # | And Metal Angle At Pound or Number | E East EA Each EB Electric Baseboard EF Exhaust Fan EJ Expansion Joint EL Elevation ELEC Electrical ELEV Elevator EMERG Emergency ENCL Enclosure ENGR Engineer EP Electrical Panel EQ Equal EWC Electric Water Cooler | K Kip (1,000 lbs) K-FT Kip Feet KVA Kilovolt Amps KW Kilowatts | RESIL Resilient RET Return REV Revisions, Revised RFG Roofing RH Right Hand RM Room RO Rough Opening RPM Revolutions Per Minute RWL Rain Water Leader RV Roof Vent | S South S/A Supply Air S&R Supply & Return SAFB Sound Attenuating Fiber Blanket SAN Sanitary SCHED Schedule SERV Service SF Square Feet SGFT Structural Glazed Facing Tile SHT Sheet SIM Similar SP Static Pressure SPEC Specifications SQ Square SS Stainless Steel ST Storm STD Standard STL Steel STRUCT Structural SW, SW BD Switch, Switch Board SWGR Switchgear SYM Symmetrical |
| A, AMP | Ampere or Amperage | FA Fire Alarm FACP Fire Alarm Control Panel FC(U) Fan Coil Unit FD Floor Drain FDN Foundation FE Fire Extinguisher FEC Fire Extinguisher & Cabinet | MAS Masonry MAX Maximum MCM Metal Composite Material MDP Main Distribution Panel MECH Mechanical MED Medium MEMB Membrane MET Metal MFR Manufacturer MIN Minimum MISC Miscellaneous MO Masonry Opening MR Moisture Resistant MTD Mounted | SAN Sanitary SCHED Schedule SERV Service SF Square Feet SGFT Structural Glazed Facing Tile SHT Sheet SIM Similar SP Static Pressure SPEC Specifications SQ Square SS Stainless Steel ST Storm STD Standard STL Steel STRUCT Structural SW, SW BD Switch, Switch Board SWGR Switchgear SYM Symmetrical | T Tread, Thermostat TBH Thousand BTU per Hour T&B Top & Bottom T&G Tongue & Groove T/F Top of Frame T/M Top of Masonry T/S Top of Steel T/W Top of Wall TEL or TELE Telephone TEMP Temperature THK Thick(ness) THRES Threshold TR Trash TRANS Transformer TYP Typical |
| BD | Board | GA Gauge, Gage GALV Galvanized GB Gypsum Board GC General Contractor GFI Ground Fault Interrupter GL Glass, Glazing GND Ground GR Grade GYP Gypsum | O/A Outdoor Air OC On Center OD Outside Diameter OPG Opening OPP Opposite OZ Ounce | UG Under Ground UH Unit Heater UNON Unless Otherwise Noted UNO Unless Noted UNO Otherwise | V Vent, Volt AV Variable Air Volume VCT Vinyl Composition Tile VERT Vertical VENT Ventilator VHP Vertical Heat Pump VIF Verify in Field VIN Vinyl VWC Vinyl Wallcovering |
| CD | Condensate Drain | HM Hollow Metal HORIZ Horizontal HP High Point, Horse POWER & EYE WASH WASH Panel PR Pair PRTN Partition PSF Pounds Per Square Foot PSI Pounds Per Square Inch PT Paint/ Painted PV Plumbing Vent PVMT Pavement | PNL Panel POL Polished PP POWER & EYE WASH WASH Panel PR Pair PRTN Partition PSF Pounds Per Square Foot PSI Pounds Per Square Inch PT Paint/ Painted PV Plumbing Vent PVMT Pavement | UV Unit Ventilator | W Watts, West WB Wet Bub W/ With W/O Without WC Water Closet WD Wood WP Waterproof WR Water Resistant Wainscot WT Weight WWF Welded Wire Fabric YD Yard |
| DL | Dead Load | IN Inside Diameter INCAND Incandescent INCL Included(d), (ing) INS Insulate(d), (ing) INT Interior INV Invert | QT Quarry Tile QTY Quantity | | |
| DN | Down | JB, JBOX Junction Box JST Joist JT Joint | | | |
| DO | Ditto | | | | |
| DP | Distribution Point | | | | |
| DR | Door | | | | |
| DWG | Drawing | | | | |

MATERIALS LEGEND



GRAPHIC LEGEND



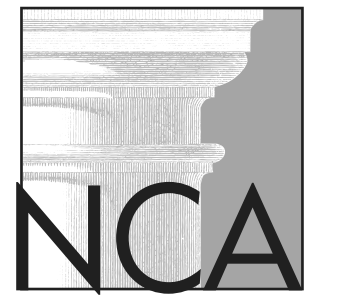
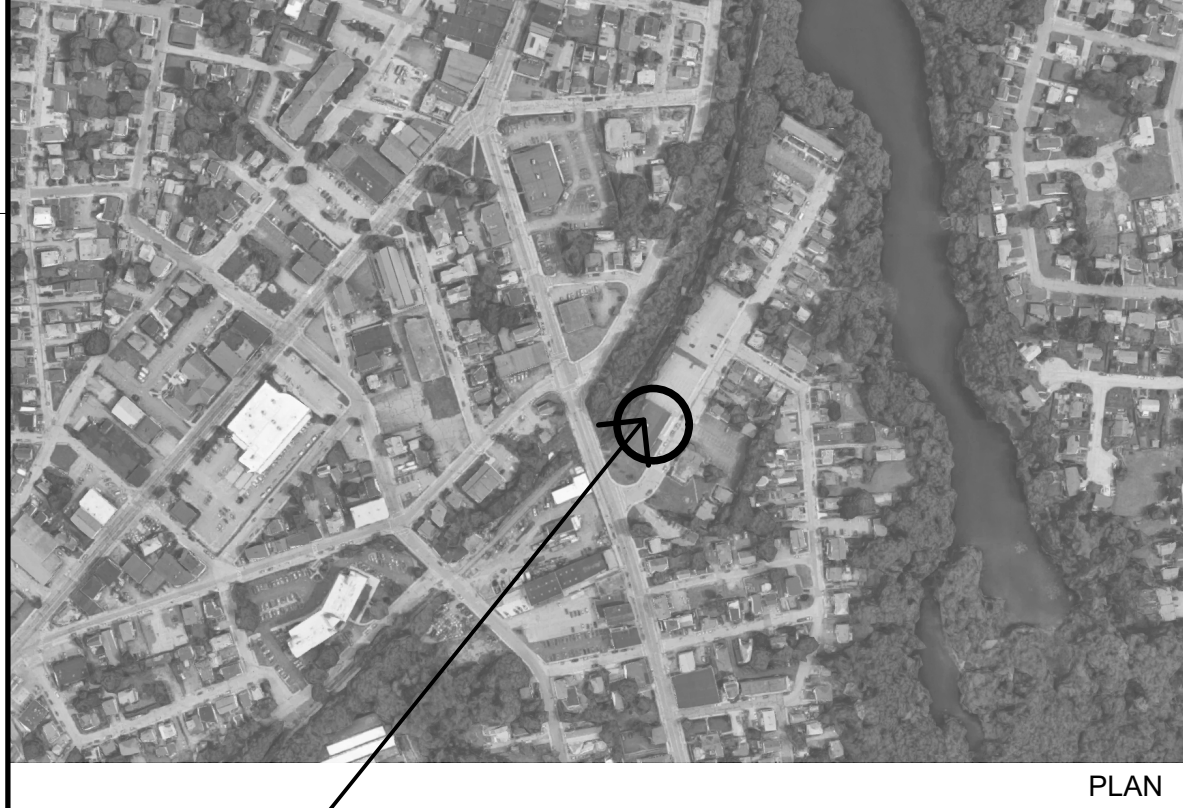
DRAWING LIST

| | |
|-------|--|
| A-000 | COVER SHEET |
| A-111 | PARTIAL 1ST FLOOR PLANS |
| A-801 | INTERIOR ELEVATIONS AND MILLWORK DETAILS SCHEDULES, DETAILS AND WALL TYPES |
| M-001 | MECHANICAL LEGENDS & NOTES |
| M-111 | MECHANICAL FIRST FLOOR PLANS |
| M-201 | MECHANICAL SCHEDULES & DETAILS |
| M-301 | MECHANICAL SPECIFICATIONS |
| E-001 | ELECTRICAL LEGENDS & NOTES |
| E-002 | ELECTRICAL LEGENDS & NOTES |
| E-003 | ELECTRICAL LEGENDS & NOTES |
| E-004 | LIFE SAFETY LEGENDS & NOTES |
| E-111 | ELECTRICAL FIRST FLOOR PLANS |
| E-112 | ELECTRICAL FIRST FLOOR PLANS |
| E-201 | ELECTRICAL SCHEDULES & DETAILS |
| E-301 | ELECTRICAL SPECIFICATIONS |
| E-302 | ELECTRICAL SPECIFICATIONS |
| E-303 | ELECTRICAL SPECIFICATIONS |
| P-001 | PLUMBING LEGENDS & NOTES |
| P-101 | PLUMBING FIRST FLOOR PLANS |
| P-201 | PLUMBING SCHEDULES & DETAILS |
| P-301 | PLUMBING SPECIFICATIONS |

REGION MAP (NTS)



LOCATION MAP (NTS)



NORTHEAST COLLABORATIVE ARCHITECTS
650 Ten Rod Road
North Kingstown, RI 02852
v: 401.846.9583

Mechanical/Electrical/Plumbing Engineers:
Engineering Design Services, Inc.
141 Industrial Drive
PO Box 986
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Phone: (401) 765-2984

BATHROOM RENOVATIONS
STATE OF RHODE ISLAND
DEPARTMENT OF LABOR & TRAINING
1330 MAIN STREET
WEST WARWICK, RI 02893

REVISIONS:



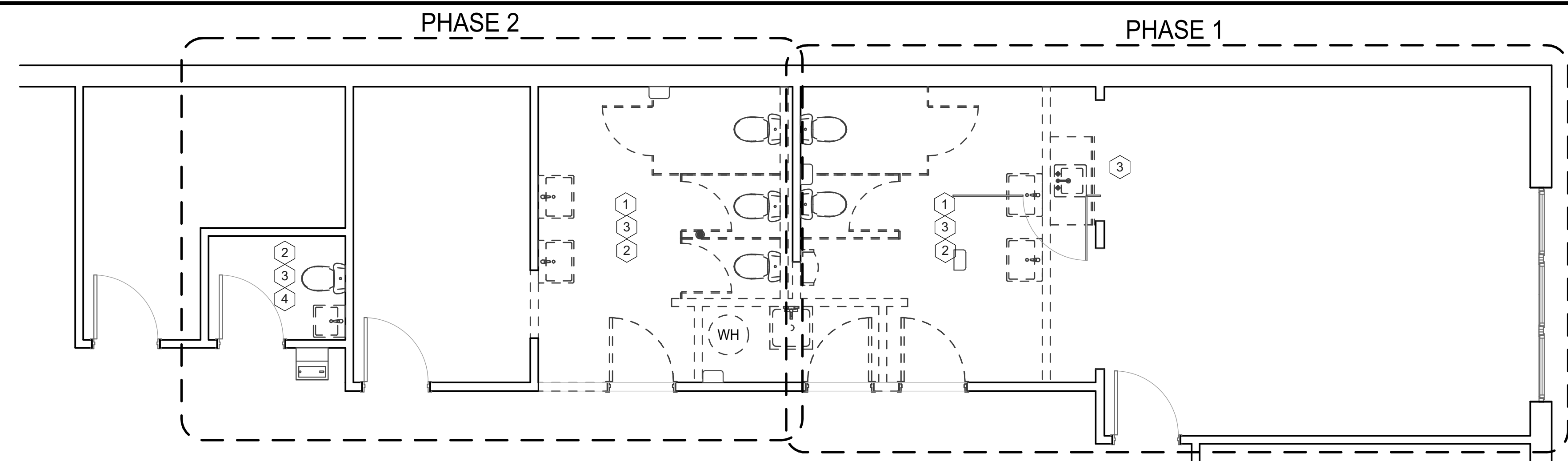
COVER SHEET

DATE: 06.30.2023

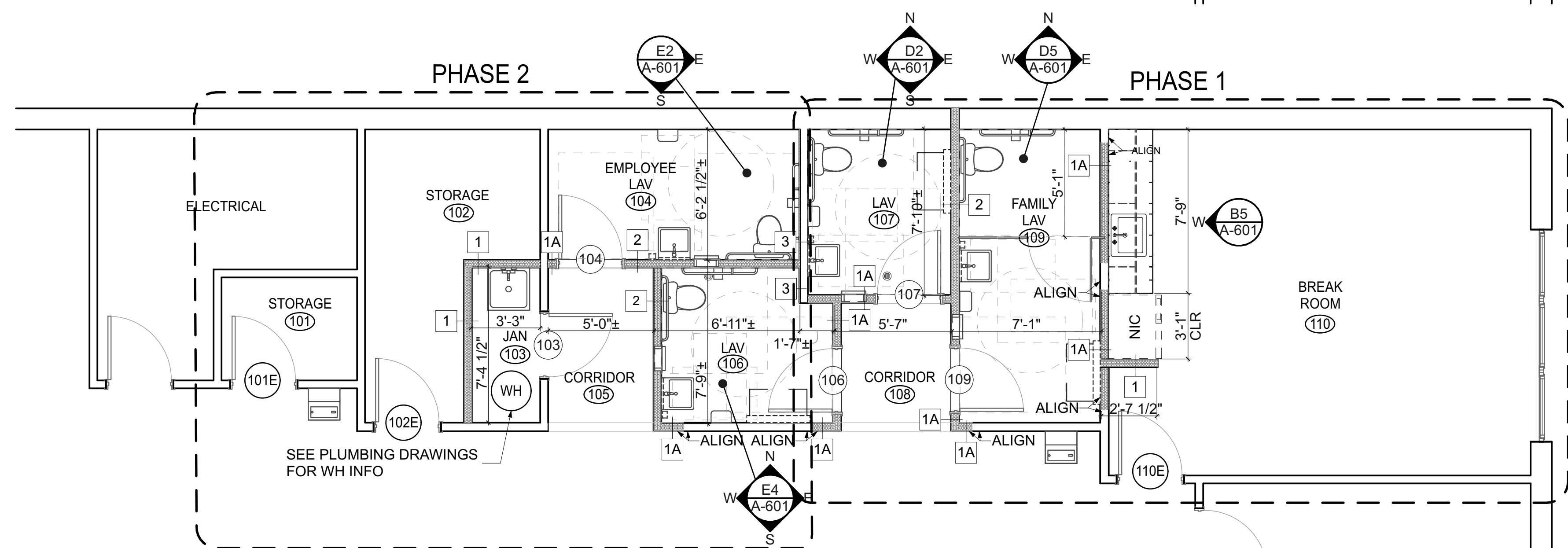
NCA JOB NO.: 22330

DRAWING NO.:

A-000

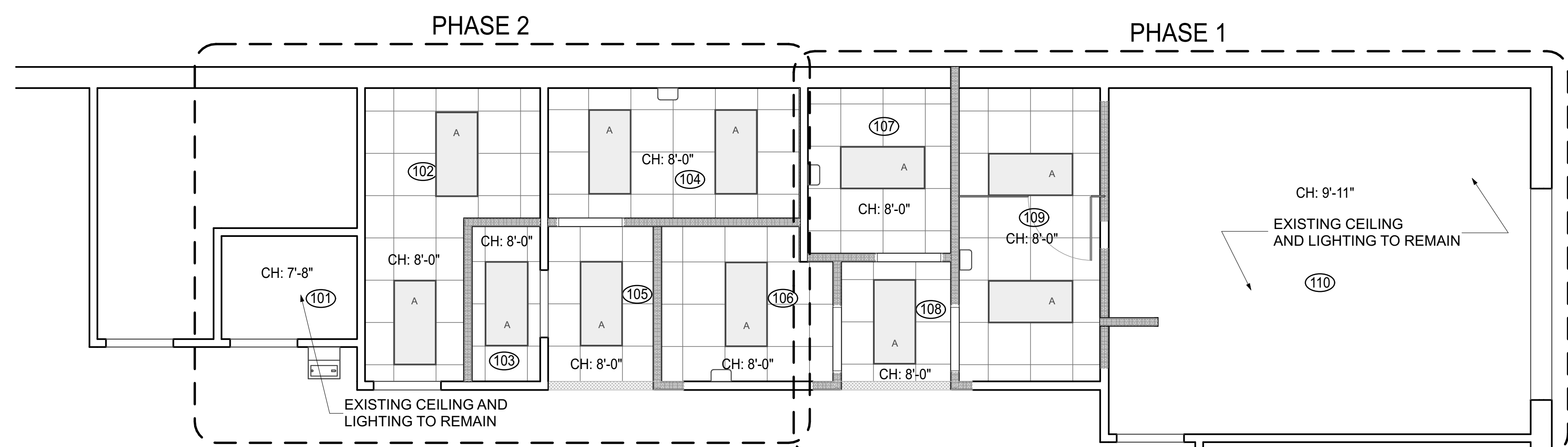


D1
A-111
1st FLOOR DEMOLITION PLAN
SCALE: 1/4" = 1'-0"
0 2' 4' 8'



B1
A-111
1st FLOOR CONSTRUCTION PLAN
SCALE: 1/4" = 1'-0"
0 2' 4' 8'

NOTE:
NEW CONCRETE SLAB INFILL (SEE PLUMBING DRAWINGS TO CONFIRM EXTENT): 3,500PSI CONCRETE SLAB, 5" THICK, W/ 6" x 6" W/W REINFORCING. ROUGHEN EXISTING SLAB EDGE AT INFILL. EPOXY (MIN. 6" INTO EXISTING CONCRETE) 1/2" x 1/2" DOWELS @ 12" O.C. AT ALL JOINTS TO EXISTING CONCRETE. SEE PLUMBING DRAWINGS FOR PIPE TRENCHING, BEDDING & CORROSION REQUIREMENTS. PLACE MIN. 8" CRUSHED STONE FILL (NO FINES) OVER COMPACTED PIPE COVERAGE FILL. PLACE VAPOR BARRIER (SAME AS STEGO WRAP 15-MIL) OVER CRUSHED STONE FILL.



A1
A-111
1st FLOOR REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"
0 2' 4' 8'

GENERAL DEMOLITION NOTES

- SEE PROJECT MANUAL, MEP & FP DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION.
- CONTRACTOR SHALL COORDINATE ALL ARCHITECTURAL, MECHANICAL, AND PLUMBING DEMOLITION DRAWINGS PRIOR TO COMMENCEMENT OF DEMOLITION.
- DRAWINGS DO NOT PURPORT TO SHOW ALL OBJECTS EXISTING AT THE SITE. BEFORE WORK IS TO COMMENCE, CONTRACTOR TO FIELD VERIFY ALL (V.I.F.) EXISTING CONDITIONS AND ELEMENTS TO BE PRESERVED AND REPORT TO THE ARCHITECT ANY DISCREPANCIES OR QUESTIONABLE ITEMS FOR DISCREPANCY RESOLUTION.
- DEMOLITION OF UTILITIES TO BE INVESTIGATED AS TO SOURCE AND LAST SERVICE PRIOR TO DEMOLITION.
- THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO PROTECT AND PRESERVE EXISTING CONDITIONS AND OBJECTS DESIGNATED TO REMAIN. IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY.
- PRIOR TO COMMENCING THE WORK, THE CONTRACTOR SHALL REVIEW EXISTING UTILITIES AT THE SITE AND DETERMINE METHODS FOR DISCONNECTING, CAPPING REMOVING OR PROTECTING SAME, IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY.
- THE CONTRACTOR SHALL REMOVE, RE-ROUTE AND/OR CAP OFF ALL UNUSED UTILITIES COMING INTO THE SPACE. ALL EXISTING UTILITIES SHALL BE CAPPED OFF OUTSIDE OF BUILDING - SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- NOTIFY THE ARCHITECT AT LEAST (2) TWO FULL DAYS PRIOR TO COMMENCING DEMOLITION WORK.
- PATCH ALL HOLES IN REMAINING CONSTRUCTION WITH NEW MATERIALS THAT MATCH EXISTING. (INCLUDING PIPE HOLES, CONDUIT HOLES, ETC.)
- DEMOLISHED PLUMBING FIXTURES ARE TO INCLUDE ALL WATER AND WASTE LINES, ALL FLANGES AND ATTACHMENTS.
- THE CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO EXISTING ITEMS TO REMAIN. ALL CUTTING IN WALLS/SLAB TO REMAIN SHALL BE DONE WITH MINIMAL DAMAGE TO ADJACENT AREAS/SURFACES.
- PROVIDE TEMPORARY SHORING AS REQUIRED AT ALL DEMOLITION AREAS THAT REMOVE EXISTING STRUCTURAL MEMBERS.
- THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY INCLUDING TEMPORARY FLOOR AND RAILINGS AT ALL NEWLY CREATED FLOOR OPENINGS.
- CONTRACTOR TO VISIT SITE TO DETERMINE MAKE-UP OF ITEMS TO BE REMOVED, AND APPROPRIATE METHODS FOR THEIR REMOVAL.
- COORDINATE ANY SITE EXCAVATION DUE TO NEW WASTE/SEWER/WATER LINES WITH PLUMBING DRAWINGS.
- DEMOLITION CONTRACTOR SHALL PROVIDE WALL & FLOOR PROTECTION AS REQUIRED TO NOT DAMAGE SAME.
- RETURN ALL REUSABLE DEMOLISHED ITEMS TO OWNER U.O.N. OR AS PER OWNER'S INSTRUCTIONS.
- ALL ITEMS TO REMAIN SHALL BE LEFT IN 'AS FOUND' CONDITION.
- REMOVE ALL DOORS & FRAMES & WALL MTD ACCESSORIES FROM REMOVED PARTITIONS.

LEGEND

- ITEM TO REMAIN
- ITEM TO BE REMOVED

DEMOLITION KEY NOTES

- REMOVE FLOORING, CEILING AND LIGHT FIXTURES IN THIS AREA
- REMOVE WALL TILE.
- REMOVE ALL PLUMBING FIXTURES & WALL/FLOOR MTD ACCESSORIES
- REMOVE FLOOR TILE

GENERAL NOTES

- SEE PROJECT MANUAL, MEP & FP DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION.
- ALL CONTRACTORS SHALL CONFIRM CLEARANCES NEEDED TO INSTALL THEIR WORK PRIOR TO PROCEEDING. CONTACT ARCHITECT FOR DISCREPANCY RESOLUTION.
- ALL NEW & EXISTING FLOOR PENETRATIONS SHALL BE SMOKE TIGHT.

CONSTRUCTION NOTES

- ALL INTERIOR STUD PARTITIONS SHALL BE TYPE [1] UNLESS OTHERWISE NOTED
- ALL INTERIOR PARTITIONS TO EXTEND TO UNDERSIDE OF ROOF DECKING. ALL STRUCTURAL PENETRATIONS THROUGH WALLS SHALL BE ACOUSTICALLY SEALED.
- PROVIDE BLOCKING FOR ALL WALL MOUNTED MILLWORK.

REFLECTED CEILING NOTES

- ALL LIGHT FIXTURES & CEILING GRIDS SHALL BE CENTERED IN ROOMS UON.
- ALL ACP SHALL BE ACP-1 UON.
- CENTER ALL CEILING MOUNTED OBJECTS IN CEILING PANEL/PATTERN UON.
- HANGERS SHALL BE SECURELY ATTACHED TO STRUCTURE ABOVE. WIRE HANGERS SHALL NOT BE LESS THAN 12 GA. AND SHALL BE SADDLE TIED TO MAIN RUNNERS.
- ALL EQUIPMENT ITEMS SHALL BE INDEPENDENTLY SUSPENDED AND NOT CONNECTED TO THE CEILING GRID.
- CEILING SUSPENSION SYSTEM SHALL NOT BE USED TO SUPPORT LIGHT FIXTURES, DUCTWORK, PIPING, ETC.

LEGEND

- | SYMBOL | NAME |
|----------|------------------------------------|
| [Symbol] | ACOUSTICAL CEILING PANEL |
| [Symbol] | ACP-1 (ALL UNLESS OTHERWISE NOTED) |
| [Symbol] | RECESSED FLUORESCENT LIGHTS |
| [Symbol] | GYPSUM SOFFIT |
| [Symbol] | CEILING HEIGHT AFF |
| [Symbol] | CEILING TYPE |



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REVISIONS:



1st FLOOR CONSTRUCTION PLANS

DATE: 06.09.2023

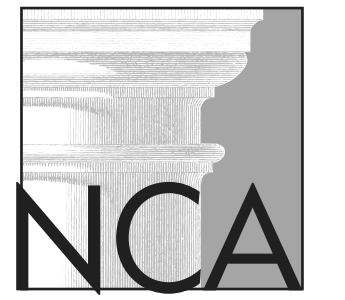
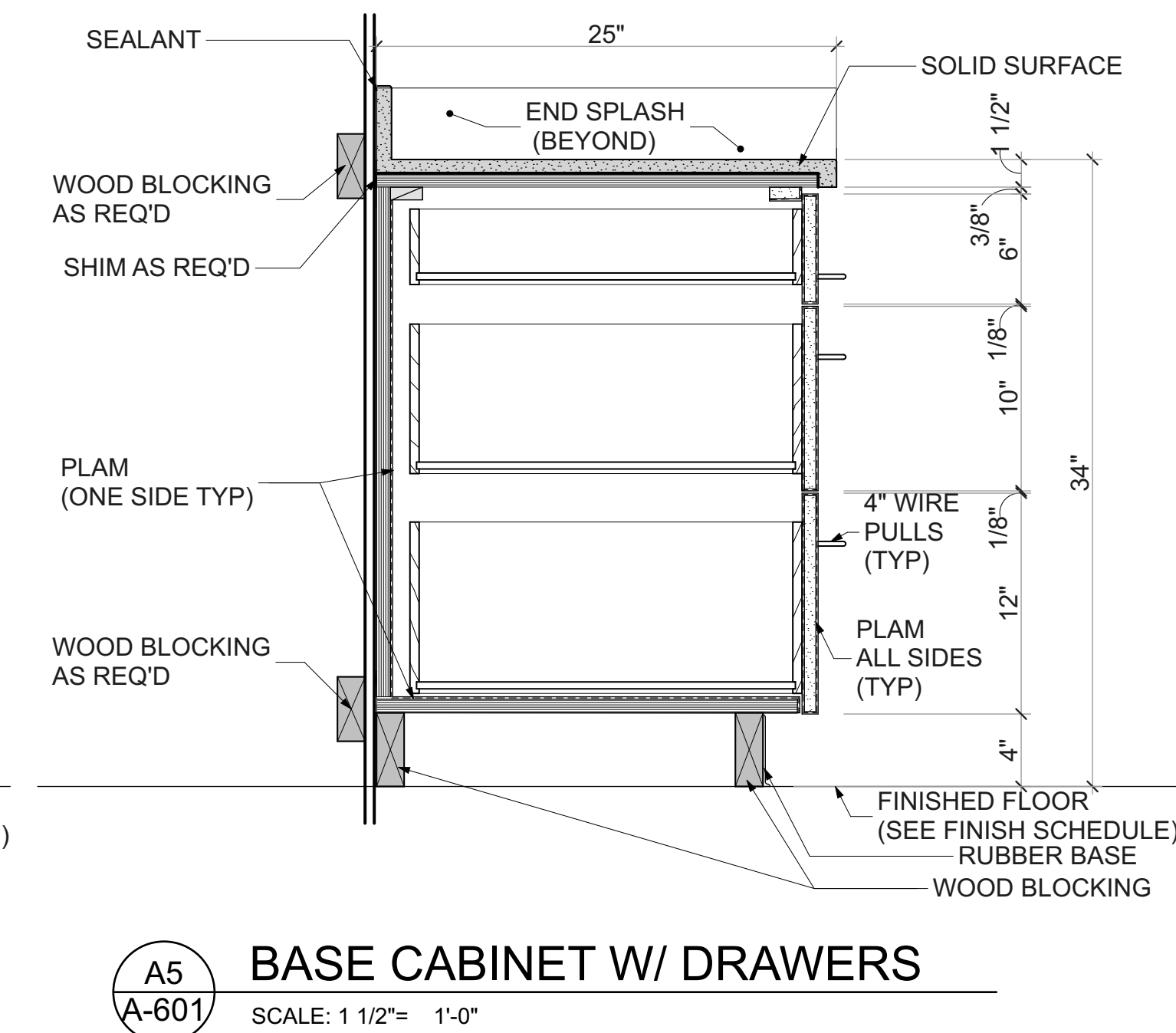
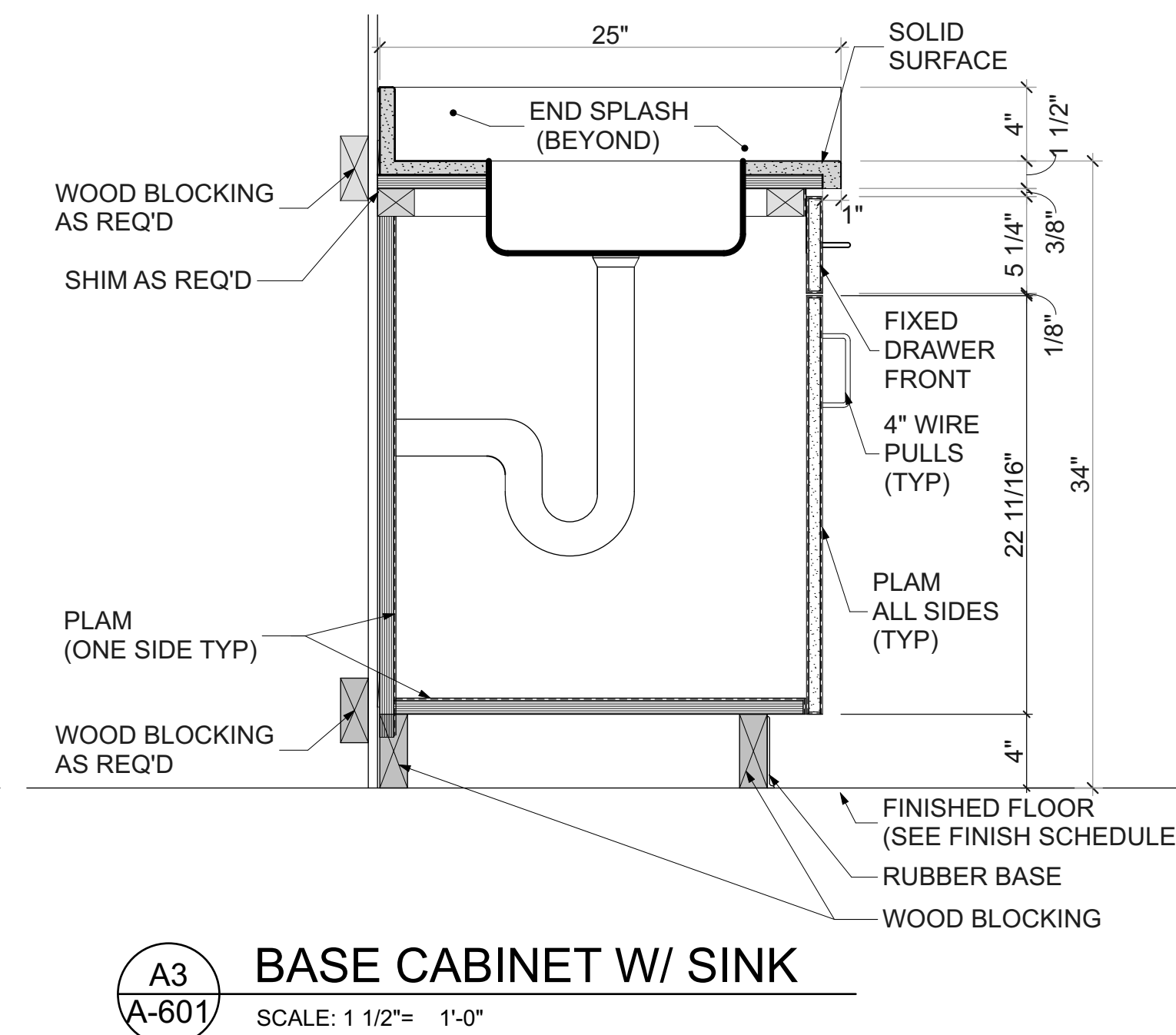
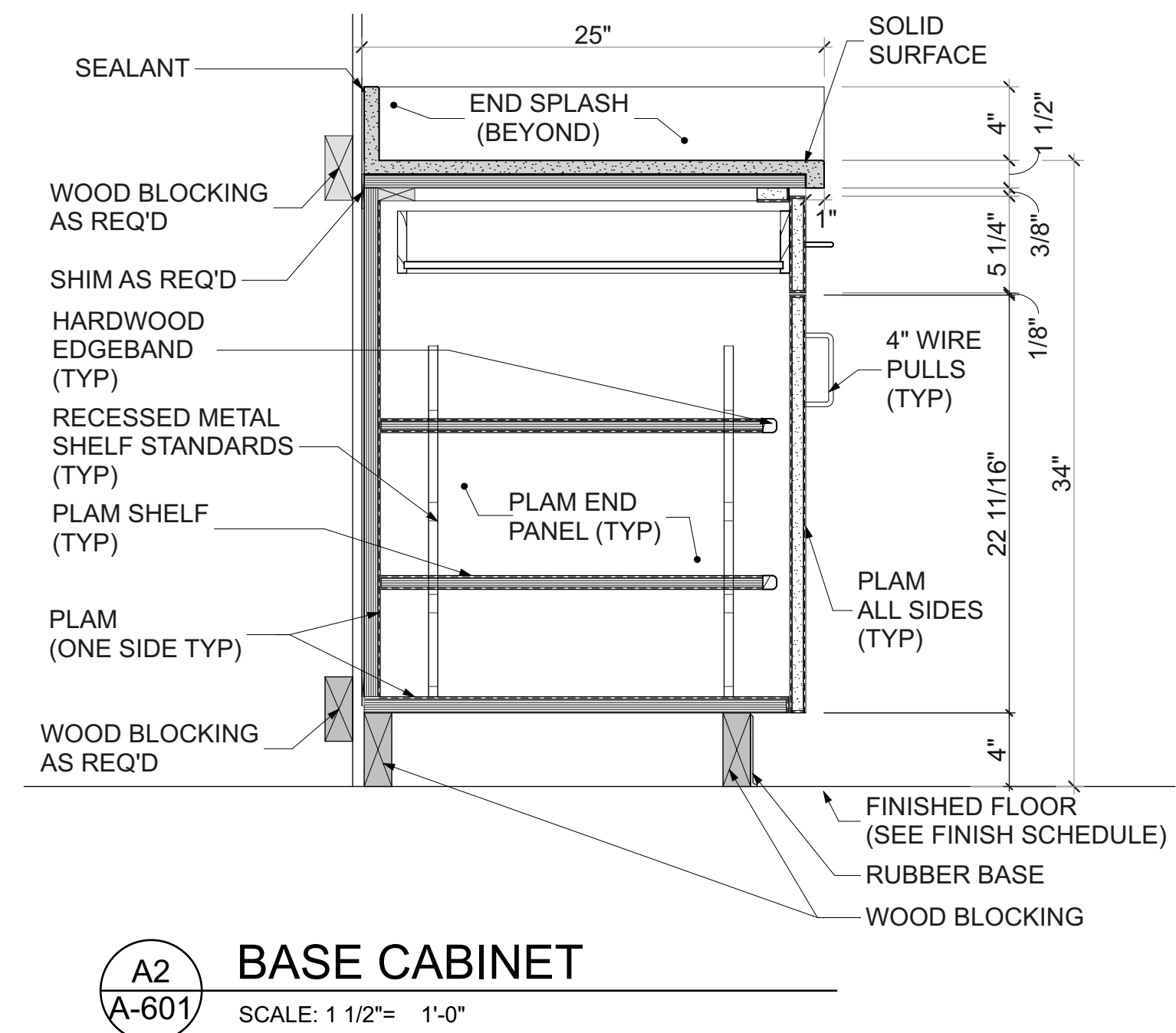
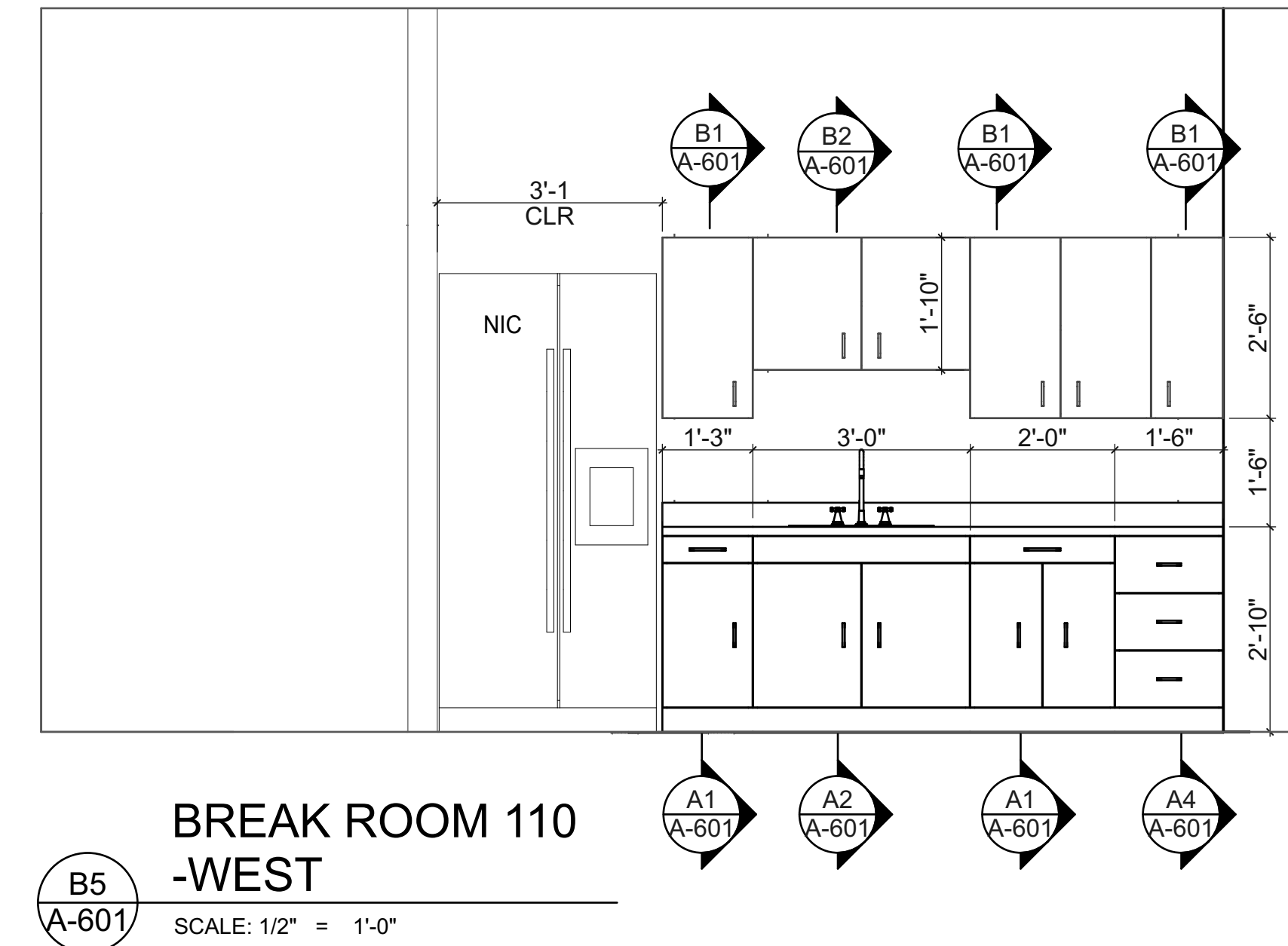
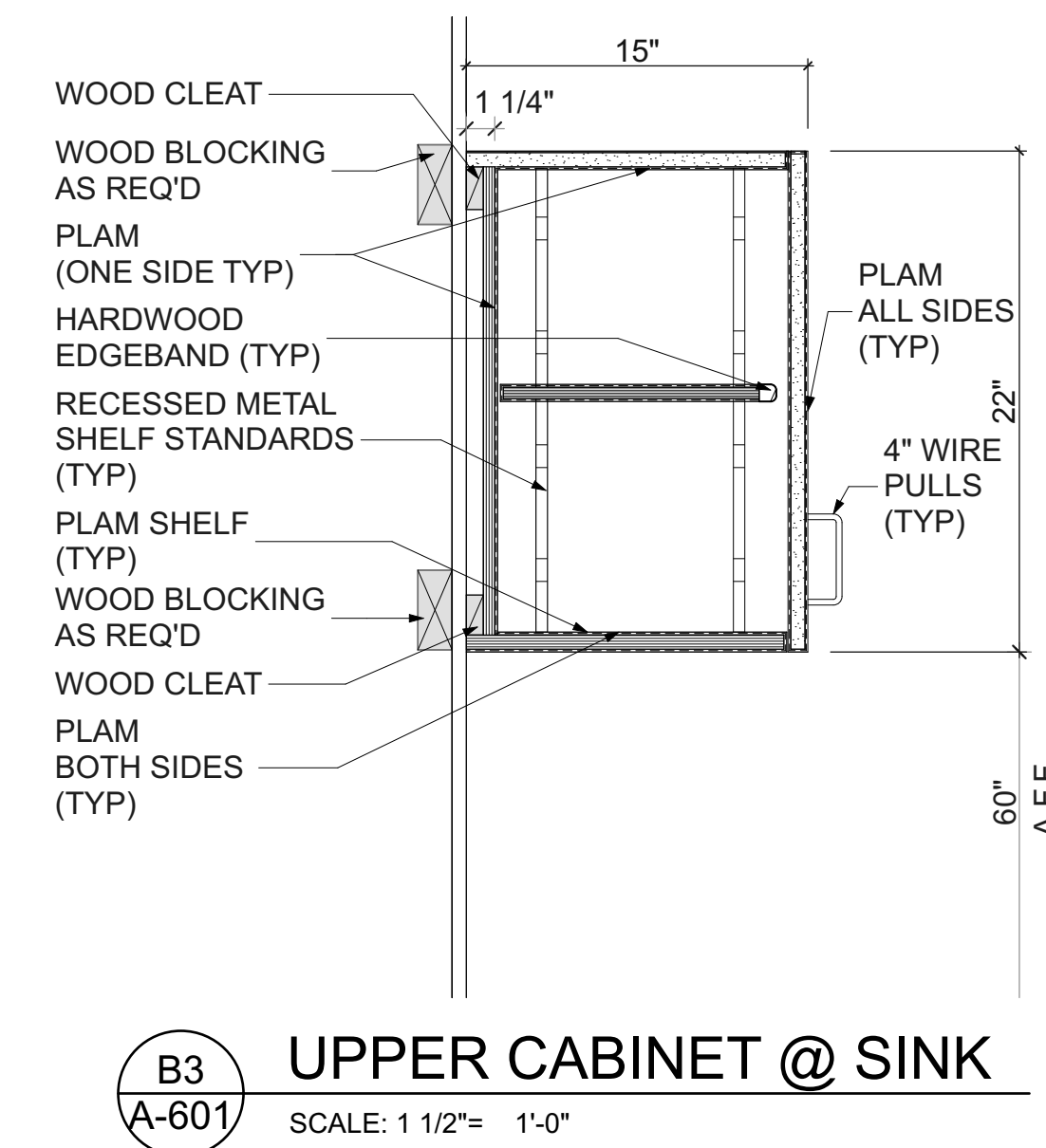
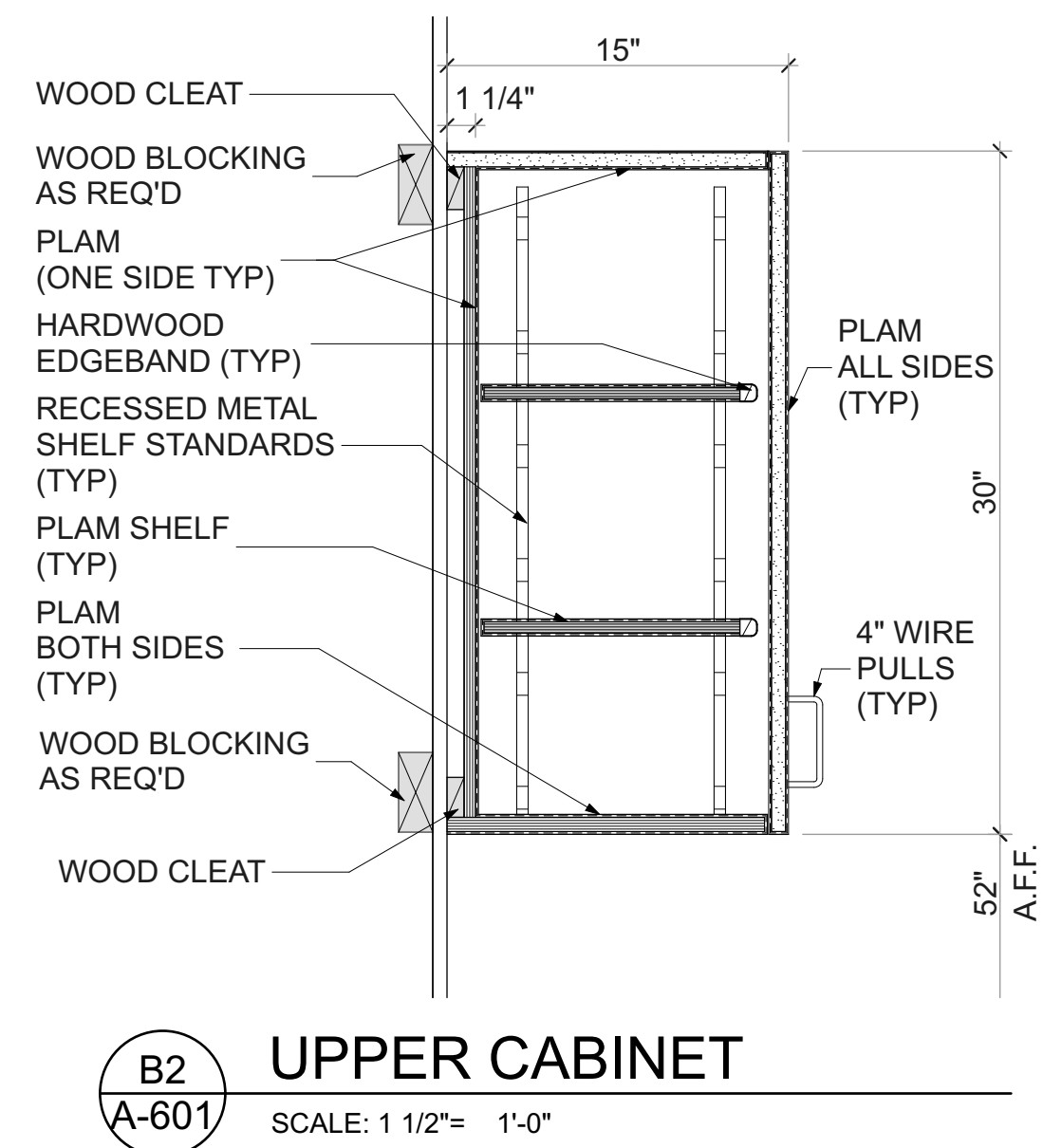
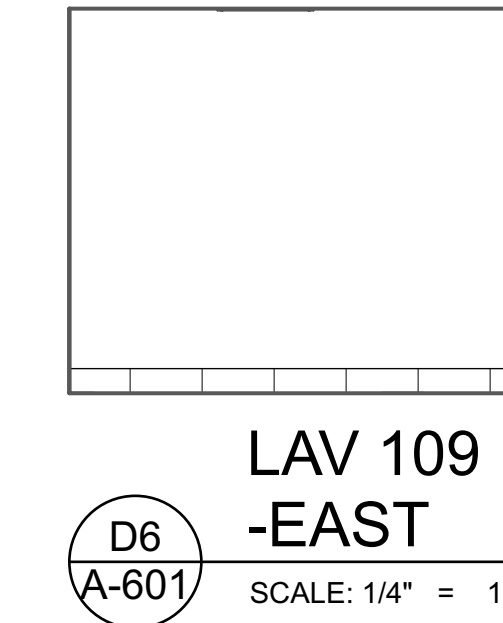
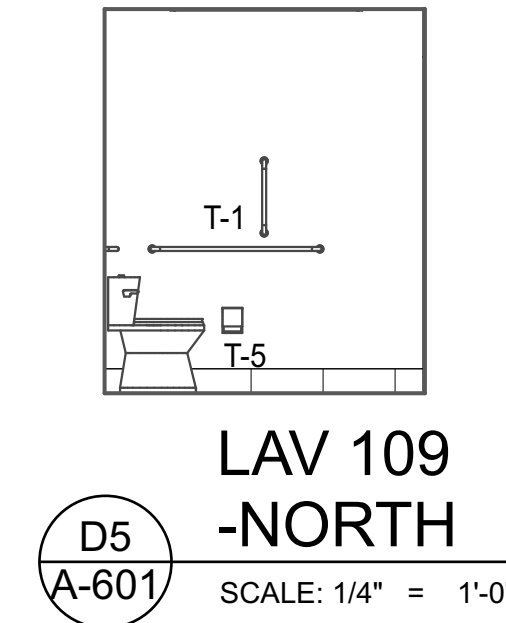
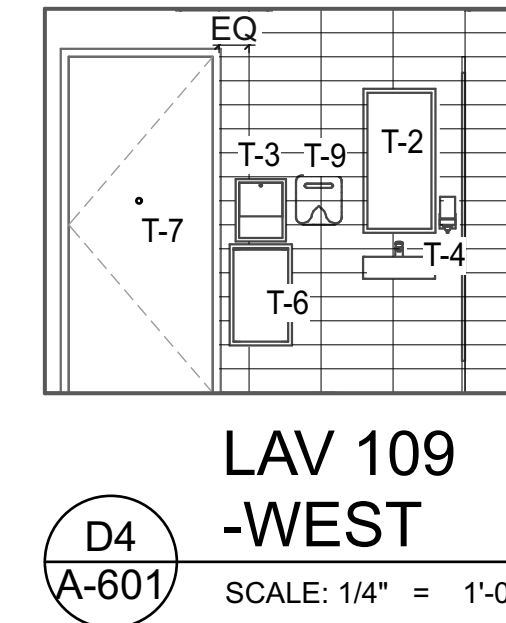
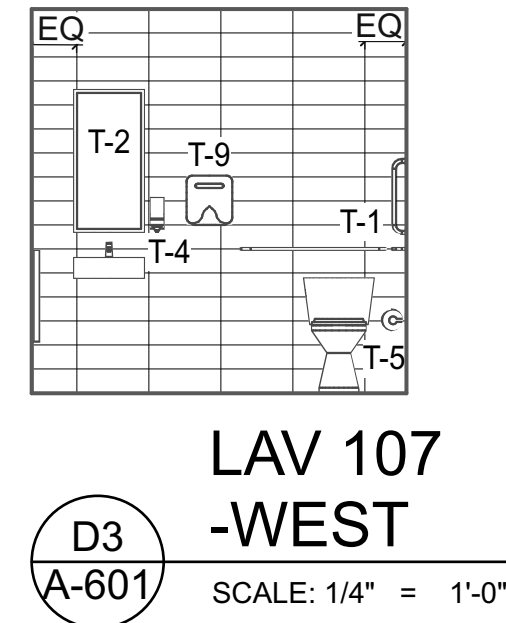
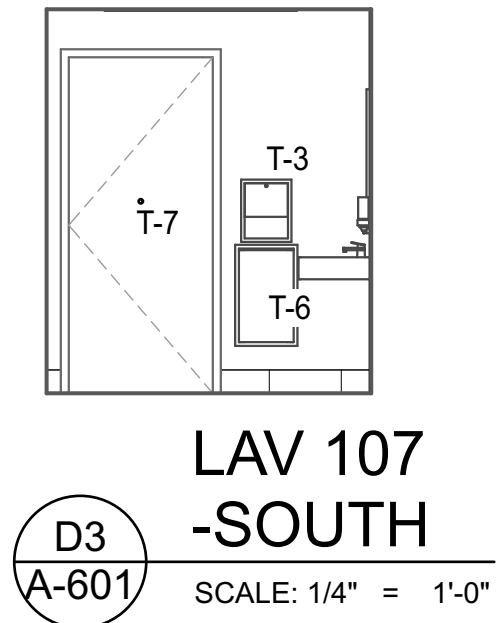
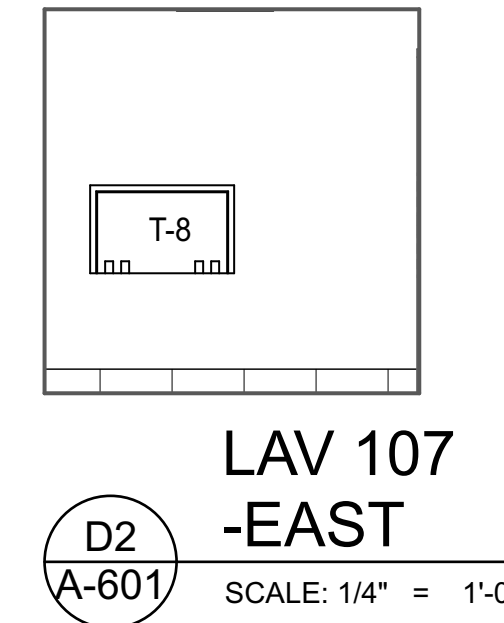
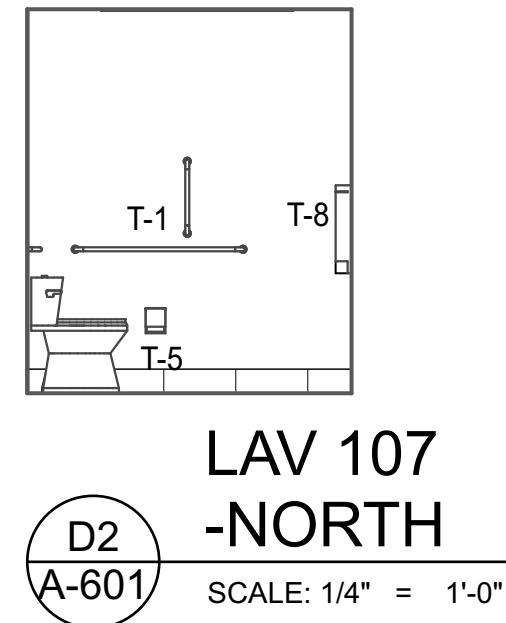
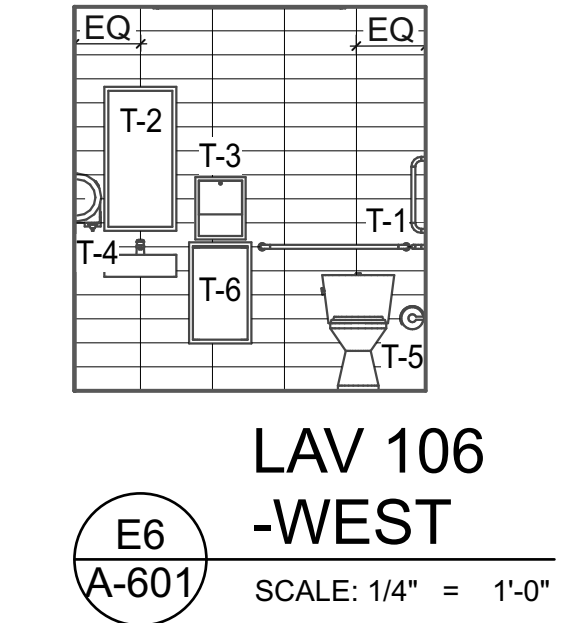
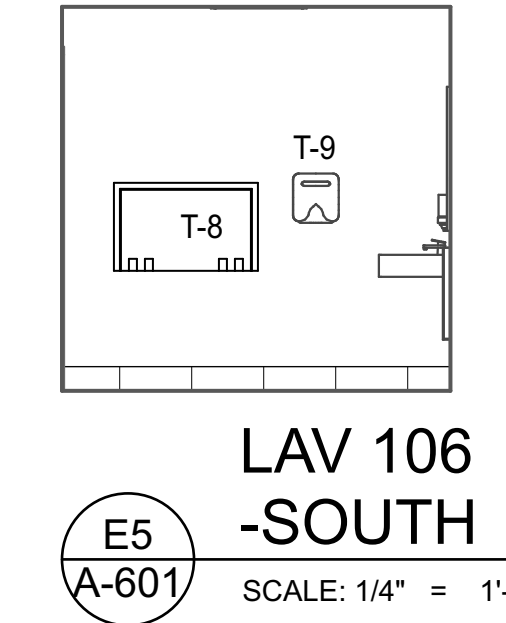
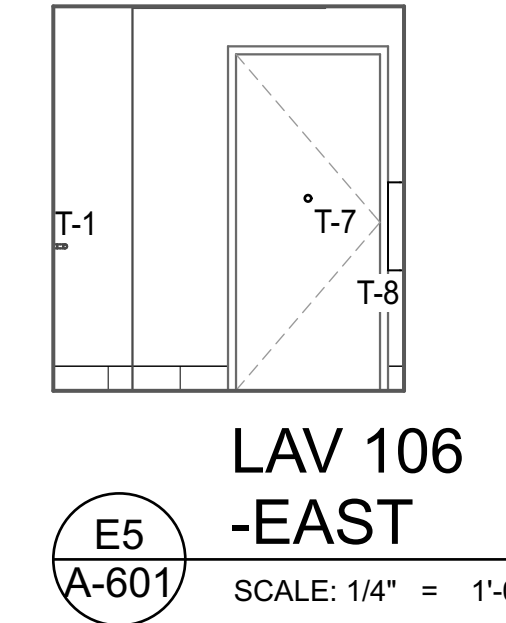
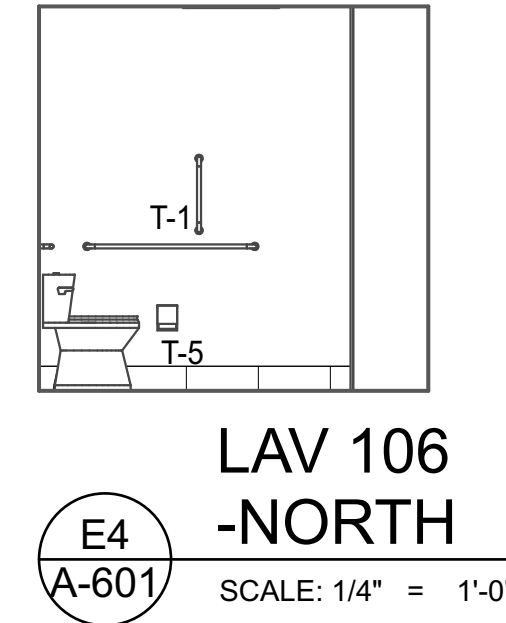
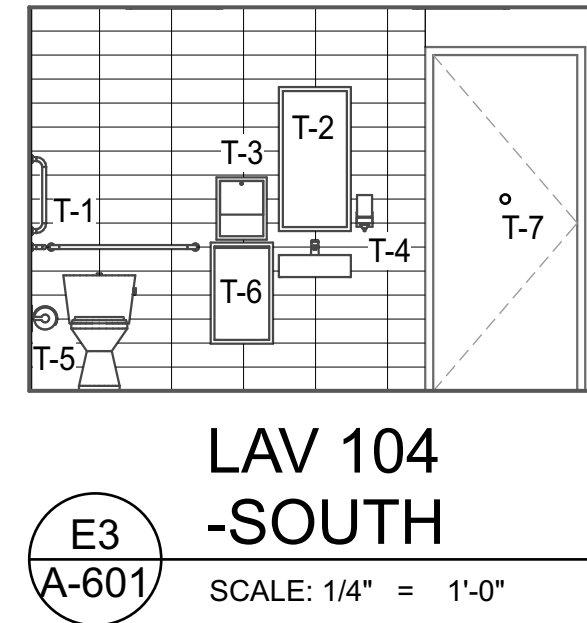
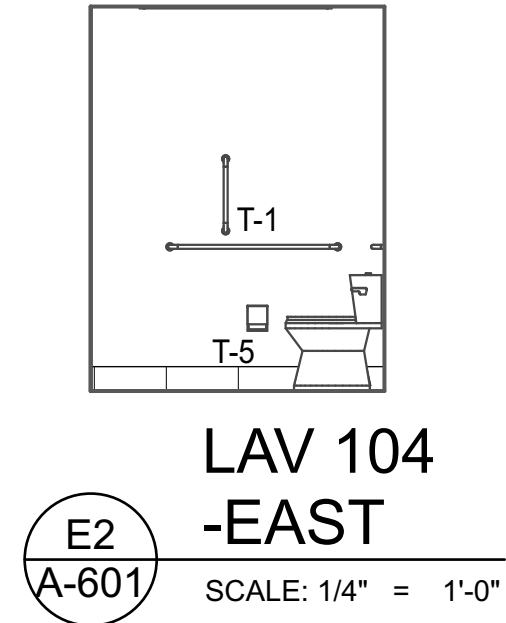
NCA JOB NO.: 22330

DRAWING NO.:

A-111

| ACCESSORY SCHEDULE | |
|--------------------|-----------------------|
| ACC # | DESCRIPTION |
| T-1 | GRAB BARS |
| T-2 | MIRROR |
| T-3 | PAPER TOWEL DISPENSER |
| T-4 | SOAP DISPENSER |
| T-5 | TOILET PAPER HOLDER |
| T-6 | WASTE RECEPTACLE |
| T-7 | COAT HOOK |
| T-8 | BABY CHANGING TABLE |
| T-9 | HAND DRYER |

NOTE:
 - SEE A-000 FOR MOUNTING HEIGHTS.
 - ANCHOR ALL TOILET ACCESSORIES INTO SOLID WOOD BLOCKING.
 - SOAP DISPENSERS ARE PROVIDED BY OWNER AND TO BE INSTALLED BY GC.



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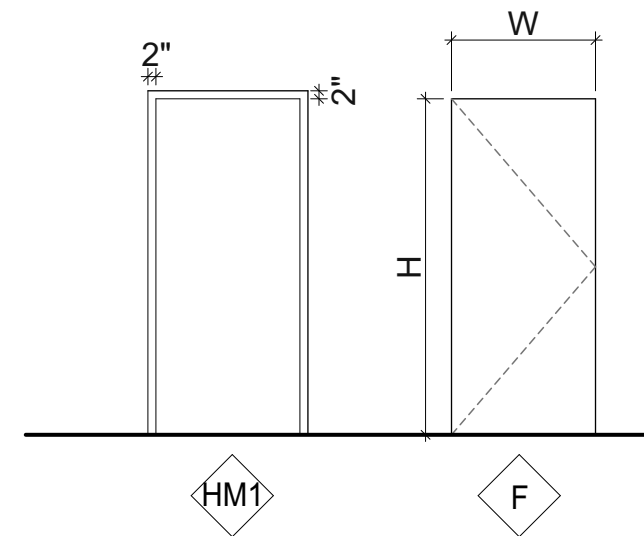
INTERIOR ELEVATIONS, MILLWORK DETAILS

DATE: 06.30.2023

NCA JOB NO.: 22330

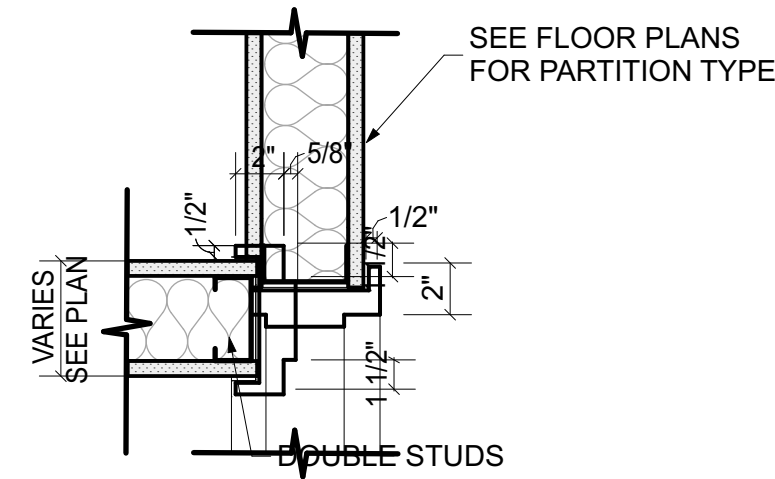
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A-601



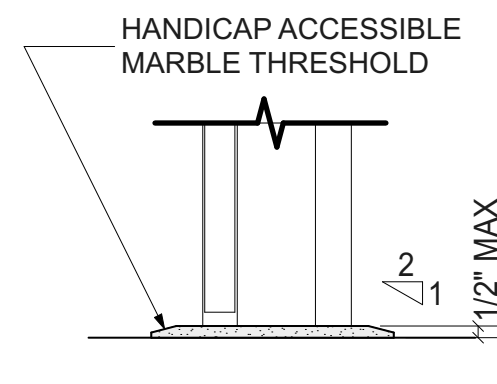
HM FRAME & DOOR ELEVATIONS

E1
A-801
SCALE: 1/4" = 1'-0"

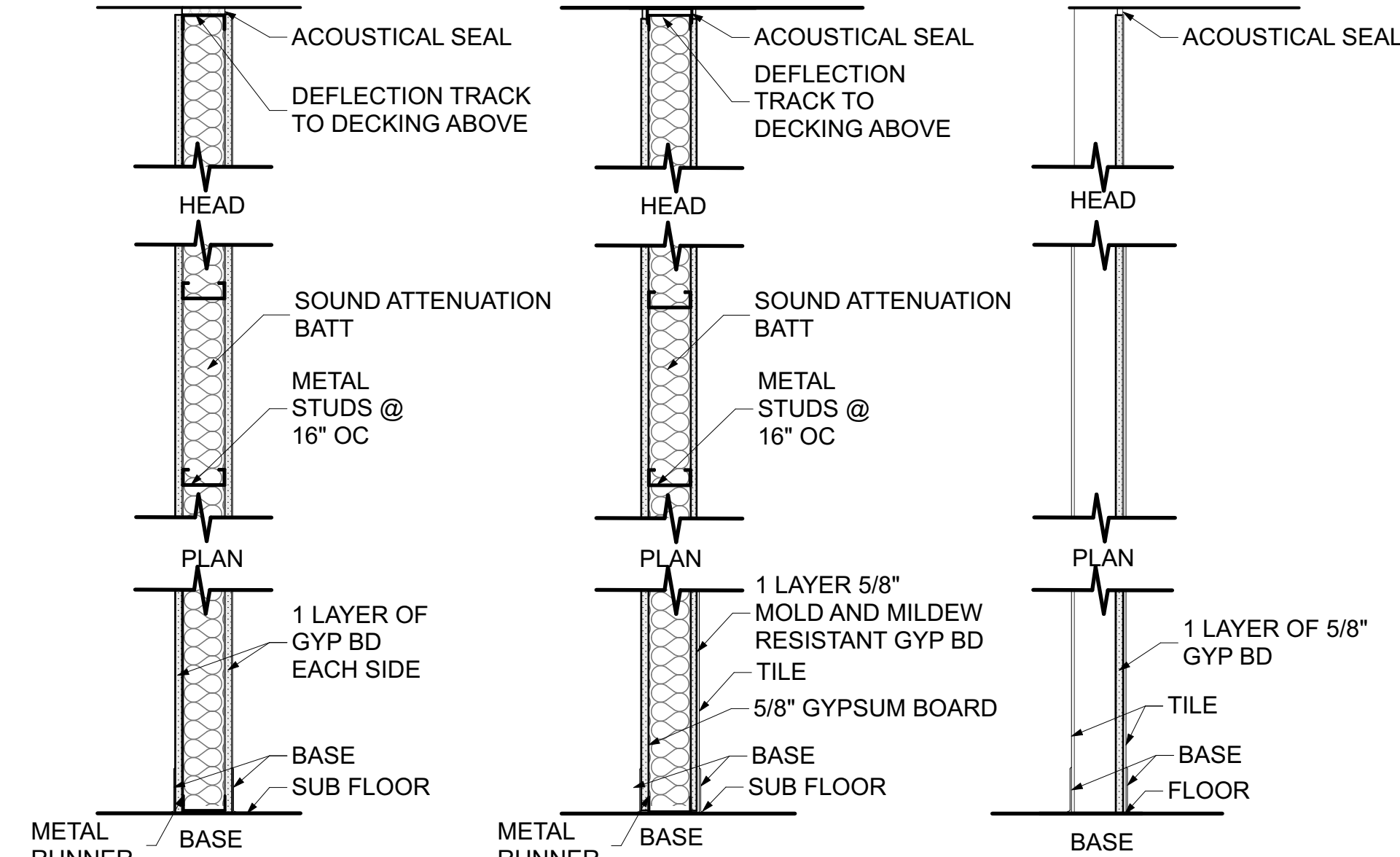


DOOR FRAME & THRESHOLD DETAILS

E2
A-801
SCALE: 1 1/2" = 1'-0"



S1

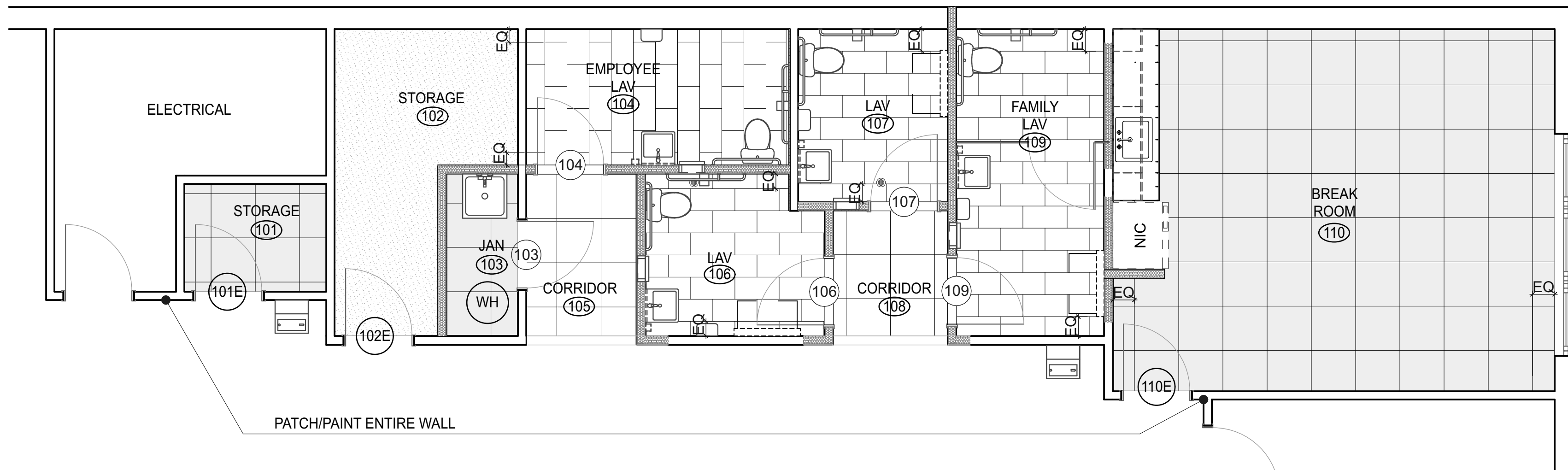


- 1 3 5/8" METAL STUD
5/8" GYP BD
- 1A 3 5/8" METAL STUD
5/8" GYP BD &
5/8" MOLD AND MILDEW
RESISTANT GYP BD
ONE SIDE
- 2 3 5/8" METAL STUD
MOLD AND MILDEW
RESISTANT GYP BD
WITH TILE - ONE
SIDE
- 3 EXISTING WALL,
NEW 5/8" GYP - ONE
SIDE

D4
A-801
SCALE: 1" = 1'-0"

| DOOR NUMBER | NEW OR EXISTING | ELEVATION DETAILS | DOOR | | | | FRAME | | | FIRE RATING (MIN.) | SIGNAGE | REMARKS |
|-------------|-----------------|-------------------|-------|-------|-------------|---------------|----------------------------|-------------|-------------|--------------------|-------------------|----------------------|
| | | | W | HT | DOUBLE LEAF | TYPE/MATERIAL | TYPE - SEE FRAME ELEVATION | HEAD DETAIL | JAMB DETAIL | | | |
| 101E | EXISTING | | | | | | | | | | STORAGE | PAINT DOOR AND FRAME |
| 102E | EXISTING | | | | | | | | | | STORAGE | PAINT DOOR AND FRAME |
| 103 | NEW | F | 3'-0" | 7'-0" | | HM | HM1 | H1 | J1 | S1 | JAN CL | PAINT DOOR AND FRAME |
| 104 | NEW | F | 3'-0" | 7'-0" | | HM | HM1 | H1 | J1 | S1 | EMPLOYEE LAVATORY | PAINT DOOR AND FRAME |
| 106 | NEW | F | 3'-0" | 7'-0" | | HM | HM1 | H1 | J1 | S1 | LAVATORY | PAINT DOOR AND FRAME |
| 107 | NEW | F | 3'-0" | 7'-0" | | HM | HM1 | H1 | J1 | S1 | LAVATORY | PAINT DOOR AND FRAME |
| 109 | NEW | F | 3'-0" | 7'-0" | | HM | HM1 | H1 | J1 | S1 | FAMILY LAVATORY | PAINT DOOR AND FRAME |
| 110E | EXISTING | | | | | | | | | | BREAK ROOM | PAINT DOOR AND FRAME |

C1
A-801
DOOR SCHEDULE



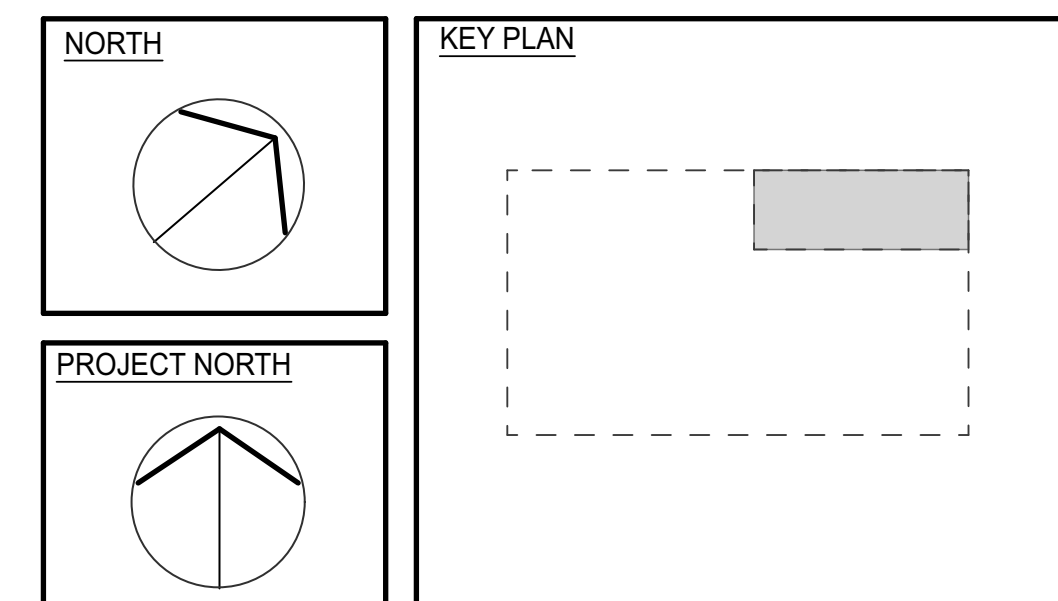
B1
A-801
1st FLOOR FINISH PLAN
SCALE: 1/4" = 1'-0"

| GENERAL FINISH NOTES | LEGEND |
|---|--|
| 1. PAINT ALL SOFFITS, FASCIAS, CEILING RETURNS, AND GWB CEILINGS. | P1 GENERAL PAINT COLOR (ALL SURFACES, UON): COLOR: TBD |
| 2. PAINT ALL EXPOSED METAL TRIM, METAL DECK, METAL STRUCTURE, EXPOSED DUCTWORK AND OTHER EXPOSED ITEMS NOT INCLUDED IN THE SCHEDULE. | P4 DOOR & FRAMES COLOR: TBD |
| 3. PAINT ALL NEW HOLLOW METAL DOORS AND FRAMES. | EXISTING FLOOR TO REMAIN |
| 4. APPLY RUBBER BASE ON ALL BASE CABINETS. | RUBBER TILE |
| 5. ALL BIDDERS TO NOTIFY ARCHITECT OF ANY SURFACE WITHOUT A FINISH PRIOR TO SUBMITTING BID. SUBMITTED FINISH BIDS IMPLY ALL EXPOSED SURFACES HAVE FINISH U.O.N. | 12 X 24 PORCELAIN FLOOR TILE |
| | CARPET TILE |

FINISH SCHEDULE

| ROOM # | ROOM NAME | FLOOR | | BASE | WALLS | | | | | | | | REMARKS |
|--------|-------------------|-----------|-----------------|-----------------|-----------------|-----------|-----------------|-----------|-----------------|-----------|-----------------|-----------|--------------------------------------|
| | | SUBSTRATE | FINISH MATERIAL | | NORTH | | EAST | | SOUTH | | WEST | | |
| | | | | FINISH MATERIAL | FINISH MATERIAL | SUBSTRATE | FINISH MATERIAL | SUBSTRATE | FINISH MATERIAL | SUBSTRATE | FINISH MATERIAL | SUBSTRATE | |
| 101 | STORAGE | CONCRETE | RUBBER TILE | RUBBER | EXIST. GB | PAINT | EXIST. GB | PAINT | EXIST. GB | PAINT | EXIST. GB | PAINT | |
| 102 | STORAGE | CONCRETE | EXIST | RUBBER | EXIST. GB | PAINT | EXIST. GB/ GB | PAINT | EXIST. GB/ GB | PAINT | EXIST. GB/ GB | PAINT | REMOVE EXISTING TILE. PREP FOR PAINT |
| 103 | JANITOR CLOSET | CONCRETE | RUBBER TILE | RUBBER | GB | FRP | EXIST. GB | FRP | EXIST. GB | FRP | GB | FRP | |
| 104 | EMPLOYEE LAVATORY | CONCRETE | TILE | TILE | EXIST. GB | PAINT | EXIST. GB | PAINT | GB | TILE | EXIST. GB | PAINT | REMOVE EXISTING TILE |
| 105 | CORRIDOR | CONCRETE | CARPET TILE | RUBBER | GB | PAINT | GB | PAINT | - | - | EXIST. GB | PAINT | REMOVE EXISTING TILE |
| 106 | LAVATORY | CONCRETE | TILE | TILE | EXIST. GB/ GB | PAINT | EXIST. GB/ GB | PAINT | EXIST. GB/ GB | PAINT | GB | TILE | REMOVE EXISTING TILE |
| 107 | LAVATORY | CONCRETE | TILE | TILE | EXIST. GB | PAINT | GB | PAINT | GB | PAINT | EXIST. GB | TILE | REMOVE EXISTING TILE |
| 108 | CORRIDOR | CONCRETE | CARPET TILE | RUBBER | GB | PAINT | GB | PAINT | - | - | GB | PAINT | REMOVE EXISTING TILE |
| 109 | FAMILY LAVATORY | CONCRETE | TILE | TILE | EXIST. GB | PAINT | EXIST. GB / GB | PAINT | EXIST. GB/ GB | PAINT | GB | TILE | REMOVE EXISTING TILE |
| 110 | BREAK ROOM | CONCRETE | RUBBER TILE | RUBBER | EXIST. GB | PAINT | EXIST. GB | PAINT | EXIST. GB/ GB | PAINT | GB | PAINT | |

A1
A-801
FINISH SCHEDULE



NCA
NORTHEAST COLLABORATIVE ARCHITECTS
650 Ten Rod Road
North Kingstown, RI 02852
v. 401.846.9583

Mechanical/Electrical/Plumbing Engineers:
Engineering Design Services, Inc.
141 Industrial Drive
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Statesville, Rhode Island 02876
Phone: (401) 765-2984

BATHROOM RENOVATIONS
STATE OF RHODE ISLAND
DEPARTMENT OF LABOR & TRAINING
1330 MAIN STREET
WEST WARWICK, RI 02893

REVISIONS:



SCHEDULES, DETAILS AND WALL TYPES

DATE: 06.09.2023

NCA JOB NO.: 22330

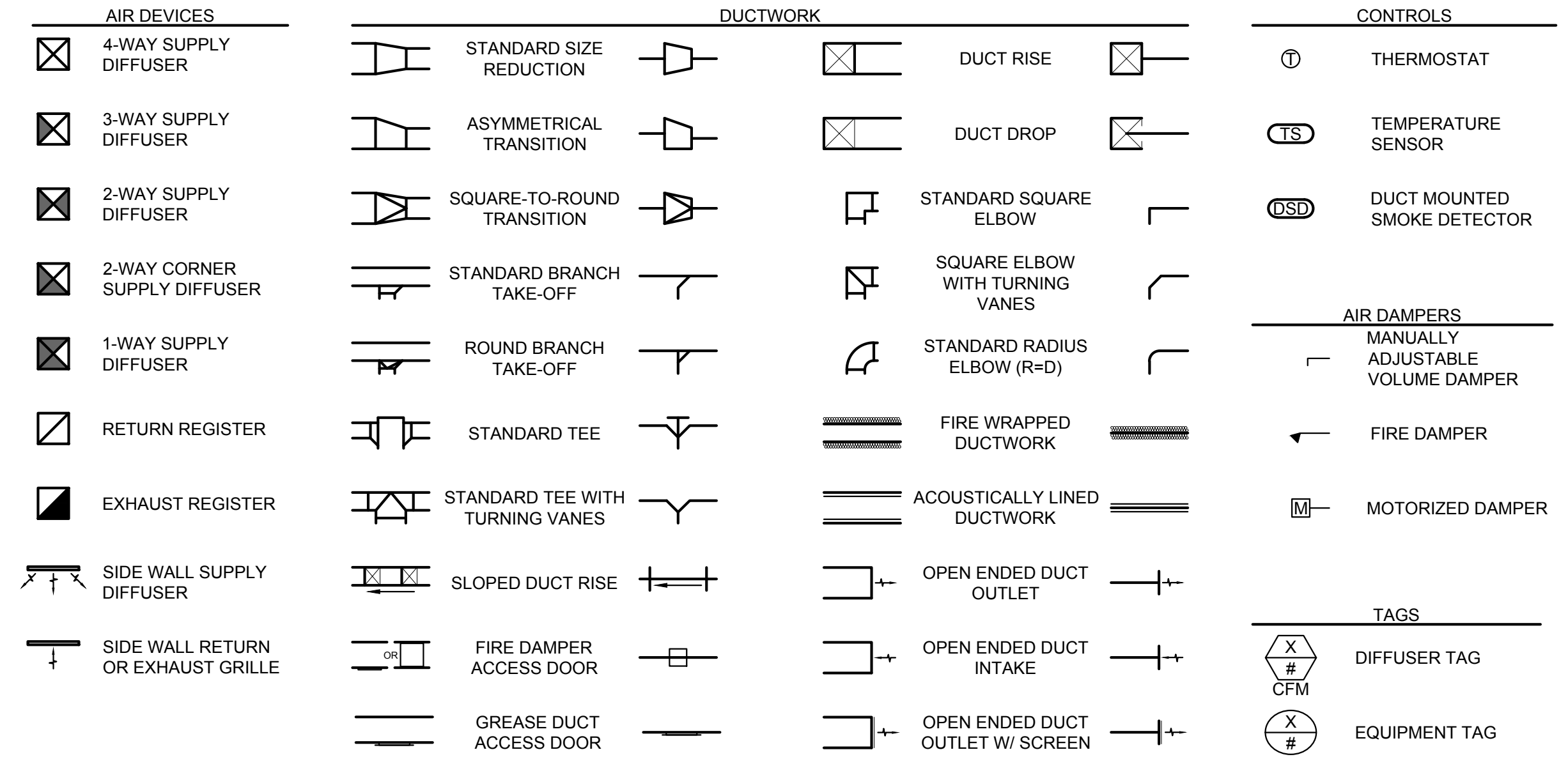
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A-801

ABBREVIATIONS

Table of abbreviations categorized into GENERAL ABBREVIATIONS, CONTROLS ABBREVIATIONS, and EQUIPMENT ABBREVIATIONS. Includes terms like AAV, ADDL, AFF, AMS, ALT, AMP, AP, APD, ARCH, ATC, ATM, AVG, etc.

MECHANICAL SYMBOL LEGEND



LEGEND NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED. ABSENCE OF A SYMBOL ON THE DRAWINGS DOES NOT NECESSARILY MEAN IT IS NOT REQUIRED. REFER TO DETAILS & SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF WORK REQUIRED.

GENERAL CONSTRUCTION NOTES:

- 1. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH LOCAL CODES AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
... 21. ALL THERMOSTATS, CONTROL SWITCHES, ETC. SHALL BE INSTALLED 48" AFF.

GENERAL RENOVATION NOTES:

- 1. ALL SHUT DOWNS OF EXISTING SYSTEMS SHALL BE SCHEDULED AND APPROVED BY THE OWNER PRIOR TO COMMENCING WITH WORK.
2. NO DUCTWORK, PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED, OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE OWNER AND/OR ENGINEER TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED.
... 10. THE FIRE PROOFING OF THE EXISTING STRUCTURE IS NOT TO BE REMOVED FOR THE INSTALLATION OF HANGERS, SUPPORTS AND DUCTWORK ETC.



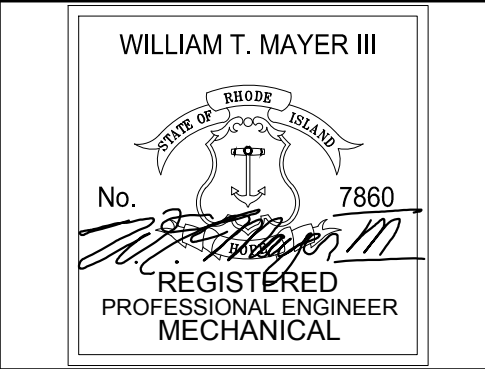
NORTHEAST COLLABORATIVE ARCHITECTS
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North Kingstown, RI 02852
v: 401.846.9583



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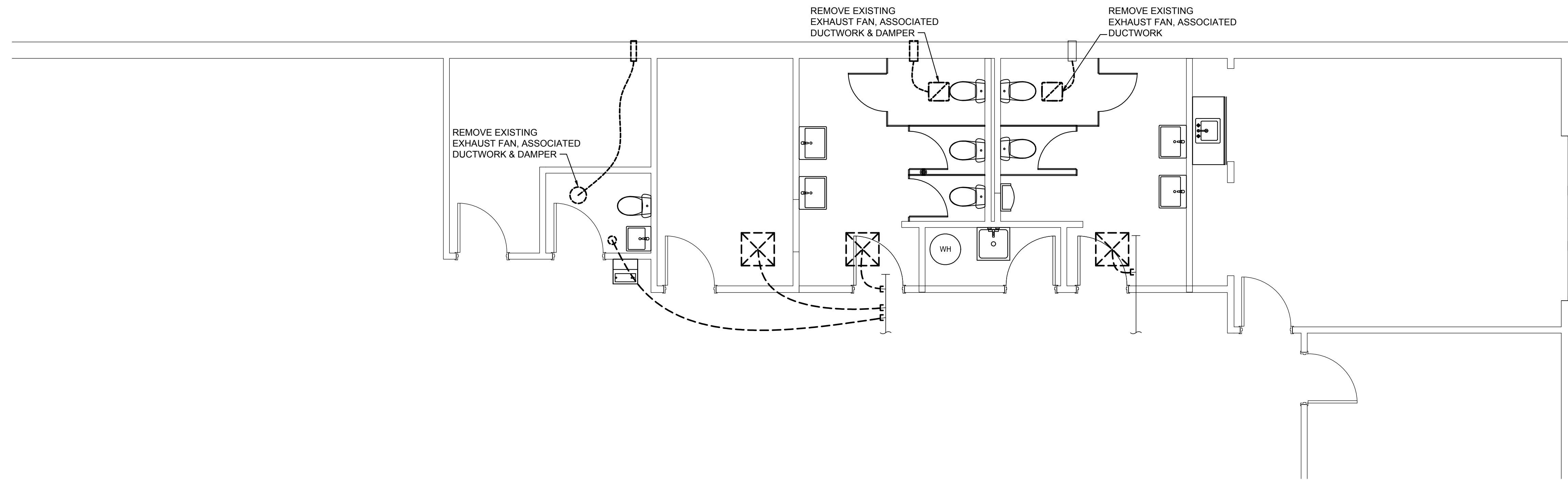
MECHANICAL LEGENDS & NOTES

DATE: 06.29.2023

NCA JOB NO.: 22330

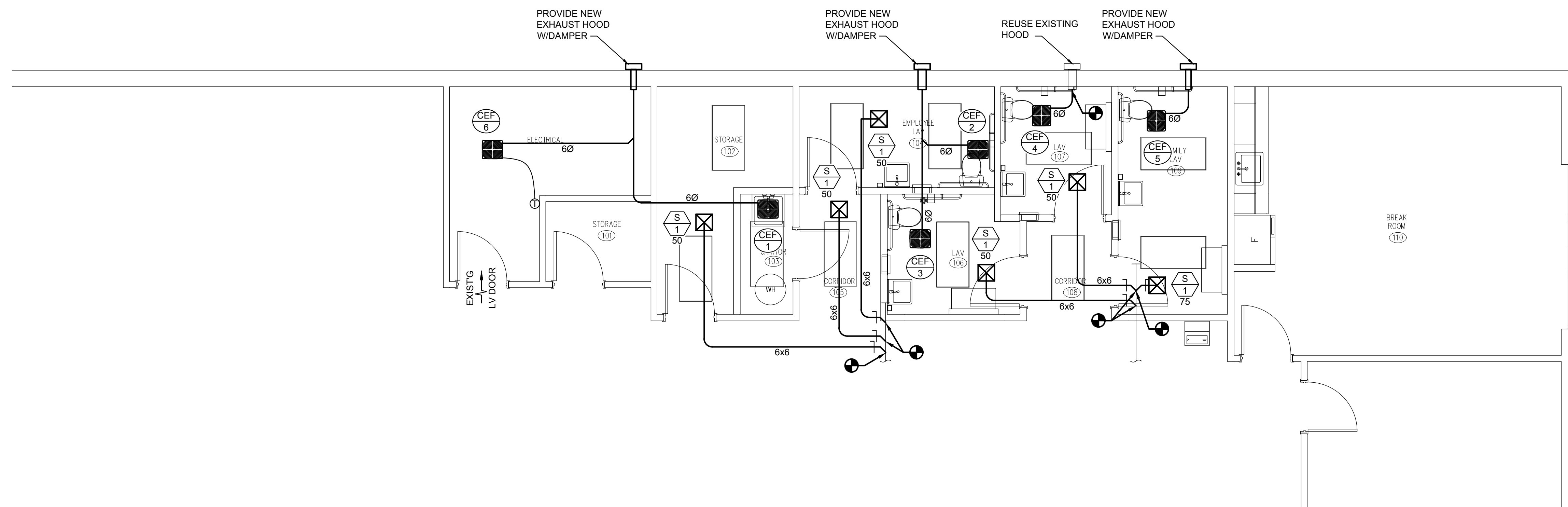
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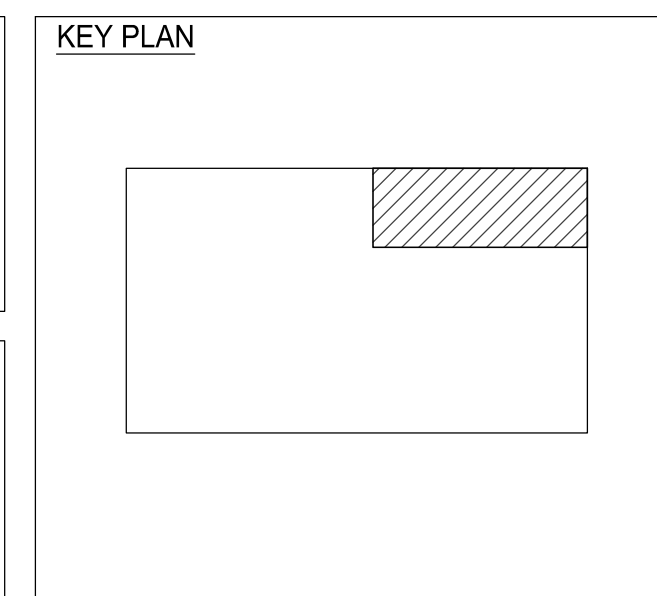
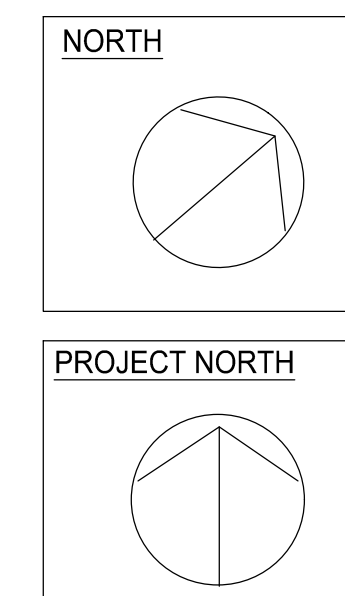


MECHANICAL NOTE:
 1. THIS IS A PHASED PROJECT.
 COORDINATE PHASING WITH
 CONTRACTOR & ARCHITECT.

1
 M-111
MECHANICAL - 1st FLOOR DEMO PLAN
 1/8" = 1'-0"



2
 M-111
MECHANICAL - 1st FLOOR PLAN
 1/8" = 1'-0"



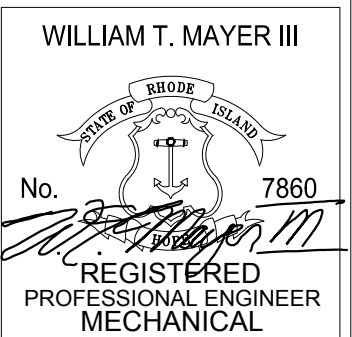
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REVISIONS:



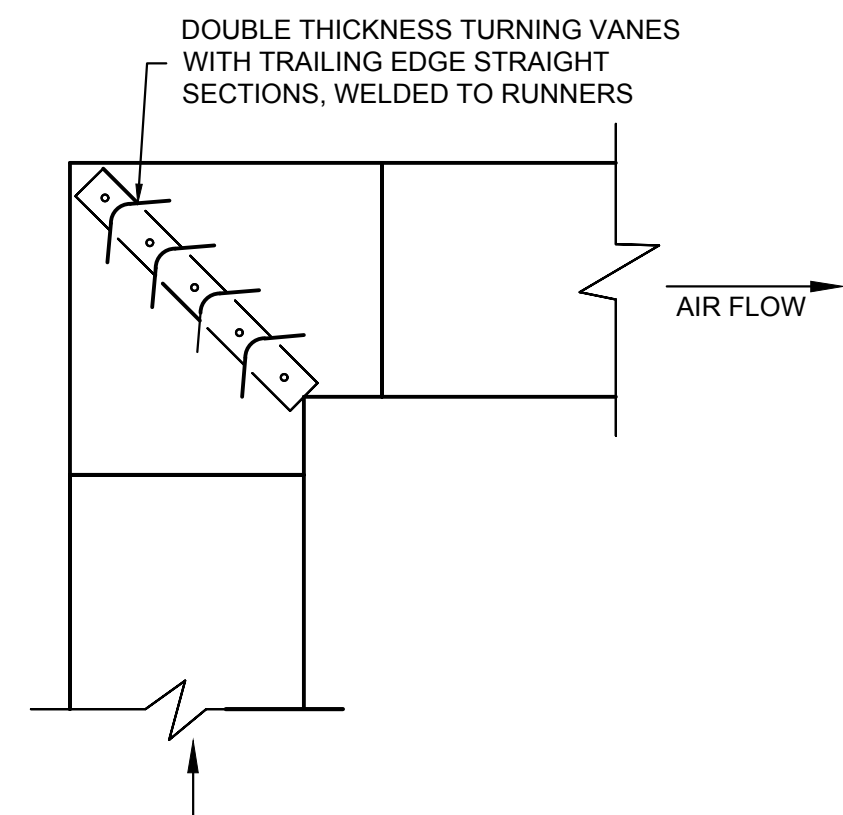
MECHANICAL
FIRST FLOOR
PLANS

DATE: 06.29.2023

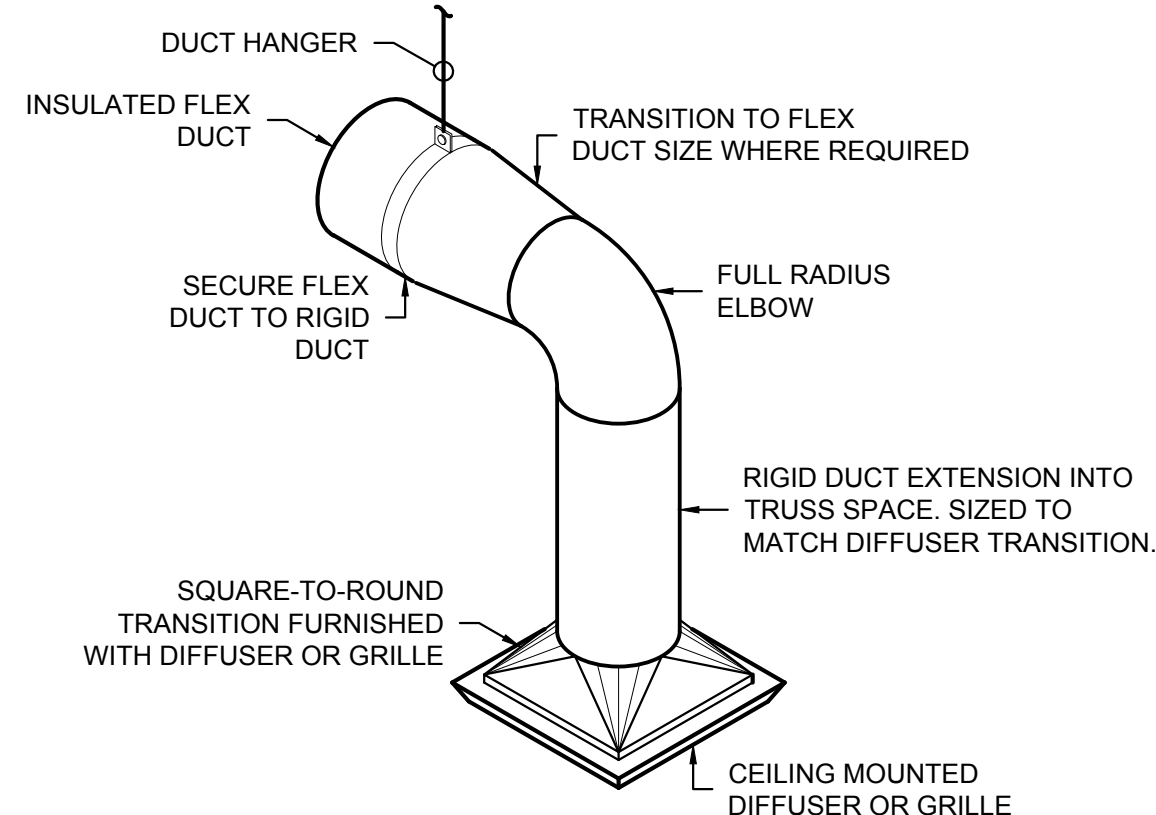
NCA JOB NO.: 22330

DRAWING NO.:

M-111



TYPICAL SQUARE ELBOW
NTS



DIFFUSER CONNECTION DETAIL
NTS

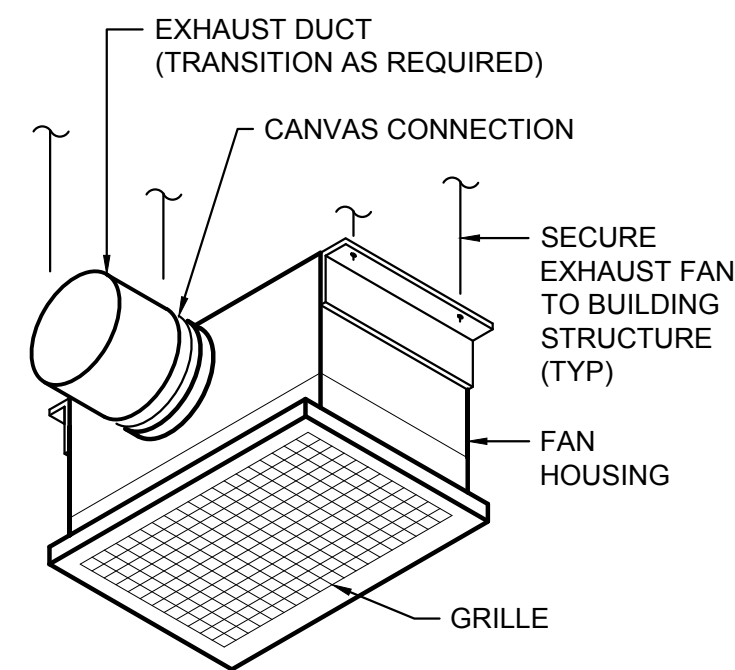
| EXHAUST FAN SCHEDULE (BASED ON GREENHECK) | | | | | | | | | | | |
|---|------------|---------|--------|-----|----------|---------|------------|-----|---------|----------------------|-------|
| SYMBOL | MODEL | TYPE | DRIVE | CFM | ESP (IN) | FAN RPM | MOTOR DATA | | | APPROX. WEIGHT (LBS) | NOTES |
| | | | | | | | POWER | RPM | VOLTAGE | | |
| CEF-1 | SP-A110 | CEILING | DIRECT | 50 | .5 | 950 | 15W | - | 120 | 17 | 1,3 |
| CEF-2 | SP-A390-VG | CEILING | DIRECT | 75 | .5 | 1179 | 21W | - | 120 | 24 | 1,3 |
| CEF-3 | SP-A390-VG | CEILING | DIRECT | 75 | .5 | 1179 | 21W | - | 120 | 24 | 1,3 |
| CEF-4 | SP-A390-VG | CEILING | DIRECT | 75 | .5 | 1179 | 21W | - | 120 | 24 | 1,3 |
| CEF-5 | SP-700-VG | CEILING | DIRECT | 100 | .5 | 1102 | 41W | - | 120 | 40 | 1,3 |
| CEF-6 | SP-700-VG | CEILING | DIRECT | 100 | .5 | 1102 | 41W | - | 120 | 40 | 1,2 |

NOTES:
 1. PROVIDE UNIT MOUNTED DISCONNECT SWITCH.
 2. PROVIDE REVERSE ACTING THERMOSTAT (120V).
 3. FAN TO BE INTERCONNECTED WITH LIGHTS.

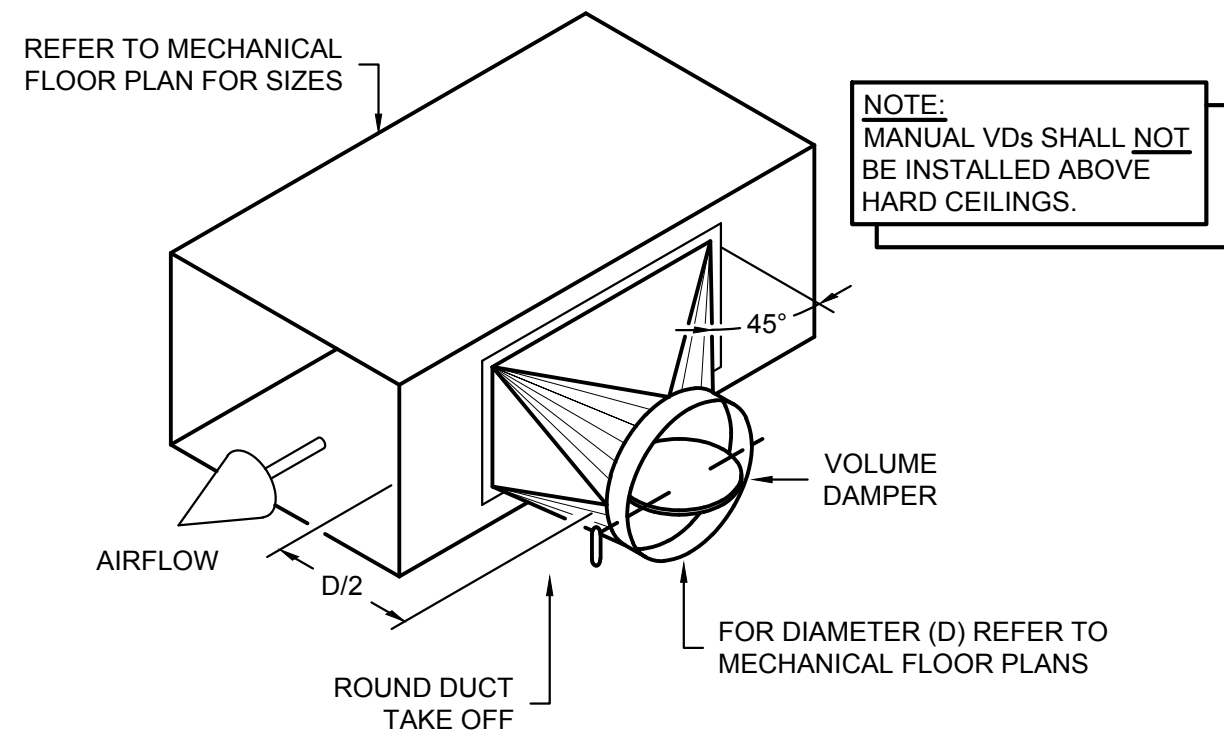
| AIR DEVICE SCHEDULE (BASED ON PRICE) | | | | | | |
|--------------------------------------|-------|--------|-------|-------|-------|-------|
| SYMBOL | MODEL | TYPE | THROW | CFM | SIZE | NOTES |
| S-1 | AMD | LAY-IN | 4-WAY | 50-75 | 12x12 | X |

NOTES:
 1. CONTRACTOR TO PROVIDE ALL ROUND TO SQUARE TRANSITION.
 2. ARCHITECT TO VERIFY COLOR FINISH.

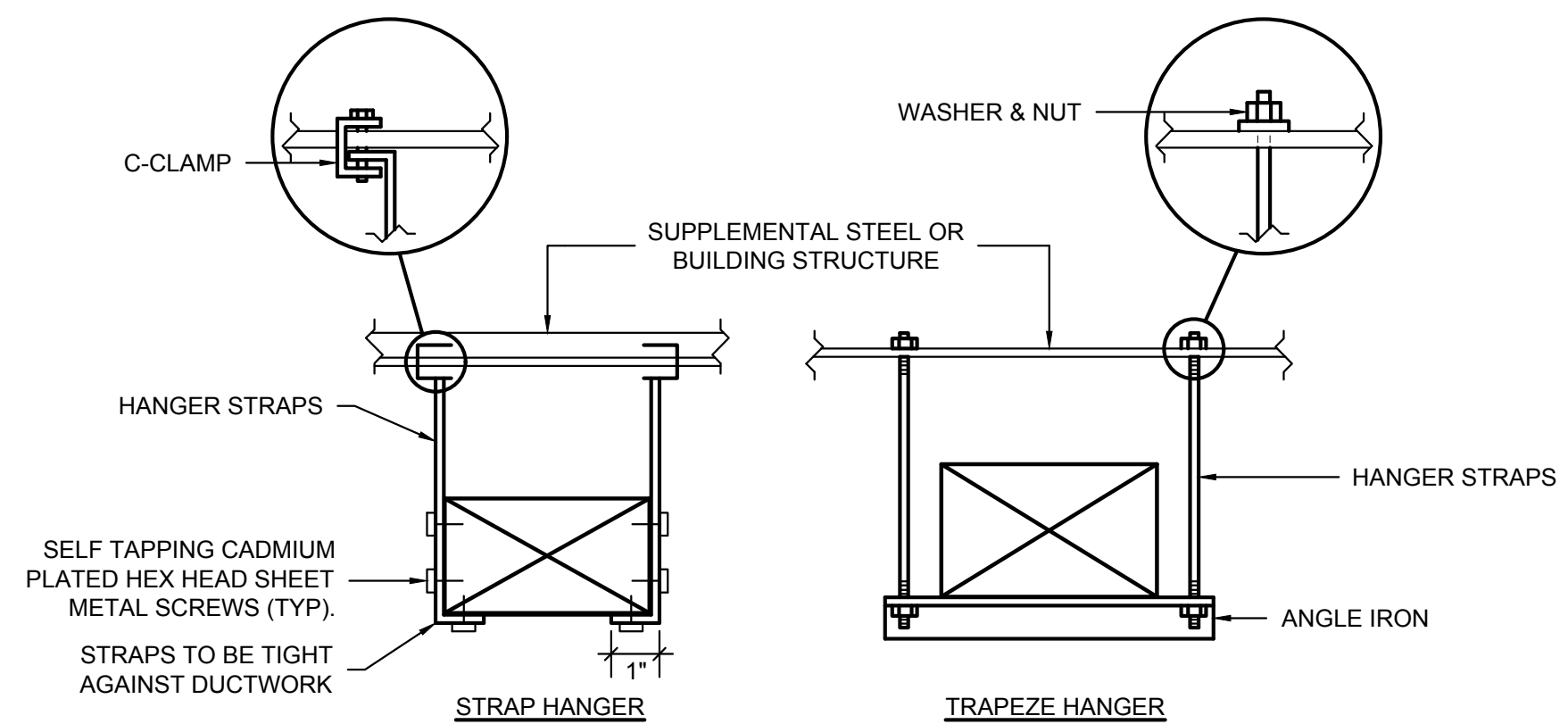
* - S-SUPPLY, R-RETURN, E-EXHAUST, T-TRANSFER
 ** - SIZE
 *** - CFM



CEILING EXHAUST FAN DETAIL
NO SCALE



ROUND DUCT TAKE OFF DETAIL
NTS

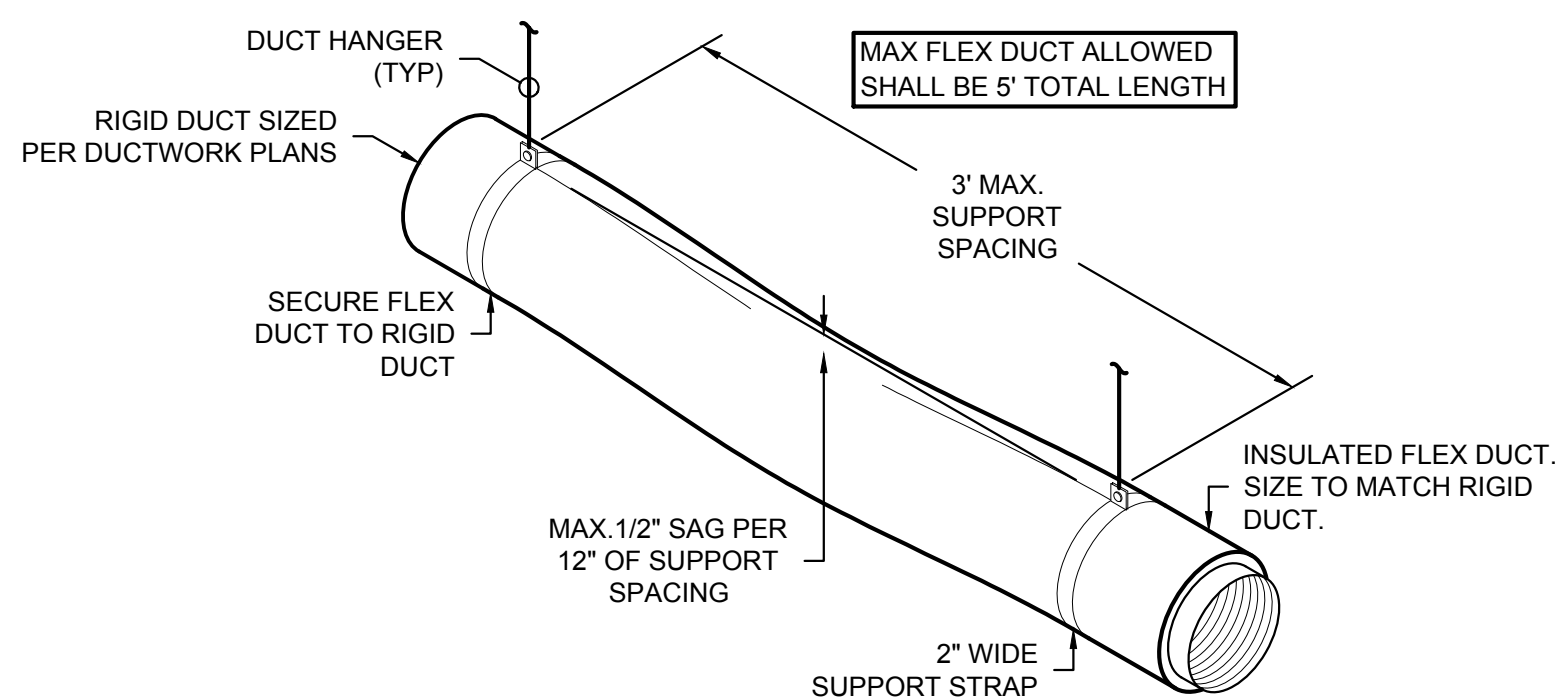


NOTE:
NO POP RIVETS ALLOWED, USE SELF-TAPPING SHEETMETAL SCREWS ONLY.

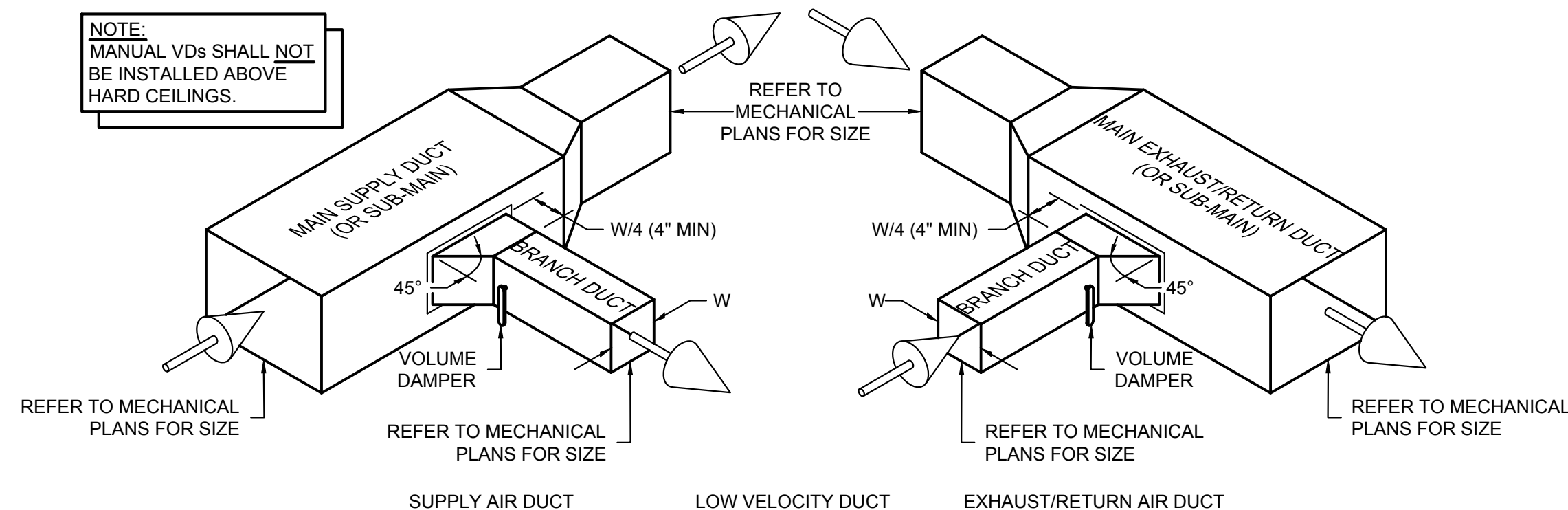
| HANGER SIZES* | | | |
|---------------|--------------------|--------------------------|-----------------|
| MAX. SIDE | HANGER | HORIZONTAL SUPPORT ANGLE | MAXIMUM SPACING |
| 30" | 1"x18" GAUGE STRAP | NONE REQUIRED | 10'-0" |
| 36" | 1/4" ROD | 1-1/2"x1-1/2"x1/8" | 8'-0" |
| 48" | 1/4" ROD | 2"x2"x1/8" | 8'-0" |
| 60" | 5/16" ROD | 2"x2"x1/8" | 8'-0" |
| 84" | 3/8" ROD | 2"x2"x1/8" | 8'-0" |

* FOR RECTANGULAR DUCTS

DUCT HANGER DETAIL
NTS



FLEX DUCT SUPPORT DETAIL
NTS



BRANCH DUCT CONNECTIONS
NTS



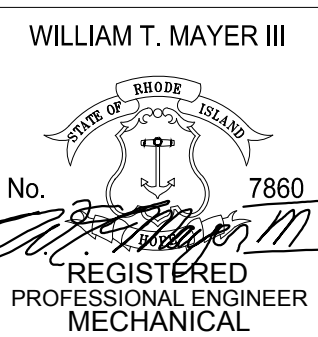
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BATHROOM RENOVATIONS
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REVISIONS:



MECHANICAL SCHEDULES & DETAILS

DATE: 06.29.2023

NCA JOB NO.: 22330

DRAWING NO.:

M-201

WIRING DEVICE LEGEND

| | | |
|--|--|---------------------------------|
| | DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. | 18" A.F.F. |
| | DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE WITH GROUND FAULT PROTECTION. | 42" A.F.F. OR 6" ABOVE COUNTER |
| | DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE WITH GROUND FAULT PROTECTION. | 18" A.F.F. |
| | DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE WITH GROUND FAULT PROTECTION. | 42" A.F.F. OR 6" ABOVE COUNTER |
| | SPECIAL NEMA CONFIGURATION OUTLET; VERIFY NEMA TYPE WITH EQUIPMENT TO BE SERVED. | -- |
| | QUAD-RUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. | 18" A.F.F. |
| | DUPLEX CONVENIENCE OUTLET IN FLOOR BOX; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. | FLOOR |
| | DUPLEX CONVENIENCE OUTLET IN CEILING; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. | CEILING |
| | QUAD-RUPLEX CONVENIENCE OUTLET IN FLOOR BOX; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. | FLOOR |
| | QUAD-RUPLEX CONVENIENCE OUTLET IN CEILING; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. | CEILING |
| | JUNCTION BOX; SIZE AS REQUIRED PER CODE. | -- |
| | RELAY; REFER TO PLANS FOR RATINGS. | -- |
| | CONTACTOR; REFER TO PLANS FOR RATINGS. | -- |
| | TIMECLOCK; REFER TO DETAILS ON PLANS. | -- |
| | MOTOR; REFER TO PLANS FOR DETAILS. | -- |
| | FUSED DISCONNECT SWITCH; 60/50 INDICATES FRAME SIZE/FUSE SIZE IN THAT ORDER. STARTERS FOR HVAC EQUIPMENT BY MECHANICAL CONTRACTOR. | -- |
| | SURFACE MOUNTED PANELBOARD; 208Y/120V, 3-PHASE, 4-WIRE. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION. | MOUNT 6'-6" AFF TO TOP BREAKER. |
| | RECESSED MOUNTED PANELBOARD; 208Y/120V, 3-PHASE, 4-WIRE. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION. | MOUNT 6'-6" AFF TO TOP BREAKER. |
| | SURFACE MOUNTED PANELBOARD; 480Y/127/27V, 3-PHASE, 4-WIRE. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION. | MOUNT 6'-6" AFF TO TOP BREAKER. |
| | RECESSED MOUNTED PANELBOARD; 480Y/127/27V, 3-PHASE, 4-WIRE. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION. | MOUNT 6'-6" AFF TO TOP BREAKER. |
| | GROUNDING CONDUCTOR / MEANS & METHOD; IN ACCORDANCE WITH THE "NATIONAL ELECTRIC CODE". (NEC). REFER TO PLANS FOR SIZING. | -- |
| | RECESSED FLOOR-BOX POKE-THRU WITH POWER FURNITURE FEED (MINIMUM 1" CONDUIT). REFER TO DETAIL ON DRAWING E307. | FLOOR |
| | RECESSED FLOOR-BOX POKE-THRU WITH COMMUNICATIONS FURNITURE FEED (MINIMUM 2" CONDUIT). REFER TO DETAIL ON DRAWING E307. | FLOOR |

- NOTES:**
- DEVICES WITH THE FOLLOWING SUBSCRIPTS SHALL BE PROVIDED & UL LISTED TO BE INSTALLED / WIRED AS NOTED:
H - HOSPITAL GRADE
IG - ISOLATED GROUND
T - TAMPER RESISTANT
 - THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE G.C. FOR WALLS BEING FURRED-OUT WITH SHEETROCK DRYWALL SO OUTLET BOXES & DEVICES CAN BE INSTALLED FLUSH WITHIN THE WALLS. (TYPICAL)
 - ALL RECEPTACLES SHALL BE PROVIDED WITH AN ADHERED, TYPED LABEL INDICATING PANEL NAME AND CIRCUIT NUMBER. HANDWRITTEN LABELS WILL NOT BE ACCEPTED.
 - ALL RECEPTACLES WITH A DEDICATED CIRCUIT SHALL BE LABELED WITH PANEL NAME AND CIRCUIT NUMBER AS INDICATED IN NOTE #3 AS WELL AS LABELED "DEDICATED".
 - ALL COLORS OF RECEPTACLES AND ASSOCIATED FACEPLATES TO BE CONFIRMED WITH OWNER'S REPRESENTATIVE AND LOCAL (AHJ) PRIOR TO ANY SUBMITTALS. PURCHASE AND/OR INSTALLATION OF EQUIPMENT. THIS REQUIREMENT AS INDICATED IN NOTE #11 SHALL BE CORRECTED AS REQUIRED.
 - ALL TYPES AND LOCATIONS OF RECEPTACLES TO BE CONFIRMED WITH OWNER'S REPRESENTATIVE AND LOCAL (AHJ) PRIOR TO ANY SUBMITTALS, PURCHASE AND/OR INSTALLATION OF EQUIPMENT. FAILURE OF THIS REQUIREMENT AS INDICATED IN NOTE #3 SHALL BE CORRECTED AS REQUIRED.
 - ANY CONFLICT WITH RECEPTACLE LOCATIONS, TYPES OF RECEPTACLES OR COLORS OF RECEPTACLES WITH OWNER'S REPRESENTATIVE OR WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, AND GENERAL CONTRACTOR TO PROVIDE ALL ADDITIONAL WORK AND EXPENSES TO REPAIR AND CORRECT. NO ADDITIONAL REIMBURSEMENTS OR TIME OF COMPLETION FOR WORK WILL BE ALLOWED.
 - ALL RECEPTACLES LOCATED WITHIN HEATHCARE FACILITIES SHALL BE PROVIDED WITH AN ILLUMINATED FACE, OR INDICATOR LIGHT.
 - IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH LOCAL (AHJ) FOR ALL INSTALLATIONS AND REQUIREMENTS.

LIGHTING CONTROL LEGEND

| SYMBOL | DESCRIPTION | MOUNTING |
|--------|--|------------|
| SM | MANUAL MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERLOADS. | 48" A.F.F. |
| Sa | SINGLE POLE SWITCH; "a" INDICATES LIGHTING FIXTURES CONTROLLED. | 48" A.F.F. |
| S3a | THREE-WAY SWITCH; "a" INDICATES LIGHTING FIXTURES CONTROLLED. | 48" A.F.F. |
| WS | WALL SWITCH VACANCY SENSOR (MANUAL "ON" AND AUTOMATIC "OFF") INSTALL PER MANUFACTURERS INSTRUCTIONS. | 48" A.F.F. |
| SK | KEYED SWITCH; REFER TO PLANS FOR NUMBER OF POLES AND FIXTURES CONTROLLED | 48" A.F.F. |
| PC | PHOTOCELL | - |
| MS | ULTRASONIC VACANCY SENSOR 360-DEGREES CAPABILITY. PROVIDE POWER PACK & WIRE PER MANUFACTURERS INSTRUCTIONS FOR MANUAL "ON" WITH WALL LOW VOLTAGE SWITCH AND AUTOMATIC "OFF" WITH SENSOR. SET DELAY TIMES FOR 15 MINUTES. | CEILING |
| PP | POWER PACK FOR "MS" VACANCY SENSORS. WIRE PER MANUFACTURERS INSTRUCTIONS FOR MANUAL "ON" WITH WALL LOW VOLTAGE SWITCH AND AUTOMATIC "OFF" WITH SENSOR. | - |
| DH | CEILING MOUNTED DAY-LIGHT HARVESTING SENSOR. VERIFY MOUNTING AND LOCATION FOR OPTIMAL CONTROL. | CEILING |

- NOTES:**
- E.C. SHALL FURNISH AND INSTALL ALL DEVICES AND ACCESSORIES FOR A COMPLETE LIGHTING CONTROL INSTALLATION.
 - COORDINATE EXACT REQUIREMENTS FOR INSTALLATION WITH LIGHTING CONTROL REPRESENTATIVE.
 - PROVIDE ALL LOW VOLTAGE CABLING REQUIRED FOR CONTROLS.

SEISMIC RESTRAINT NOTE

- A. GENERAL:** IT IS THE INTENT OF THIS SEISMIC SPECIFICATION TO KEEP ALL ELECTRICAL BUILDING SYSTEM COMPONENTS IN PLACE DURING A SEISMIC EVENT. ALL ELECTRICAL SYSTEMS MUST BE INSTALLED IN STRICT ACCORDANCE WITH SEISMIC CODES, COMPONENT MANUFACTURER'S AND BUILDING CONSTRUCTION STANDARDS. WHENEVER A CONFLICT OCCURS BETWEEN THE MANUFACTURER'S OR CONSTRUCTION STANDARDS, THE MOST STRINGENT SHALL APPLY.
- B. SEISMIC RESTRAINTS SHALL BE DESIGNED IN ACCORDANCE WITH SEISMIC FORCE LEVELS AS DETAILED IN THE APPLICABLE BUILDING CODE.**
- ALL EQUIPMENT, CONDUIT AND PULL BOXES SHALL BE ADEQUATELY RESTRAINED TO RESIST SEISMIC FORCES. RESTRAINT DEVICES SHALL BE DESIGNED AND SELECTED TO MEET SEISMIC REQUIREMENTS AS DEFINED IN THE LATEST ISSUE OF THE BOCA NATIONAL BUILDING CODE IN ACCORDANCE WITH THE APPLICABLE SEISMIC ZONE.
 - ANCHOR BOLT CALCULATORS, SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER, SHALL BE SUBMITTED SHOWING ADEQUACY OF THE BOLT SIZING AND TYPE. STAMPED CALCULATIONS SHALL ALSO BE FURNISHED FOR ANCHORS ON RESTRAINT DEVICES, CABLES, ISOLATORS AND RIGIDLY MOUNTED EQUIPMENT.

TYPICAL FIRE STOPPING NOTES

- A. GENERAL:** FIRE STOPPING SHALL BE PROVIDED BY THIS CONTRACTOR FOR ALL FLOOR, CEILING AND FIRE RATED WALL PENETRATIONS FOR CONDUIT, SLEEVES AND/OR CABLING AS REQUIRED BY JOB CONDITIONS.
- B. THE CONTRACTOR SHALL PROVIDE A FIRE STOP SYSTEM IN ACCORDANCE WITH THE FOLLOWING:**
- THE SYSTEM SHALL CONSIST OF A WATERBASED SEALANT AND SUITABLE DAMMING MATERIALS (WHERE REQUIRED) AND BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.
 - THE SEALANT SUPPLIED SHALL BE A TWO STAGED INTUMESCENT AND CAPABLE OF EXPANDING UP TO 8 TIMES ITS ORIGINAL VOLUME.
 - THE SEALANT SUPPLIED SHALL CONTAIN NO ASBESTOS, NO FIBERGLASS, AND NO SOLVENTS NOT CORROSIVE MINERAL SALTS OF ANY KIND.
 - THE SEALANT SHALL FORM A SURFACE CAPABLE OF BEING SANDED AND PAINTED TO MATCH SURROUNDING SURFACES AND SHALL BE IMPERVIOUS TO WATER WHEN DRY.
 - THE FIRE STOP SYSTEM SHALL BE TESTED TO THE TIME/TEMPERATURE REQUIREMENTS OF ASTM E119 AND SHALL BE UL1479 (ASTM E814) AND CLASSIFIED FOR UP TO 3 HOURS.
 - THE FIRE STOP SEALANT SHALL BE SPECSEAL SEALANT AS MANUFACTURED BY SPECIFIED TECHNOLOGIES, INC. OR APPROVED EQUAL.
 - SPECIAL CARE SHALL BE TAKEN WITH ELECTRICAL SYSTEMS NOT TO COMPROMISE ANY OF THE BUILDING FIRE PARTITIONS, FLOORS, WALLS OR MEMBRANES. PROVIDE ALL FIRESTOPPING REQUIRED TO COMPLY WITH THE BUILDING CODE, THE ELECTRICAL CODE AND THE UL LISTING OF EACH ASSEMBLY. COORDINATE LOCATIONS AND TYPES OF MEMBRANES WITH ARCHITECT.

ABBREVIATIONS

| | | |
|-------------------------------------|---|---|
| A AMPERES | F.A. FIRE ALARM | NAC F.A. NOTIFICATION APPLIANCE CIRCUIT EXPANDER PANEL |
| ADA AMERICANS WITH DISABILITIES ACT | FACP FIRE ALARM CONTROL PANEL | NEC NATIONAL ELECTRICAL CODE |
| AMPS AMPERES | FLR FLOOR | NTS NOT TO SCALE |
| AFF ABOVE FINISHED FLOOR | G.C. GENERAL CONTRACTOR | P POLE |
| A/C AIR CONDITIONING | GFCI GROUND FAULT CIRCUIT INTERRUPTER. | P.C. PLUMBING CONTRACTOR |
| AWG AMERICAN WIRE GAGE | G GROUND | PNL PANEL |
| C CONDUIT | GND GROUND | RE RE-LOCATED DEVICE OR EQUIPMENT SHOWN IN NEW LOCATION |
| C/B CIRCUIT BREAKER | HVAC HEATING, VENTILATING, & AIR CONDITIONING | TYP TYPICAL |
| CF COMPACT FLUORESCENT | JB JUNCTION BOX | UL UNDERWRITERS LABATORY |
| CLG CEILING | KVA KILOVOLT-AMPERES | UON UNLESS OTHERWISE NOTED |
| CL CENTERLINE | KW KILOWATT | UPS UNINTERRUPTIBLE POWER SUPPLY |
| DN DOWN | LTG LIGHTING | V VOLTS |
| DWG DRAWING | MAX MAXIMUM | W WATTS |
| E.C. ELECTRICAL CONTRACTOR | M.C. MECHANICAL CONTRACTOR | WP WEATHER-PROOF |
| EQ EQUAL | MECH MECHANICAL | |
| ETR EXISTING TO REMAIN | MIN MINIMUM | |
| ER EXISTING TO BE REMOVED | MTD MOUNTED | |
| ERL EXISTING TO BE RE-LOCATED | | |

RECEPTACLE BRANCH CIRCUIT WIRING SCHEDULE

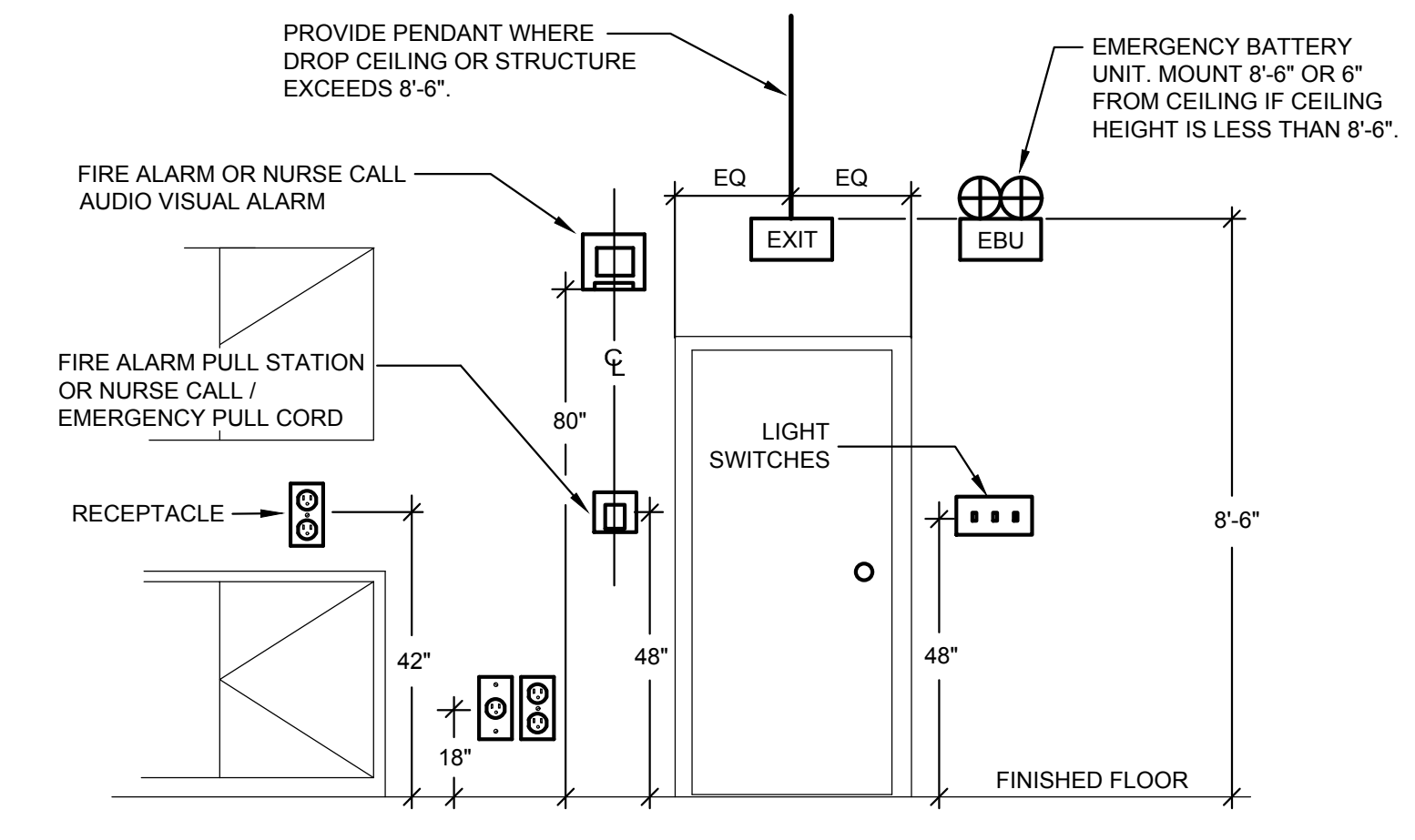
| CONDUCTOR AWG. | MAXIMUM CONDUCTOR LENGTH AT 120V | GROUND CONDUCTOR AWG. |
|----------------|----------------------------------|-----------------------|
| #12 | 100'-0" | #12 |
| #10 | 165'-0" | #10 |
| #8 | 255'-0" | #10 |
| #6 | 405'-0" | #10 |

- RECEPTACLE BRANCH CIRCUIT WIRING SCHEDULE NOTES:**
- BASED ON 20A CIRCUIT LOADED TO 9A USING SINGLE PHASE, 2 WIRE CIRCUITS.
 - THE ABOVE SCHEDULE REPRESENTS MINIMUM CONDUCTOR SIZE BASED FROM PANEL TO CENTER OF LEAD TO OVERCOME VOLTAGE DROP.
 - MAKE PROVISIONS FOR JUNCTION BOX ADJACENT TO OUTLET TO TRANSITION TO #12 WIRE FOR FINAL TERMINATIONS TO DEVICE AS REQUIRED.

LUMINAIRE BRANCH CIRCUIT WIRING SCHEDULE

| CONDUCTOR AWG. | MAXIMUM CONDUCTOR LENGTH AT 120V | MAXIMUM CONDUCTOR LENGTH AT 277V | GROUND CONDUCTOR AWG. |
|----------------|----------------------------------|----------------------------------|-----------------------|
| #12 | 75'-0" | 175'-0" | #12 |
| #10 | 120'-0" | 285'-0" | #10 |
| #8 | 190'-0" | 445'-0" | #10 |
| #6 | 300'-0" | - | #10 |

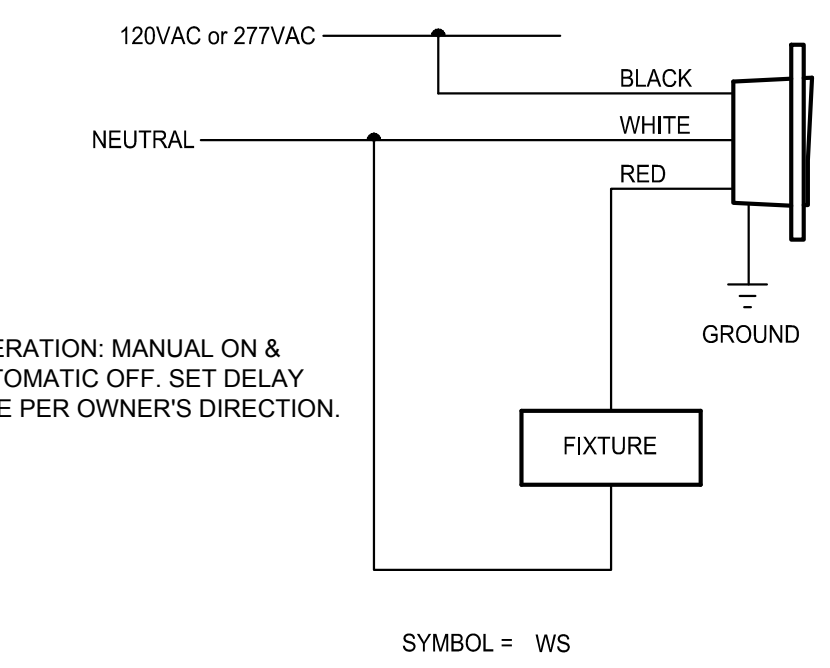
- LUMINAIRE BRANCH CIRCUIT WIRING SCHEDULE NOTES:**
- BASED ON 20A CIRCUIT LOADED TO 12A USING SINGLE PHASE, 2 WIRE CIRCUITS.
 - THE ABOVE SCHEDULE REPRESENTS MINIMUM CONDUCTOR SIZE BASED FROM PANEL TO CENTER OF LEAD TO OVERCOME VOLTAGE DROP.
 - MAKE PROVISIONS FOR JUNCTION BOX ADJACENT TO OUTLET TO TRANSITION TO #12 WIRE FOR FINAL TERMINATIONS TO DEVICE AS REQUIRED.



NOTE: THIS DETAIL INDICATES CENTERLINE FOR FIRE ALARM/PULL STATION SWITCHES AND RECEPTACLES. HOWEVER THIS SAME CENTERLINE PRINCIPLE SHALL BE FOR ALL GROUP MTD. ELECTRICAL DEVICES. IF FIRE ALARM IS ON SAME SIDE OF DOOR AS SWITCHES, PULL STATION SHALL BE HORIZONTALLY SEPARATED BY A MINIMUM OF 18". THIS ELEVATION IS A GENERAL ARRANGEMENT OF DEVICES. ARCHITECT PLANS TAKE PRECEDENCE FOR EXACT LOCATIONS.

MOUNTING HEIGHT DETAIL

NOT TO SCALE



TYPICAL WIRING DIAGRAM FOR "WS" SENSOR

NOT TO SCALE

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BATHROOM RENOVATIONS
STATE OF RHODE ISLAND / IN
DEPARTMENT OF LABOR & TRAINING
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REVISIONS:

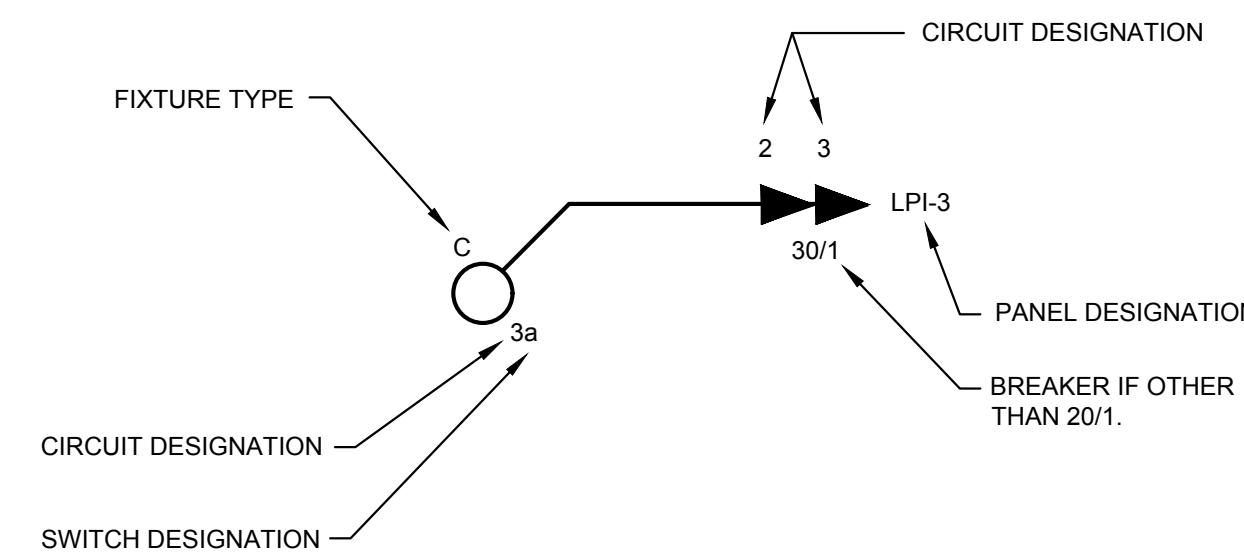
RAYMOND W. DUSSEAU III
No. 7139
REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL)

ELECTRICAL LEGENDS & NOTES

DATE: 06.29.2023
NCA JOB NO.: 22330
DRAWING NO.: **E-002**

TYPICAL ELECTRICAL NOTES

1. FURNISH LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE PROPER AND COMPLETE INSTALLATION OF ALL ELECTRIC WORK SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED.
2. ALL ITEMS NOT SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE ELECTRICAL INSTALLATION, SHALL BE FURNISHED AND INSTALLED AS PART OF THIS PROJECT.
3. ALL ELECTRICAL INSTALLATIONS AND GROUNDING SHALL BE IN STRICT ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE LOCAL, STATE AND NATIONAL CODES.
4. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
5. MATERIALS AND WORKMANSHIP SHALL BE THE BEST OF THEIR RESPECTIVE KIND AND IN FULL ACCORDANCE WITH THE MOST MODERN ELECTRICAL CONSTRUCTION STANDARDS. ALL MATERIAL SHALL BE NEW, UNLESS OTHERWISE NOTED AND FREE OF ANY DEFECTS.
6. THE ELECTRICAL CONTRACTOR SHALL CLEAN AT THE END OF EACH DAY ALL AREAS WORKED IN. EMPTY BOXES, RUBBISH, AND OTHER CONSTRUCTION MATERIALS OF NO USE SHALL BE REMOVED FROM THE BUILDING.
7. ALL WORK SEQUENCES SHALL BE COORDINATED WITH THE G.C. AND SHALL BE COORDINATION WITH OTHER BUILDING TRADES AND G.C. BUILDING SCHEDULES.
8. ALL BRANCH CIRCUITS RATED AT 120 VOLTS, 20 AMPERES EXCEEDING 75 FEET SHALL BE MINIMUM #10 AWG.
9. THE ELECTRICAL CONTRACTOR (E.C.) SHALL COORDINATE WITH THE LOCAL UTILITY POWER COMPANY AND PROVIDE ALL MATERIAL & LABOR REQUIRED TO COMPLY WITH THE UTILITY POWER COMPANY'S REQUIREMENTS AND STANDARDS. PRIOR TO ORDERING ANY ELECTRICAL EQUIPMENT, SUCH AS, SWITCHGEAR, PANELS, TRANSFORMERS, DISCONNECT SWITCHES, ETC... E.C. SHALL CONFIRM METERING SEQUENCE (HOT OR COLD) AND MAKE THE APPROPRIATE PROVISIONS FOR THE APPROVED METERING SEQUENCE ARRANGEMENT. A.I.C. RATINGS, GROUNDING, BONDING, RACEWAYS, ETC... SHALL BE IN ACCORDANCE WITH THE UTILITY COMPANY'S STANDARDS.
10. THE ELECTRICAL CONTRACTOR (E.C.) SHALL COORDINATE WITH THE LOCAL TELEPHONE COMPANY AND PROVIDE ALL MATERIAL & LABOR REQUIRED TO COMPLY WITH THE TELEPHONE COMPANY'S REQUIREMENTS AND STANDARDS, PRIOR TO ORDERING ANY ELECTRICAL EQUIPMENT, SUCH AS, TERMINAL BOARDS, GROUNDING, RACEWAYS, ETC...
11. ALL RECEPTACLE WITH "WP" DESIGNATION SHALL BE PROVIDED WITH A WEATHER-PROOF WHILE IN-USE ENCLOSURE. (TYPICAL)
12. ELECTRICAL CONTRACTOR TO ALLOW TIME FOR DIRECTIONAL ADJUSTMENT OF ALL LIGHT FIXTURES AS DIRECTED BY OWNER.
13. ALL RECEPTACLES SHALL BE LABELED INDICATING THEIR RESPECTIVE PANEL & CIRCUIT NUMBER.
14. ALL PENETRATIONS FOR POWER RECEPTACLES, JUNCTION BOXES, TELEPHONE/DATA OUTLETS, SWITCHES, BACKBOXES, ETC., LOCATED IN EXTERIOR WALLS SHALL BE PROVIDED WITH APPROPRIATE CAULKING AND GASKETS TO SEAL OFF AND PREVENT AIR LEAKAGE. FOLLOW CAULKING AND GASKET MANUFACTURERS INSTALLATION GUIDELINES TO ENSURE CORRECT AND EFFECTIVE INSTALLATION.



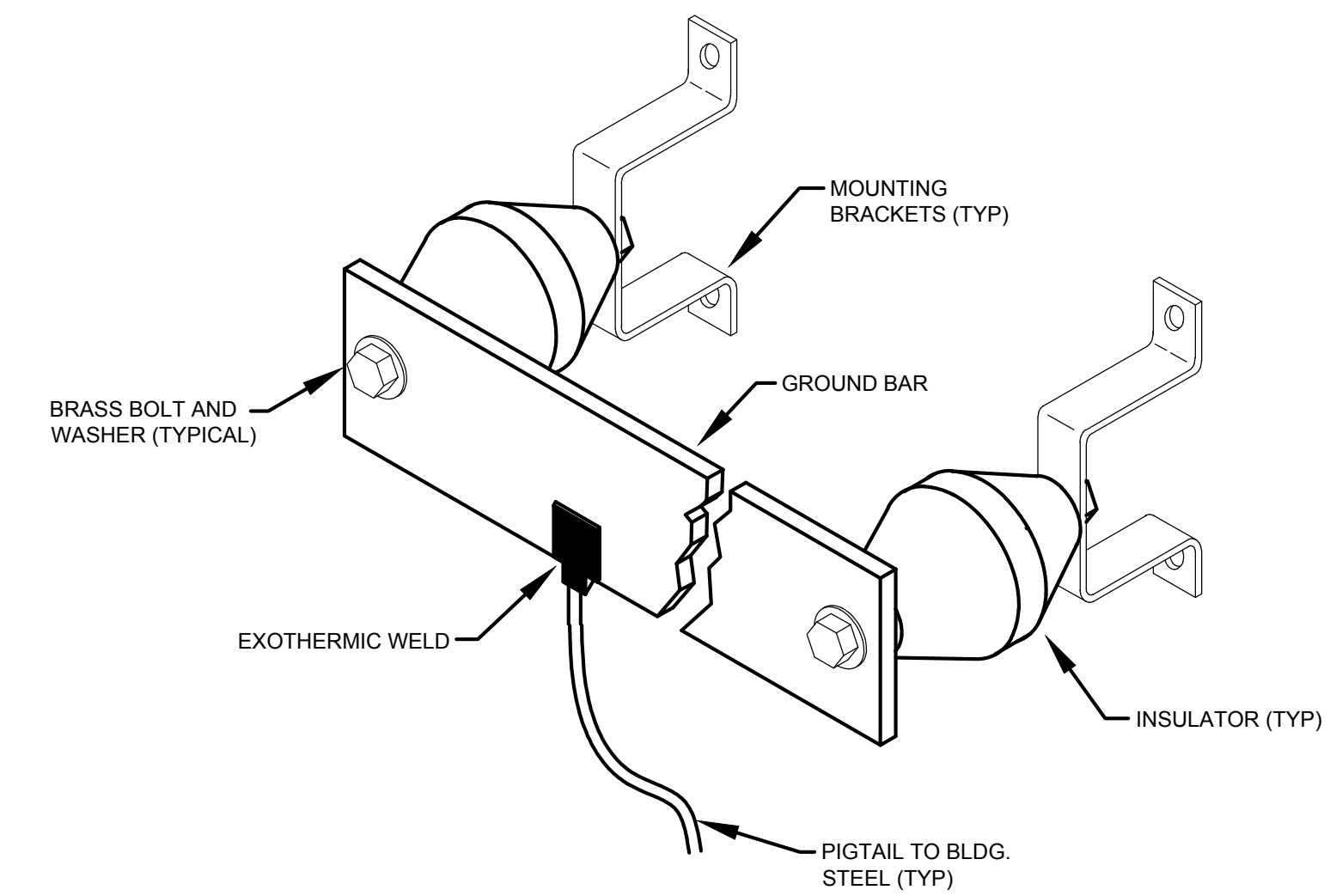
NOTES:

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN CONTRACT. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS BUT NOT ON PLANS, AND VICE VERSA, SHALL APPLY OR SHALL BE PROVIDED AS THOUGH EXPRESSLY REQUIRED ON BOTH. IT IS NOT INTENDED THAT EVERY JUNCTION BOX, OFFSET, FITTING OR COMPONENT BE SPECIFIED OR SHOWN ON DRAWINGS; HOWEVER, CONTRACT DOCUMENTS REQUIRE PROVISION OF ALL COMPONENTS AND MATERIALS NECESSARY FOR COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION, WHETHER OR NOT INDICATED OR SPECIFIED.

2. BRANCH CIRCUIT WIRING MAY NOT BE GRAPHICALLY SHOWN ON DRAWINGS AND MAY BE SHOWN BY CIRCUIT NUMBERS BESIDE FIXTURES, DEVICES AND EQUIPMENT. PROVIDE COMPLETE WIRING SYSTEM WHETHER OR NOT SHOWN GRAPHICALLY. WIRING IS SHOWN BY CONDUIT RUNS ON DRAWINGS WHERE SPECIFIC ROUTING IS REQUIRED OR FOR OTHER SPECIAL REASONS. ONLY ROOMS WITH MULTIPLE SWITCHING HAVE "SWITCH CONTROL LETTERS" ASSIGNED. PROVIDE THIN CONDUCTORS IN AREAS WITH HIGH AMBIENT TEMPERATURES SUCH AS BOILER ROOMS, INCINERATOR ROOMS, MECHANICAL EQUIPMENT ROOMS ETC., FOR SIZES LARGER THAN NO. 10 AWG.

TYPICAL CIRCUITING DETAIL

NOT TO SCALE



NOTES:

1. PROVIDE GROUND BAR (1/4" X 4" X 12") WITH WALL MOUNTING BRACKETS, INSULATORS AND A 25' EXOTHERMICALLY WELDED PIGTAIL (#6 AWG) IN EACH LAN ROOM & COMMUNICATIONS ROOM.

2. MOUNT GROUND BAR AT THE BOTTOM RIGHT CORNER ON THE PLYWOOD BACKBOARD.

3. GROUND BARS SHALL HAVE CAPACITY FOR NINE (9) GROUNDING LUGS TO BE ATTACHED.

4. CONNECT EXOTHERMICALLY WELDED PIGTAIL TO BUILDING STEEL.

5. GROUND BARS SHALL BE ELECTROLYTIC COPPER AND SHALL BE MOUNTED ON INSULATORS RATED AT 2700 VOLTS.

6. COPPER SURFACES SHALL BE SMOOTH AND WITHOUT MARKS DEEPER THAN 0.010 INCHES.

7. MANUFACTURERS SHALL BE ERICO, HARGER OR APPROVED EQUAL.

TYPICAL GROUND BAR DETAIL

NOT TO SCALE



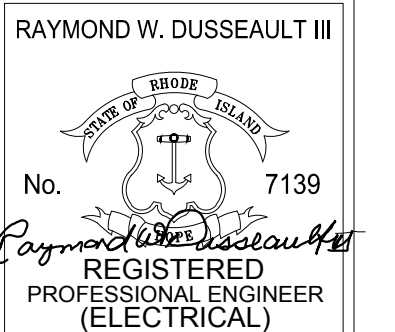
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REVISIONS:



ELECTRICAL LEGENDS & NOTES

DATE: 06.29.2023

NCA JOB NO.: 22330

DRAWING NO.:

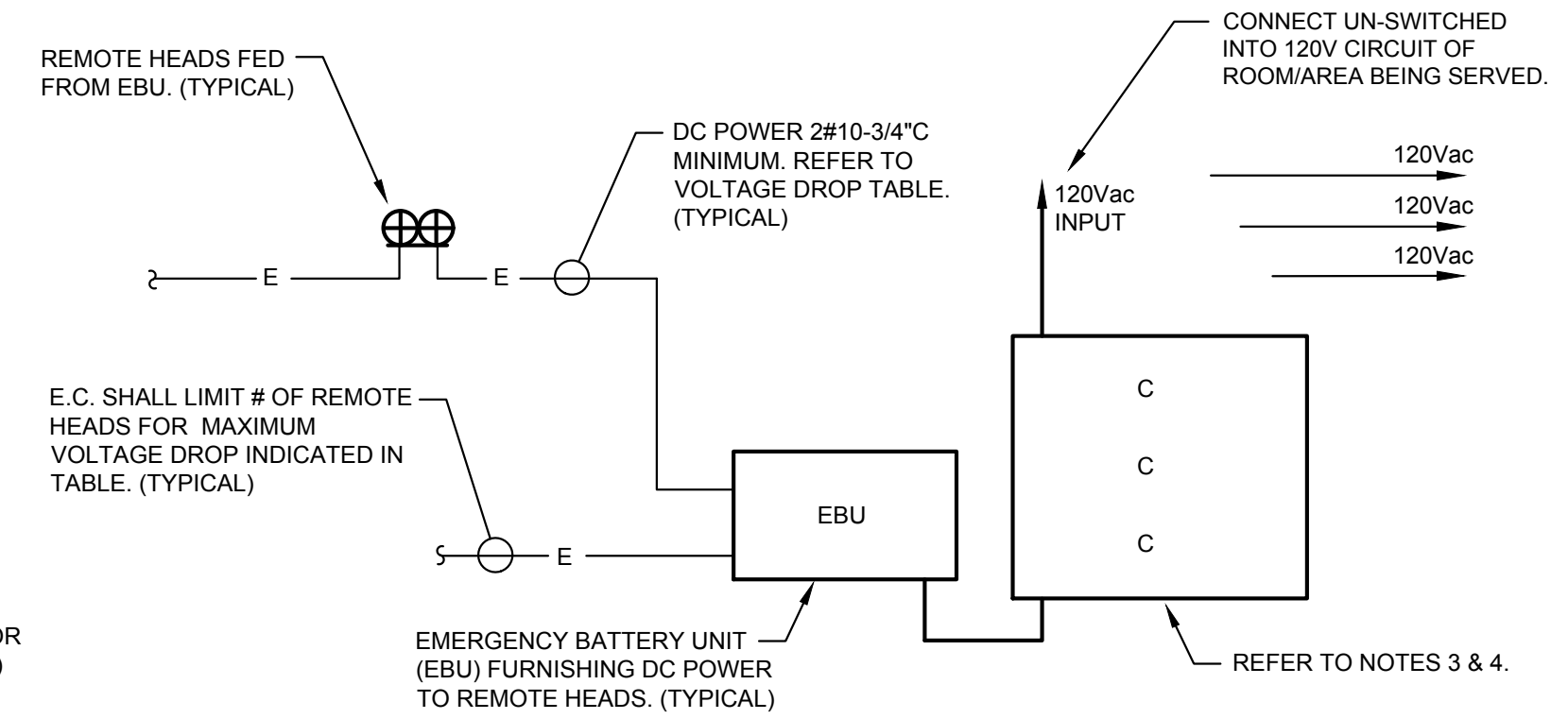
E-003

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FIRE ALARM SYMBOL LEGEND

| SYMBOL | DESCRIPTION | MOUNTING |
|-----------------------|---|---------------------------|
| SD | FIRE ALARM SYSTEM PHOTOELECTRIC SMOKE DETECTOR. | CEILING |
| H | FIRE ALARM SYSTEM COMBINATION RATE OF RISE AND 135-DEGREES FAHRENHEIT FIXED TEMPERATURE HEAT DETECTOR. "AC" DESIGNATION INDICATES TO INSTALL HEAT DETECTOR "ABOVE CEILING". | CEILING |
| H 197 | FIRE ALARM SYSTEM 197-DEGREES FAHRENHEIT FIXED TEMPERATURE HEAT DETECTOR. | CEILING |
| SD | FIRE ALARM SYSTEM DUCT SMOKE DETECTOR; INSTALLED BY HVAC CONTRACTOR & FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR. | CEILING |
| FS | FIRE SPRINKLER SYSTEM FLOW SWITCH; FURNISHED & INSTALLED BY F.P. CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR INTO THE FIRE ALARM SYSTEM VIA AN INDIVIDUAL ADDRESSABLE MONITOR MODULE. | VALVE |
| TS | FIRE SPRINKLER SYSTEM TAMPER SWITCH; FURNISHED & INSTALLED BY F.P. CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR INTO THE FIRE ALARM SYSTEM VIA AN INDIVIDUAL ADDRESSABLE MONITOR MODULE. | VALVE |
| R | FIRE ALARM SHUT DOWN RELAY. | |
| F | FIRE ALARM SYSTEM MANUAL DOUBLE ACTION PULL STATION. | 48" AFF TO TOP OF HANDLE. |
| E 75cd | FIRE ALARM SYSTEM STROBE. ALL STROBES SHALL BE SYNCHRONIZED AND COMPLY WITH ADA. | 80" AFF |
| 75cd LF F WP | FIRE ALARM SYSTEM AUDIBLE/STROBE. ALL AUDIBLE/STROBES SHALL BE SYNCHRONIZED AND COMPLY WITH ADA. "WP" INDICATES TO PROVIDE WEATHER-PROOF DEVICE. "LF" INDICATES HORN SHALL BE 520Hz LOW-FREQUENCY TYPE DEVICE. "75cd" INDICATES CANDELA RATING OF STROBE. | 80" AFF |
| 75cd LF F WP | FIRE ALARM SYSTEM CEILING TYPE AUDIBLE/STROBE. ALL AUDIBLE/STROBES SHALL BE SYNCHRONIZED AND COMPLY WITH ADA. "WP" INDICATES TO PROVIDE WEATHER-PROOF DEVICE. "LF" INDICATES HORN SHALL BE 520Hz LOW-FREQUENCY TYPE DEVICE. | CEILING |
| F LF | FIRE ALARM SYSTEM AUDIBLE ONLY. ALL AUDIBLE DEVICES SHALL BE SYNCHRONIZED AND COMPLY WITH ADA. "LF" INDICATES HORN SHALL BE 520Hz LOW-FREQUENCY TYPE DEVICE. | 80" AFF |
| M | FIRE ALARM SYSTEM CONTROL MODULE. | |
| MM | FIRE ALARM SYSTEM MONITOR MODULE. | |
| RTS | FIRE ALARM SYSTEM DEVICE REMOTE TEST STATION WITH LED INDICATING LIGHT. | |
| RIL | FIRE ALARM SYSTEM DEVICE WITH LED INDICATING LIGHT TO DISPLAY ALARM CONDITION OF REMOTE DETECTOR. CENTER ABOVE DOOR. | |
| M | FIRE ALARM DIALER. COORDINATE EXACT TIE IN WITH MANUFACTURER. LOCATE PER LOCAL AHJ. | |
| K | WEATHER-PROOF KNOX-BOX. LOCATE PER LOCAL AHJ. | |
| BDA | BI-DIRECTIONAL APPLICATION. LOCATE PER LOCAL AHJ. | |
| B WP | FIRE ALARM SYSTEM BEACON. "WP" INDICATES TO PROVIDE WEATHER-PROOF DEVICE. | |
| FISD | FIRE / SMOKE DAMPER PROVIDED BY THE MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AN INDIVIDUAL FIRE ALARM SYSTEM CONTROL RELAY MODULE AND TIE-IN DAMPER INTO THE FIRE ALARM SYSTEM. PROVIDE 120VAC POWER SUPPLY CIRCUIT AS REQUIRED. | |
| FACP | ADDRESSABLE FIRE ALARM CONTROL UNIT (PANEL). | |
| NAC | FIRE ALARM SYSTEM NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL (BOOSTER). | |

- NOTES:**
- E.C. SHALL PROVIDE CIRCUIT BREAKER "LOCK-ON" DEVICE FOR ALL CIRCUITS TO EMERGENCY BATTERY UNITS (EBU). (TYPICAL)
 - DETAIL IS TYPICAL TO ALL DRAWINGS. UON.
 - RELAY PANEL WITH (3) 20A. N.O. 120V COIL RELAYS MOUNTED IN 8"x8"x4" NEMA-1 STEEL ENCLOSURE WITH HINGED COVER. RELAYS HELD CLOSED BY MONITORED LIGHTING CIRCUITS. FIELD VERIFY EXACT NUMBER OF RELAYS REQUIRED PRIOR TO WORK. MONITORED LIGHTING CIRCUITS SHALL BE CONNECTED AHEAD OF ANY SWITCHES.



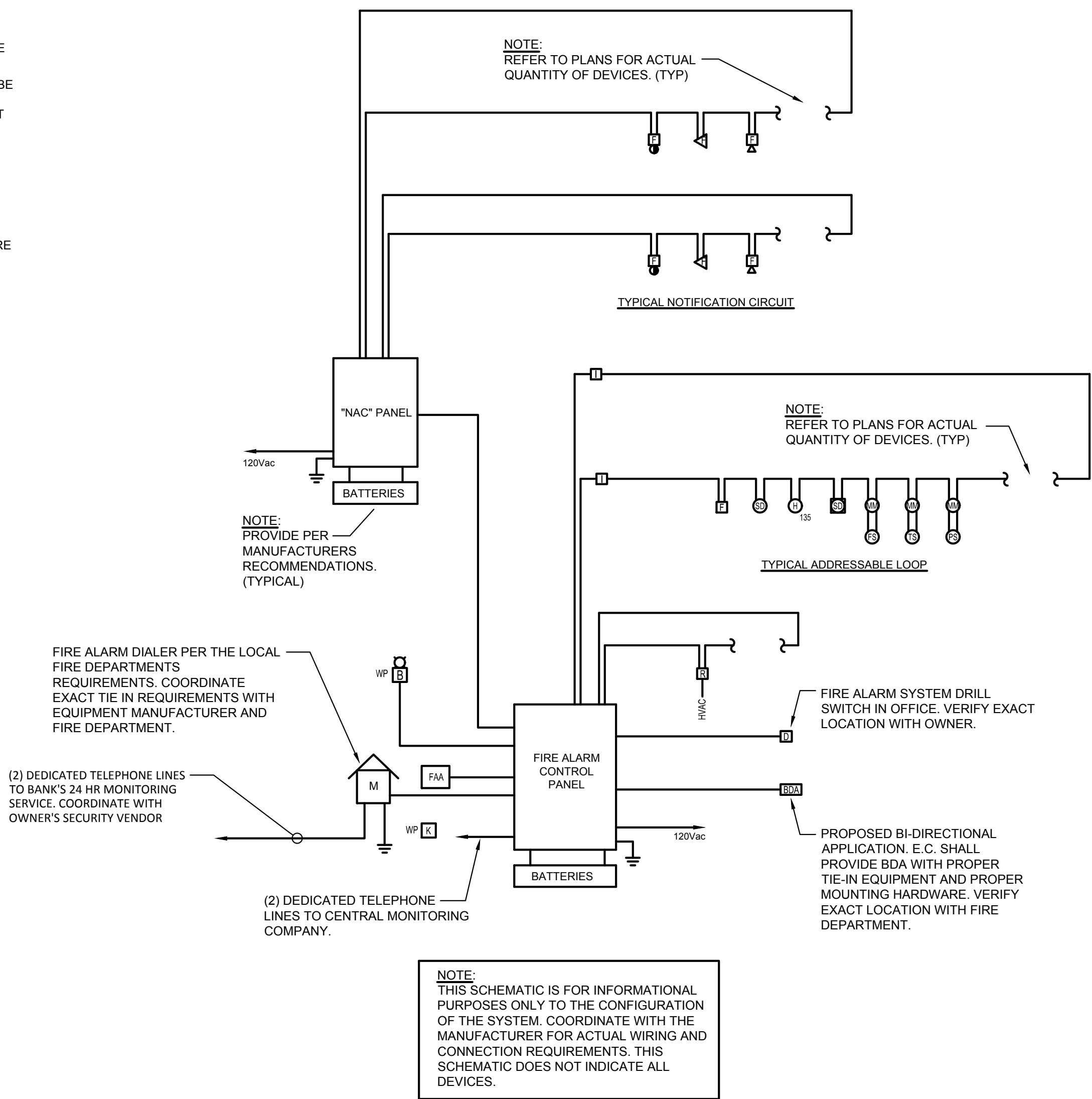
TYPICAL EMERGENCY LIGHTING CONNECTION DETAIL
NOT TO SCALE

FIRE ALARM NOTES

- E.C. SHALL PROVIDE CIRCUIT BREAKER LOCK-ON DEVICES FOR FACP AND NAC CIRCUIT.
- E.C. SHALL FURNISH AND INSTALL REMOTE INDICATING LIGHTS/TEST SWITCHES FOR DUCT SMOKE DETECTORS.
- REFER TO FLOOR PLANS FOR EXACT NUMBER OF DEVICES AND CANDELA RATINGS.
- COLOR CODE WIRING PER THE LATEST EDITION OF THE STATE FIRE CODE.
- SPLICES WILL NOT BE ALLOWED. WIRENUTS WILL NOT BE ALLOWED.
- RED PAINTED TERMINAL CABINETS & BOXES WITH LOCKABLE COVERS SHALL BE PROVIDED AT ALL JUNCTION POINTS.
- AFC FIRE ALARM / CONTROL CABLE TYPE MC (UL LISTED) MAY BE USED ABOVE CEILINGS AND IN CONCEALED AREAS WHERE ACCEPTABLE TO THE LOCAL AUTHORITY HAVING JURISDICTION. EXPOSED AREAS SHALL BE EMT, PAINTED PER ARCHITECTS DIRECTION. ALL CONDUCTORS SHALL BE A MINIMUM OF #16AWG SOLID COPPER, TYPE THHN, THWN OR TFN. ALL WIRING SHALL RUN CONTINUOUSLY FROM DEVICE TO DEVICE.
- THE CONTRACTOR AT COMPLETION OF THE FIRE ALARM SYSTEM SHALL TEST THE ENTIRE SYSTEM PER THE LOCAL FIRE DEPARTMENTS REQUIREMENTS. THE CONTRACTOR SHALL REPLACE OR FIX ANY PART OF THE SYSTEM NOT PROPERLY WORKING.
- THE MINIMUM SEPARATION BETWEEN THE OUTGOING AND RETURN FIRE ALARM CIRCUITS SHALL BE A MINIMUM OF 1-FOOT VERTICALLY AND 4-FEET HORIZONTALLY IN ACCORDANCE WITH THE PROVISIONS OF NFPA-72.
- ALL FIRE ALARM SYSTEM COMPONENTS & MOUNTING HEIGHTS SHALL COMPLY WITH ADA REQUIREMENTS.
- E.C. SHALL PROVIDE ANY AND ALL AUXILIARY EQUIPMENT IN ORDER TO PROVIDE A COMPLETE, PROPERLY FUNCTIONING SYSTEM. COORDINATE REQUIREMENTS WITH LOCAL MANUFACTURERS REP.
- ALL FIRE ALARM STROBE SIGNAL DEVICES SHALL BE SYNCHRONIZED TYPE DEVICES AND COMPLY WITH ADA REQUIREMENTS.
- NO T-TAPPING OF FIRE ALARM WIRING SHALL BE ALLOWED. (TYPICAL)
- ALL FIRE ALARM WIRING & RACEWAY SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT BE LOCATED AS TO BE DAMAGED BY BUILDING USE.
- PROVIDE A WEATHER-PROOF KNOX-BOX 3200 SERIES ON THE EXTERIOR OF THE BUILDING. COORDINATE EXACT LOCATION WITH LOCAL FIRE DEPARTMENT.
- ALL SMOKE DETECTORS SHALL BE MOUNTED ON THE CEILING AND UL LISTED FOR CEILING MOUNTING AND LOCATED NOT LESS THAN 12-INCHES FROM ANY WALL. DETECTORS SHALL NOT BE IN A DIRECT AIR FLOW NOR CLOSER THAN 3-FEET FROM ANY AIR SUPPLY DIFFUSER. (TYPICAL)
- UL LISTED INSULATED THROAT, SET SCREW CONNECTORS SHALL BE USED WITH MC CABLE INSTALLATIONS. (CLAMP CONNECTORS ARE NOT ALLOWED). A CABLE CUTTING TOOL WITH CONTROLLED DEPTH OF CUT SHALL BE USED IN ALL MC CABLE INSTALLATIONS.
- FAULT ISOLATION MODULES SHALL BE INSTALLED FOR EVERY 25 DEVICES AND IN NO CASE SHALL THE LENGTH OF AN AREA BE DISABLED BY A WIRE-TO-WIRE SHORT CIRCUIT FAULT EXCEED 200' IN ANY ONE DIRECTION. WHERE A SINGLE CIRCUIT SERVES MORE THAN ONE FLOOR; FAULT ISOLATION MODULES SHALL BE INSTALLED TO PREVENT A WIRE-TO-WIRE SHORT CIRCUIT FAULT ON ONE FLOOR TO DISABLE THE CIRCUIT ON ANOTHER FLOOR.
- WIRING FOR THE FIRE ALARM SYSTEM SHALL BE CLASS "A".
- REFER TO THE SPECIFICATIONS FOR THE "SEQUENCE OF OPERATION" AND ADDITIONAL INFORMATION.
- E.C. SHALL PRODUCE A MANUFACTURER'S COMPLETE FIRE ALARM SYSTEM ONE-LINE DIAGRAM AND ADDRESS PLAN DURING THE SHOP DRAWING SUBMITTAL PROCESS.
- E.C. SHALL PROVIDE ALARM INDICATORS AND HVAC EQUIPMENT OVERRIDE SWITCHES MOUNTED IN UTILITY ROOMS WITH FIRE ALARM PANEL. ALL SWITCHES AND HEATING UNITS SHALL BE CLEARLY LABELED BY NUMBERS AS PER PLANS.
- E.C. SHALL OBTAIN FROM THE LOCAL FIRE DEPARTMENT, A LIST OF FIRE ALARM ZONE CODES AND DESCRIPTIONS AND PROGRAM INTO FIRE ALARM SYSTEM AS REQUIRED.

EMERGENCY LIGHTING SYMBOL LEGEND

| SYMBOL | DESCRIPTION | MOUNTING |
|--------|--|-----------|
| #1 WP | DUAL EMERGENCY LIGHTING FIXTURE (REMOTE HEAD) WIRED TO EMERGENCY BATTERY UNIT (EBU) WITH REMOTE CAPABILITY. COOPER LIGHTING #APEL. LAMPS SHALL BE 8-WATTS / 12-VOLTS FOR EACH LAMP. #1 INDICATES WIRE TO EBU WITH SAME DESIGNATION. | WALL |
| #1 EBU | EMERGENCY BATTERY UNIT (NO ATTACHED HEADS) WITH REMOTE CAPABILITIES. EQUAL TO LITHONIA #ELT275-W-RO-AM-VM. CONNECT UN-SWITCHED TO LOCAL 120-VOLT LIGHTING CIRCUIT. "#1" INDICATES EBU DESIGNATION. | WALL |
| #1 CLG | DUAL EMERGENCY LIGHTING FIXTURE (REMOTE HEAD) WIRED TO EMERGENCY BATTERY UNIT (EBU) WITH REMOTE CAPABILITY. COOPER LIGHTING #APEL. LAMPS SHALL BE 8-WATTS / 12-VOLTS FOR EACH LAMP. #1 INDICATES WIRE TO EBU WITH SAME DESIGNATION. "CLG" INDICATES CEILING MOUNTED. | WALL, UON |
| ⊗ ↑ | SINGLE FACE LED LIGHTED EXIT SIGN WITH EMERGENCY BATTERY BACK-UP. SHADED QUADRANT DENOTES LIGHTED FACE(S). EQUAL TO MULE LIGHTING #EUS79-R (HOUSING COLOR TO BE DETERMINED BY ARCHITECT). PROVIDE DIRECTIONAL ARROWS WHERE INDICATED ON PLANS. CONNECT UN-SWITCHED TO A 120 OR 277VOLT LOCAL LIGHTING CIRCUIT. | CEILING |
| ⊕ ↑ | DUAL FACE LED LIGHTED EXIT SIGN WITH EMERGENCY BATTERY BACK-UP. SHADED QUADRANT DENOTES LIGHTED FACE(S). EQUAL TO MULE LIGHTING #EUS79-R (HOUSING COLOR TO BE DETERMINED BY ARCHITECT). PROVIDE DIRECTIONAL ARROWS WHERE INDICATED ON PLANS. CONNECT UN-SWITCHED TO A 120 OR 277VOLT LOCAL LIGHTING CIRCUIT. | CEILING |



TYPICAL FIRE ALARM SCHEMATIC
NOT TO SCALE



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REVISIONS:

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LIFE SAFETY LEGENDS & NOTES

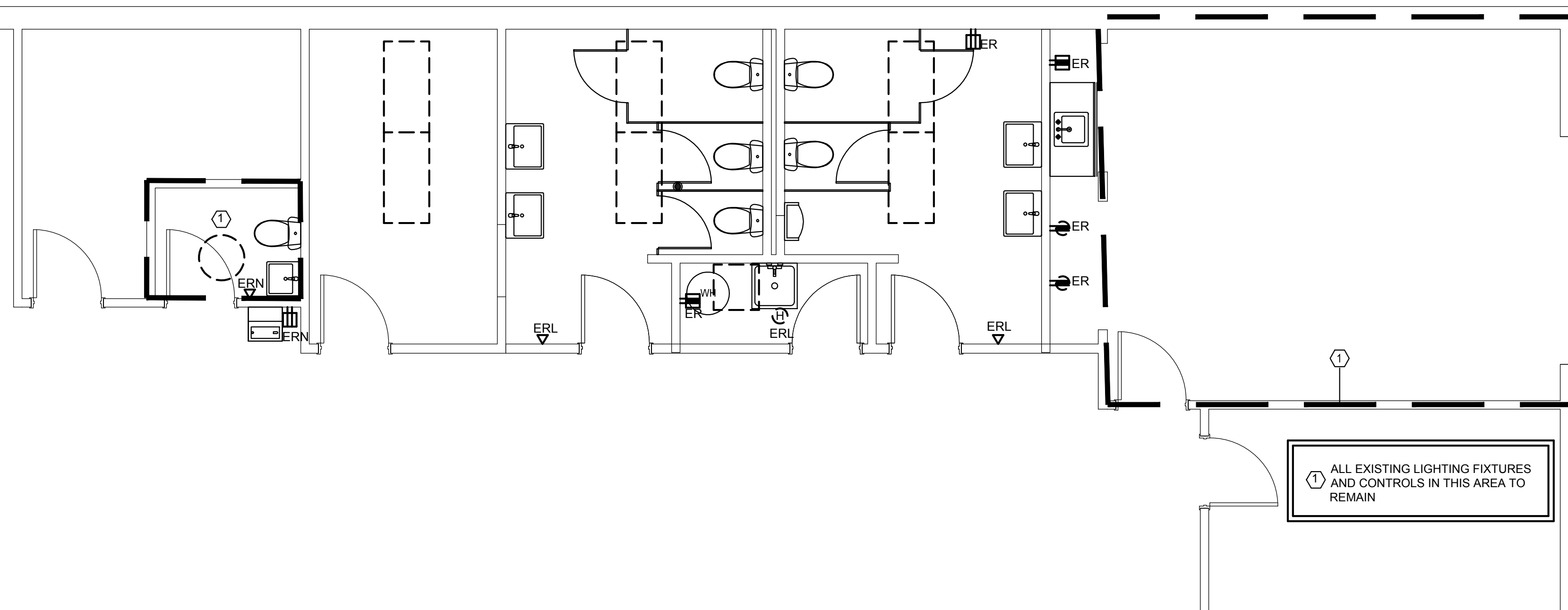
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NCA JOB NO.: 22330

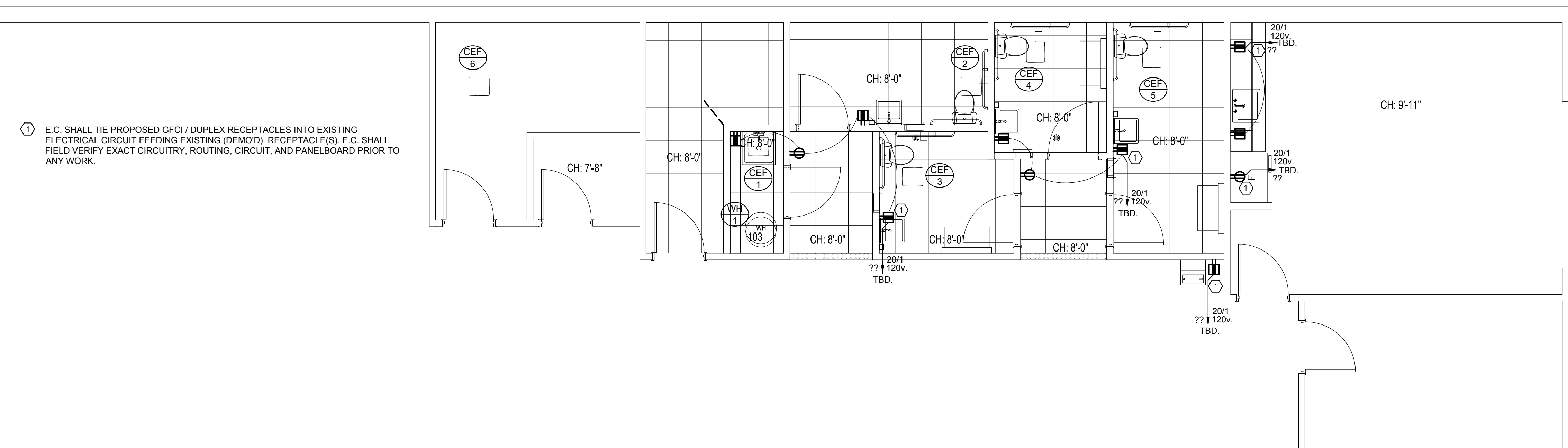
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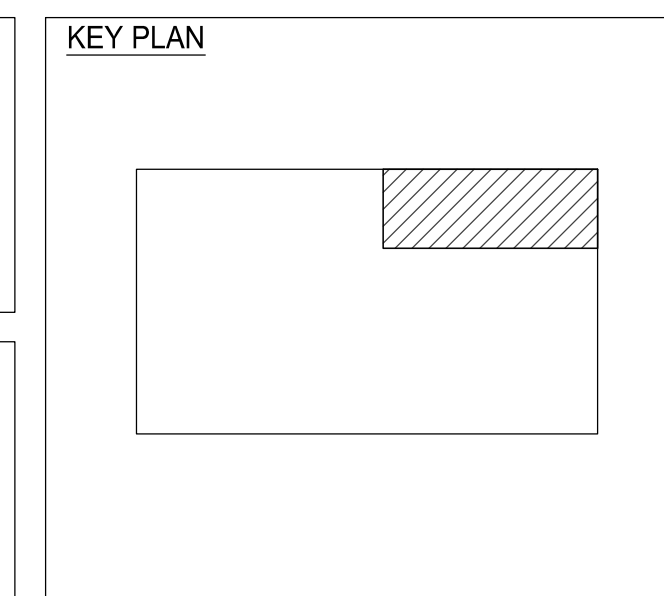
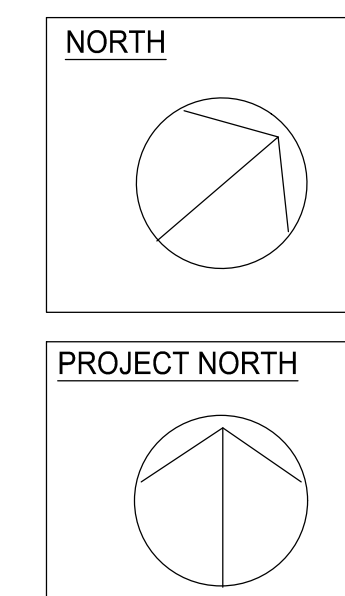
| DEMOLITION ABBREVIATIONS | |
|--------------------------|---|
| SUBSCRIPT | DESCRIPTION |
| ER | INDICATES EXISTING ELECTRICAL DEVICE TO BE COMPLETELY REMOVED AS WELL AS ASSOCIATED WIRING. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO PROPERLY DISPOSE OF EQUIPMENT. |
| ERN | INDICATES EXISTING ELECTRICAL DEVICE TO REMAIN IN PLACE. E.C. SHALL ENSURE DEVICE IS PROTECTED AND FULLY OPERATIONAL UPON COMPLETION OF PROJECT. ANY DEVICE SCHEDULED TO REMAIN, NOT IN PROPERLY WORKING ORDER SHALL BE REPLACED IN KIND. |
| ERL | INDICATES EXISTING ELECTRICAL DEVICE TO BE REMOVED & RELOCATED. EXISTING WIRING / CIRCUITRY TO BE EXTENDED. ANY NEW WIRING & INSTALLATIONS REQUIRED TO RELOCATE EQUIPMENT SHALL MATCH EXISTING ELECTRICAL CHARACTERISTICS. |
| RE | INDICATES EXISTING ELECTRICAL DEVICE IN NEW LOCATION. ANY DEVICE SCHEDULED TO BE RELOCATED, NOT IN PROPERLY WORKING ORDER SHALL BE REPLACED IN KIND. |



1
E-111
ELECTRICAL - 1st FLOOR DEMO PLAN
1/4" = 1'-0"



2
E-111
ELECTRICAL - 1st FLOOR PLAN
1/4" = 1'-0"



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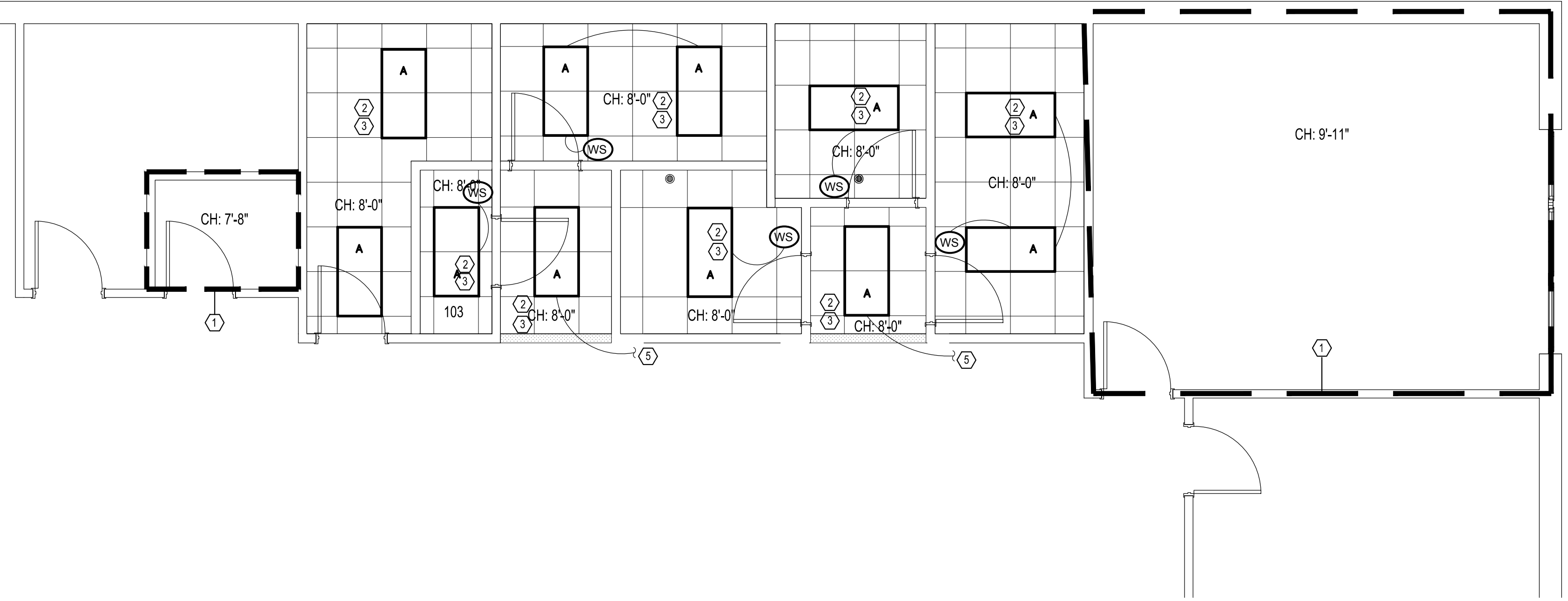
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REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL)

ELECTRICAL FIRST FLOOR PLANS

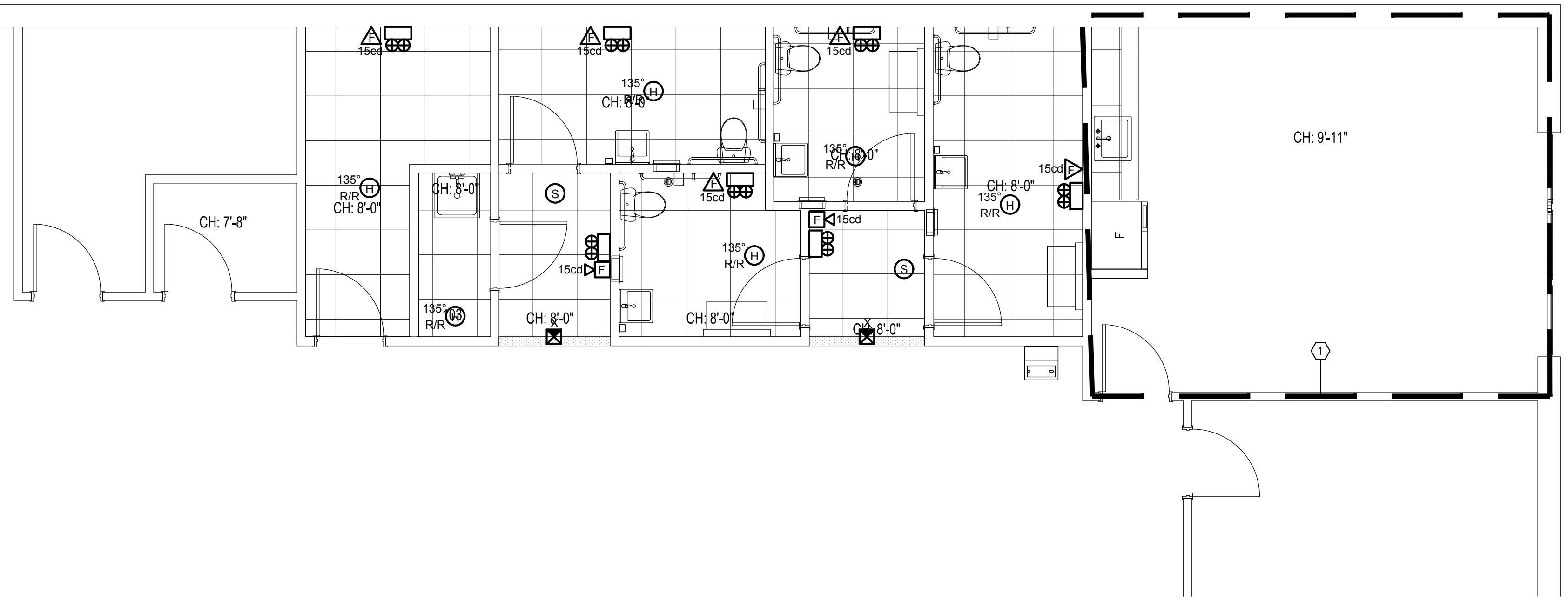
DATE: 06.29.2023
NCA JOB NO.: 22330
DRAWING NO.: **E-111**

- SHEET NOTES:**
- ① THE LIGHTING FIXTURES IN THIS HIGHLIGHTED AREA ARE EXISTING TO REMAIN AND NOT IN SCOPE, (NO WORK REQUIRED).
 - ② E.C. SHALL REMOVE LIGHTING FIXTURE, REMOVE SURFACE MOUNTING TRIM KIT FROM FIXTURE, CLEAN, AND RE-INSTALL EXISTING LIGHTING FIXTURES AS INDICATED IN NEW DROP CEILING. ALL CIRCUITRY & SWITCHING SCENARIOS, SHALL BE PRESERVED DURING CONSTRUCTION.
 - ③ E.C. SHALL REUSE EXISTING LIGHTING CIRCUIT(S). E.C. SHALL EXTEND CIRCUITRY TO MATCH EXISTING ELECTRICAL CHARACTERISTICS AS REQUIRED.
 - ④ E.C. SHALL FIELD VERIFY ALL EXISTING ELECTRICAL EQUIPMENT, ASSOCIATED CIRCUITRY, ETC. PRIOR TO ANY WORK TO GAIN PROPER UNDERSTANDING OF THE SCOPE OF WORK.
 - ⑤ E.C. SHALL EXTEND CIRCUITRY TO CONNECT WITH COMMON CORRIDOR LIGHTING FIXTURES AND SWITCHING.



1
E-112
ELECTRICAL - 1st FLOOR LIGHTING PLAN
1/4" = 1'-0"

- ① ALL EXISTING LIFE SAFETY EQUIPMENT IN THIS AREA TO REMAIN



2
E-112
ELECTRICAL - 1st FLOOR LIFE SAFETY PLAN
1/4" = 1'-0"

NORTH

PROJECT NORTH

KEY PLAN

NCA
NORTHEAST
COLLABORATIVE
ARCHITECTS
650 Ten Rod Road
North Kingstown, RI 02852
v. 401.846.9583

EDS
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Mechanical/Electrical/Plumbing Engineers:
Engineering Design Services, Inc.
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Phone: (401) 765-2964

BATHROOM RENOVATIONS
STATE OF RHODE ISLAND / IN
DEPARTMENT OF LABOR & TRAINING
1330 MAIN STREET
WEST WARWICK, RI 02893

REVISIONS:

RAYMOND W. DUSSEAULT III
No. 7139
Raymond W. Dusseault III
REGISTERED
PROFESSIONAL ENGINEER
(ELECTRICAL)

**ELECTRICAL
FIRST FLOOR
PLANS**

DATE: 06.29.2023
NCA JOB NO.: 22330
DRAWING NO.:
E-112

| (EQUIPMENT) SIZING CIRCUIT | | |
|----------------------------|----------|------------------------------------|
| AMP / POLE PANEL / SERVICE | POLES | TYPE (XHHW) COPPER CONDUCTORS |
| 15A, 20A | 1 (or) 2 | 2#12 + 1#12 GND. IN 3/4" CONDUIT |
| 15A, 20A | 3 | 3#12 + 1#12 GND. IN 3/4" CONDUIT |
| 25A, 30A | 1 (or) 2 | 2#10 + 1#10 GND. IN 3/4" CONDUIT |
| 25A, 30A | 3 | 3#10 + 1#10 GND. IN 3/4" CONDUIT |
| 35A, 40A | 1 (or) 2 | 2#8 + 1#10 GND. IN 3/4" CONDUIT |
| 35A, 40A | 3 | 3#8 + 1#10 GND. IN 3/4" CONDUIT |
| 45A, 50A, 55A | 1 (or) 2 | 2#6 + 1#10 GND. IN 3/4" CONDUIT |
| 45A, 50A, 55A | 3 | 3#6 + 1#10 GND. IN 3/4" CONDUIT |
| 60A | 2 | 2#4 + 1#10 GND. IN 1" CONDUIT |
| 60A | 3 | 3#4 + 1#10 GND. IN 1" CONDUIT |
| 70A | 3 | 3#4 + 1#8 GND. IN 1" CONDUIT |
| 80A | 3 | 3#3 + 1#8 GND. IN 1-1/4" CONDUIT |
| 90A | 3 | 3#2 + 1#8 GND. IN 1-1/4" CONDUIT |
| 100A, 110A | 3 | 3#1 + 1#6 GND. IN 1-1/4" CONDUIT |
| 125A, 150A | 3 | 3#1/0 + 1#6 GND. IN 1-1/2" CONDUIT |
| 175A | 3 | 3#2/0 + 1#6 GND. IN 2" CONDUIT |
| 200A | 3 | 3#3/0 + 1#4 GND. IN 2" CONDUIT |

| (PANEL / SWITCHBOARD / SERVICE) FEEDER SIZING | | |
|---|-------|---|
| AMPERES | POLES | TYPE (XHHW) COPPER CONDUCTORS |
| 30A | 3 | 4#10 + 1#8 GND. IN 3/4" CONDUIT |
| 60A | 2 | 3#4 + 1#8 GND. IN 1" CONDUIT |
| 60A | 3 | 4#4 + 1#8 GND. IN 1-1/4" CONDUIT |
| 100A | 2 | 3#1 + 1#6 GND. IN 1-1/4" CONDUIT |
| 100A | 3 | 4#1 + 1#6 GND. IN 1-1/2" CONDUIT |
| 125A, 150A | 2 | 3#1/0 + 1#6 GND. IN 1-1/2" CONDUIT |
| 125A, 150A | 3 | 4#1/0 + 1#6 GND. IN 2" CONDUIT |
| 200A | 2 | 3#3/0 + 1#4 GND. IN 2" CONDUIT |
| 200A | 3 | 4#3/0 + 1#4 GND. IN 2" CONDUIT |
| 225A | 3 | 4#4/0 + 1#2 GND. IN 2-1/2" CONDUIT |
| 300A | 3 | 4#350kcmil + 1#2 GND. IN 3" CONDUIT |
| 400A | 3 | 4#600kcmil + 1#1/0 GND. IN 3-1/2" CONDUIT |
| 600A | 3 | 2 SETS OF: (4#350kcmil + 1#2 GND.) IN TWO (2) 3" CONDUITS |
| 800A | 3 | 2 SETS OF: (4#600kcmil + 1#1/0 GND.) IN TWO (2) 3-1/2" CONDUITS |
| 1000A | 3 | 3 SETS OF: (4#400kcmil + 1#1/0 GND.) IN THREE (3) 3" CONDUITS |

| MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE | | | | | | | | | | | | | | | | |
|---|-----------------------|-------------|---------------------------|----|-------|---------|------|---------------------|-----------------------------|----------------------------------|-------------------|------|-------|------|---|--|
| ITEM No. | DESCRIPTION | LOCATION | EQUIPMENT CHARACTERISTICS | | | | | CIRCUIT | CIRCUIT BREAKER (RACK TYPE) | FEEDER & CONDUIT | DISCONNECT SWITCH | | | | MANUAL MOTOR CONTROLLER | REMARKS |
| | | | VOLTS | PH | FREQ. | KW/(HP) | FLA | | | | SIZE | FUSE | POLES | NEMA | | |
| CEF-1 | CEILING EXHAUST FAN | (SEE PLANS) | 120 | 1 | 60 | 0.129 | 1.1 | AREA'S LTG. CIRCUIT | 20A/1P | 2#12 + 1#12 GND. IN 3/4" CONDUIT | - | - | - | - | PROVIDE MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERRIDES. | SEE BELOW |
| CEF-2 | CEILING EXHAUST FAN | (SEE PLANS) | 120 | 1 | 60 | 0.083 | 0.7 | | | 2#12 + 1#12 GND. IN 3/4" CONDUIT | - | - | - | - | PROVIDE MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERRIDES. | SEE BELOW |
| CEF-3 | CEILING EXHAUST FAN | (SEE PLANS) | 120 | 1 | 60 | 0.129 | 1.1 | | | 2#12 + 1#12 GND. IN 3/4" CONDUIT | - | - | - | - | PROVIDE MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERRIDES. | CIRCUIT TO BE RUN THROUGH THERMOSTAT, VERIFY EXACT WIRING. |
| CEF-4 | CEILING EXHAUST FAN | (SEE PLANS) | 120 | 1 | 60 | 0.129 | 1.1 | AREA'S LTG. CIRCUIT | 20A/1P | 2#12 + 1#12 GND. IN 3/4" CONDUIT | - | - | - | - | PROVIDE MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERRIDES. | SEE BELOW |
| CEF-5 | CEILING EXHAUST FAN | (SEE PLANS) | 120 | 1 | 60 | 0.129 | 1.1 | | | 2#12 + 1#12 GND. IN 3/4" CONDUIT | - | - | - | - | PROVIDE MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERRIDES. | SEE BELOW |
| CEF-6 | CEILING EXHAUST FAN | (SEE PLANS) | 120 | 1 | 60 | 0.129 | 1.1 | | | 2#12 + 1#12 GND. IN 3/4" CONDUIT | - | - | - | - | PROVIDE MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERRIDES. | CIRCUIT TO BE RUN THROUGH THERMOSTAT, VERIFY EXACT WIRING. |
| EW-1 | ELECTRIC WATER HEATER | (SEE PLANS) | 208 | 1 | 60 | 4.5 | 21.6 | LP1/TBD,TBD | 25A/2P | 3#10 + 1#10 GND. IN 3/4" CONDUIT | 30 | 25 | 3 | 1 | PROVIDE DISCONNECT SWITCH WITH FUSING AS INDICATED. | SEE BELOW |

NOTES:

- COORDINATE WITH HVAC CONTRACTOR & DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT PRIOR TO INSTALLING ELECTRICAL COMPONENTS.
- COORDINATE WITH PLUMBING CONTRACTOR & DRAWINGS FOR EXACT LOCATIONS OF ALL PLUMBING EQUIPMENT PRIOR TO INSTALLING ELECTRICAL COMPONENTS.
- ALL DISCONNECTING MEANS SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- ALL STARTERS, VFD'S ETC. SHALL BE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE ALL HVAC EQUIPMENT.
- ALL HVAC CONTROL WIRING SHALL BE PROVIDED BY OTHERS.

| LIGHTING FIXTURE SCHEDULE | | | | | | | | |
|---------------------------|----------------------------|-----------------------------|----------|---------|----------|----------|---------|------------------------|
| TYPE | MANUFACTURER | CATALOG No. | MOUNTING | LAMPING | | | VOLTAGE | DESCRIPTION / REMARKS |
| | | | | TYPE | WATTAGE | QUANTITY | | |
| A | OVATION BY RENOVA LIGHTING | RVN 24 N-L030-UNV-DM-C30-AF | RECESSED | LED | 32/42/52 | 1 | 120 | 2X4 RECESSED LED PANEL |

NOTES:

- PROVIDE ACCESSORIES AND MOUNTING HARDWARE AS REQUIRED FOR ALL FIXTURES.
- ALL FIXTURE/ACCESSORY COLORS NOT INDICATED ON DRAWINGS SHALL BE SELECTED BY ARCHITECT.
- PROVIDE LAMPING FOR ALL FIXTURES UNLESS LAMPING IS INCLUDED WITH FIXTURE AS INDICATED IN SCHEDULE.
- PROVIDE TYPICAL UNIT MOCK UP FOR LIGHT FIXTURE HANGING HEIGHTS AND EXPOSED ELECTRICAL CONDUIT LAYOUT TO BE REVIEWED BY ARCHITECT.
- FIXTURE TO BE WIRED TO PHOTO CELL AND TIME CLOCK PROVIDED BY G.C.
- ALL LIGHT FIXTURES WITH INCANDESCENT LAMPING SHALL BE PROVIDED W/ CFL/LED LAMP IN LIEU OF INCANDESCENT LAMP.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY COLOR & FINISH WITH ARCHITECT PRIOR TO SUBMITTAL OF SHOP DRAWINGS.
- CC = CUSTOM COLOR TO BE SELECTED BY ARCHITECT (THE ELECTRICAL CONTRACTOR SHALL VERIFY CUSTOM COLOR & FINISH WITH ARCHITECT PRIOR TO SUBMITTAL OF SHOP DRAWINGS).

MANUFACTURER CONTACT:
 BOSTON LIGHT SOURCE
 LIZ McDONOUGH1-617-788-2400
 EMAIL: LMCDONOUGH@bostonlightsource.com



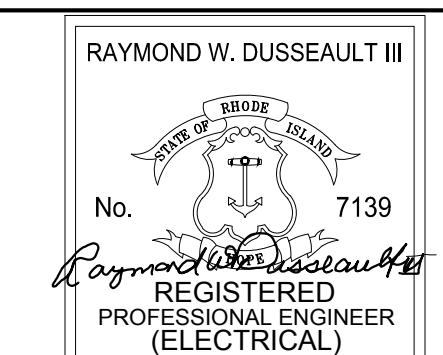
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 1330 MAIN STREET
 WEST WARWICK, RI 02893

REVISIONS:



ELECTRICAL SCHEDULES & DETAILS

DATE: 06.29.2023

NCA JOB NO.: 22330

DRAWING NO.:

E-201

PHASE NOTE:
COORDINATE ALL WORK WITH OWNER AND G.C.
PRIOR TO CONSTRUCTION IN ORDER TO
ENSURE PROPER PHASE SCHEDULING. REFER
TO ARCHITECTURE DRAWINGS FOR ADDITIONAL
INFORMATION.

EXISTING PLUMBING FIXTURES AND ASSOCIATED
WATER, WASTE AND VENT ROUGH-IN TO BE REMOVED
TO FACILITATE REMODELING OF EXISTING TOILET
ROOMS. DEMOLITION WORK SHALL PROCEED IN SUCH
A MANNER AS TO CONNECT NEW PLUMBING SYSTEMS
TO EXISTING. REFER TO PLUMBING PLAN P-101 FOR
ADDITIONAL UNDERSTANDING OF NEW WORK.

ALL WC 1/2" CW FIXTURE SUPPLY & URN 3/4" CW
FIXTURE SUPPLY SHALL BE CAPPED BEHIND WALL
DURING PHASE 1. CW MAIN WITHIN CHASE TO REMAIN
SERVING WOMEN'S RESTROOM. EXISTING PLUMBING
FIXTURES AND ASSOCIATED WATER, WASTE AND
VENT ROUGH-IN TO BE REMOVED TO FACILITATE
RENOVATION OF EXISTING TOILET ROOMS.
DEMOLITION WORK SHALL PROCEED IN SUCH A
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TO EXISTING. REFER TO PLUMBING PLAN P-101 FOR
ADDITIONAL UNDERSTANDING OF NEW WORK.

1 PLUMBING - 1st FLOOR DEMOLITION PLAN
1/4" = 1'-0"

CONNECT TO 2" W TO EXISTING
SANITARY SERVICE WHERE PIPE
SIZING IS SUFFICIENT. P.C. TO
VERIFY EXACT LOCATION IN FIELD.

CONNECT 4" W TO EXISTING
SANITARY SERVICE WHERE PIPE
SIZING & INVERT IS SUFFICIENT. P.C.
TO VERIFY EXACT LOCATION IN FIELD.

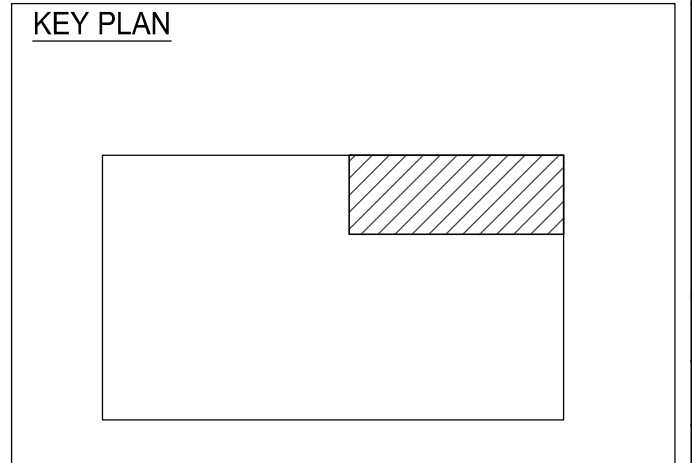
CONNECT 2" W TO EXISTING
SANITARY SERVICE WHERE PIPE
SIZING IS SUFFICIENT. P.C. TO
VERIFY EXACT LOCATION IN FIELD.

2 PLUMBING - 1st FLOOR WASTE & VENT PLAN
1/4" = 1'-0"

CONNECT TO EXISTING
DOMESTIC WATER
SERVICE. P.C. TO VERIFY
EXACT LOCATION IN FIELD.

20 GALLON ELECTRIC WATER HEATER.
SHOWN FOR CLARITY. LOCATE ON SHELF A
MINIMUM OF 6'-6" ABOVE MOP RECEPTACLE.
(REFER TO DIAGRAM ON THIS DRAWING)
(1/2" CW INLET AND 1/2" HW OUTLET)

3 PLUMBING - 1st FLOOR WATER PIPING PLAN
1/8" = 1'-0"



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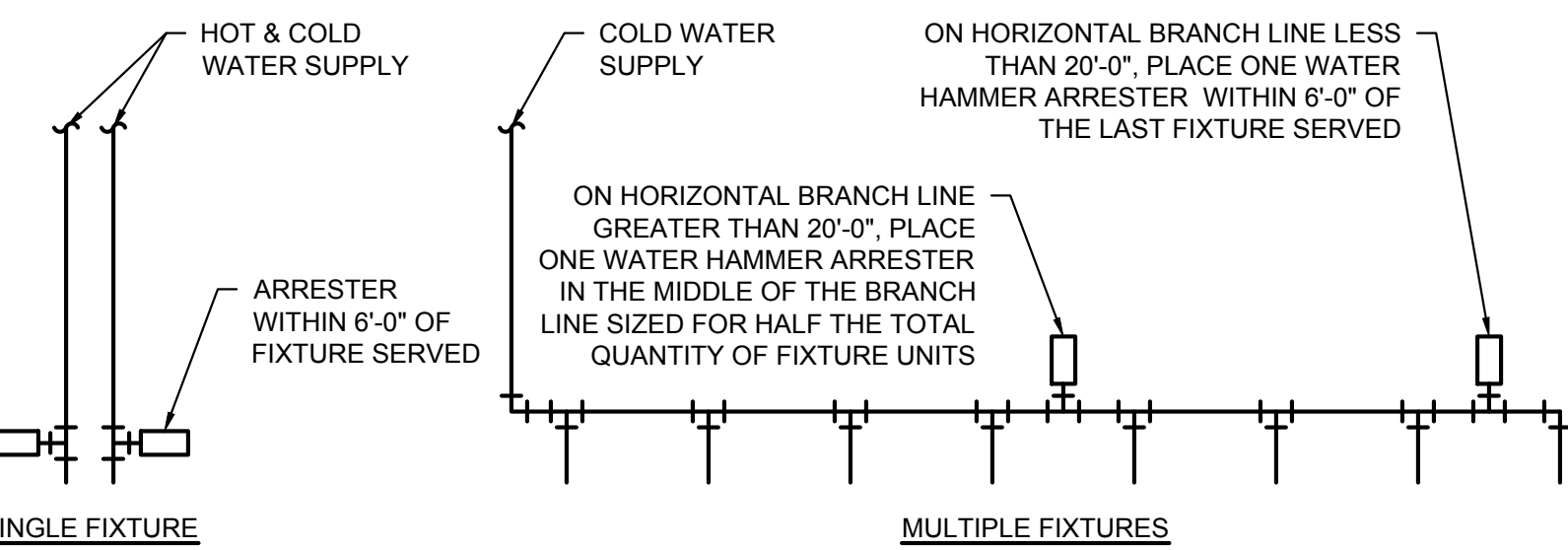
BATHROOM RENOVATIONS
STATE OF RHODE ISLAND / IN
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1330 MAIN STREET
WEST WARWICK, RI 02893

REVISIONS:

GLEN G. MARKEY
No. 7349
REGISTERED
PROFESSIONAL ENGINEER
MECHANICAL

**PLUMBING
FIRST FLOOR
PLANS**

DATE: 06.29.2023
NCA JOB NO.: 22330
DRAWING NO.:
P-101

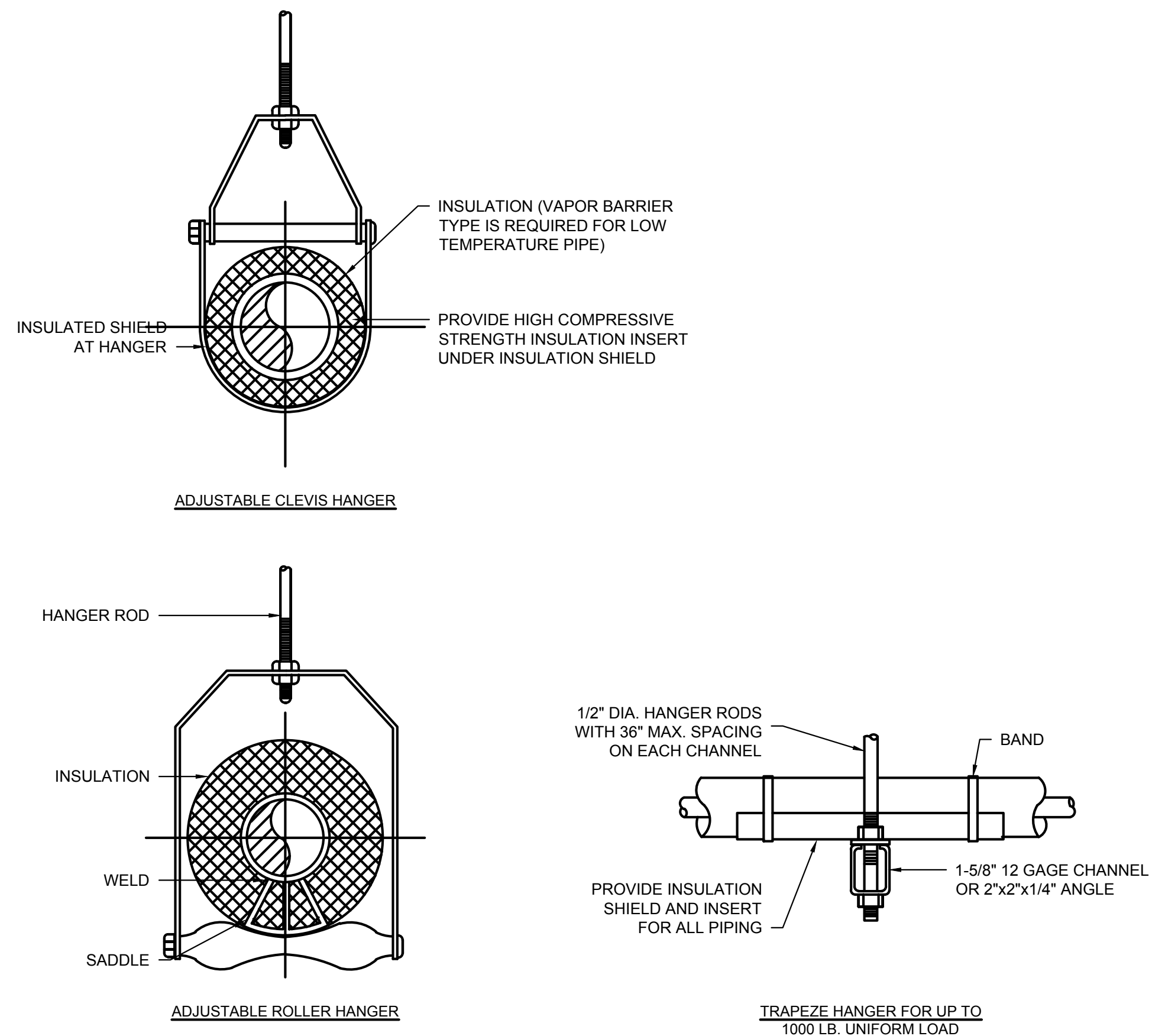


| PDI SIZE | FIXTURE UNIT LOAD |
|----------|-------------------|
| AA | 1-3 |
| A | 4-11 |
| B | 12-32 |
| C | 33-60 |
| D | 61-113 |
| E | 114-154 |

| FIXTURE UNIT TABULATION | | |
|--------------------------|------|-----|
| FIXTURE TYPE | COLD | HOT |
| FLUSH VALVE WATER CLOSET | 10 | - |
| URINAL | 5 | - |
| LAVATORY | 1.5 | 1.5 |
| SINK | 2 | 2 |
| MOP BASIN | 3 | 3 |
| DRINKING FOUNTAIN | 0.5 | - |

NOTES:
 P.G. TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS, OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 OR ANSI #A1126.1M CERTIFICATION. SIZE AND INSTALL PER PDI #WH-201 STANDARD OR MANUFACTURER'S RECOMMENDATION. THE TABLES ABOVE ARE BASED ON THE SIOUX CHIEF PRODUCT LINE. IF PRESSURE IS IN EXCESS OF 65 PSI, THEN UP-SIZE THE ARRESTERS BY ONE SIZE (I.E. AN 'A' ARRESTER WOULD BECOME A 'B' ARRESTER).

WATER HAMMER ARRESTER DETAIL
 NTS



MAXIMUM SUPPORT SPACING (FEET)

| NOMINAL SIZE | THRU 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" | 4" | 5" | 6" | 8" | 10" | 12" | 14" | 16" | 18" | 20" | 24" |
|--------------|-----------|------|--------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PIPE | 7 FT | 7 FT | 7 FT | 9 FT | 10 FT | 11 FT | 12 FT | 14 FT | 16 FT | 17 FT | 19 FT | 22 FT | 23 FT | 25 FT | 27 FT | 28 FT | 30 FT | 32 FT |
| TUBING | 5 FT | 6 FT | 7 FT | 8 FT | 8 FT | 9 FT | 10 FT | 12 FT | 13 FT | 14 FT | 16 FT | - | - | - | - | - | - | - |

NOTES:
 1. FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

PIPE HANGER DETAIL
 NTS

PLUMBING FIXTURE SCHEDULE

| SYMBOL | FIXTURE INFORMATION | | | | TYPE | FITTING INFORMATION | | CONNECTIONS | | | | TRAP | CARRIER | MAXIMUM WATER CONSUMPTION | REMARKS AND SPECIFICATIONS |
|--------|-----------------------|-------------------|--|-------------------|-----------------|---|---------------------------------------|-------------|--------|------|------|---|---------------|---------------------------|---|
| | DESCRIPTION | MANUFACTURER | MODEL | COLOR | | MAKE/MODEL | SUPPLY | WASTE | VENT | HW | CW | | | | |
| LAV-1 | LAVATORY (ADA) | AMERICAN STANDARD | LUCERNE 0355.012 | WHITE | FAUCET-MOUNT | AMERICAN STANDARD INNSBROOK ELECTRONIC 605B.205 | 4" CENTERS, 2 HANDLE, POP-UP STRAINER | 1-1/2" | 1-1/2" | 1/2" | 1/2" | 1-1/4"x1-1/2" CAST BRASS P-TRAP w/C.O. PLUG | ZURN OR EQUAL | 0.5 GPM | G.C. SHALL COORDINATE FINAL SELECTIONS WITH OWNER PRIOR TO BIDDING/CONSTRUCTION. SENSOR OPERATED. PROVIDE WITH 0.5 GPM AERATOR. |
| WC-1 | WATER CLOSET (ADA) | AMERICAN STANDARD | CADET PRO "RIGHT-HEIGHT" #215AA104.020 | WHITE | FLOOR-MOUNTED | AMERICAN STANDARD CHROME TRIP LEVER | SUPPLY WITH STOP & LOOSE KEY | 3" | 2" | - | 1/2" | INTEGRAL | - | 1.28 GPF | G.C. SHALL COORDINATE FINAL SELECTIONS WITH OWNER PRIOR TO BIDDING/CONSTRUCTION. |
| KS-1 | SINK | ELKAY | LUSTERTONE LRAD-2219-65-4-Q | STAINLESS STEEL | SURFACE MOUNTED | CHICAGO FAUCET 200-A317CPR-CF | 8" CENTERS W/ SWING SPOUT | 1-1/2" | 1-1/2" | 1/2" | 1/2" | 1-1/4"x1-1/2" CAST BRASS P-TRAP w/C.O. PLUG | - | 2.0 GPM | G.C. SHALL COORDINATE FINAL SELECTIONS WITH OWNER PRIOR TO BIDDING/CONSTRUCTION. PROVIDE WITH 2.0 GPM AERATOR. |
| MB-1 | MOP BASIN | MUSTEE | 63M | MOLDED FIBERGLASS | FAUCET | MUSTEE 63.600A | - | 3" | 2" | 1/2" | 1/2" | - | - | 1.5 GPM | WALL MOUNTED FAUCET WITH VACUUM BREAKER, WALL-MOUNTED BRACE AND PAIL HOOK, 65.700 BRACKET, 65.600 MOP HANGER |
| EW-1 | ELECTRIC WATER COOLER | ELKAY | LZSG8WSLK | STAINLESS STEEL | - | - | - | 1-1/2" | 1-1/2" | - | 1/2" | - | - | - | ADA COMPLIANT, 120V. PROVIDE WITH BOTTLER FILLER. |

NOTES:
 1. APPLY SILICONE SEALANT WHERE FIXTURES MEET FLOORS AND WALLS.

CLEANOUT, FLOOR DRAIN, AND FLOOR SINK SCHEDULE

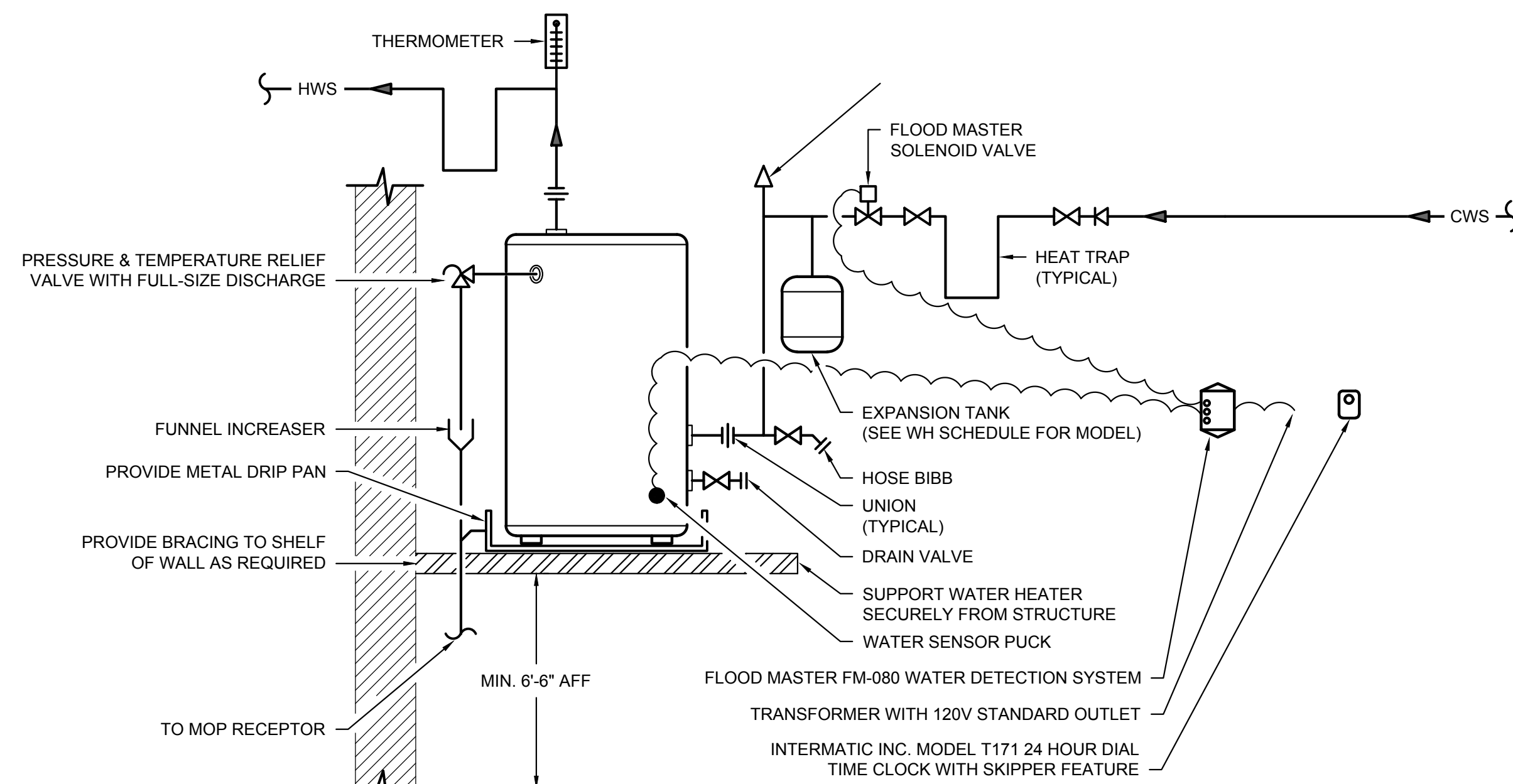
| SYMBOL | TYPE | MANUFACTURER | MODEL | OUTLET | MATERIAL | REMARKS |
|--------|----------------|--------------|-----------|--------|-------------------------------|---|
| FCO | FLOOR CLEANOUT | J.R. SMITH | 4026C | CAULK | NICKEL BRONZE TOP BRONZE PLUG | FINISHED AREAS (PROVIDE CARPET MARKER IN CARPETED ARAS). |
| FD | FLOOR DRAIN | J.R. SMITH | 2005-P050 | CAULK | NICKEL BRONZE TOP BRONZE PLUG | INSTALL TRAP PRIMER VALVES FOR ALL FLOOR DRAINS OR INSTALL "SURE-SEAL" OR "PRO-SET" TRAP SEAL NEOPRENE DUCKBILL FLAPPER TO PREVENT EVAPORATION. |

NOTES:
 1. ALL FLOOR DRAINS THAT DO NOT RECEIVE INDIRECT WASTE DISCHARGE SHALL BE TRAP SEAL PROTECTED WITH TRAP PRIMER VALVES, BELOW SLAB PIPING AND DISTRIBUTION UNITS OR INSTALL "SURE-SEAL" OR "PRO-SET" NEOPRENE DUCKBILL FLAPPER DEVICE TO PREVENT TRAP SEAL EVAPORATION.

WATER HEATER SCHEDULE (BASED ON STATE WATER HEATERS)

| SYMBOL | LOCATION | MODEL | RECOVERY TEMP. RISE | FUEL | NO. OF ELEMENTS | SIMULTANEOUS | KW | ELECTRICAL DATA | | WEIGHT (LBS.) | NOTES |
|--------|-----------------|--------|---------------------|------|-----------------|--------------|-----|-----------------|---------|---------------|-------|
| | | | | | | | | AMPS | VOLTAGE | | |
| WH-1 | JANITORS CLOSET | DEL-20 | 100 | NA | 2 | NO | 4.5 | 21.6 | 208/160 | 73 | 1,2 |

NOTES:
 1. PROVIDE WITH DISCONNECT. COORDINATE WITH E.C.
 2. PROVIDE WITH AMTROL # ST-5 EXPANSION TANK (ET-1) RATED FOR 150 PSIG.



NOTES:
 1. INSTALL WATER HEATER DIRECTLY ABOVE MOP RECEPTOR.
 2. SEE FLOOR PLANS FOR ALL PIPE SIZING.

ELECTRIC WATER HEATER DETAIL
 NTS



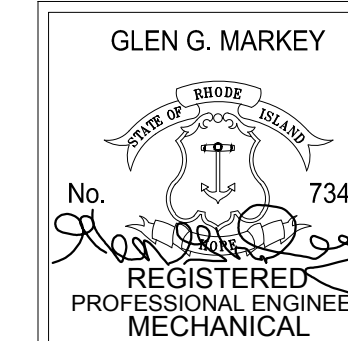
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REVISIONS:



PLUMBING SCHEDULES & DETAILS

DATE: 06.29.2023

NCA JOB NO.: 22330

DRAWING NO.:

P-201

