

GENERAL NOTES

- ALL CONTRACTORS AND SUBCONTRACTORS WILL THOROUGHLY FAMILIARIZE THEMSELVES WITH THESE CONSTRUCTION DOCUMENTS AND WILL VERIFY EXISTING SITE AND CONDITIONS PRIOR TO SUBMITTING A BID. ALL SUBCONTRACTORS WILL PROVIDE ALL LABOR, SUPERVISION, AND MATERIALS OF EVERY TYPE WHICH MAY BE NECESSARY FOR A SUCCESSFUL COMPLETION. ALL WORK TO BE PERFORMED IN A GOOD AND WORKMANLIKE MANNER ACCORDING TO THE TRUE INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS.
- THIS ARCHITECT AND HIS PROFESSIONAL CONSULTANTS WILL NOT HAVE CONTROL, OF AND WILL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK ON THIS PROJECT OR FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK ON THIS SITE, NOR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE INTENT OF THE CONTRACT AND OR CONSTRUCTION DOCUMENTS.
- ALL CONTRACTORS WILL PROVIDE ADEQUATE BRACING AND/OR SHORING TO INSURE STRUCTURAL STABILITY OF THE BUILDING AND ALL RELATED BUILDING COMPONENTS IE: STRUCTURAL WALLS, INTERIOR WALL ASSEMBLIES, ETC. DURING THE CONSTRUCTION PHASE OF THIS PROJECT.
- WORK WILL BE COORDINATED WITH ALL TRADES IN ORDER TO AVOID INTERFERENCE, AND AVOID OMISSIONS.
- ALL MATERIALS USED WILL BE NEW AND BEAR U.L. LABELS WHERE REQUIRED AND MEET APPROPRIATE N.E.M.A. STANDARDS.
- LAYOUT ALL PARTITIONS BEFORE BEGINNING CONSTRUCTION TO PREVENT ERRORS BY DISCREPANCY. ALL DRYWALL PARTITIONS WILL BE INSTALLED AS NOTED ON THE DRAWINGS.
- EACH SUBCONTRACTOR WILL AMEND AND MAKE GOOD AT HIS OWN COST, ANY DEFECTS OR OTHER FAULTS IN HIS WORKMANSHIP AND/OR HIS SUPPLIED MATERIALS.
- ALL CONTRACTORS WILL GUARANTEE ALL LABOR AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF OCCUPANCY.
- VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING, CUTTING AND/OR INSTALLING MATERIAL, PRODUCT OR EQUIPMENT. IN THE EVENT OF ANY DISCREPANCIES, CONTACT THE CONSTRUCTION MANAGER OR OWNER BEFORE PROCEEDING WITH THAT WORK.
- ALL SUBCONTRACTORS WILL PROVIDE A CERTIFICATE OF INSURANCE TO THE GENERAL CONTRACTOR PRIOR TO STARTING ANY WORK ON THIS PROJECT. CERTIFICATE OF INSURANCE CANNOT BE TERMINATED OR CANCELED WITHOUT 10 DAYS PRIOR WRITTEN NOTICE TO THE OWNER.
- ANY ADDITIONS OR CHANGES TO WORK MUST BE AUTHORIZED IN WRITING BY THE CONSTRUCTION MANAGER OR OWNER. NO ALTERATIONS WILL BE MADE ON THIS PROJECT EXCEPT UPON WRITTEN ORDER BY THE CONSTRUCTION MANAGER.
- NO SUBSTITUTIONS OF ANY KIND FOR MATERIALS SPECIFIED ON THESE CONSTRUCTION DOCUMENTS IS ALLOWED. NO "EQUIVALENT" SUBSTITUTIONS WILL BE MADE. UNLESS DUE TO THE LACK OF AVAILABILITY OF THE ORIGINAL MATERIAL SPECIFIED AND APPROVED IN WRITING BY CLIENT.
- WEATHER CONDITIONS: CONTRACTORS WILL PROTECT ALL PARTS OF THEIR WORK FROM WEATHER DAMAGE DUE TO FROST, RAIN, HEAT, ETC. AND WILL MAKE GOOD TO THE SATISFACTION OF THE CONSTRUCTION MANAGER AND/OR GENERAL CONTRACTOR ANY PORTION OF THE WORK WHICH MAY HAVE BECOME DAMAGED.
- RESPONSIBILITY OF CONTRACTOR: EACH SUBCONTRACTOR IS RESPONSIBLE FOR WORKMANSHIP AND MATERIALS. EACH SUBCONTRACTOR IS RESPONSIBLE FOR THE CARE AND PROTECTION OF HIS OWN WORK AND MATERIALS.
- SITE SAFETY: EACH CONTRACTOR WILL ABIDE BY LOCAL AREA STANDARDS AND RELATED OSHA STANDARDS FOR THE PROTECTION AND SAFETY FOR THEIR EMPLOYEES ON SITE. THIS ARCHITECT AND HIS PROFESSIONAL CONSULTANTS WILL BE HELD HARMLESS BY THE OWNER, GENERAL CONTRACTOR AND RELATED AWARDED TRADES ON THIS PROJECT FOR ACCIDENTS OR INJURIES CAUSED OR ACCRUED ON THIS PROPERTY DURING THE PRE/ACTUAL/POST CONSTRUCTION PHASES OF THIS PROJECT.
- PILFERAGE: EACH CONTRACTOR WILL BE RESPONSIBLE FOR HIS OWN EQUIPMENT AND MATERIALS USED IN CONSTRUCTION INCLUDING THOSE ITEMS, FURNISHED BY THE OWNER, AND DELIVERED TO THE JOB SITE, TO BE INSTALLED BY THE CONTRACTOR. THE OWNER WILL NOT BE HELD LIABLE FOR STOLEN EQUIPMENT, MATERIALS OR DAMAGE OF THE SAME ON THIS JOB SITE.
- LIENS: ALL SUBCONTRACTORS AND THE GENERAL CONTRACTOR WILL DELIVER TO THE OWNER, A COMPLETE RELEASE OF ALL CLAIMS ARISING OUT OF THIS CONTRACT.
- GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF DEBRIS ACCUMULATED BY EACH TRADE. HOWEVER, EACH TRADE WILL KEEP THE JOB SITE CLEAN AND SAFE AT ALL TIMES, ALONG WITH A BROOM FINISH AT THE END OF EACH WORKING DAY.
- SCHEDULE OF WORK: THE OWNER CONSTRUCTION MANAGER WILL COORDINATE WITH THE GENERAL CONTRACTOR DURING THE BIDDING PROCESS, THE REQUIRED NUMBER OF CALENDAR DAYS TO COMPLETE THIS WORK.

HOFFMAN ESTATES PARK  
DISTRICT - VOGELEI HOUSE  
650 WEST HIGGINS ROAD  
HOFFMAN ESTATES, IL 60169

DRAWING INDEX

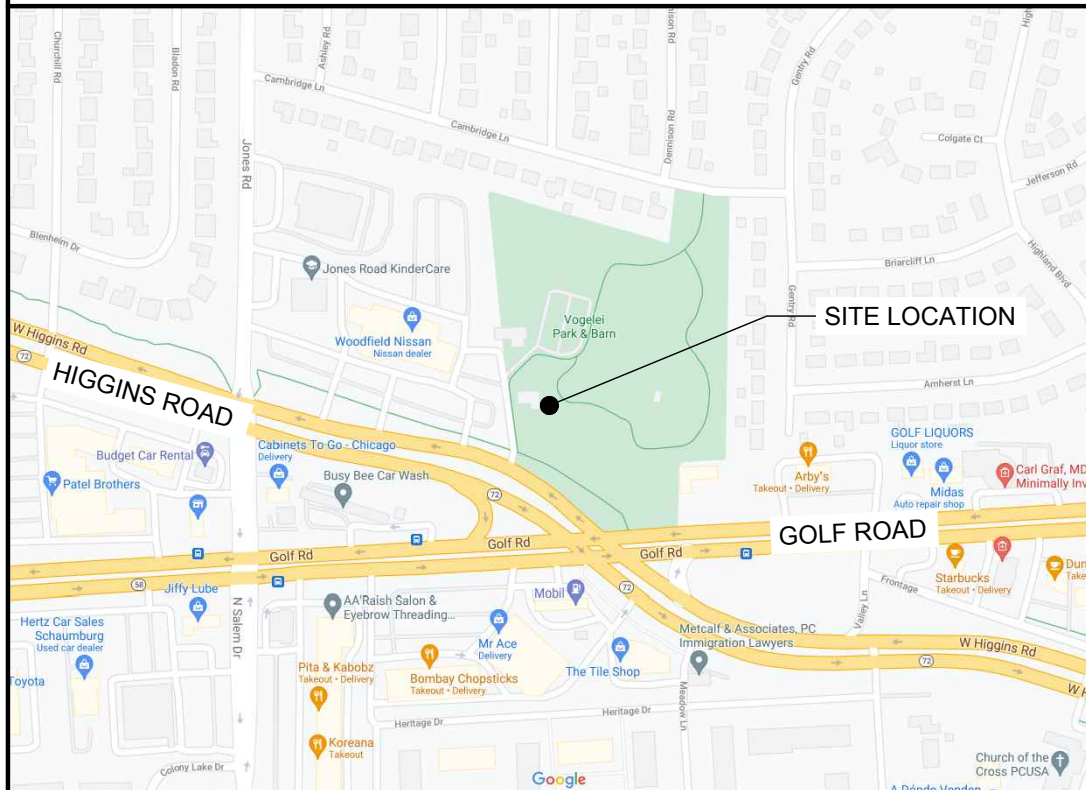
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NOTE:  
CIVIL DRAWINGS AND FIRE PROTECTION DRAWINGS ARE UNDER SEPARATE DRAWING SET.

PROJECT DIRECTORY

<b>OWNER</b>	<b>STRUCTURAL ENGINEER</b>
HOFFMAN ESTATES PARK DISTRICT DUSTIN HUGEN 1685 WEST HIGGINS ROAD HOFFMAN ESTATES, IL 60169 847-885-7500	THE W-T GROUP, LLC JEFFERY GUTOWSKY 2675 PRATUM AVENUE HOFFMAN ESTATES, IL 60192 224-293-6333
<b>ARCHITECT</b>	<b>MECHANICAL, ELECTRICAL, AND PLUMBING ENGINEER</b>
API ARCHITECTS 2675 PRATUM AVENUE HOFFMAN ESTATES, IL 60192	THE W-T GROUP, LLC MARK VENTRELLI 2675 PRATUM AVENUE HOFFMAN ESTATES, IL 60192 224-293-6333
<b>CIVIL ENGINEER</b>	
THE W-T GROUP, LLC TODD ABRAMS 2675 PRATUM AVENUE HOFFMAN ESTATES, IL 60192 224-293-6333	

LOCATION MAP



GENERAL BUILDING INFORMATION

<b>HOFFMAN ESTATES ADOPTED CODES</b>	
2015	INTERNATIONAL BUILDING CODE
2015	INTERNATIONAL FIRE CODE
2015	INTERNATIONAL MECHANICAL CODE
2017	NATIONAL ELECTRICAL CODE
2014	ILLINOIS PLUMBING CODE
2018	ILLINOIS ACCESSIBILITY CODE
2019	ILLINOIS ENERGY CONSERVATION CODE
CURRENT HOFFMAN ESTATES ZONING ORDINANCE	
<b>BUILDING DATA</b>	
ZONING CLASSIFICATION:	B1
OCCUPANCY:	B
CONSTRUCTION TYPE:	IIIB
NUMBER OF STORIES:	2
BUILDING AREA:	4,967 SQ.FT.

STATEMENT OF COMPLIANCE

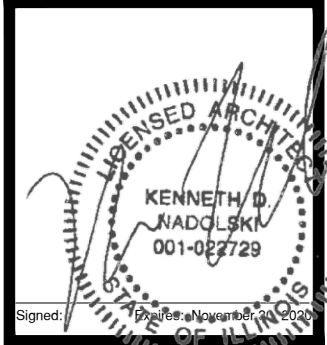
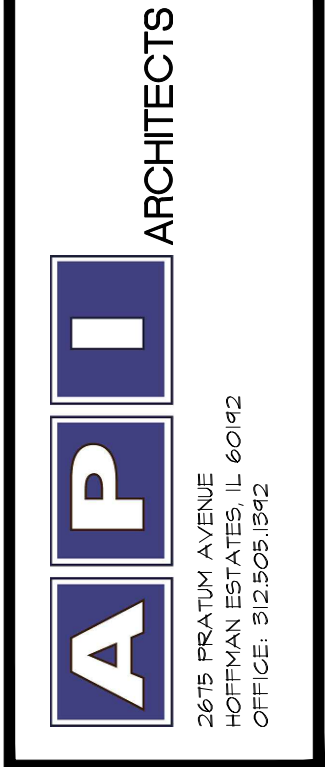
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE THEY CONFORM TO THE LOCAL BUILDING CODES.



DATE:  
KEN NADOLSKI  
REGISTRATION NUMBER: 001022729  
DATE OF EXPIRATION: NOVEMBER 30, 2022

SCOPE OF WORK

THIS IS A BUILDING REMODEL, WITH INTERIOR AND EXTERIOR SPACES BEING EFFECTED. THE INTERIOR WILL BE TURNED INTO OFFICE SPACE, AND A CHAIR LIFT FROM FIRST FLOOR TO SECOND FLOOR WILL BE ADDED. AROUND THE EXTERIOR, THREE RAMPS WILL BE ADDED TO EACH LEVEL OF THE BUILDING.

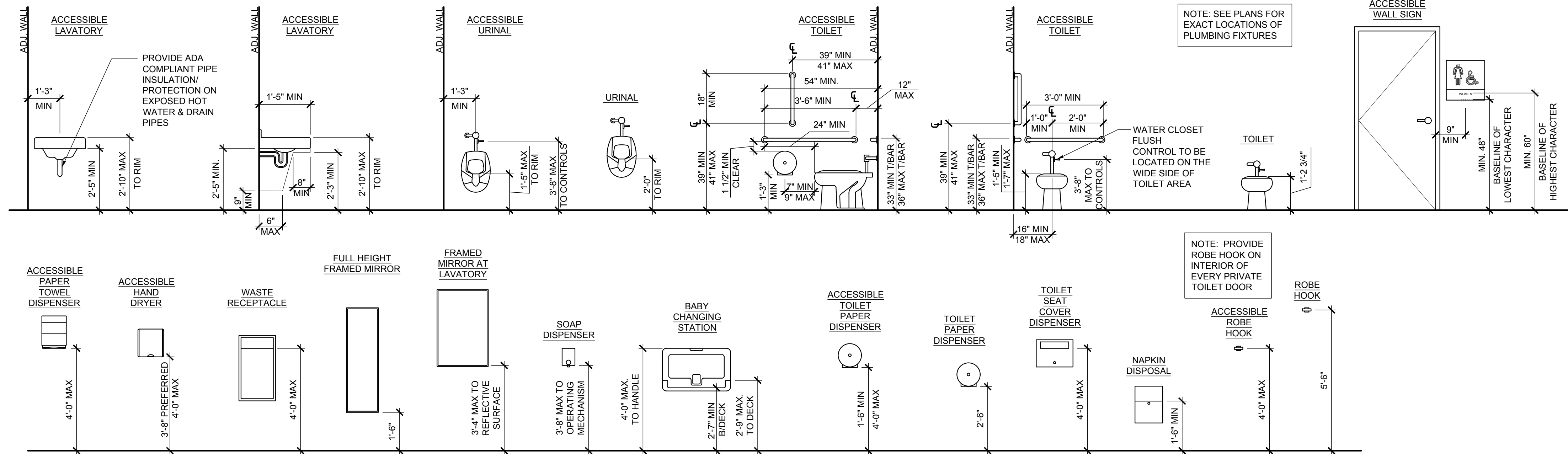


HOFFMAN ESTATES PARK DISTRICT - VOGELEI HOUSE REMODEL  
650 WEST HIGGINS ROAD  
HOFFMAN ESTATES, IL 60169

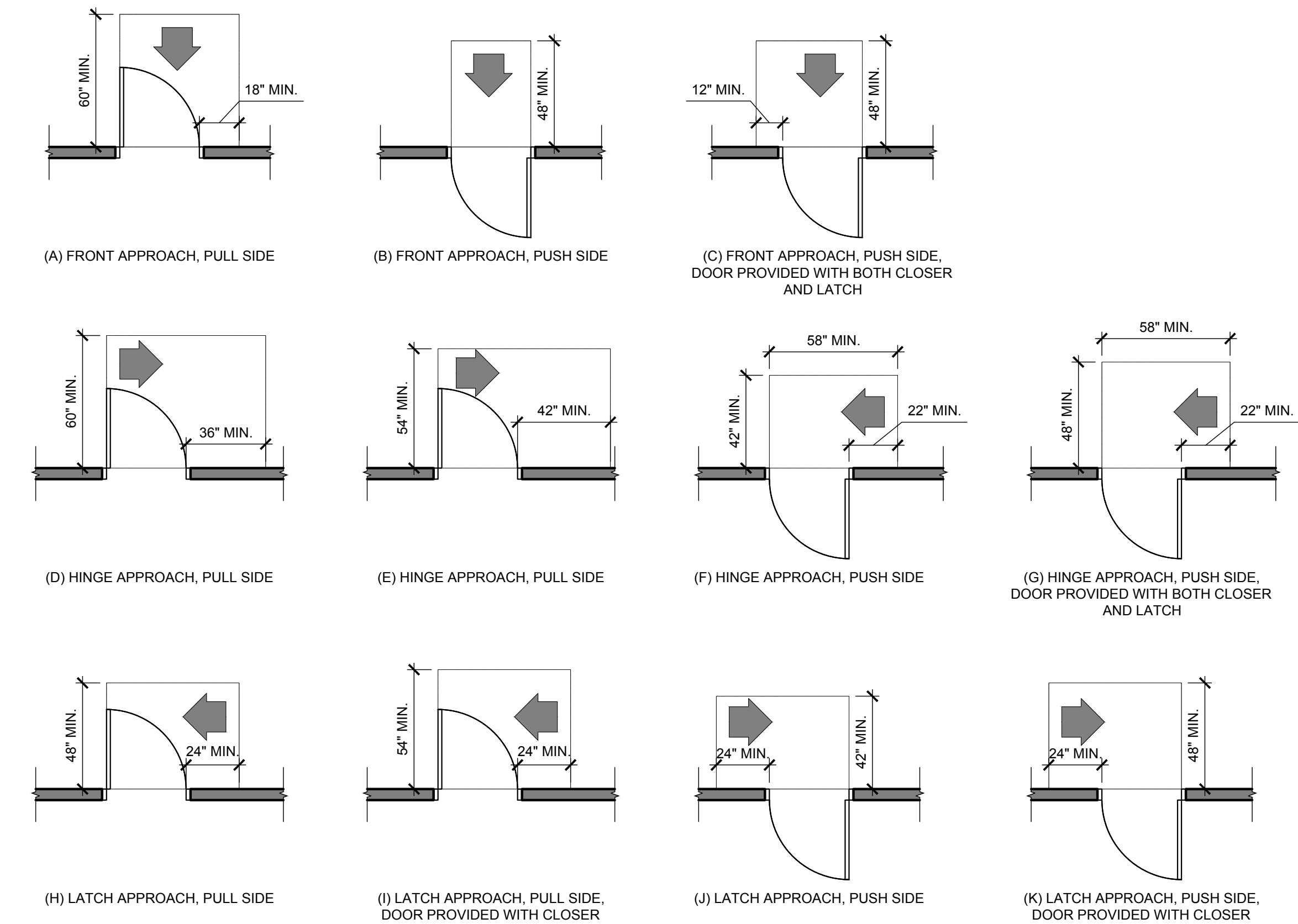
project no.	D2100091
date:	07.21.2021
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revision 3:	
revision 4:	
checked:	CN
drawn:	JB

sheet title:	COVER SHEET
sheet number:	G001

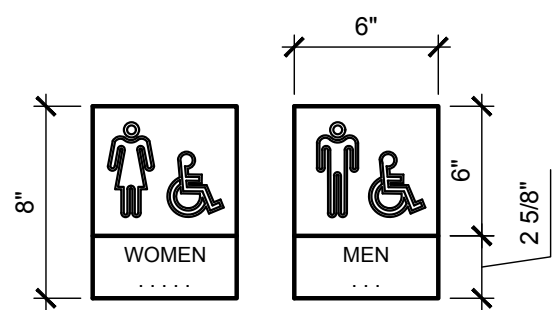




1 TYPICAL ACCESSORY MOUNTING HEIGHTS  
SCALE: N.T.S.



3 ACCESSIBLE DOOR CLEARANCES  
SCALE: N.T.S.



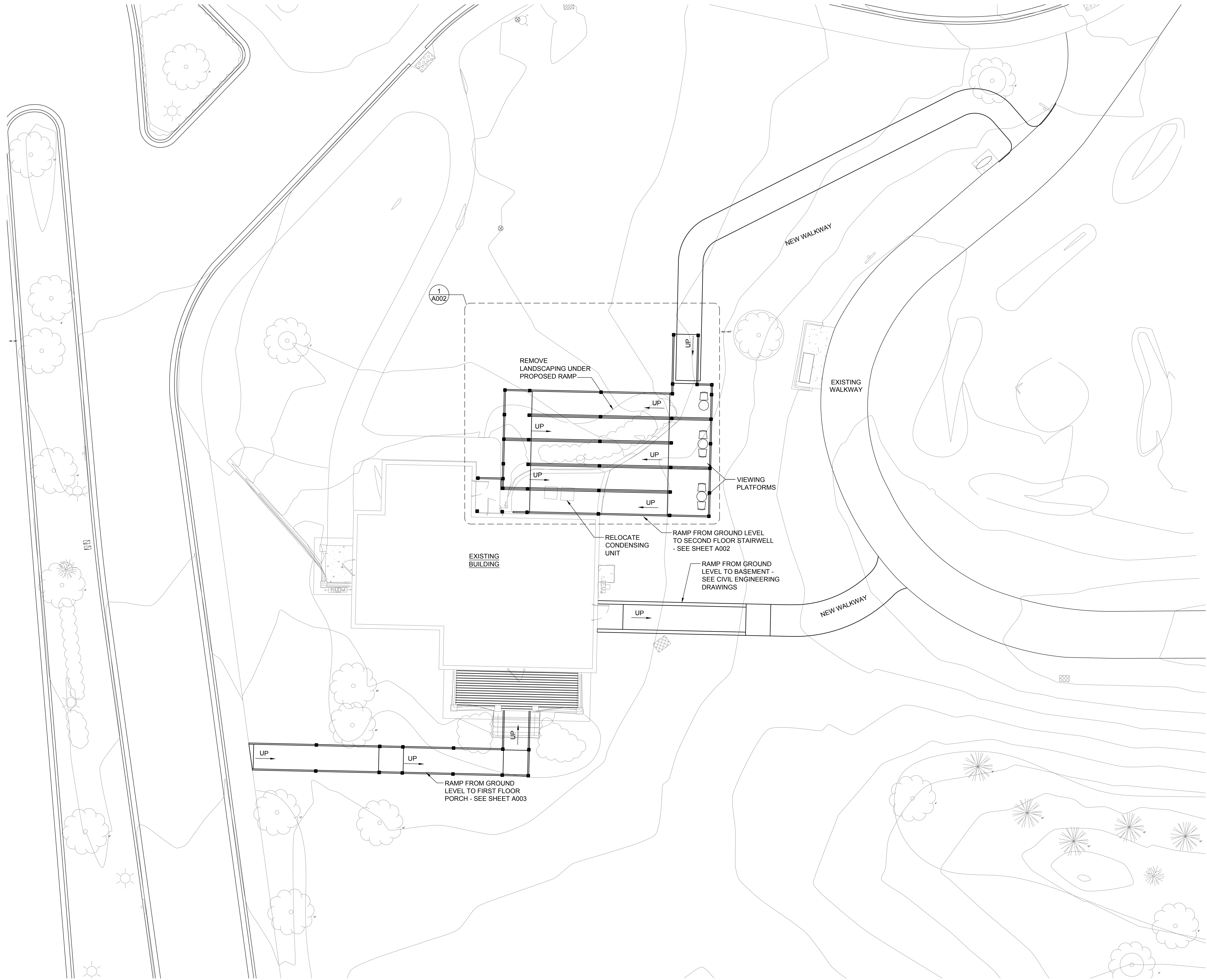
SIGN MUST INCLUDE: GRADE 2 BRAILLE, MINIMUM 6" X 6" PICTOGRAM, AND 5/8" HIGH TEXT RAISED 1/32". THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND. CHARACTERS MUST BE UPPERCASE AND SANS SERIF OR 'SIMPLE SERIF' TYPE STYLE.

ACCESSIBLE SIGNAGE FINISH, CHARACTERS, SYMBOLS AND BRAILLE MUST MEET THE REQUIREMENTS OF THE 2018 ILLINOIS ACCESSIBILITY CODE. SIGN MUST INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.

RESTROOM SIGNAGE SHALL BE MOUNTED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. MOUNTING HEIGHT SHALL BE PER THE DIAGRAM ON THIS SHEET. MOUNTING LOCATION FOR THE SIGNAGE MUST BE SO THAT A PERSON MAY APPROACH WITHIN AN 18"x18" AREA, CENTERED ON THE SIGNAGE, WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR DOOR SWINGS.

2 ACCESSIBLE SIGNAGE  
SCALE: N.T.S.





1 SITE PLAN  
SCALE: 1" = 10'-0"

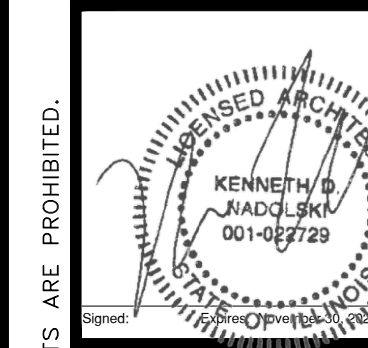
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revision 1:  
revision 2:  
revision 3:  
revision 4:  
checked: CM  
drawn: JB

sheet title:  
SITE PLAN  
sheet number:  
A001

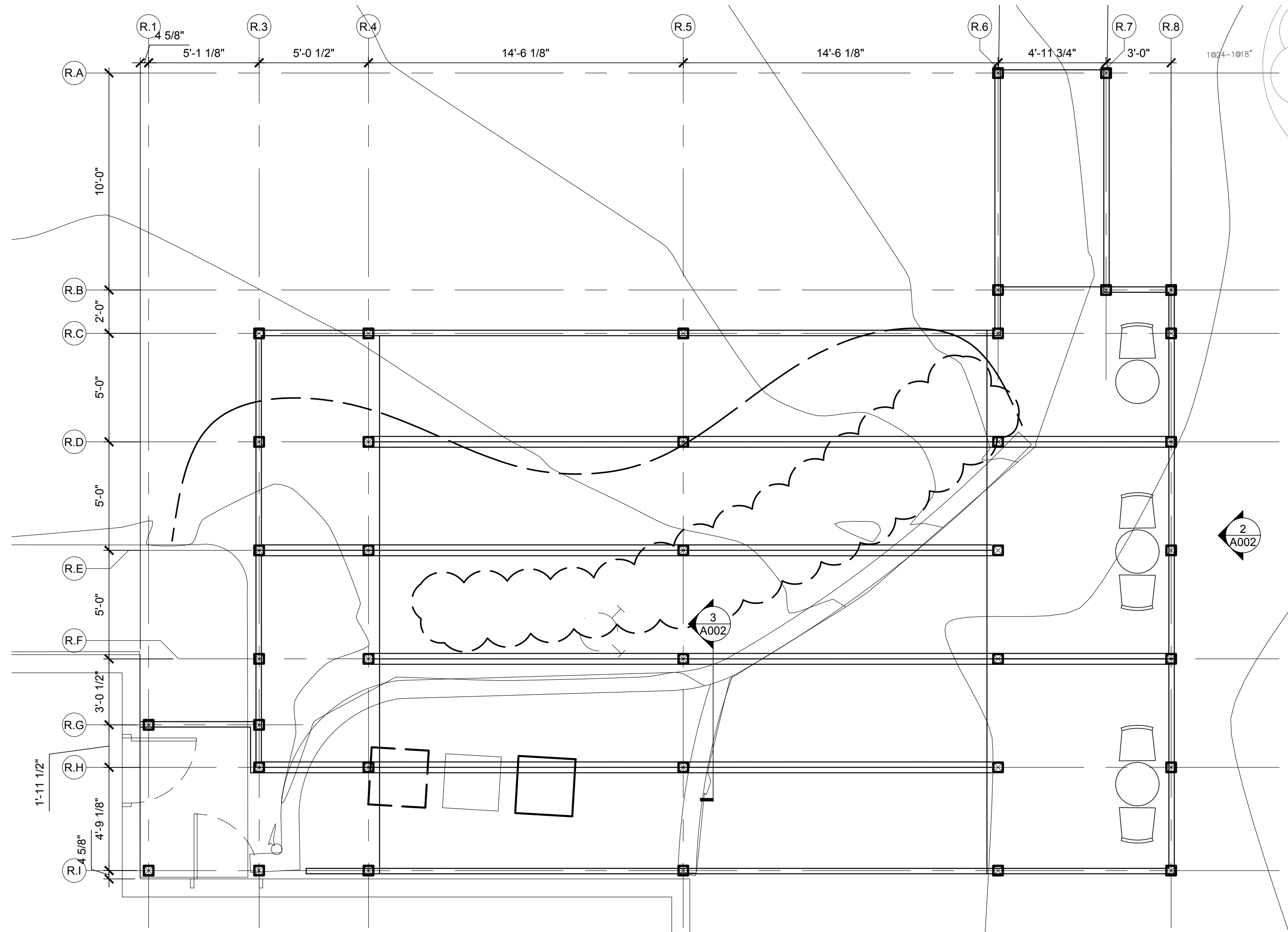
HOFFMAN ESTATES PARK DISTRICT - VOGELI HOUSE REMODEL  
650 WEST HIGGINS ROAD  
HOFFMAN ESTATES, IL 60169



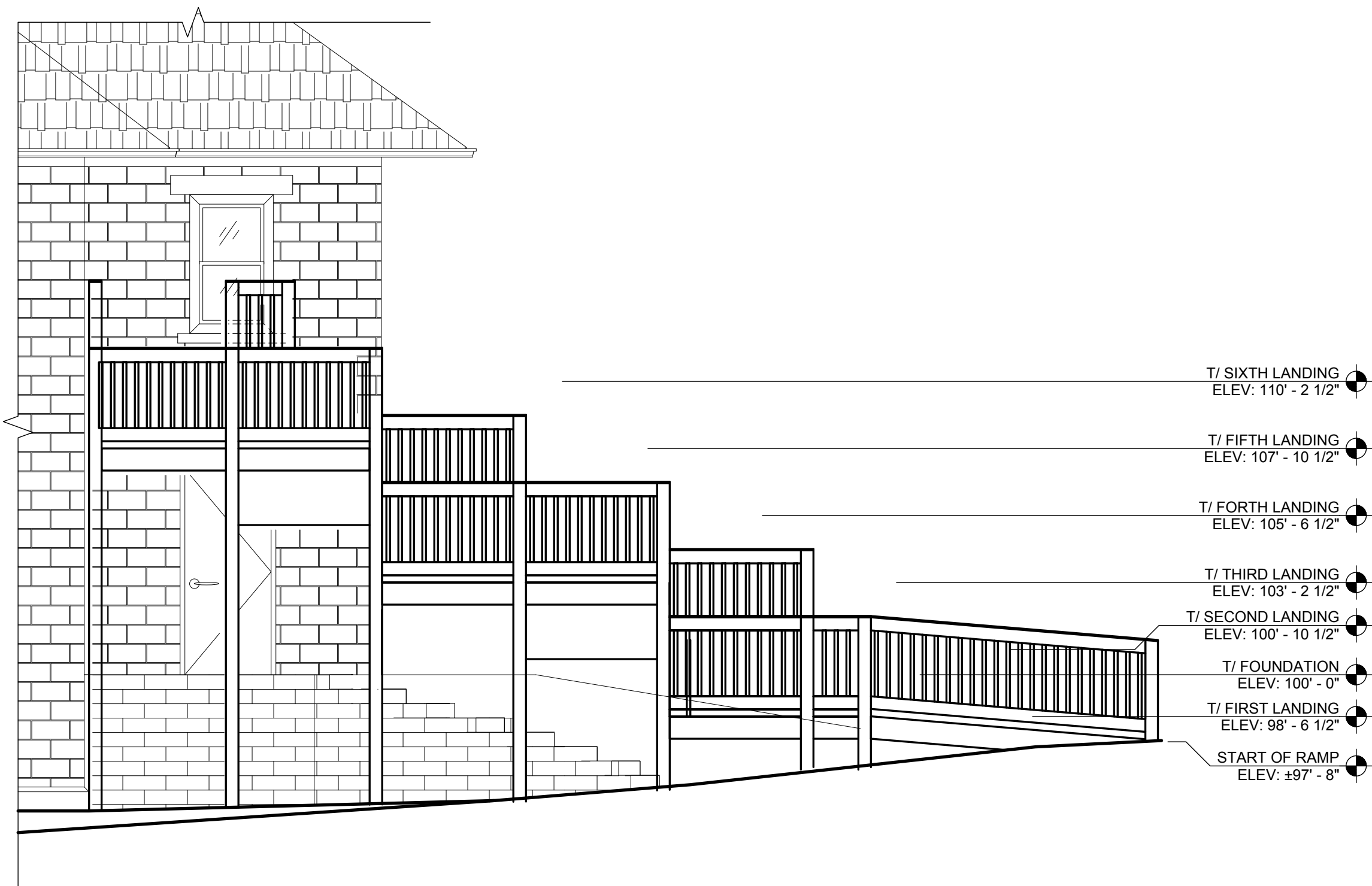
API ARCHITECTS

3475 PARKWAY AVENUE  
HOFFMAN ESTATES, IL 60162  
OFFICE: 912.505.1342

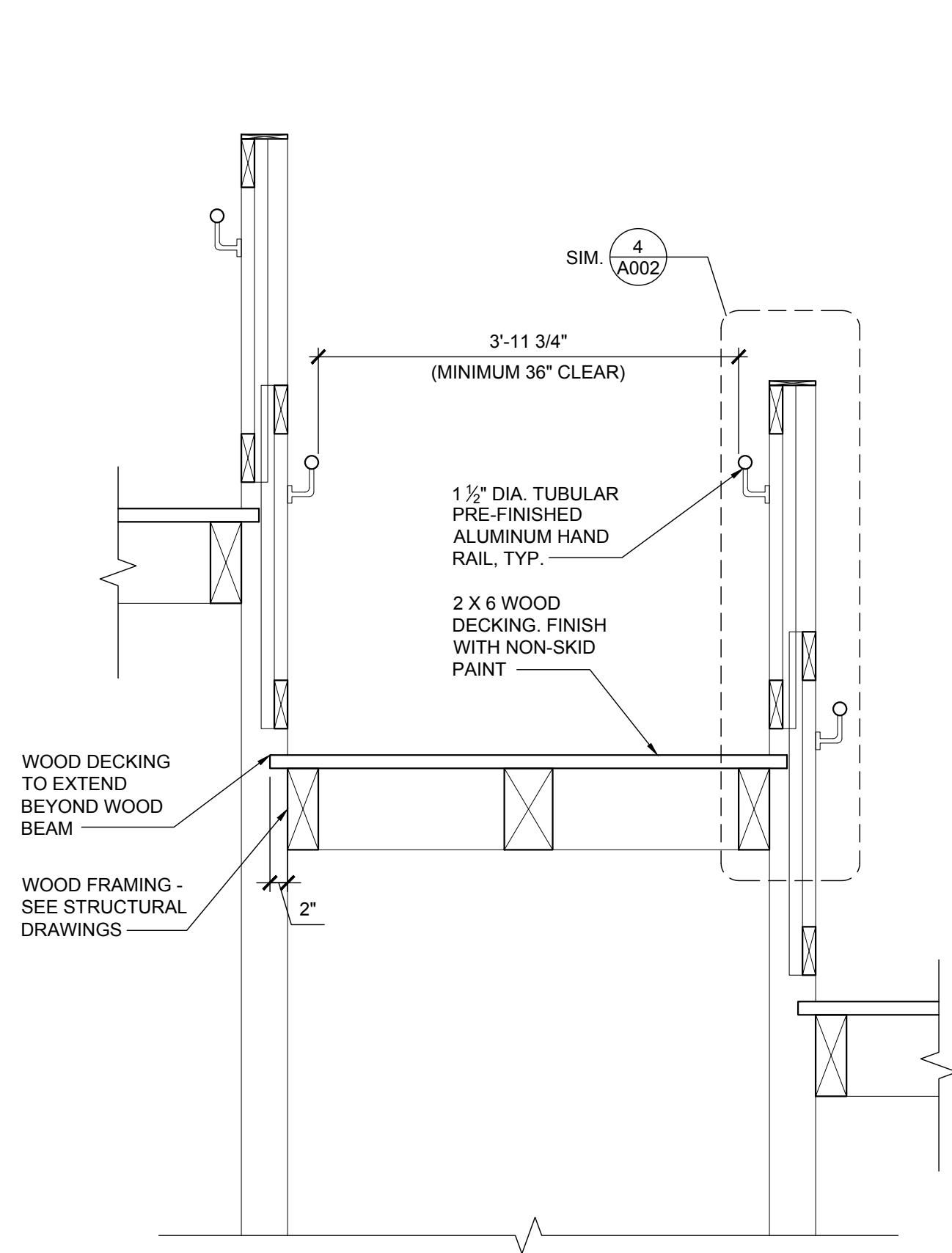




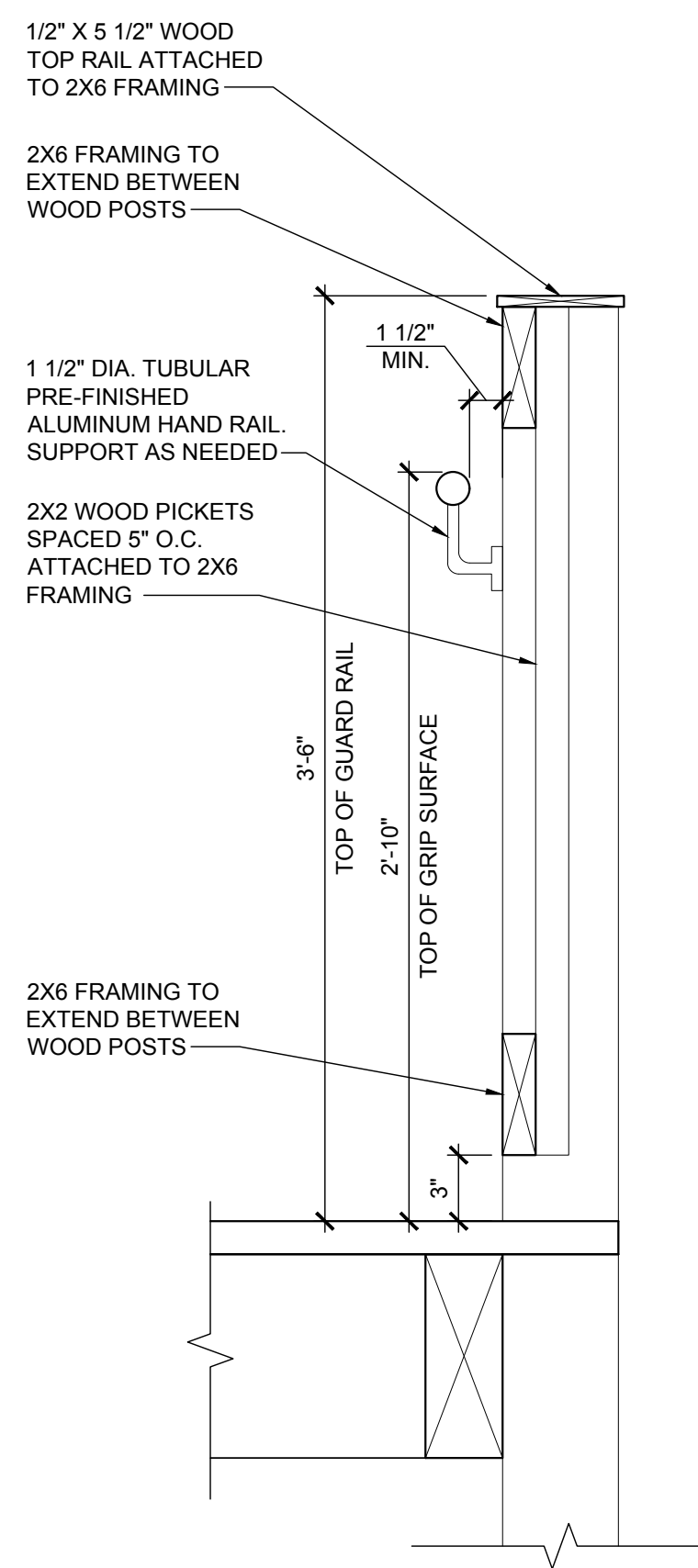
1 RAMP SECTION  
SCALE: 1/4" = 1'-0"



2 RAMP ELEVATION  
SCALE: 1/4" = 1'-0"

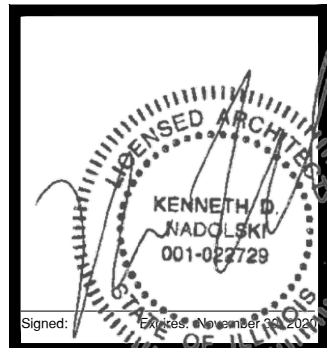


3 RAMP DETAIL  
SCALE: 3/4" = 1'-0"



4 GUARD RAIL DETAIL  
SCALE: 1 1/2" = 1'-0"

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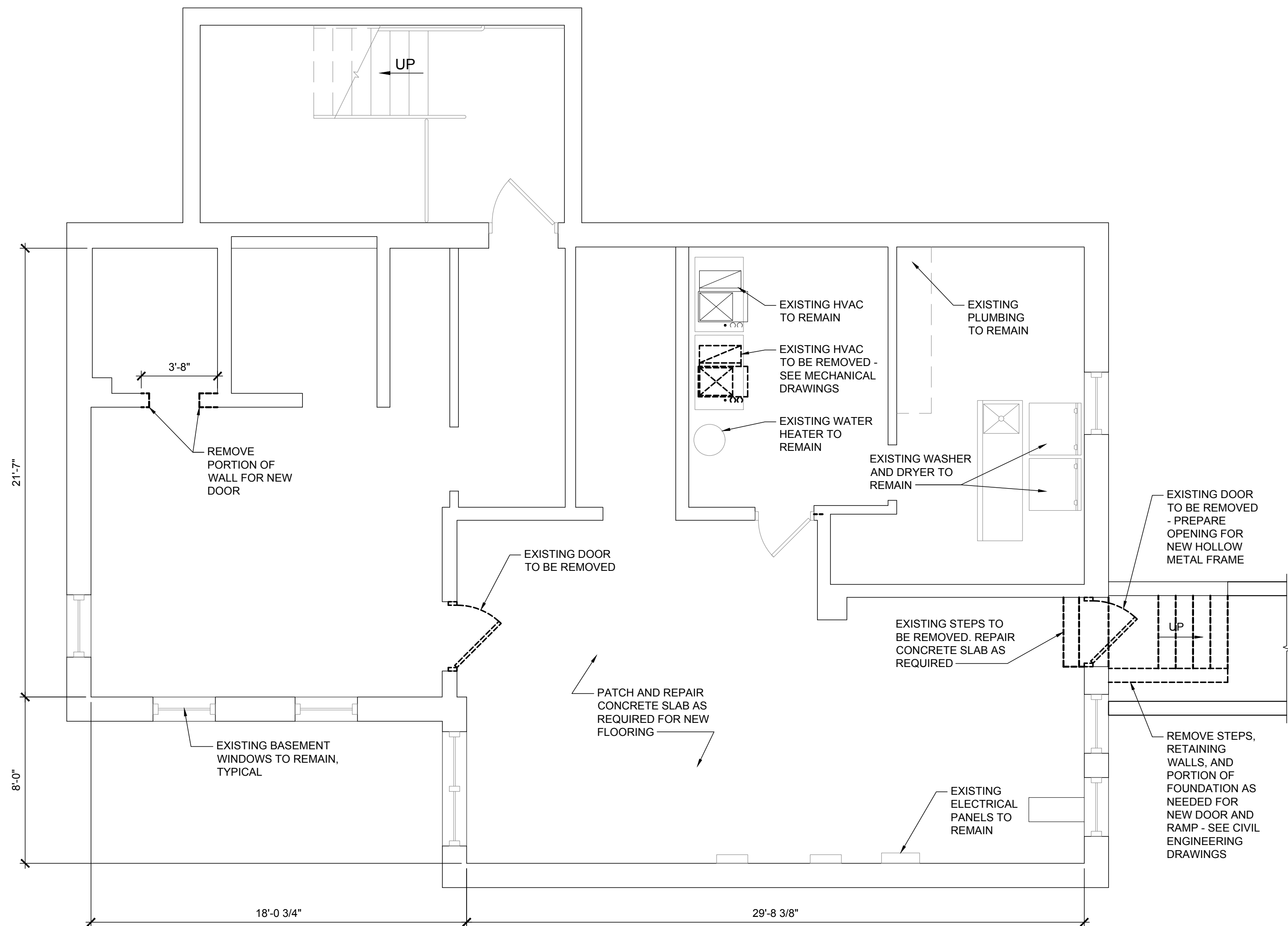


project no.	D2100051
date:	07.21.2021
revision 1:	
revision 2:	
revision 3:	
revision 4:	
checked:	CM
drawn:	JB









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



## DEMOLITION GENERAL NOTES

- THIS PLAN INDICATES A GENERAL DEMOLITION SCOPE OF WORK TO BE PREFORMED AND DOES NOT RELIEVE THE CONTRACTOR FROM OTHER INCIDENTAL DEMOLITION WORK REQUIRED TO COMPLETE THE BUILDING MODIFICATIONS AS SHOWN AND REQUIRED BY THE CONTRACT DOCUMENTS.
- FIELD VERIFICATION OF DEMOLITION ITEMS AND DIMENSIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. TO BE PERFORMED PRIOR TO COMMENCEMENT OF WORK. OWNER AND/OR ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR ERRORS WITH THIS DRAWING.
- CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AS REQUIRED TO MAINTAIN STRUCTURAL STABILITY OF THE EXISTING STRUCTURE DURING ALL PHASES OF CONSTRUCTION.
- SEQUENCING AND PHASING OF DEMOLITION AND CONSTRUCTION TO BE CONFIRMED WITH OWNER PRIOR TO START OF WORK.
- CONTRACTOR IS TO CLEAN UP AND REMOVE ALL DEMOLISHED MATERIALS FROM SITE. THE BUILDING AND EXTERIOR IS TO BE SWEEPED CLEAN DAILY FROM ALL DEMOLISHED MATERIALS.
- PROTECT ALL EXISTING WALLS, FLOORS, CEILINGS, EQUIPMENT, ETC., THAT ARE TO REMAIN, FROM DAMAGE DURING CONSTRUCTION.
- VERIFY ALL DIMENSIONS IN FIELD PRIOR TO START OF WORK.
- CONTRACTOR SHALL PROTECT ALL UTILITIES, I.E. SEWER, WATER, GAS LINES, ELECTRICAL CONDUITS, ETC. THAT ARE TO REMAIN AND SHALL PATCH AND REPAIR ALL ACCIDENTALLY DAMAGED ITEMS - TYPICAL THROUGH-OUT.
- CUTS TO THE CONCRETE FLOOR SLAB SHALL BE CLEANLY SAWCUT IN STRAIGHT/RECTILINEAR RUNS WITH NO OVERCUTS. REMOVE PORTIONS OF SLAB TO NEAREST EXISTING JOINT, AS APPROPRIATE. WHERE MULTIPLE AREAS OF SAWCUT/TRENCHING ARE SHOWN IN CLOSE PROXIMITY, CUTS MAY BE COMBINED.
- THROUGHOUT DURATION OF WORK, OPEN TRENCHES SHALL BE PROTECTED AND COVERED BY STEEL PLATES.
- WHERE ANY PLUMBING, MECHANICAL, REFRIGERATION OR ELECTRICAL ITEMS, LINES, FIXTURES, ETC. HAVE BEEN REMOVED, TERMINATE AND CAP PIPES, CONDUIT LINES, ETC. BELOW FINISH FLOOR, BEHIND FACE OF WALL, OR ABOVE CEILING. REMOVE ABANDONED WIRE BACK TO SOURCE. TERMINATIONS SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CODES.
- PRIOR TO AND DURING DEMOLITION CONTRACTOR SHALL MAINTAIN ALL LIFE SAFETY AND EXIT DEVICES AS REQUIRED BY CITY ORDINANCES. NOTIFY BUILDING OWNER PRIOR TO MOVING OR TAMPERING WITH DEVICES. PROTECT ALL SMOKE DETECTORS FROM CONSTRUCTION DUST AND DEBRIS.
- PROTECT ALL PUBLIC AREAS FROM CONSTRUCTION DEBRIS, DUST, ETC.
- ANY WALL BEING REMOVED SHALL BE CONFIRMED BY THE CONTRACTOR AS BEING NON-LOAD BEARING BEFORE PROCEEDING WITH REMOVAL. IF LOAD-BEARING WALL(S) ARE FOUND DURING CONSTRUCTION, IT SHOULD BE BROUGHT DIRECTLY TO THE OWNER'S PROJECT MANAGER'S ATTENTION BEFORE PROCEEDING WITH THE REMOVAL OF THAT WALL.
- RETAIN ALL REMOVED EQUIPMENT AND FIXTURES FOR REUSE. COORDINATE WITH OWNER.

## DEMOLITION LEGEND




BUILDING ELEMENTS TO BE REMOVED.

DASHED ITEMS INDICATED ON THIS PLAN REPRESENT ARCHITECTURAL ITEMS REMOVED OR REMOVED AND RELOCATED UNLESS OTHERWISE NOTED.



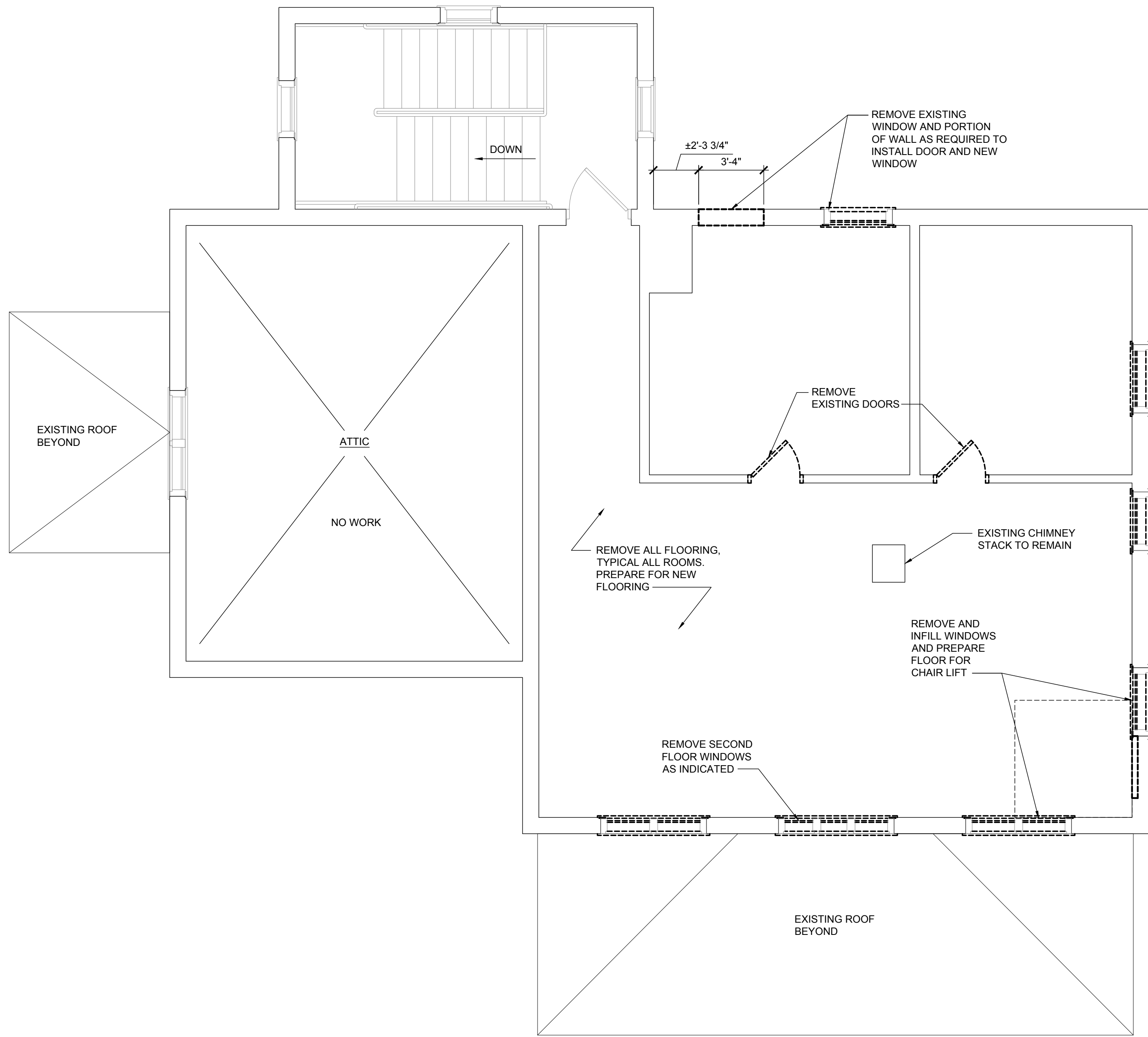


- ### DEMOLITION LEGEND

 BUILDING ELEMENTS TO BE REMOVED.

DASHED ITEMS INDICATED ON THIS PLAN REPRESENT ARCHITECTURAL ITEMS REMOVED OR REMOVED AND RELOCATED UNLESS OTHERWISE NOTED.





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



## DEMOLITION GENERAL NOTES

- THIS PLAN INDICATES A GENERAL DEMOLITION SCOPE OF WORK TO BE PREFORMED AND DOES NOT RELIEVE THE CONTRACTOR FROM OTHER INCIDENTAL DEMOLITION WORK REQUIRED TO COMPLETE THE BUILDING MODIFICATIONS AS SHOWN AND REQUIRED BY THE CONTRACT DOCUMENTS.
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- CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AS REQUIRED TO MAINTAIN STRUCTURAL STABILITY OF THE EXISTING STRUCTURE DURING ALL PHASES OF CONSTRUCTION.
- SEQUENCING AND PHASING OF DEMOLITION AND CONSTRUCTION TO BE CONFIRMED WITH OWNER PRIOR TO START OF WORK.
- CONTRACTOR IS TO CLEAN UP AND REMOVE ALL DEMOLISHED MATERIALS FROM SITE. THE BUILDING AND EXTERIOR IS TO BE SWEEPED CLEAN DAILY FROM ALL DEMOLISHED MATERIALS.
- PROTECT ALL EXISTING WALLS, FLOORS, CEILINGS, EQUIPMENT, ETC., THAT ARE TO REMAIN, FROM DAMAGE DURING CONSTRUCTION.
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- CUTS TO THE CONCRETE FLOOR SLAB SHALL BE CLEANLY SAWCUT IN STRAIGHT/RECTILINEAR RUNS WITH NO OVERCUTS. REMOVE PORTIONS OF SLAB TO NEAREST EXISTING JOINT, AS APPROPRIATE. WHERE MULTIPLE AREAS OF SAWCUT/TRENCHING ARE SHOWN IN CLOSE PROXIMITY, CUTS MAY BE COMBINED.
- THROUGHOUT DURATION OF WORK, OPEN TRENCHES SHALL BE PROTECTED AND COVERED BY STEEL PLATES.
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- RETAIN ALL REMOVED EQUIPMENT AND FIXTURES FOR REUSE. COORDINATE WITH OWNER.

## DEMOLITION LEGEND



BUILDING ELEMENTS TO BE REMOVED.

DASHED ITEMS INDICATED ON THIS PLAN REPRESENT ARCHITECTURAL ITEMS REMOVED OR REMOVED AND RELOCATED UNLESS OTHERWISE NOTED.



THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING REMODEL IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS, DURING ERECTION. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY GUYS, BRACINGS, OR TIE-DOWNS THAT MIGHT BE NECESSARY. SUCH MATERIAL IS NOT SHOWN ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT, AND SHALL REMAIN THE CONTRACTOR'S PROPERTY. THE ENGINEER HAS NO EXPERIENCE IN AND TAKES NO RESPONSIBILITY FOR CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY DURING CONSTRUCTION. PROCESSING AND / OR APPROVING SUBMITTALS MADE BY THE CONTRACTOR WHICH MAY CONTAIN INFORMATION RELATED TO CONSTRUCTION METHODS OR SAFETY ISSUES, OR PARTICIPATION IN MEETINGS WHERE SUCH ISSUES MIGHT BE DISCUSSED, SHALL NOT BE CONSTRUCTED AS VOLUNTARY ASSUMPTION BY THE ENGINEER OF ANY RESPONSIBILITY FOR SAFETY PROCEDURES.

2. IT IS SOLELY THE RESPONSIBILITY OF EACH CONTRACTOR TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE ENGINEER IS NOT ENGAGED IN, AND DOES NOT SUPERVISE CONSTRUCTION.

3. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTORS SHALL COORDINATE THIS INFORMATION WITH THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS SHALL BE BORNE BY THE APPROPRIATE CONTRACTOR.

4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.

5. GOVERNING CODE: INTERNATIONAL BUILDING CODE (IBC) 2015

6. DESIGN LOADS:

DEAD LOADS USED IN DESIGN ARE AS FOLLOWS:

A. ROOF DEAD LOAD	= 22 PSF
B. FLOOR DEAD LOAD	= 23 PSF

LIVE LOADS USED IN DESIGN ARE AS FOLLOWS:

A. ROOF LIVE LOAD	= 20 PSF
B. FLOOR LIVE LOAD (CLASS / OFFICE USE)	= 60 PSF
C. STAIR/RAMP LIVE LOAD	= 100 PSF

SNOW LOADS USED IN DESIGN ARE AS FOLLOWS

A. GROUND SNOW LOAD	= 25 PSF
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WIND LOADS USED IN DESIGN ARE AS FOLLOWS:

A. BASIC WIND SPEED (3 SECOND GUST)	= 115 MPH
B. BUILDING OCCUPANCY CATEGORY	= II
C. WIND EXPOSURE	= C
D. DIRECTIONAL DESIGN WIND PRESSURE (WALLS)	= 22 PSF
E. DIRECTIONAL DESIGN WIND PRESSURE (RAMP)	= 30 PSF

SEISMIC LOADS USED IN DESIGN ARE AS FOLLOWS:

A. MAPPED ACCELERATION PARAMETERS	$S_s = 0.14, S_1 = 0.061$
B. DESIGN SPECTRAL ACCELERATION PARAMETERS	$S_{D1} = 0.149, S_{D2} = 0.098$
C. SEISMIC IMPORTANCE FACTOR	$I_e = 1.0$
D. SITE CLASS	= D
E. SEISMIC DESIGN CATEGORY	= B

1. SUBGRADE UNDERCUT AND SOIL PREPARATION SHALL BE PERFORMED AS REQUIRED TO ACHIEVE MIN. NET ALLOWABLE SOIL BEARING PRESSURE. ALL FOOTINGS SHALL BE CONSTRUCTED UPON ENGINEERED FILL WITH A MINIMUM NET ALLOWABLE BEARING CAPACITY OF 1500 PSF. NO GEOTECHNICAL REPORT PROVIDED.
2. ON INFORMATION WAS PROVIDED ON THE EXISTING BUILDING FOUNDATION. EXISTING FOUNDATIONS ARE NOT VERIFIED AS THIS IS OUTSIDE THE SCOPE OF WORK.
3. THE SOIL SUBGRADE FOR ALL FOOTINGS AND PIERS SHALL BE INSPECTED AND APPROVED BY THE OWNER'S TESTING AGENCY IMMEDIATELY PRIOR TO PLACING FOUNDATION CONCRETE.
4. THE FOUNDATION SUBGRADE SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT (ASTM D1557). FILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 8" BEFORE COMPACTION.
5. ALL ORGANIC AND / OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM FOUNDATION SUBGRADE AND BACKFILL AREAS, AND THEN BACKFILLED WITH ACCEPTABLE GRANULAR FILL COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT (ASTM D1557).
6. NO FOOTINGS SHALL BE PLACED INTO OR AGAINST SUBGRADES CONTAINING FREE WATER, FROST, OR ICE. SHOULD WATER OR FROST ENTER A FOOTING EXCAVATION AFTER SUBGRADE APPROVAL, THE SUBGRADE SHALL BE REINSPECTED BY THE OWNER'S SOIL TESTING LABORATORY AFTER REMOVAL OF WATER, FROST, OR ICE.
7. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY FOOTING OR STRUCTURAL/MUD SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE, AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE.
8. THE CONCRETE FOR EACH ISOLATED PIER FOOTING SHALL BE PLACED IN ONE (1) CONTINUOUS POUR.
9. ALL EXTERIOR WALLS AND COLUMN FOOTINGS SHALL BEAR A MINIMUM OF 3'-6" BELOW THE FINISHED GRADES SHOWN ON THE CIVIL DRAWINGS.

1. RETAINED SOIL TYPE: MEDIUM DENSE WELL GRADED SAND.
  - A. MOIST DENSITY = 135 PCF
  - B. SATURATED DENSITY = 145 PCF
  - C. EFFECTIVE ANGLE OF INTERNAL RESISTANCE = 30°
2. BASE SOIL TYPE: MEDIUM DENSE WELL GRADED SAND.
  - A. SOIL DENSITY = 115 PCF
  - B. EFFECTIVE ANGLE OF INTERNAL RESISTANCE = 30°
  - C. NET ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF
3. COULOMB COEFFICIENTS
  - A. ACTIVE PRESSURE COEFFICIENT  $K_a = 0.333$
  - B. PASSIVE PRESSURE COEFFICIENT  $K_p = 4.977$

1. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND MINIMIZE SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE OR OUTSIDE THE PROJECT LIMITS, ANY DAMAGE TO NEW OR EXISTING CONSTRUCTION, INSIDE OR OUTSIDE OF THE PROJECT LIMITS, CAUSED BY CONSTRUCTION TECHNIQUES OR MOVEMENTS OF SOIL SURROUNDING THE GENERAL EXCAVATION, IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. ALL EXCAVATIONS SHALL BE BASED UPON ENGINEERED DRAWINGS PREPARED BY THE CONTRACTOR INCLUDING PLANS AND SECTIONS OF EXCAVATION SEQUENCES.
3. THE GENERAL EXCAVATION ACROSS THE SITE SHALL NOT EXTEND DEEPER THAN THE SLAB-ON-GRADE SUBGRADE ELEVATION. THE EXCAVATIONS FOR SPREAD FOOTINGS, PITS, AND TRENCHES SHALL BE EXCAVATED ON AN INDIVIDUAL, LOCALIZED BASIS DOWN FROM THE SLAB-ON-GRADE SUBGRADE. THE LAST 6 INCHES OF EACH EXCAVATION SHALL BE HAND EXCAVATED TO A TRIM, LEVEL SURFACE.
4. ALL EXCAVATION BELOW THE SLAB LEVEL REQUIRED FOR PITS AND TRENCHES SHALL BE RETAINED BY LOCALIZED SOIL RETENTION SYSTEMS, AS MAY BE NECESSARY, BASED ON THE CONTRACTOR'S DESIGN USING APPROPRIATE EARTH AND HYDRAULIC PRESSURES AND THE CONSTRUCTION LOADINGS.
5. THE CONTRACTORS SHALL PROVIDE POSITIVE PROTECTION (MAT / SHEET COVERINGS), FOR ALL EXCAVATION SLOPES, TO PROTECT SLOPES FROM INSTABILITY AND DETEIORATION DUE TO RAIN, WIND, OR SNOW / ICE.
6. THE CONTRACTOR SHALL PROVIDE SURFACE DRAINAGE CHANNELS AND SUMPS AND SUMP PUMPS TO PROTECT ALL EXCAVATIONS FROM FLOODING. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF ANY SUBGRADE WILL BE CAUSE OF COMPLETE REMOVAL OF CONCRETE MUD SLABS, AND THE COMPLETE REPARATION AND APPROVAL OF THE SUBGRADE.
7. THE SITE SHALL BE DEWATERED, AS REQUIRED, BEFORE (OR AS) THE EXCAVATION PROCEEDS. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION AND EQUIPMENT FOR THE DEWATERING SYSTEM. AT ALL TIMES, THE DEWATERING SYSTEM SHALL MAINTAIN THE WATER LEVEL A MINIMUM OF 3 FEET BELOW THE DEEPEST FOUNDATION SUBGRADE. THE DEWATERING SYSTEM SHALL BE MAINTAINED UNTIL THE GROUND FLOOR SLAB IS IN PLACE AND THE PERMANENT BUILDING DRAINAGE SYSTEM IS FULLY OPERATIONAL.

ALL CAST-IN-PLACE CONCRETE SHALL BE OF THE TYPES AND HAVING MINIMUM 28-DAY COMpressive STRENGTHS AS FOLLOWS:

• RETAINING WALL FOOTINGS:	4,000 PSI
• RAMP PIERS:	4,000 PSI
• MISCELLANEOUS FILLS AND PADS:	4,000 PSI

2. ALL CONCRETE SHALL CONTAIN AN APPROVED WATER REDUCING PLASTICIZING ADMIXTURE. APPROVED, HIGH-RANGE, WATER REDUCING ADMIXTURES MAY BE UTILIZED. ALL CONCRETE FOR PERIMETER FOUNDATION WALLS AND OTHER EXTERIOR EXPOSED CONCRETE SHALL ALSO CONTAIN AN APPROVED AIR-ENTRAINING ADMIXTURE.

3. ALL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO THE STANDARDS OF ASTM A615, GRADE 60 (Fy = 60,000 PSI).

4. ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED, SPACED IN FORMS, AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318, AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315.

5. THE CONTRACTOR SHALL SUBMIT CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING, PLACEMENT, AND SUPPORT DETAILS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.

6. WHERE REQUIRED, DOWELS SHALL MATCH THE SIZE AND NUMBER OF MAIN REINFORCING, UNLESS NOTED OTHERWISE.

7. ALL CONSTRUCTION JOINTS SHALL BE WIRE BRUSHED, CLEANED AND MOISTENED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.

8. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.

9. ALL BAR SUPPORTS SHALL BE GALVANIZED. BAR SUPPORTS IN CONTACT WITH EXPOSED SURFACES SHALL ALSO BE PLASTIC TIPPED.

10. FOOTINGS SHALL NOT BE SLEEVED OR BOXED-OUT OR HAVE THE REINFORCING INTERRUPTED, EXCEPT AS SHOWN ON THE STRUCTURAL DRAWINGS.

11. FOOTINGS AND PIERS:

A. PROVIDE DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING, U.N.O.

B. CAST IN CONTINUOUS DOVETAIL ANCHOR SLOTS ON VERTICAL SURFACES WHERE MASONRY ABUTS, 16 INCHES O.C. PARALLEL SURFACES AT CENTERLINE OF MASONRY FOR PERPENDICULAR SURFACES.

C. PROVIDE LEAN CONCRETE (CLASS IV) UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES.

12. SPLICES - ALL REINFORCING SPLICES SHALL CONFORM TO THE REQUIREMENTS OF ACI 318. UNLESS NOTED OTHERWISE, MINIMUM LAP SPlice LENGTHS SHALL BE AS FOLLOWS:

A. VERTICAL BARS IN PIERS, (INCLUDING DOWELS):	48 BAR DIAMETERS
B. HORIZONTAL BARS IN SLABS & FOOTINGS:	48 BAR DIAMETERS

13. CONSTRUCTION JOINTS:

A. CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE SHOWN ON THE CONTRACT DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER. ALL CONSTRUCTION JOINTS SHALL BE KEYED. KEYWAYS SHALL BE 1-1/2 INCHES DEEP X 1/3 MEMBER THICKNESS.

14. CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS:

A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3 INCHES
B. CONCRETE EXPOSED TO EARTH OR WEATHER:	1-1/2 INCHES
• #6 BARS THROUGH #18 BARS	2 INCHES
• #5 BARS AND SMALLER OTHERS	1-1/2 INCHES
C. SLABS, JOINTS, AND WALLS NOT EXPOSED TO EARTH OR WEATHER:	
• #14 BARS AND #18 BARS	1-1/2 INCHES
• #11 BARS AND SMALLER	3/4 INCH
D. BEAMS, COLUMNS, PEDESTALS, AND TENSION TIES NOT EXPOSED TO EARTH OR WEATHER:	1-1/2 INCHES

1. EXISTING BUILDING INFORMATION SHOWN IS DIAGRAMMATIC AND BASED UPON HAND MEASURED FIELD DIMENSIONS OF VISIBLE ELEMENTS ONLY. CONTRACTOR SHALL FIELD VERIFY THAT THE EXISTING CONSTRUCTION ADJACENT TO THIS CONSTRUCTION, OR TO WHICH THIS CONSTRUCTION SHALL BE ADJACENT, IS IN CONFORMITY WITH THE EXISTING DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS ON SITE PRIOR TO ORDERING ANY MATERIALS OR PERFORMING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSIONS WHICH MAY INDEEDLY OCCUR SHALL BE SUBMITTED TO THE ARCHITECT FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREA.
2. BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING FACILITY, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING STRUCTURAL AND OTHER CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN.
3. PRIOR TO THE SUBMISSIONS OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE STRUCTURAL DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER OF THE PROJECT PRIOR TO BIDDING. IF A DISCREPANCY IS FOUND, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF THE CONTRACTOR NOT HAVING FULLY INFORMED HIMSELF PRIOR TO BIDDING.
4. EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED IN FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IF SIGNIFICANT DEVIATIONS OR DETERIORATION ARE ENCOUNTERED AT THE TIME OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL SHORING NECESSARY TO SAFEGUARD THE EXISTING STRUCTURE. THE SHORING SHOWN IS A PARTIAL AND SCHEMATIC REPRESENTATION OF THAT REQUIRED.

1. IN THE EVENT OF DAMAGE, TO THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS AND REPAIRS AT NO ADDITIONAL COST TO THE CLIENT AND/OR BUILDING OWNER.
2. EXISTING INTERIOR OR EXTERIOR FACADES REMOVED FOR WALL OPENINGS OR ANY OTHER REMODELING WORK SHALL BE REPLACED TO MATCH THE EXISTING CONDITIONS.
3. CUTTING AND PATCHING: WHERE EXISTING ELEMENTS OF THE BUILDING ARE REQUIRED TO BE CUT TO FIT, ALTERED OR REMOVED, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO OTHER PORTIONS OF THE EXISTING BUILDING, INCLUDING, BUT NOT LIMITED TO, THE SHORING, BRACING AND SUPPORT REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY. UPON COMPLETION OF THE WORK, ALL EXISTING MATERIALS, SYSTEMS AND ASSEMBLIES SHALL BE REPLACED, REPAIRED, OR REFIT TO MATCH OR EXCEED THE FIT, FINISH AND PERFORMANCE OF PREVIOUS CONDITIONS. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS WHICH AFFECT SAFETY, STRUCTURAL INTEGRITY OR WATER TIGHTNESS OF THE BUILDING ARE CORRECTED.
4. PROTECTIONS: PROTECT WITH TEMPORARY BARRICADES, COVERINGS, OR OTHER PROTECTIONS TO PREVENT INJURY OR DAMAGE TO PERSONS OR PROPERTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY HIS/HER OPERATIONS.

## TEMPORARY SHORING NOTES

1. THE SHORING AND TEMPORARY BRACING DESIGN IS THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR. TEMPORARY BRACING AND SHORING FOR WALLS, COLUMNS, SLABS, BEAMS, GIRDERS, AND TRUSSES SHALL BE ADEQUATE TO CARRY THE TOTAL WEIGHT OF THE STRUCTURAL SYSTEM AND ANY TEMPORARY CONSTRUCTION LOADS TO BE IMPOSED ON THE STRUCTURAL SYSTEM.
2. THE STRUCTURE HAS BEEN DESIGNED FOR THE IN-SERVICE LOADS ONLY. CONTRACTOR SHALL PROVIDE AND MAINTAIN ANY TEMPORARY BRACING, SHORING, GUYING, AND OTHER METHODS IN ORDER TO PREVENT EXCESSIVE STRESSES AND HOLD STRUCTURAL ELEMENTS TRUE AND IN PLACE DURING CONSTRUCTION. THESE PROVISIONS SHALL REMAIN IN PLACE AT ALL STAGES OF CONSTRUCTION UNTIL SUFFICIENT PERMANENT MEMBERS ARE CONSTRUCTED TO INSURE THE SAFETY, STABILITY AND INTEGRITY OF THE STRUCTURE.
3. THE TEMPORARY SHORING WILL BE REMOVED AFTER PROPER INSTALLATION OF THE MODIFIED STRUCTURE.

1. SPECIFICATIONS:

- A. MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-LATEST VERSION)" PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, DETROIT, MICHIGAN, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.

2. MATERIALS:

- A. CONCRETE BLOCK: ASTM C90. MINIMUM NET AREA COMPRESSIVE STRENGTH OF C.M.U. = 2800 PSI.
- B. MORTAR: ASTM C270 (USING THE PROPERTY SPECIFICATION METHOD, PARAGRAPH 3.2), TYPE "S", MINIMUM COMPRESSIVE STRENGTH = 2000 PSI.
- C. BOND BEAM AND CORE FILL: ASTM C478, COARSE OR FINE TYPE, PLACED PER ACI 530, TABLE 5.
- D. JOINT REINFORCING: HOT DIPPED GALVANIZED FINISH, 9 GAUGE MINIMUM SIDE WIRES AND CROSS WIRES.
- E. BAR REINFORCING: ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
- F. WIRE TIES AND ANCHORS: RECTANGULAR TYPE, 3/4" DIA. WIRE TIES (HOT DIPPED GALVANIZED).
- G. 1m OF MASONRY SHALL MEET OR EXCEED 2250 PSI.

3. TESTING:

- A. NOT LESS THAN FIVE PRISMS SHALL BE BUILT AND TESTED IN ADVANCE OF CONSTRUCTION OF EACH TYPE OF WALL CONSTRUCTION WITH THE SAME BONDING, MOISTURE CONTENT, MORTAR CONSISTENCY AND THICKNESS OF MORTAR AS WILL BE USED IN STRUCTURE.
- B. ALL PRISMS SHALL NOT BE LESS THAN 16" IN HEIGHT AND SHALL HAVE A HEIGHT-TO-THICKNESS RATIO OF NOT LESS THAN TWO NOR MORE THAN FIVE.
- C. THE ENDS OF EACH PRISM SHALL BE CAPPED WITH A SUITABLE MATERIAL TO PROVIDE BEARING SURFACES PLANE IN 0.003" AND APPROXIMATELY PERPENDICULAR TO THE AXIS OF THE PRISM.
- D. A MINIMUM OF ONE FIELD TEST SPECIMEN SHALL BE MADE DURING CONSTRUCTION FOR EACH 2000 SQ. FT. OF WALL.
- E. PRISMS SHALL BE STORED IN AIR AT A TEMPERATURE NOT LESS THAN 65 DEGREES AND SHALL BE TESTED AFTER PLANE IN 0.003" AND APPROXIMATELY PERPENDICULAR TO THE AXIS OF THE PRISM. RELEVANT PROVISIONS OF STANDARD METHODS OF TEST FOR COMPRESSIVE STRENGTH OF MOLDED CONCRETE CYLINDERS ASTM C39-68.

4. CONSTRUCTION:

- A. LAY MASONRY PLUMB AND TRUE TO LINES.
- B. LAY WITH COMPLETELY FILLED MORTAR JOINTS.
- C. DO NOT FURROW BED JOINTS.
- D. BUTTER ENDS OF MASONRY WITH SUFFICIENT MORTAR TO FILL HEAD JOINTS.
- E. FILL VERTICAL, LONGITUDINAL, JOINTS BY PARGING OR SHOING (DO NOT SLUSH JOINTS).
- F. PROVIDE 100% SOLID BEARING 2'-0" HIGH X 1'-4" LONG (MIN.) UNDER ALL LINTEL BEARING ENDS.
- G. USE CONTINUOUS PREFABRICATED JOINT REINFORCEMENT TO BOND WYTHES; SPACED NOT MORE THAN 16" VERTICALLY.
- H. ALL BOND BEAMS SHALL BE CONCRETE FILLED ACCORDING TO THESE NOTES AND SHALL HAVE A MIN. OF 2-#5 CONTINUOUS REINFORCING CONFORMING TO ASTM A615 GRADE 60. A BOND BEAM SHALL BE PLACED AT ALL SILLS AND TOP OF WALLS.
- I. ALL STEEL LINTELS IN EXTERIOR WALLS SHALL BE HOT DIPPED GALVANIZED.
- J. ALL LINTELS AND STEEL CONSTRUCTION ADJACENT TO OR ABUTTING MASONRY SHALL BE PROVIDED WITH GALVANIZED MASONRY TIES AT 16" O.C.
- K. ALL MASONRY WALL OPENINGS SHALL HAVE A LINTEL PER THE LINTEL SCHEDULE WITH A MINIMUM BEARING LENGTH OF 8' U.N.O.

5. REINFORCING:

- A. EXTENT OF EACH TYPE OF REINFORCED UNIT MASONRY WORK IS INDICATED ON DRAWINGS AND IN SCHEDULES.
- B. PROVIDE GRADE 60 FOR BARS NO. 3 TO NO. 18, EXCEPT AS OTHERWISE INDICATED.
- C. CLEAN REINFORCEMENT LOOSE RUST, MILL SCALE, EARTH, ICE OR OTHER MATERIALS WHICH WILL

1. ALL STRUCTURAL STEEL ANGLES & PLATES SHALL BE A36 ( $F_y = 36$  KSI), UNLESS NOTED OTHERWISE.
2. ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS AND CODES, LATEST EDITION.
3. THE CONTRACTOR SHALL SUBMIT DETAILED, COORDINATED AND CHECKED SHOP DRAWINGS FOR ALL STRUCTURAL STEEL TO THE ENGINEER FOR REVIEW PRIOR TO THE START OF FABRICATION AND / OR ERECTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES ESPECIALLY WITH RELATION TO TEMPERATURE DIFFERENTIALS AND ERECTION TOLERANCES.
5. LINTELS SHALL BE PROVIDED FOR ALL OPENINGS AS INDICATED ON THE DRAWINGS. IN ADDITION, LINTELS ARE REQUIRED FOR MECHANICAL, ELECTRICAL, OR PLUMBING OPENING IN A MASONRY WALL WITH A WIDTH GREATER THAN 12".
6. LINTELS SHALL HAVE A MINIMUM BEARING OF 8 INCHES ON EACH SIDE, UNLESS OTHERWISE NOTED.

1. ALL WOOD NOT SPECIFIED ABOVE SHALL COMPLY WITH THE STANDARDS SET FORTH BY THE AMERICAN FOREST AND PAPER ASSOCIATION, AND THE AMERICAN WOOD COUNCIL.

2. NON-LOAD-BEARING INTERIOR PARTITIONS: CONSTRUCTION OR NO. 2 GRADE.

- A. MIXED SOUTHERN PINE, SPIB
- B. DOUGLAS FIR-LARCH, WCLIB OR WWPA
- C. SPRUCE-PINE-FIR, NLGA
- D. NORTHERN SPECIES, NLGA
- E. EASTERN SOFTWOODS, NeLMA
- F. WESTERN WOODS, WCLIB OR WWPA

3. FRAMING OTHER THAN NON-LOAD-BEARING INTERIOR PARTITIONS: NO. 1 GRADE.

- A. HEM-FIR (NORTH), NLGA
- B. SOUTHERN PINE, SPIB
- C. DOUGLAS FIR-LARCH, WCLIB OR WWPA
- D. MIXED SOUTHERN PINE, SPIB
- E. SPRUCE-PINE-FIR, NLGA
- F. DOUGLAS FIR-SOUTH, WWPA
- G. HEM-FIR, WCLIB OR WWPA
- H. DOUGLAS FIR-LARCH (NORTH), NLGA
- I. SPRUCE-PINE-FIR (SOUTH), NeLMA, WCLIB, OR WWPA

4. 2" - 4" FRAMING OTHER THAN NON-LOAD-BEARING INTERIOR PARTITIONS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

- $F_b = 850$  PSI                       $F_{c \text{ para}} = 1050$  PSI
- $F_v = 135$  PSI                       $F_{c \text{ perp}} = 335$  PSI
- $E_m = 1500$  KSI

5. ALL WOOD BEAMS OTHER THAN MANUFACTURED WOOD BEAMS SHALL BE THE FOLLOWING GRADE AND SPECIES: NO. 1 GRADE.

- A. SOUTHERN PINE, SPIB
- B. DOUGLAS FIR-LARCH, WCLIB OR WWPA
- C. MIXED SOUTHERN PINE, SPIB
- D. DOUGLAS FIR-SOUTH, WWPA
- E. DOUGLAS FIR-LARCH (NORTH), NLGA

6. ALL WOOD BEAMS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

- $F_b = 900$  PSI                       $F_{c \text{ para}} = 550$  PSI
- $F_v = 125$  PSI                       $F_{c \text{ perp}} = 335$  PSI
- $E_m = 1200$  KSI

7. ALL WOOD POSTS OTHER THAN MANUFACTURED WOOD POSTS SHALL BE THE FOLLOWING GRADE AND SPECIES: NO. 1 GRADE.

- A. HEM-FIR (NORTH), NLGA
- B. SOUTHERN PINE, SPIB
- C. DOUGLAS FIR-LARCH, WCLIB OR WWPA
- D. MIXED SOUTHERN PINE, SPIB
- E. DOUGLAS FIR-SOUTH, WWPA
- F. HEM-FIR, WCLIB OR WWPA
- G. DOUGLAS FIR-LARCH (NORTH), NLGA

1. ALL PARALLAM 1.8E COLUMNS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
  - $F_y = 2400 \text{ PSI}$
  - $F_u = 190 \text{ PSI}$
  - $E_m = 1800 \text{ KSI}$
  - $F_{C \text{ para}} = 2500 \text{ PSI}$
  - $F_{C \text{ perp}} = 545 \text{ PSI}$
2. ALL PARALLAM 2.0E BEAMS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
  - $F_y = 2900 \text{ PSI}$
  - $F_u = 250 \text{ PSI}$
  - $E_m = 2000 \text{ KSI}$
  - $F_{C \text{ para}} = 2900 \text{ PSI}$
  - $F_{C \text{ perp}} = 625 \text{ PSI}$
3. CONTRACTOR TO PROVIDE BRACING AS NEEDED FOR SAFE INSTALLATION AND ERECTION OF THE MEMBERS.

1. ALL SPECIFIED FASTENERS MUST BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. INCORRECT FASTENER QUANTITY, SIZE, PLACEMENT, TYPE, MATERIAL, OR FINISH MAY CAUSE PRODUCT TO FAIL.
  - A. 16d FASTENERS ARE COMMON NAILS (0.162" DIA. X 3 1/2" LONG) FOR FULL LOAD VALUE, UNLESS OTHERWISE NOTED.
  - B. WHEN USING STAINLESS STEEL CONNECTORS, USE STAINLESS STEEL FASTENERS. WHEN USING ZMAX/HDG GALVANIZED CONNECTORS, USE FASTENERS GALVANIZED PER ASTM A153.
  - C. SCREWS MAY NOT BE USED TO REPLACE NAILS IN CONNECTORS.
2. FILL ALL FASTENER HOLES AS SPECIFIED PER THE MANUFACTURER'S RECOMMENDATIONS, SPECIFIC FOR THAT PRODUCT.
3. DO NOT OVERDRIVE NAILS. OVERDRIVEN NAILS REDUCE SHEAR CAPACITY.
4. USE THE MATERIALS SPECIFIED IN THE INSTALLATION INSTRUCTIONS. SUBSTITUTIONS OF OR FAILURE TO USE SPECIFIED MATERIALS MAY CAUSE THE PRODUCT TO FAIL.
5. DO NOT ADD FASTENER HOLES OR OTHERWISE MODIFY "SIMPSON STRONG-TIE COMPANY, INC." PRODUCTS. THE PERFORMANCE OR MODIFIED PRODUCTS MAY BE SUBSTANTIALLY WEAKENED. SIMPSON WILL NOT WARRANT OR GUARANTEE THE PERFORMANCE OF SUCH MODIFIED PRODUCTS.
6. DO NOT ALTER INSTALLATION PROCEDURES FROM THOSE SET FORTH BY THE MANUFACTURER.
7. BOLT HOLES SHALL BE AT LEAST A MINIMUM OF 1/32" AND NO MORE THAN A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER (PER THE 2015 NDS, SECTION 11.1.1 AND AISI NASPC, SECTION E3a, IF APPLICABLE).
8. SIMPSON STRONG-TIE CONNECTORS ARE SPECIFICALLY REQUIRED TO MEET THE STRUCTURAL CALCULATIONS OF PLAN. BEFORE SUBSTITUTING ANOTHER BRAND, CONFIRM LOAD CAPACITY BASED ON RELIABLE PUBLISHED TESTING DATA CALCULATIONS. THE ENGINEER/DESIGNER OF RECORD SHOULD EVALUATE AND GIVE WRITTEN APPROVAL FOR SUBSTITUTION PRIOR TO INSTALLATION.



SPECIAL INSPECTION AND TESTING (IBC 2015 - 1704-1706)

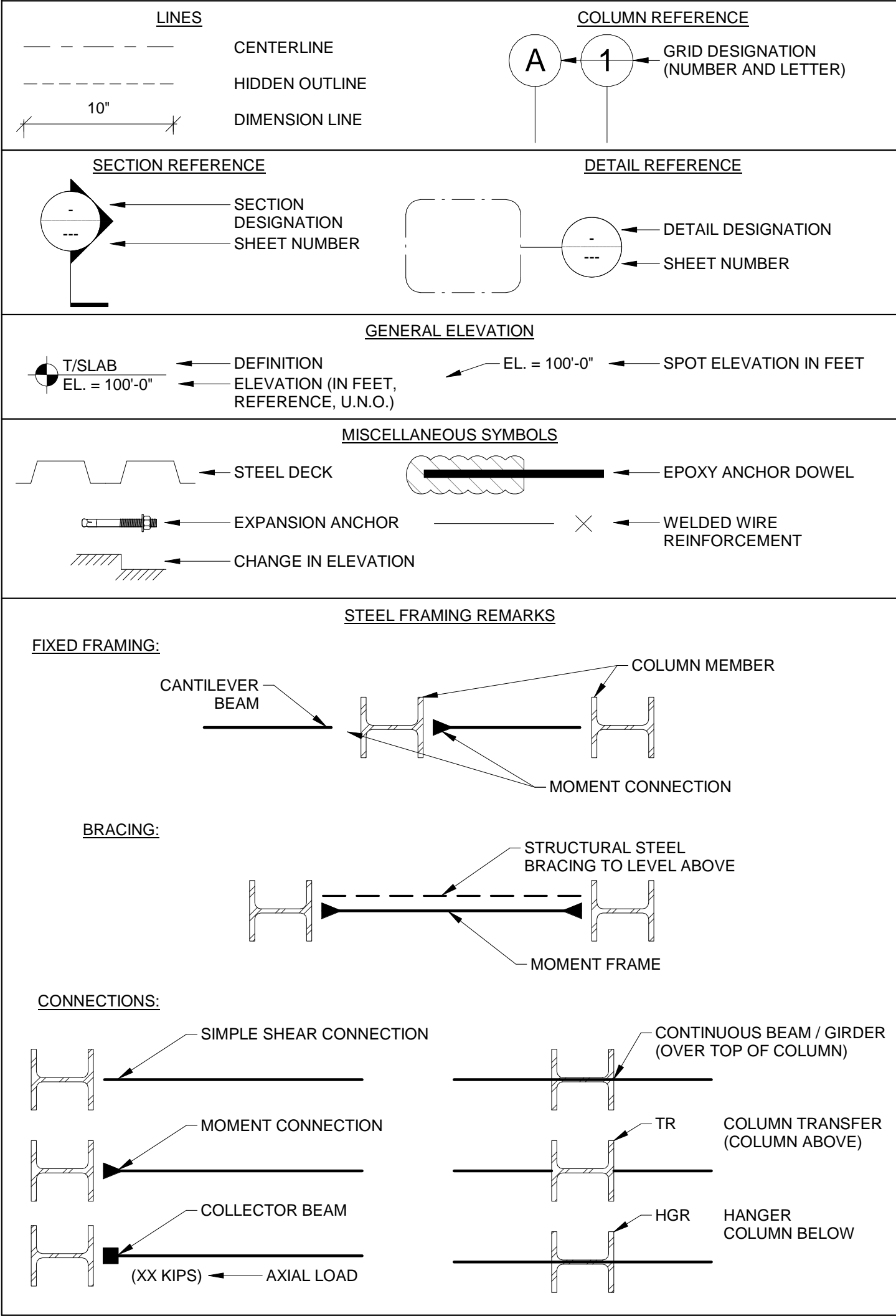
1. ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND INSPECTION AGENCY. THE SPECIAL INSPECTOR FROM THIS TESTING AGENCY SHALL OBSERVE THE WORK FOR CONFORMANCE TO THE DESIGN DRAWINGS AND SPECIFICATIONS.
2. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL. THE ENGINEER AND ARCHITECT OF RECORD, AND ALL OTHER DESIGNATED INDIVIDUALS, ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL, IF NOT CORRECTED.
3. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS, SPECIFICATIONS, SOILS REPORT, AND APPLICABLE WORKMANSHIP PROVISIONS OF THE INTERNATIONAL BUILDING CODE.
4. JOB SITE VISITS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT CONSTITUTE AN OFFICIAL SPECIAL INSPECTION.
5. THE FOLLOWING ITEMS MARKED "X" REQUIRE SPECIAL INSPECTIONS: (REFER TO IBC DESIGNATED ABOVE FOR FURTHER INFORMATION)

VERIFICATION AND INSPECTION		INSPECTION FREQUENCY	
		CONTINUOUS	PERIODIC
D			
CONCRETE CONSTRUCTION - 1705.3			
1	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT		X
2	REINFORCING BAR WELDING:	X	
a	VERIFY WELABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X
b	INSPECT SINGLE PASS FILLET WELDS, MAXIMUM 5/16"		X
c	INSPECT ALL OTHER WELDS	X	
3	INSPECT ANCHORS CAST IN CONCRETE		X
4	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:		
a	ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	
b	MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a		X
5	VERIFY USE OF REQUIRED DESIGN MIX		X
6	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM LUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	
7	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	
8	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X
9	INSPECT PRESTRESSED CONCRETE:		
a	APPLICATION OF PRESTRESSING FORCES	X	
b	GROUTING OF BONDED PRESTRESSING TENDONS	X	
10	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		X
11	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X
12	INSPECT FORMWORK FOR LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X
E			
MASONRY CONSTRUCTION - LEVEL B - 1705.4			
1	PRIOR TO CONSTRUCTION:		X
a	REVIEW MATERIAL CERTIFICATES, MIX DESIGNS, TEST RESULTS AND CONSTRUCTION PROCEDURES		
2	AS CONSTRUCTION BEGINS:		
a	PROPORTIONS OF SITE-PREPARED MORTAR	X	
b	CONSTRUCTION OF MORTAR JOINTS		X
c	GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		X
d	LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		X
e	PRESTRESSING TECHNIQUE		X
f	PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X	X
3	PRIOR TO GROUTING:		
a	GROUT SPACE		X
b	GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		X
c	PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		X
d	PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		X
e	CONSTRUCTION OF MORTAR JOINTS		X
4	DURING MASONRY CONSTRUCTION:		
a	SIZE AND LOCATION OF STRUCTURAL ELEMENTS		X
b	TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X
c	WELDING OF REINFORCEMENT	X	
d	PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (<40°F) OR HOT WEATHER (>90°F)		X
e	APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X	
f	PLACEMENT OF GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X	
9	PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X	X
h	OBSERVATION OF GROUT SPECIMENS, MORTAR SPECIFMENS, AND/OR PRISMS		X
5	MINIMUM TESTING:		
a	VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) FOR SELF-CONSOLIDATING GROUT		
b	VERIFICATION OF f <sub>m</sub> AND f <sub>AAC</sub>		
G			
WOOD CONSTRUCTION - 1705.5			
1	HIGH-LOAD DIAPHRAGMS		X
2	METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING 60 FEET OR GREATER		X
3	FIELD GLUING	X	
4	NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS		X
H			
SOILS - 1705.6			
1	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X
2	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X
3	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X
4	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	
5	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X

ABBREVIATIONS

<	ANGLE	FD	FLOOR DRAIN	PERP	PERPENDICULAR																																																																														
AB	ANCHOR BOLT	FDN	FOUNDATION	PLWD	PLYWOOD																																																																														
ADDL	ADDITIONAL	FIN	FINISH	PP	PARTIAL PENETRATION																																																																														
ALT	ALTERNATE	FLR	FLOOR	PREFAB	PREFABRICATED																																																																														
ARCH	ARCHITECTURAL	FRP	FIBERGLASS	PSF	POUNDS PER SQUARE FOOT																																																																														
B OR BOT	BOTTOM	FRP	REINFORCED PLASTIC	PSI	POUNDS PER SQUARE INCH																																																																														
B/	BOTTOM OF	FTG	FOOTING	PSL	PARALLEL STRAND LUMBER																																																																														
BLDG	BUILDING	F/	FACE OF	PT	POST-TENSIONED																																																																														
BLKG	BLOCKING	GA	GAGE	PT	PRESSURE TREATED																																																																														
BMU	BRICK MASONRY UNIT	GALV	GALVANIZED	R	RADIUS																																																																														
BP	BASEPLATE	GEOTECH	GEOTECHNICAL	RD	ROOF DECK																																																																														
BRB	BUCKLING RESISTING BRACED	GL	GLUE LAMINATED TIMBER	REF	REFER / REFERENCE																																																																														
BRG	BEARING	GWB	GYP SUM WALL BOARD	REINF	REINFORCING																																																																														
BTWN	BETWEEN	H	HEADER	REQD	REQUIRED																																																																														
C	CENTERLINE	HF	HEM-FIR	RET	RETAINING																																																																														
CB	CAMBER	HGR	HANGER	RTU	ROOF TOP UNIT																																																																														
CIP	CAST IN PLACE	HD	HOLD-DOWN	SC	STEEL COLUMN																																																																														
C.J.	CONSTRUCTION OR CONTROL JOINT	HP	HIGH POINT	SCB	SPECIAL CONCENTRIC BRACED																																																																														
CJP	COMPLETE JOINT	HSS	= TS (HOLLOW STRUCTURAL SECTION)	SCHED	SCHEDULE																																																																														
CLR	PENETRATION CLEAR	IBC	INTERNATIONAL BUILDING CODE	SHTHG	SHEATHING																																																																														
CMU	CONCRETE MASONRY UNIT	ID	INSIDE DIAMETER	SIM	SIMILAR																																																																														
COL	COLUMN	IE	INVERT ELEVATION	SNF	SPECIAL MOMENT FRAME																																																																														
CONC	CONCRETE	INT	INTERIOR	SOG	SLAB ON GRADE																																																																														
CONN	CONNECTION	k	KIPS	SPEC	SPECIFICATION																																																																														
CONST	CONSTRUCTION	KSF	KIPS PER SQUARE FOOT	SQ	SQUARE																																																																														
CONT	CONTINUOUS	L	LINTEL	SR	STUDRAIL																																																																														
CP	CONCRETE PEDESTAL	LF	LINEAL FOOT	SF	SQUARE FOOT																																																																														
C/SINK	COUNTERSINK	LL	LIVE LOAD	SST	STAINLESS STEEL																																																																														
CTRD	CENTERED DIAMETER	LLH	LONG LEG HORIZONTAL	STAGG	STAGGER / STAGGERED																																																																														
CFS	COLD FORMED STEEL	LLV	LONG LEG VERTICAL	STD	STANDARD																																																																														
C	DIAMETER	LP	LOW POINT	STIFF	STIFFENER																																																																														
DBA	DROP BEAM	LONGIT	LONGITUDINAL	STL	STEEL																																																																														
DB	DEFORMED BAR	LSL	LAMINATED STRAND LUMBER	STRUCT	STRUCTURAL																																																																														
DBL	DOUBLE	LVL	LAMINATED VENEER LUMBER	SWWJ	SOLID WEB WOOD JOIST																																																																														
DEMO	DEMOLISH	L	LUMBER	SYM	SYMMETRICAL																																																																														
DEV	DEVELOPMENT	MAS	MASONRY	T	TOP																																																																														
DF	DOUGLAS FIR	MAX	MAXIMUM	T/	TOP OF																																																																														
DIAG	DIAGONAL	MECH	MECHANICAL	TAB	TOP & BOTTOM																																																																														
DIST	DISTRIBUTED	MEZZ	MEZZANINE	TC AX LD	TOP CHORD AXIAL LOAD																																																																														
DL	DEAD LOAD	MFR	MANUFACTURER	TCX	TOP CHORD EXTENSION																																																																														
DN	DOWN	MIN	MINIMUM	TDS	TIE DOWN SYSTEM																																																																														
DO	DITTO	MISC	MISCELLANEOUS	T&G	TONGUE & GROOVE																																																																														
DP	DEPTH/DEEP	MSW	MASONRY SHEAR WALL	THKND	THICKENED																																																																														
DWG	DRAWING	MW	MASONRY WALL	THRD	THREADED																																																																														
(E)	EXISTING	NIC	NOT IN CONTRACT	THRU	THROUGH																																																																														
EA	EACH	NTS	NOT TO SCALE	TRANSV	TRANSVERSE </tr <tr><td>EF</td><td>EACH FACE</td><td>OCB</td><td>ORDINARY CONCENTRIC BRACED</td><td>TYP</td><td>TYPICAL</td></tr> <tr><td>EL</td><td>ELEVATION</td><td>OD</td><td>OUTSIDE DIAMETER</td><td>UBC</td><td>UNIFORM BUILDING CODE</td></tr> <tr><td>ELEC</td><td>ELECTRICAL</td><td>OF</td><td>OUTSIDE FACE</td><td>UNO</td><td>UNLESS NOTED OTHERWISE</td></tr> <tr><td>ELEV</td><td>ELEVATOR</td><td>OP</td><td>OPENING</td><td>URM</td><td>UNREINFORCED MASONRY UNIT</td></tr> <tr><td>EMBED</td><td>EMBEDMENT</td><td>OPNG</td><td>OPENING</td><td>VERT</td><td>VERTICAL</td></tr> <tr><td>EQ</td><td>EQUAL</td><td>OPP</td><td>OPPOSITE</td><td>W</td><td>WIDE</td></tr> <tr><td>EQUIP</td><td>EQUIPMENT</td><td>OWSJ</td><td>OPEN WEB STEEL JOIST</td><td>W/</td><td>WITH</td></tr> <tr><td>EW</td><td>EACH WAY</td><td>OWWJ</td><td>OPEN WEB WOOD JOIST</td><td>W/O</td><td>WITHOUT</td></tr> <tr><td>EXP</td><td>EXPANSION</td><td>P</td><td>PLATE</td><td>WF</td><td>WALL FOOTING</td></tr> <tr><td>EXP JT</td><td>EXPANSION JOINT</td><td>PAF</td><td>POWDER ACTUATED FASTENER</td><td>WHS</td><td>WELDED HEADED STUD</td></tr> <tr><td>F</td><td>FOOTING</td><td>PC</td><td>PRECAST</td><td>WP</td><td>WORKING POINT</td></tr> <tr><td></td><td></td><td></td><td></td><td>WWF</td><td>WELDED WIRE FABRIC PLUS OR MINUS</td></tr> <tr><td></td><td></td><td></td><td></td><td>±</td><td></td></tr>	EF	EACH FACE	OCB	ORDINARY CONCENTRIC BRACED	TYP	TYPICAL	EL	ELEVATION	OD	OUTSIDE DIAMETER	UBC	UNIFORM BUILDING CODE	ELEC	ELECTRICAL	OF	OUTSIDE FACE	UNO	UNLESS NOTED OTHERWISE	ELEV	ELEVATOR	OP	OPENING	URM	UNREINFORCED MASONRY UNIT	EMBED	EMBEDMENT	OPNG	OPENING	VERT	VERTICAL	EQ	EQUAL	OPP	OPPOSITE	W	WIDE	EQUIP	EQUIPMENT	OWSJ	OPEN WEB STEEL JOIST	W/	WITH	EW	EACH WAY	OWWJ	OPEN WEB WOOD JOIST	W/O	WITHOUT	EXP	EXPANSION	P	PLATE	WF	WALL FOOTING	EXP JT	EXPANSION JOINT	PAF	POWDER ACTUATED FASTENER	WHS	WELDED HEADED STUD	F	FOOTING	PC	PRECAST	WP	WORKING POINT					WWF	WELDED WIRE FABRIC PLUS OR MINUS					±	
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SYMBOL SCHEDULE



STRUCTURAL SHEET INDEX

S-0.0	STRUCTURAL NOTES
S-0.1	STRUCTURAL NOTES
S-1.0	FOUNDATION PLAN
S-2.0	FIRST FLOOR FRAMING PLAN
S-2.1	SECOND FLOOR FRAMING PLAN
S-2.2	ROOF FRAMING PLAN
S-2.3	NORTH RAMP FOUNDATION & FRAMING PLANS
S-3.0	FOUNDATION DETAILS
S-4.0	FRAMING DETAILS
S-4.1	FRAMING DETAILS

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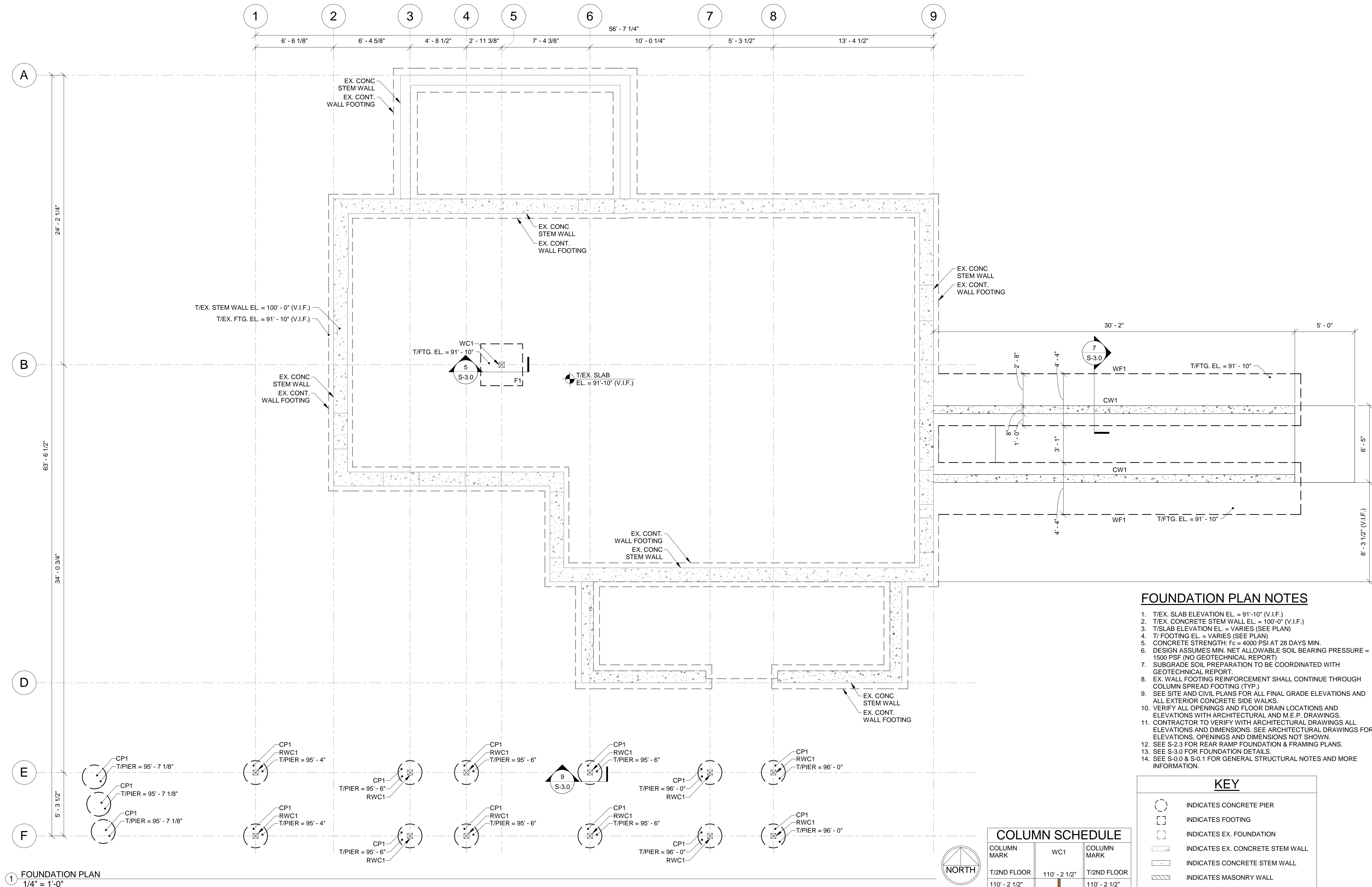
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TO REVIEW DATE 7/20/21

CHECK: SMD  
DRAWN: DWK  
JOB: D2100051

**S-0.1**  
STRUCTURAL NOTES





1 FOUNDATION PLAN  
1/4" = 1'-0"

RAMP SUPPORT COLUMN SCHEDULE

MK.	COLUMN TYPE	COLUMN BASE
RWC1	5 1/4" X 5 1/4" PSL 1.8E (Ramp Support)	SIMPSON MPB66Z
RWC2	5 1/4" X 5 1/4" PSL 1.8E (Ramp Support)	SIMPSON CB66
RWC3	5 1/4" X 5 1/4" PSL 1.8E (Ramp Support)	(2) SIMPSON RPBZ

CONCRETE PIER SCHEDULE

MK.	OUTSIDE DIAMETER	VERTICAL	HORIZONTAL TIES	DEPTH BELOW GRADE
CP1	24"	(12) #5	(3) #5 BARS AT TOP REMAINING @ 10" O.C.	3' - 6"
CP2	36"	(16) #5	(3) #5 BARS AT TOP REMAINING @ 10" O.C.	4' - 6"

FOOTING SCHEDULE

MK.	LENGTH	WIDTH	THICKNESS	REINFORCEMENT
F1	3' - 6"	3' - 6"	12"	TRANSVERSE (4) #5 LONGITUDINAL (4) #5

CONCRETE WALL SCHEDULE

MK.	WALL THICKNESS	HORIZONTAL	VERTICAL
CW1	8"	#5 @ 12" O.C.	#5 @ 12" O.C.

WOOD COLUMN BASE SCHEDULE

MK.	COLUMN TYPE	SIMPSON BASE	REMARKS
CB1	6X6 WOOD POST	CB66	SEE SIMPSON CATALOG FOR INSTALLATION GUIDELINES AND MORE INFORMATION

CONTINUOUS WALL FOOTING SCHEDULE

MK.	FOOTING WIDTH	FOOTING THICKNESS	STEM WALL THICKNESS	STEM WALL REINFORCEMENT	FOOTING REINFORCEMENT
WF1	4' - 4"	12"	8"	#5 @ 12" O.C.	(6) #5 #5 @ 12" O.C.
WF2	5' - 0"	12"	--	--	(6) #5 #5 @ 12" O.C.

FOUNDATION PLAN NOTES

- T/EX. SLAB ELEVATION EL. = 91'-10" (V.I.F.)
- T/EX. CONCRETE STEM WALL EL. = 100'-0" (V.I.F.)
- T/SLAB ELEVATION EL. = VARIES (SEE PLAN)
- T/ FOOTING EL. = VARIES (SEE PLAN)
- CONCRETE STRENGTH: f'c = 4000 PSI AT 28 DAYS MIN.
- DESIGN ASSUMES MIN. NET ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF (NO GEOTECHNICAL REPORT)
- SUBGRADE SOIL PREPARATION TO BE COORDINATED WITH GEOTECHNICAL REPORT
- EX. WALL FOOTING REINFORCEMENT SHALL CONTINUE THROUGH COLUMN SPREAD FOOTING (TYP.)
- SEE SITE AND CIVIL PLANS FOR ALL FINAL GRADE ELEVATIONS AND ALL EXTERIOR CONCRETE SIDE WALKS.
- VERIFY ALL OPENINGS AND FLOOR DRAIN LOCATIONS AND ELEVATIONS WITH ARCHITECTURAL AND M.E.P. DRAWINGS.
- CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS ALL ELEVATIONS AND DIMENSIONS. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS, OPENINGS AND DIMENSIONS NOT SHOWN.
- SEE S-2.3 FOR REAR RAMP FOUNDATION & FRAMING PLANS.
- SEE S-0.0 FOR FOUNDATION DETAILS.
- SEE S-0.0 & S-0.1 FOR GENERAL STRUCTURAL NOTES AND MORE INFORMATION.

KEY

- INDICATES CONCRETE PIER
- INDICATES FOOTING
- INDICATES EX. FOUNDATION
- INDICATES EX. CONCRETE STEM WALL
- INDICATES CONCRETE STEM WALL
- INDICATES MASONRY WALL
- INDICATES SLAB EDGE
- INDICATES WOOD COLUMN

ABBREVIATIONS

- U.N.O CONC. UNLESS NOTED OTHERWISE
- MW MASONRY WALL
- WF CONTINUOUS WALL FOOTING
- EL. ELEVATION
- THK. THICK
- T/ TOP OF
- FTG/F FOOTING
- TYP. TYPICAL
- CONT. CONTINUOUS
- FDN FOUNDATION
- W/ WITH
- SM. SIMILAR
- S CONCRETE SLAB ON GRADE
- WC WOOD COLUMN
- CB COLUMN BASE
- EX. EXISTING

COLUMN SCHEDULE

COLUMN MARK	WC1	COLUMN MARK
T/2ND FLOOR	110' - 2 1/2"	T/2ND FLOOR
110' - 2 1/2"		110' - 2 1/2"
T/SLAB		T/SLAB
100' - 0"		100' - 0"
T/BASEMENT SLAB		T/BASEMENT SLAB
91' - 10"		91' - 10"
COLUMN BASE	CB1	COLUMN BASE
COLUMN LOCATIONS	B-5	COLUMN LOCATIONS



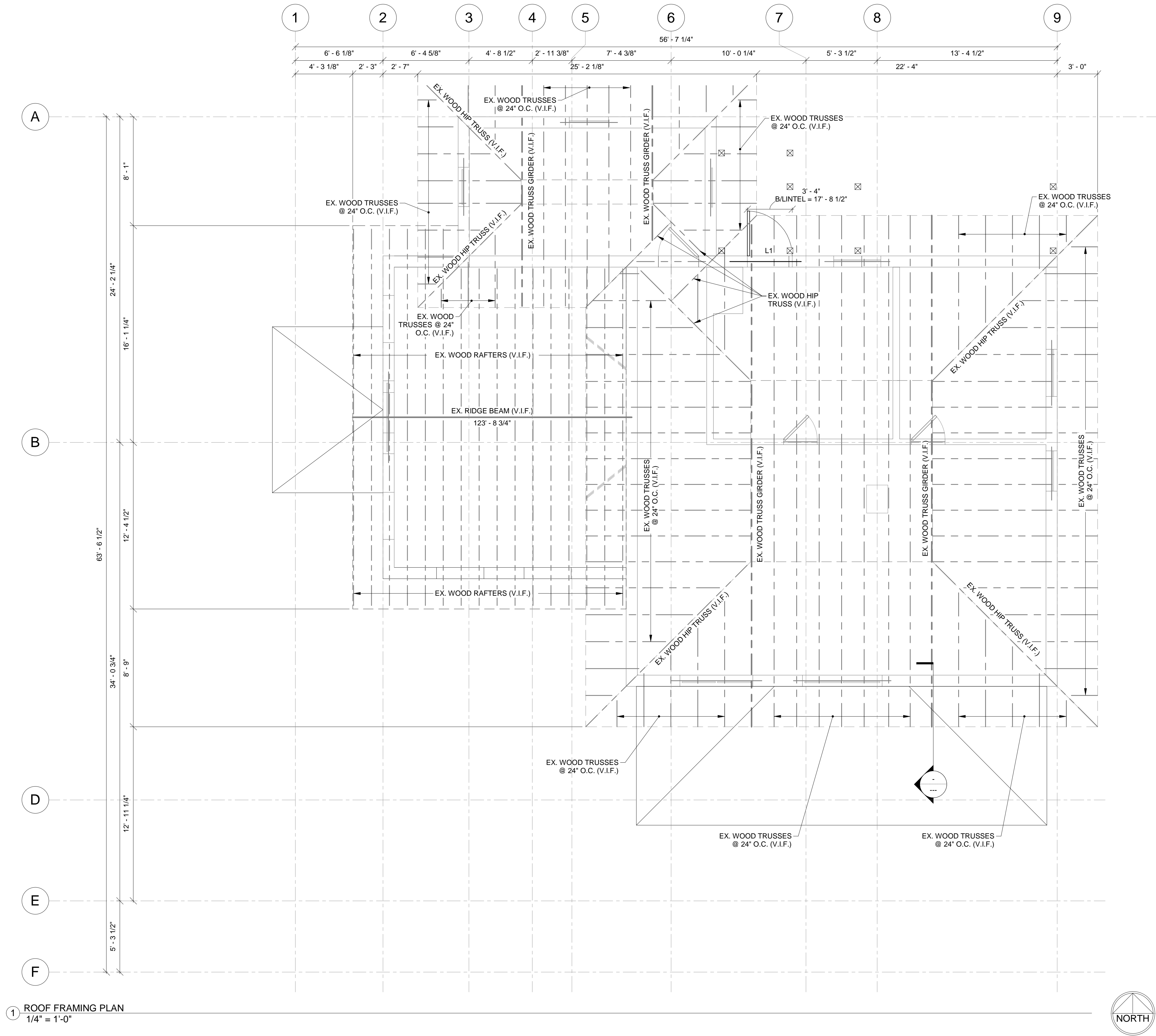




CHECK: SMD  
DRAWN: DWK  
JOB: D2100051

**S-2.1**  
SECOND FLOOR  
FRAMING PLAN





ROOF FRAMING PLAN NOTES

1. T/ROOF EL. = VARIES (SEE ARCH. DWGS.)
2. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS ALL ELEVATIONS AND DIMENSIONS. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS, OPENINGS AND DIMENSIONS NOT SHOWN.
3. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO FABRICATION, CONSTRUCTION OR ERECTION. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DISCREPANCIES.
4. CONTRACTOR TO COORDINATE SIZE AND LOCATION OF ALL MECHANICAL/ELECTRICAL OPENINGS THAT REQUIRE FRAMING (WHETHER SPECIFIED OR NOT). ALL FRAMING MUST BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
5. VERIFY ALL MECHANICAL OPENINGS WITH M.E.P. DRAWINGS.
6. THE CONTRACTOR SHALL REPLACE ANY ITEMS DAMAGED DURING CONSTRUCTION.
7. WEIGHTS OF ALL ROOFTOP UNITS SHALL BE VERIFIED PRIOR TO FABRICATION OF STEEL.
8. SEE S-2.3 FOR REAR RAMP FOUNDATION & FRAMING PLANS.
9. SEE S-4.0 & S-4.1 FOR FRAMING DETAILS.
10. SEE S-0.0 & S-0.1 FOR GENERAL STRUCTURAL NOTES AND MORE INFORMATION.

KEY

- INDICATES EX. WOOD STUD WALL
- INDICATES EX. GIRDER BEAM
- INDICATES EX. WOOD JOIST
- INDICATES EX. WOOD HEADER
- INDICATES EX. WOOD TRUSS
- INDICATES WOOD COLUMN
- INDICATES STEEL LINTEL
- INDICATES EX. STEEL LINTEL

ABBREVIATIONS

- EL. ELEVATION
- T/ TOP OF
- B/ BOTTOM OF
- EA. EACH
- TYP. TYPICAL
- MK. MARK
- W/ WITH
- WC WOOD COLUMN
- EX. EXISTING

BEAM ANNOTATIONS

- XXXX BEAM TYPE
- XX'-XX" BEAM ELEVATION

LINTEL SCHEDULE

MK.	SIZE	OPENING LENGTH	BEARING PLATE	BEARING PLATE CONNECTION	WALL BEARING EA. END	SECTION
L1	2L3-1/2X3-1/2X5/16	3'-4"	7 1/2" X 8" X 3/8"	1/4" FILLET WELD	8"	

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VOGELEI HOUSE REMODEL

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AQUATIC \ CIVIL \ MECHANICAL \ ELECTRICAL \ PLUMBING \ TELECOMMUNICATION \ STRUCTURAL \ ACCESSIBILITY CONSULTING \ DESIGN & PROGRAM MANAGEMENT \ LAND SURVEY

CHECK: SMD

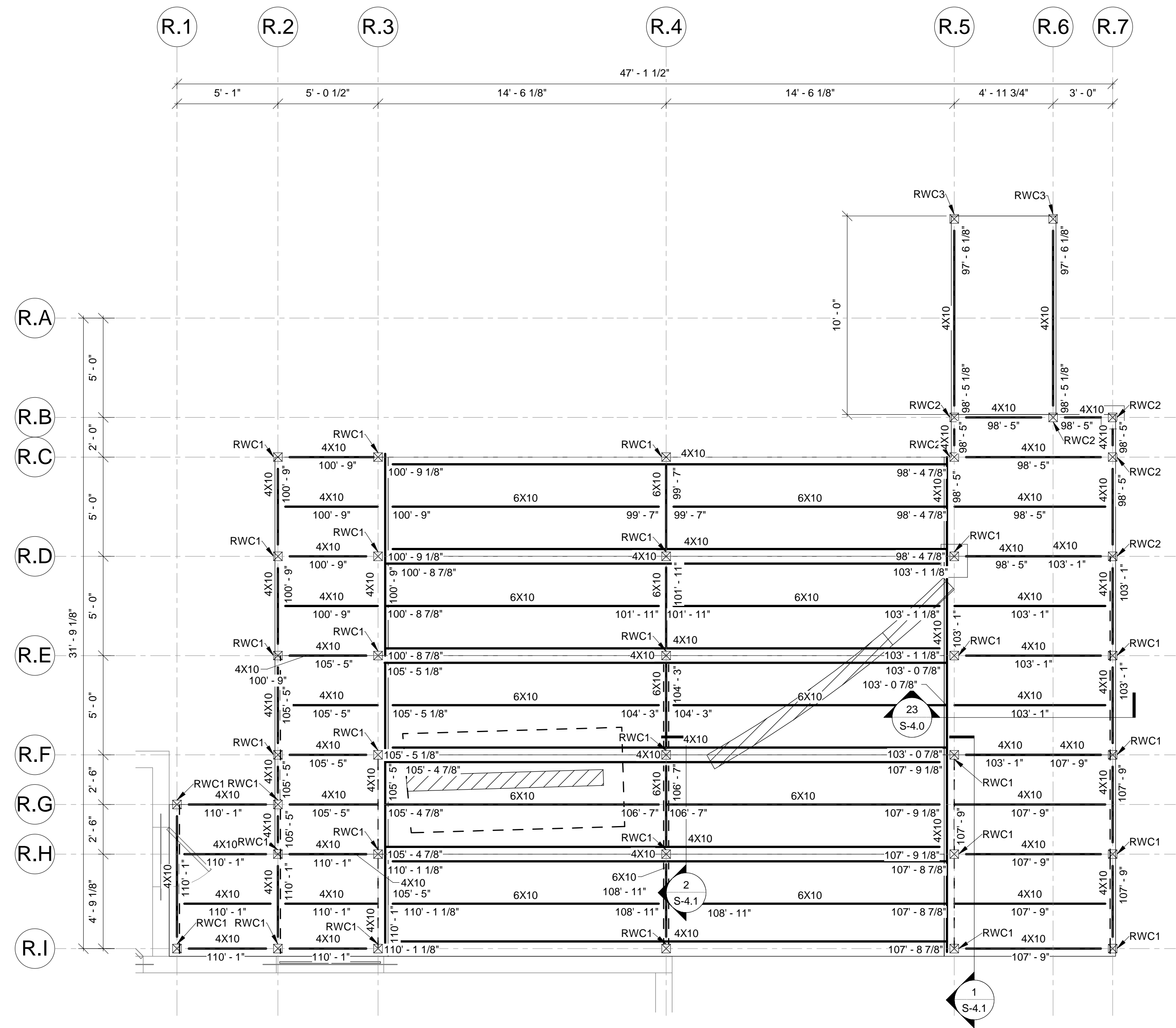
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JOB: D2100051

S-2.2

ROOF FRAMING PLAN



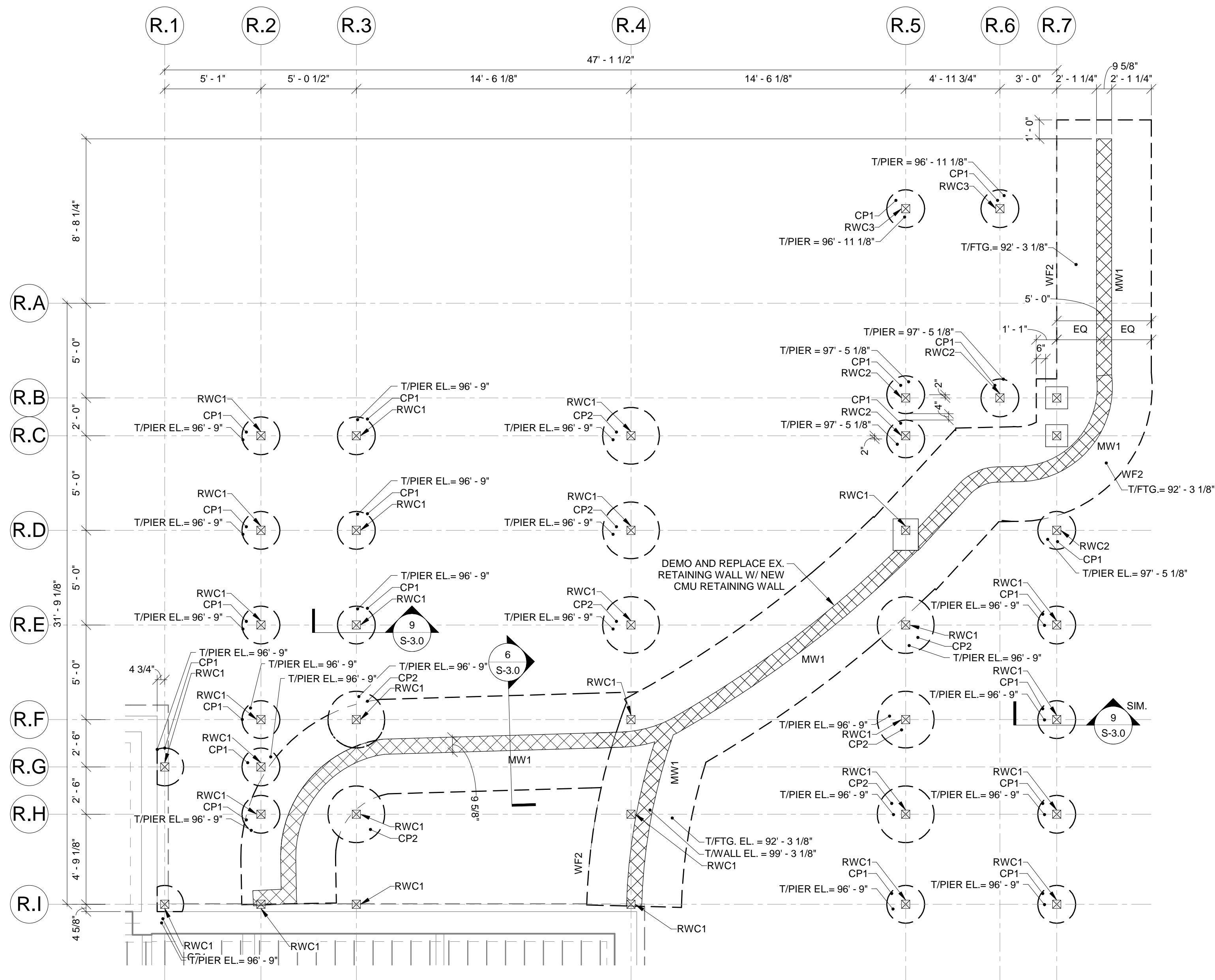


2 NORTH RAMP FRAMING PLAN  
1/4" = 1'-0"

### NORTH RAMP FRAMING PLAN NOTES

1. T/LANDING EL. = VARIES (SEE ARCH. DWGS.)
2. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS ALL ELEVATIONS AND DIMENSIONS. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS, OPENINGS AND DIMENSIONS NOT SHOWN.
3. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO FABRICATION, CONSTRUCTION OR ERECTION. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL REPLACE ANY ITEMS DAMAGED DURING CONSTRUCTION.
5. SEE S-4.0 & S-4.1 FOR FRAMING DETAILS
6. SEE S-0.0 & S-0.1 FOR GENERAL STRUCTURAL NOTES AND MORE INFORMATION.

KEY		ABBREVIATIONS	
	INDICATES EX. WOOD STUD WALL	EL.	ELEVATION
	INDICATES WOOD BRACING	T/	TOP OF
	INDICATES WOOD BEAM	B/	BOTTOM OF
	INDICATES WOOD HEADER	EA.	EACH
	INDICATES WOOD COLUMN	TYP.	TYPICAL
		WC	WOOD COLUMN
		MK.	MARK
		W/	WITH
		CB	COLUMN BASE
		EX.	EXISTING
		W	WOOD STUD WALL
		H	HEADER
BEAM ANNOTATIONS			
XXXX	←	BEAM TYPE	
XX'-XX"	←	BEAM ELEVATION	
XXXX	↘	BEAM TYPE (SLOPED)	
XX'-XX"	↘	BEAM ELEVATION (H.P. & L.P.)	



1 NORTH RAMP FOUNDATION PLAN  
1/4" = 1'-0"

### NORTH RAMP FOUNDATION PLAN NOTES

1. T/EX. SLAB ELEVATION EL. = 91'-10" (V.I.F.)
2. T/FOOTING EL. = 91'-10"
3. CONCRETE STRENGTH:  $f_c = 4000$  PSI AT 28 DAYS MIN.
4. DESIGN ASSUMES MIN. NET ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF (NO GEOTECHNICAL REPORT)
5. SUBGRADE SOIL PREPARATION TO BE COORDINATED WITH GEOTECHNICAL REPORT.
6. EX. WALL FOOTING REINFORCEMENT SHALL CONTINUE THROUGH COLUMN SPREAD FOOTING (TYP.)
7. SEE SITE AND CIVIL PLANS FOR ALL FINAL GRADE ELEVATIONS AND ALL EXTERIOR CONCRETE SIDE WALKS.
8. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS ALL ELEVATIONS AND DIMENSIONS. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS, OPENINGS AND DIMENSIONS NOT SHOWN.
9. SEE S-3.0 FOR FOUNDATION DETAILS
10. SEE S-0.0 & S-0.1 FOR GENERAL STRUCTURAL NOTES AND MORE INFORMATION.

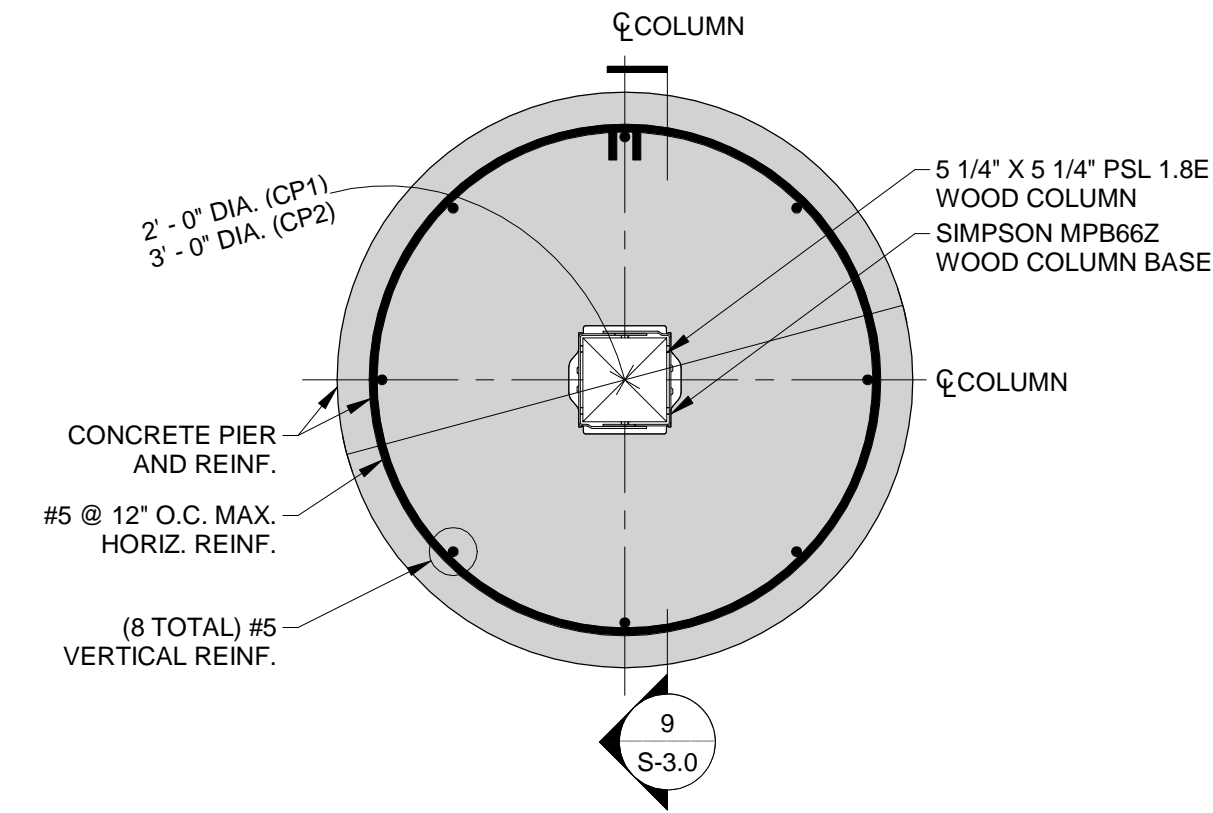
KEY		ABBREVIATIONS	
	INDICATES CONCRETE PIER	U.N.O	UNLESS NOTED OTHERWISE
	INDICATES FOOTING	CONC.	CONCRETE
	INDICATES EX. FOUNDATION	WF	CONTINUOUS WALL FOOTING
	INDICATES EX. CONCRETE STEM WALL	EL.	ELEVATION
	INDICATES MASONRY WALL	THK.	THICK
	INDICATES SLAB EDGE	T/	TOP OF
	INDICATES WOOD COLUMN	FTG/F	FOOTING
		TYP.	TYPICAL
		CONT.	CONTINUOUS
		FDN	FOUNDATION
		W/	WITH
		SIM.	SIMILAR
		S	CONCRETE SLAB ON GRADE
		WC	WOOD COLUMN
		CB	COLUMN BASE
		EX.	EXISTING

CONTINUOUS WALL FOOTING SCHEDULE							
MIN. NET SOIL BEARING PRESSURE = 1500 PSF							
STEM WALL REINFORCEMENT				FOOTING REINFORCEMENT			
MK.	FOOTING WIDTH	FOOTING THICKNESS	STEM WALL THICKNESS	CONTINUOUS	VERTICAL	CONTINUOUS	TRANSVERSE
WF1	4' - 4"	12"	8"	#5 @ 12" O.C.	#5 @ 12" O.C.	(6) #5	#5 @ 12" O.C.
WF2	5' - 0"	12"	--	--	--	(6) #5	#5 @ 12" O.C.

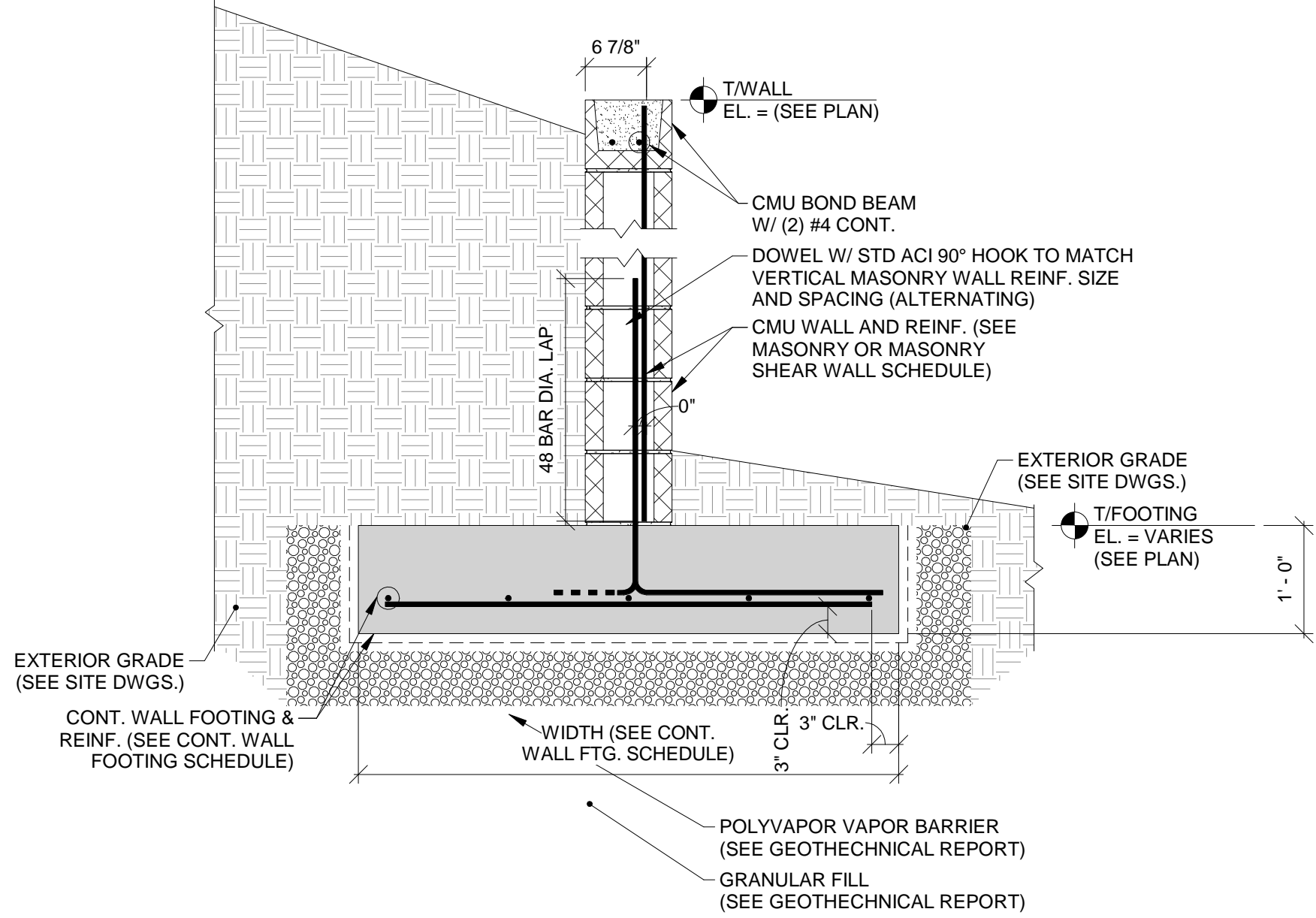
MASONRY WALL SCHEDULE						
MK.	TYPE	GROUT SPACING	VERTICAL WALL REINFORCEMENT	HORIZONTAL WALL REINFORCEMENT	REMARKS	
MW1	10" CMU	32" O.C.	#5 IN FULLY GROUTED CORE @ 32" O.C.	9 GAUGE TRUSS TYPE JOINT REINFORCEMENT @ 16" O.C.	SEE ARCH. DWGS. FOR WALL FINISH	

RAMP SUPPORT COLUMN SCHEDULE		
MK.	COLUMN TYPE	COLUMN BASE
RWC1	5 1/4" X 5 1/4" PSL 1.8E (Ramp Support)	SIMPSON MPB66Z
RWC2	5 1/4" X 5 1/4" PSL 1.8E (Ramp Support)	SIMPSON CB66
RWC3	5 1/4" X 5 1/4" PSL 1.8E (Ramp Support)	(2) SIMPSON RPBZ

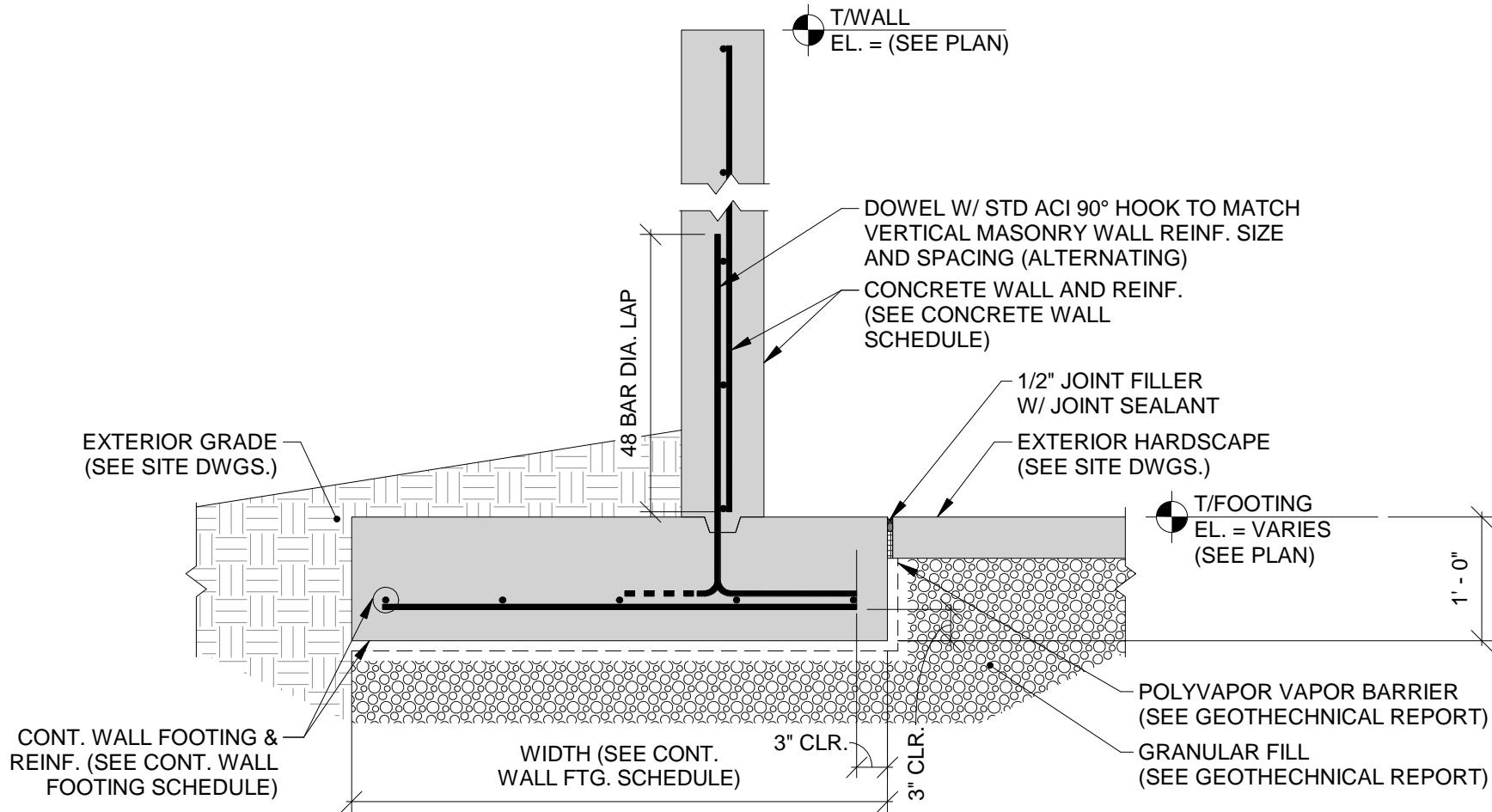




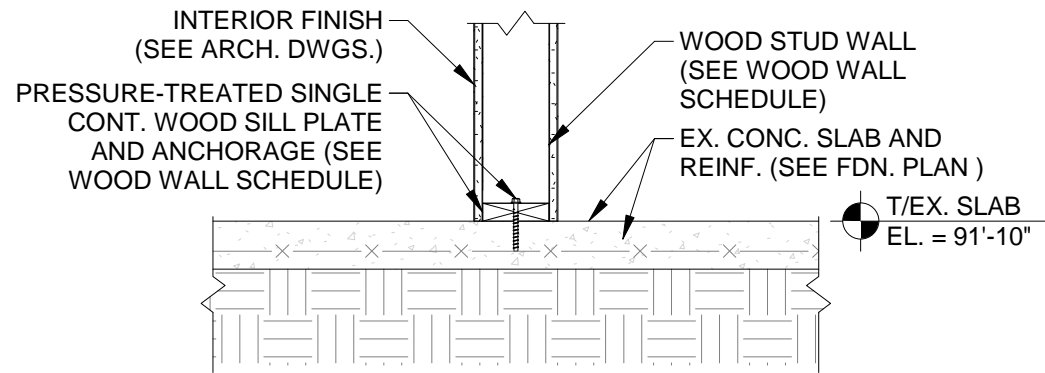
10 WOOD COLUMN @ CONCRETE PIER PLAN  
1" = 1'-0"



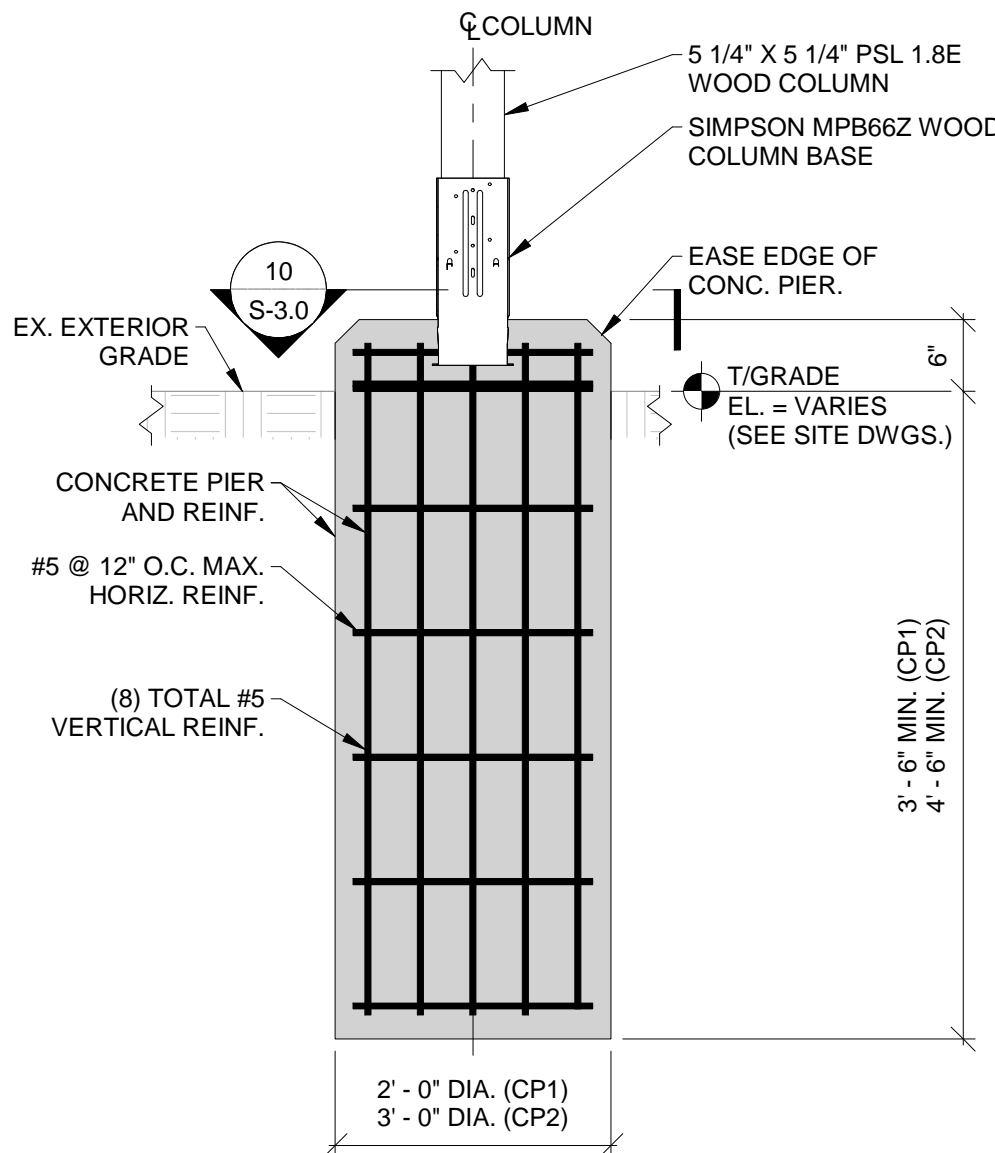
6 CONT. WALL FOOTING @ CMU RETAINING WALL  
3/4" = 1'-0"



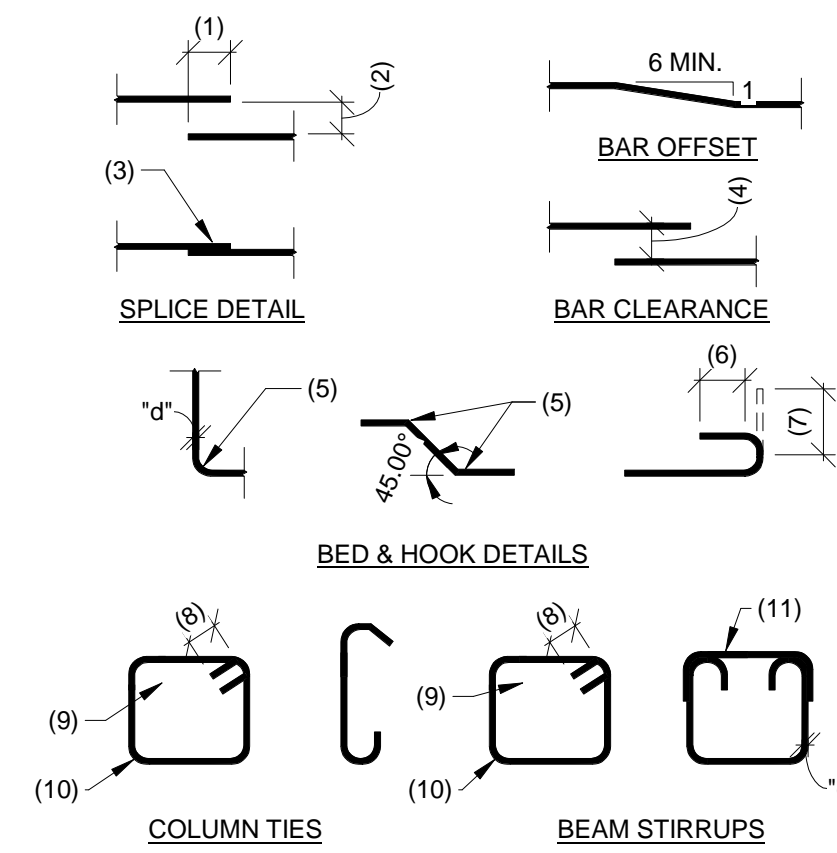
7 CONT. WALL FOOTING @ CONCRETE RETAINING WALL  
3/4" = 1'-0"



8 NEW WOOD STUD WALL ON EX. CONCRETE SLAB  
3/4" = 1'-0"

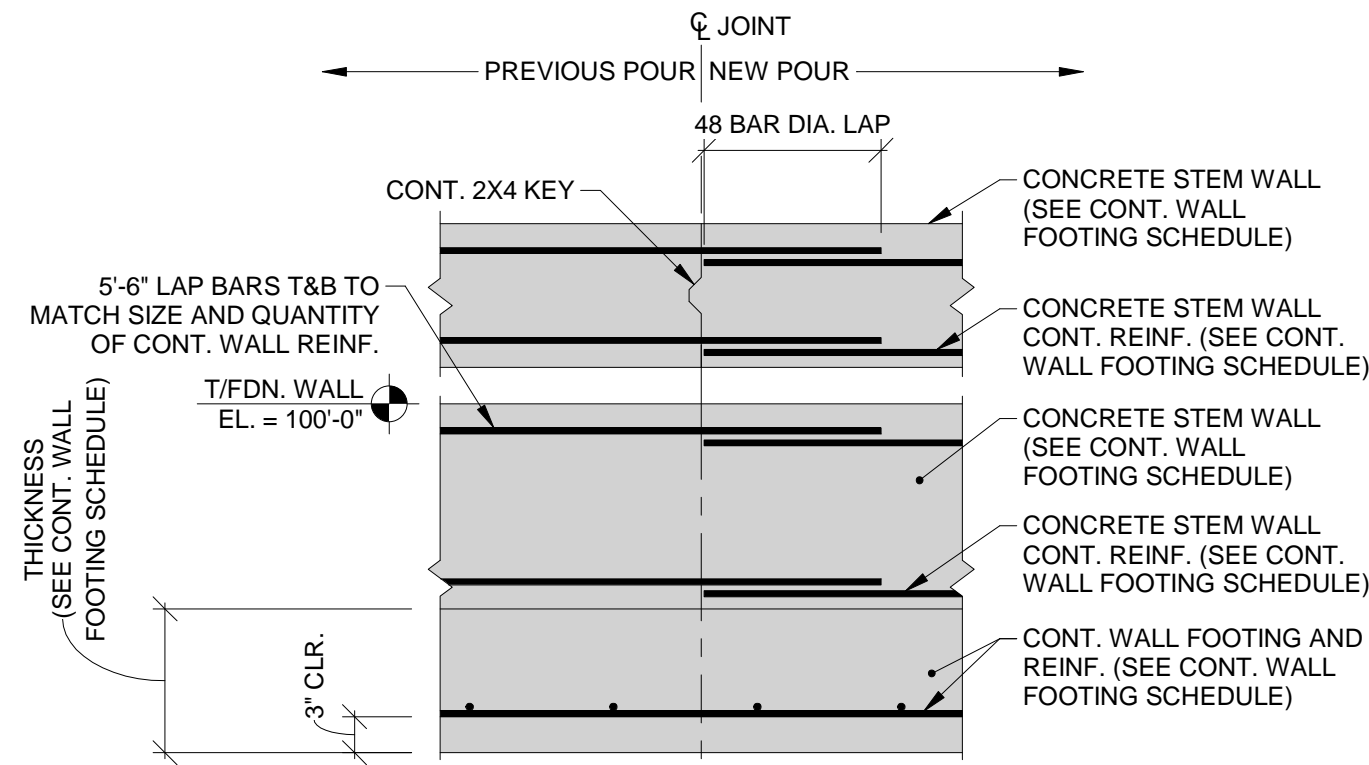


9 WOOD COLUMN @ CONCRETE PIER SECTION  
3/4" = 1'-0"



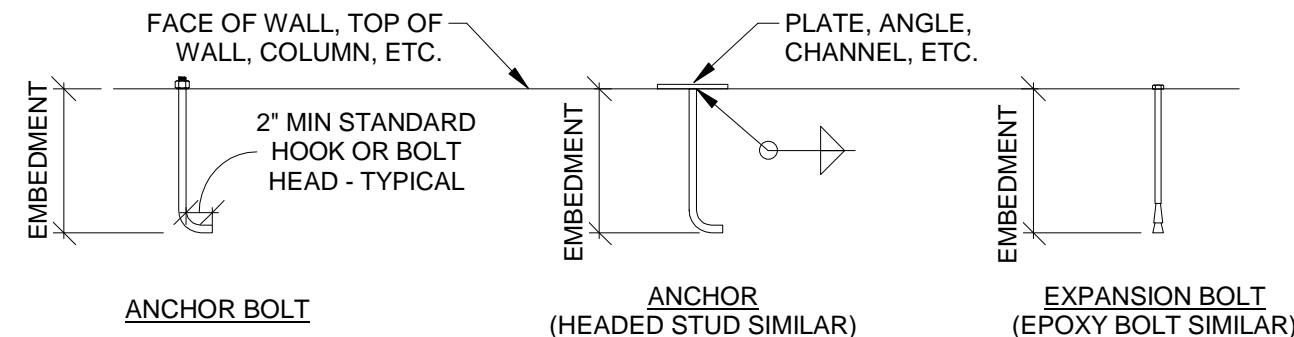
- NOTES:
- LAP - SEE G.S.N.
  - MAXIMUM 1/5 LAP BUT NOT MORE THAN 6"
  - WIRE TIES.
  - 1d (1" MINIMUM).
  - RADIUS = 3d FOR BARS NOT OVER #8; 4d FOR #9, #10 AND #11 BARS; 5d FOR #14 AND #18 BARS. 5d FOR ALL GRADE 40 BARS WITH 180 DEGREE HOOK.
  - 4d (4" MINIMUM).
  - 12d (90 DEGREE HOOK).
  - 6d (4" MINIMUM).
  - 135 DEGREE BEND.
  - BEND AROUND 1 1/2" PIN FOR #3 BARS. BEND AROUND 2" PIN FOR #4 BARS. BEND AROUND 2 1/2" PIN FOR #5 BARS.
  - ADDED STIRRUPS WHERE MORE THAN 2 TOP BEAM BARS OCCUR

1 TYP. CONCRETE REINFORCING BAR DETAILS  
3/4" = 1'-0"

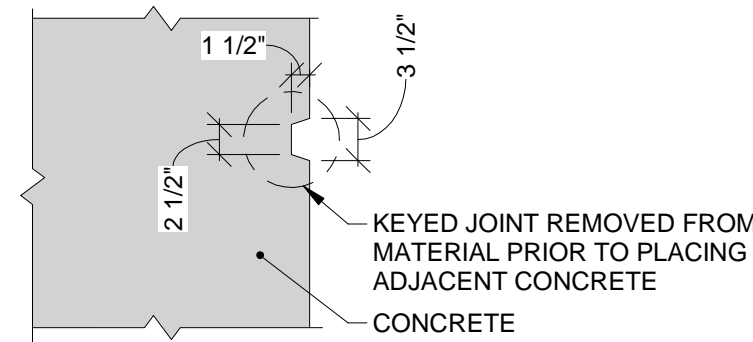


2 TYP. FOUNDATION WALL CONSTRUCTION JOINT  
3/4" = 1'-0"

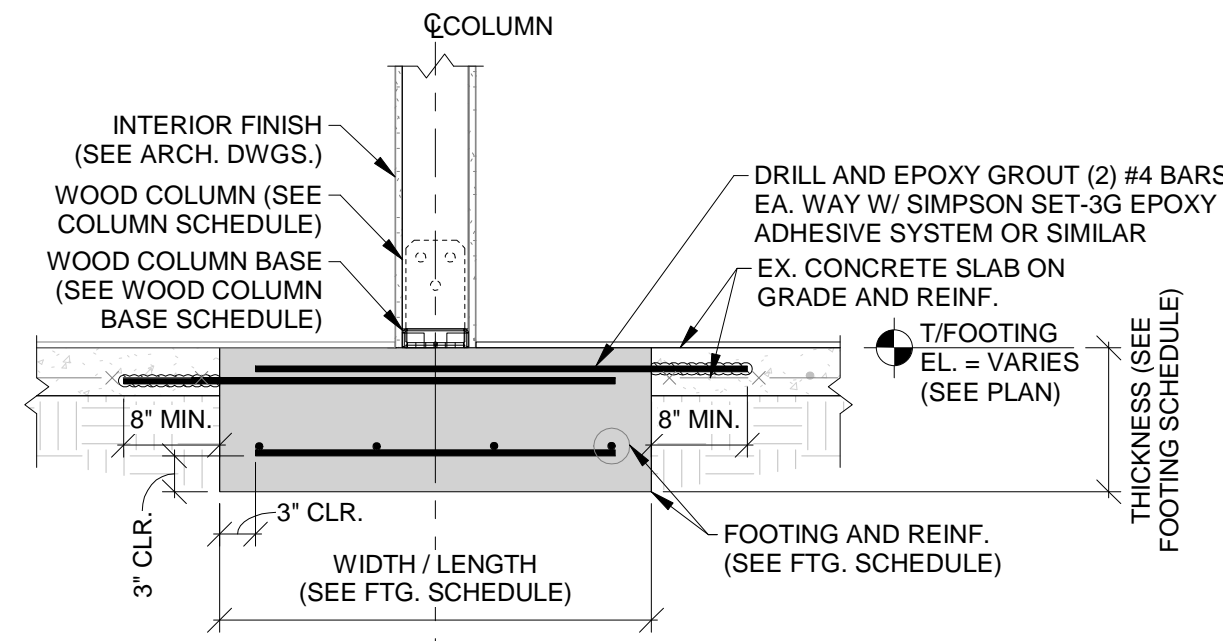
- NOTES:
- EXPANSION OR ADHESIVE BOLTS USED IN MASONRY SHALL HAVE I.C.B.O. APPROVAL IN MASONRY.
  - AT "ANCHORS" USE 3/16" FILLET WELD("S").
  - THICKNESS OF DRYPACK DOES NOT APPLY TOWARDS EMBEDMENT.



DS TYP. BOLTS IN MASONRY DETAIL  
3/4" = 1'-0"

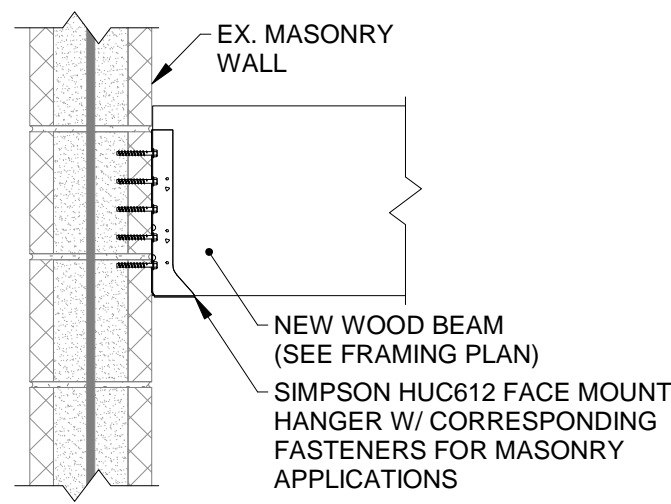


4 TYP. KEY IN CONCRETE  
3/4" = 1'-0"

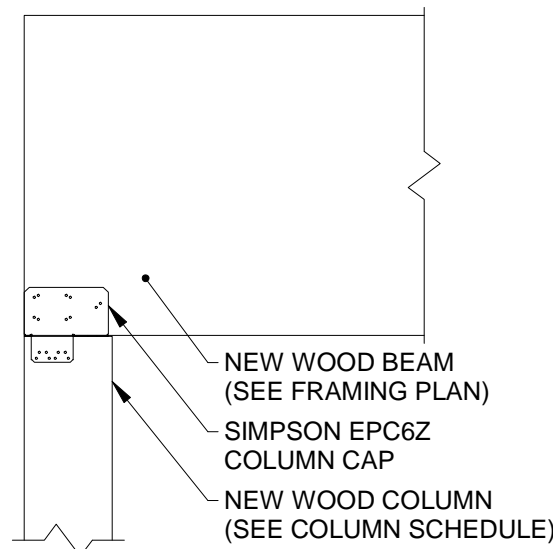


5 NEW INTERIOR WOOD COLUMN INTO EX. SLAB W/ FOOTING  
3/4" = 1'-0"

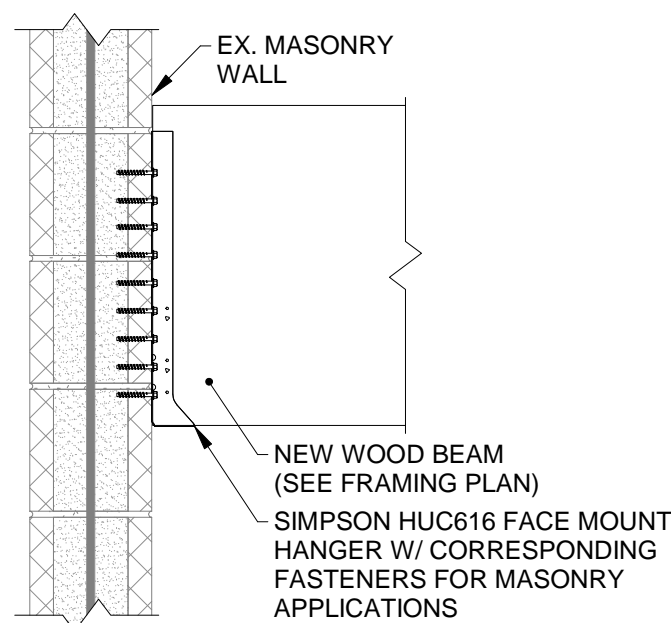




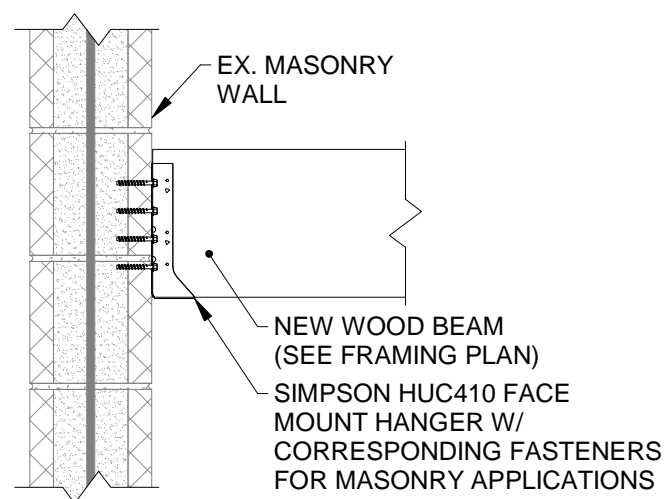
17 NEW PSL WOOD BEAM TO EX. WALL  
1" = 1'-0"



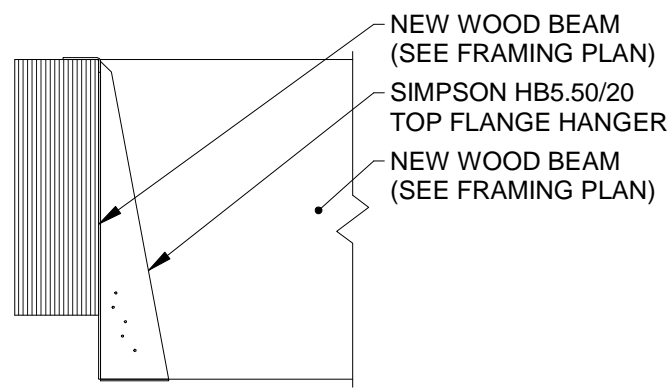
18 BEAM TO COLUMN DETAIL  
1" = 1'-0"



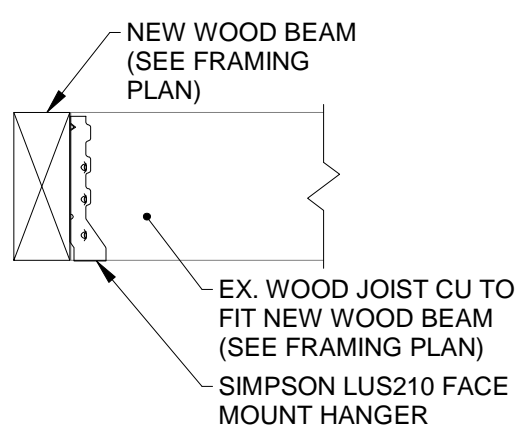
19 NEW DEEP PSL WOOD BEAM TO EX. WALL  
1" = 1'-0"



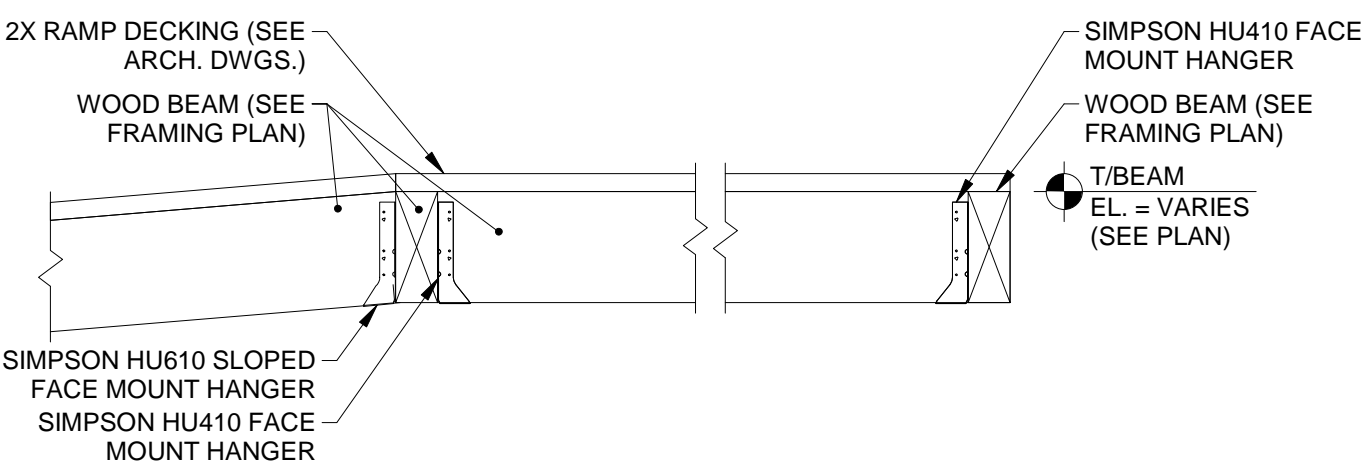
20 NEW WOOD BEAM TO EX. WALL  
1" = 1'-0"



21 PSL TO PSL BEAM CONN.  
1" = 1'-0"



22 EX. JOIST TO NEW BEAM  
1" = 1'-0"

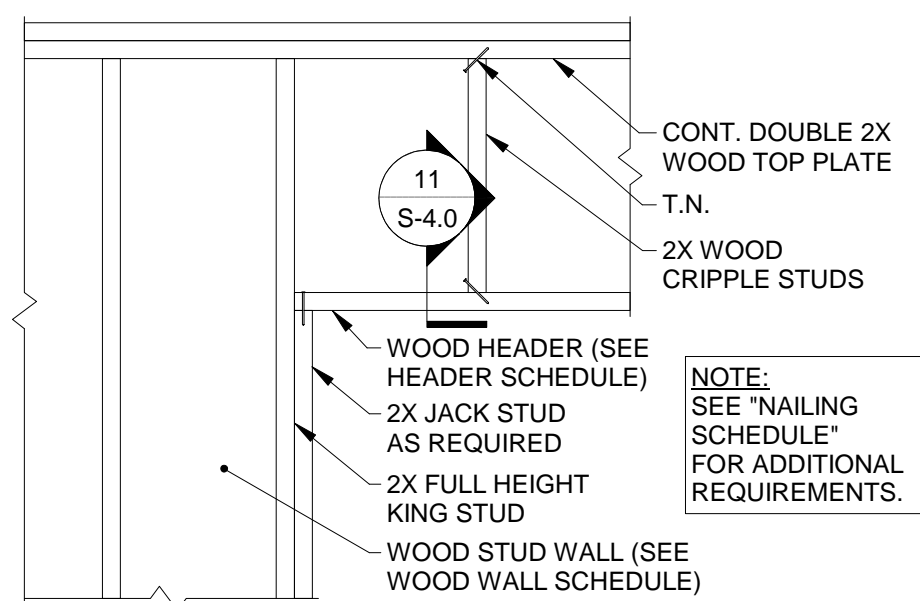


23 WOOD BEAM TO WOOD BEAM @ RAMP LANDING  
3/4" = 1'-0"

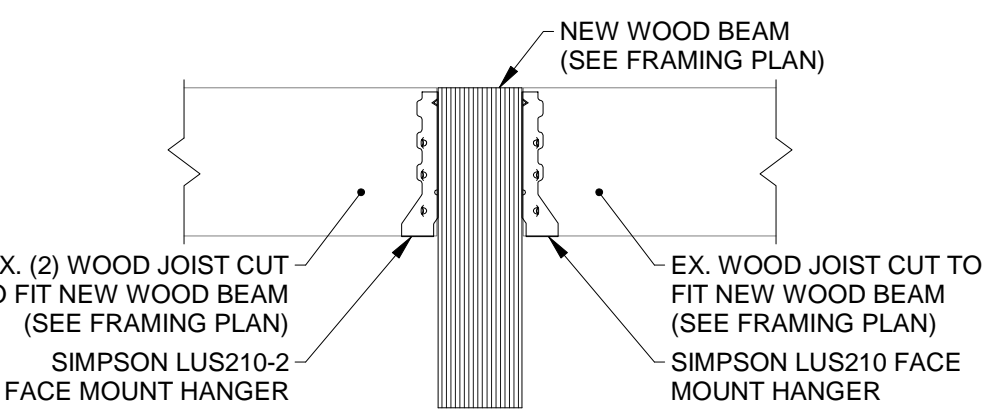
#### GENERAL NOTES:

- PRESSURE TREATED SINGLE 2X CONT. WOOD SILL PLATE AND ANCHORAGE (SEE WOOD WALL OR WOOD SHEAR WALL SCHEDULE, SEE FDN. PLAN FOR T/CONC. ELEVATION)
- 2X WOOD STUDS @ 16" O.C. (U.N.O.) W/ (2) 16d END NAILS OR 8d TOE NAILS EA. END TO TOP AND SILL PLATES (SEE WOOD WALL OR WOOD SHEAR WALL SCHEDULE)
- CONT. DOUBLE 2X WOOD TOP PLATE (SEE WOOD WALL OR WOOD SHEAR WALL SCHEDULE), NAILED TOGETHER W/ 16d @ 16" O.C. (U.N.O.)
- AS A TEMPORARY BRACING, USE 1X4 OR 1X6 DIAGONAL LET-IN BRACE 2 EA. CORNER (OR NEAR THE CORNER) & @ MAX. 25' INTERVALS; ALT. SIMPSON WB STRAPS, INSTALLED IN PAIRS.
- NAIL BRACE TO PLATES, STUDS, & BLOCKING W/ (3) 8d @ EA. BR'G.
- MIN. 45, MAX 60; BRACE TO COVER MIN. (3) STUD SPACES.
- TOP PLATE SPLICES TO OCCUR DIRECTLY ABOVE STUD OR POST & SHALL LAP MIN. 6'-0"
- (2) 10d NAILS @ 4" O.C.
- 2X BLOCKING AS REQUIRED PER U.B.C.
- OPENING WHERE OCCURS (SEE ARCH. DWGS.)
- 2X TRIMMER W/ 16d @ 12" O.C. STAGGERED TO KING STUD EA. SIDE OF OPENING (U.N.O.)
- FULL HEIGHT (2) 2X KING STUDS EA. SIDE (SEE HEADER SCHEDULE)
- (2) 2X JACK STUDS EA. SIDE (SEE HEADER SCHEDULE)
- SIMPSON A35 ANGLE EA. SIDE (U.N.O.)
- HEADER (SEE HEADER SCHEDULE)
- CONT. 2X WOOD SILL PLATE W/ 16d NAILS @ 12" O.C. (NAILS SHALL BE @ 3" O.C. WHEN OPENING OCCURS @ WOOD SHEAR WALL)
- 2X WOOD CRIPPLE STUDS @ 16" O.C. (U.N.O.)
- CONT. 2X WOOD WINDOW SILL (U.N.O.)
- TOE NAILING
- PLYWOOD SHEAR PANEL (SEE WOOD WALL OR WOOD SHEAR WALL SCHEDULE)
- TYP. BRIDGING @ PANEL EDGES
- SHEAR WALL END POSTS (SEE WOOD SHEAR WALL SCHEDULE)
- EDGE NAILING (SEE WOOD WALL OR WOOD SHEAR WALL SCHEDULE)
- INTERMEDIATE NAILING (SEE WOOD WALL OR WOOD SHEAR WALL SCHEDULE)
- EXTEND PLYWOOD ABOVE TOP PLATE IF INDICATED ON PLAN OR DETAILS.
- HOLD-DOWN OR POST ANCHOR (SEE HOLD-DOWN SCHEDULE)
- NAIL CORNER & MULTIPLE STUDS TOGETHER W/ 16d @ 12" O.C. STAGGERED.
- CORNER STUDS OR POST PER PLAN
- SIMPSON CS16 STRAP TO CONNECT HEADER AND FIRST STUD THAT IS NOT A JACK OR KING STUD

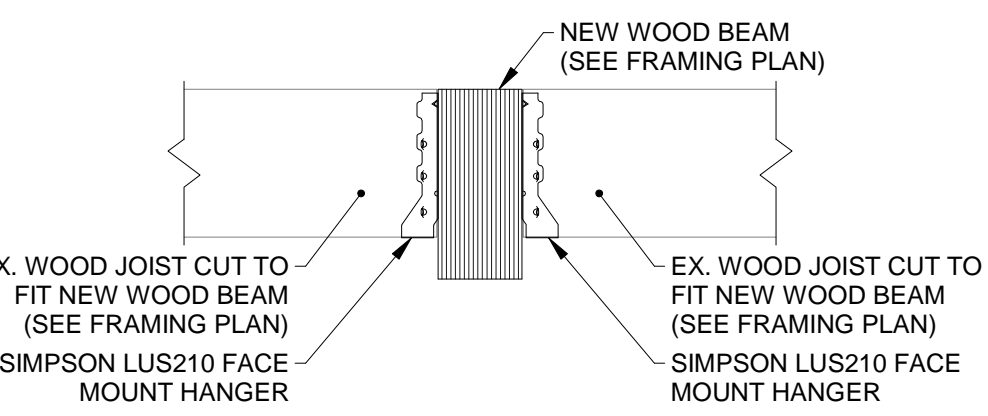
1 TYP. WOOD STUD WALL FRAMING  
3/4" = 1'-0"



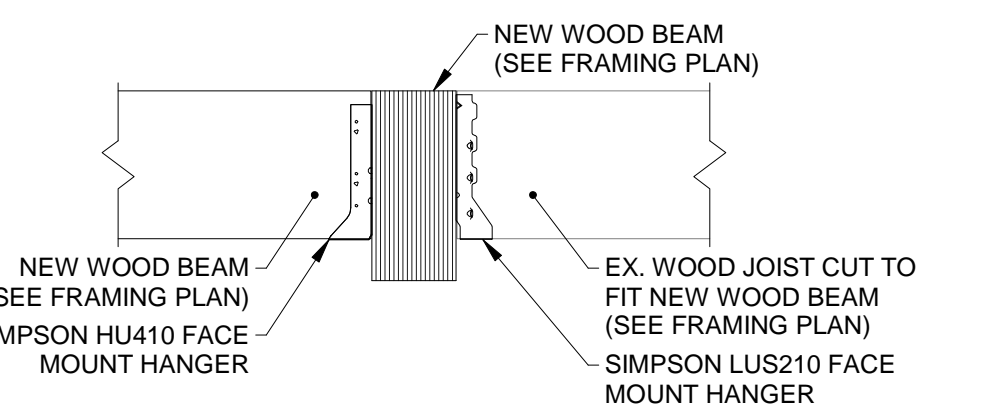
2 TYP. HEADER DETAIL  
3/4" = 1'-0"



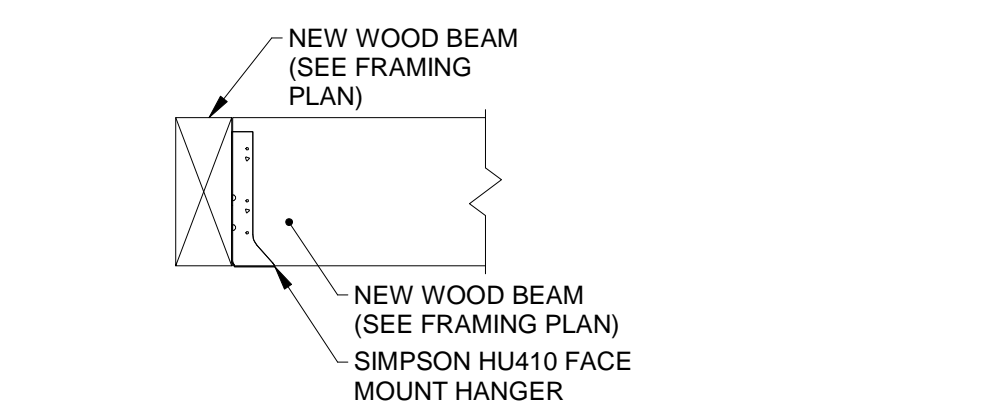
3 EX. JOISTS TO NEW PSL BEAM  
1" = 1'-0"



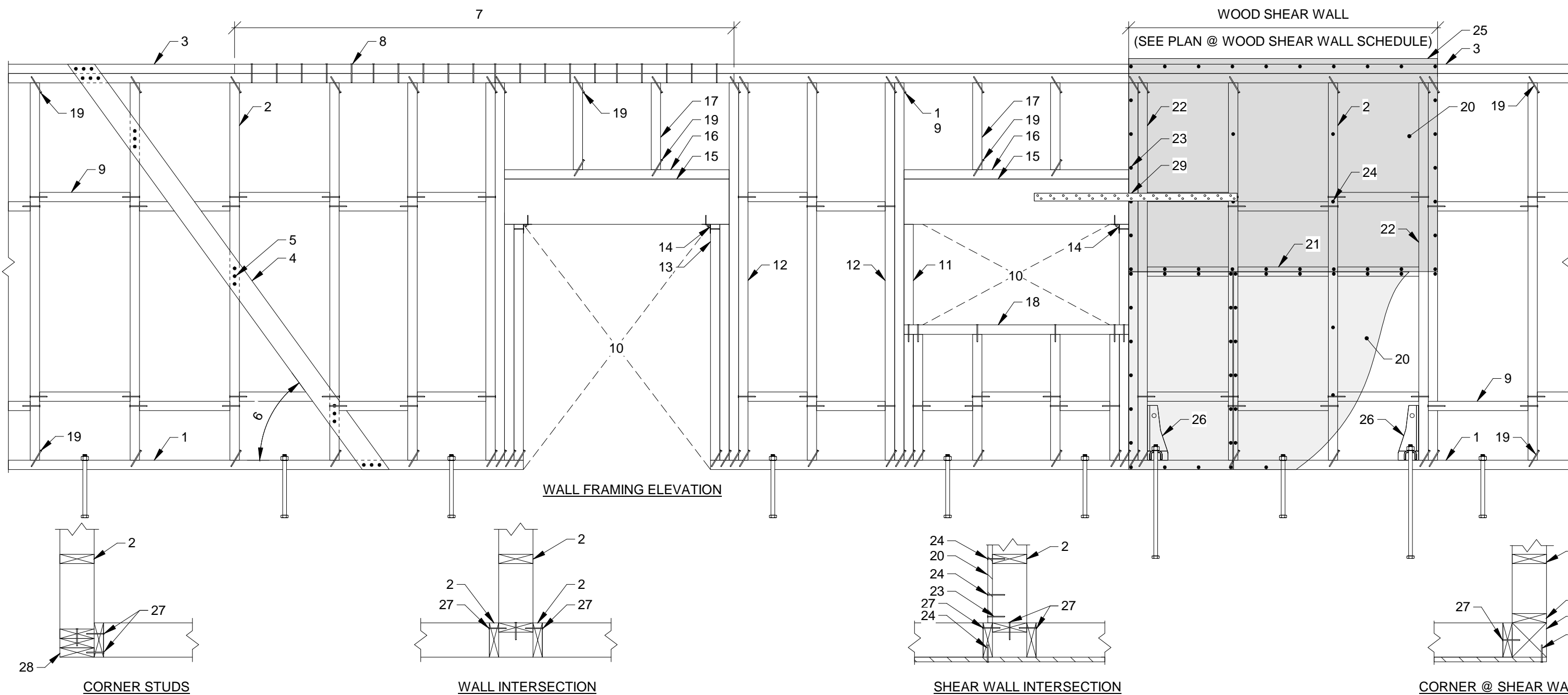
14 EX. JOISTS TO NEW BEAM  
1" = 1'-0"



15 EX. JOIST AND BEAM TO NEW BEAM  
1" = 1'-0"



16 BEAM TO BEAM CONN.  
1" = 1'-0"

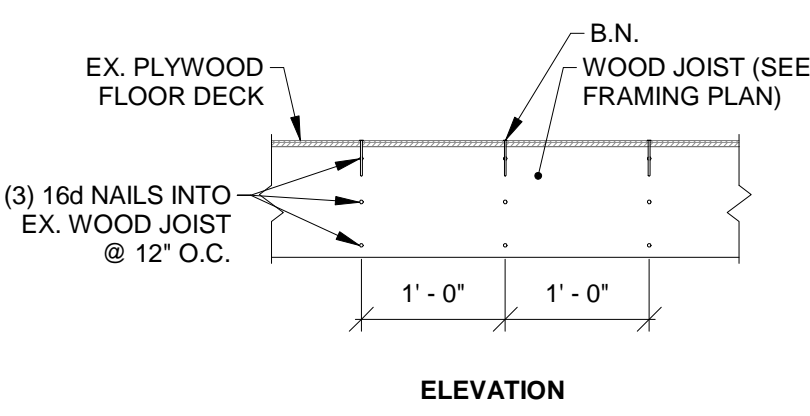


CORNER STUDS

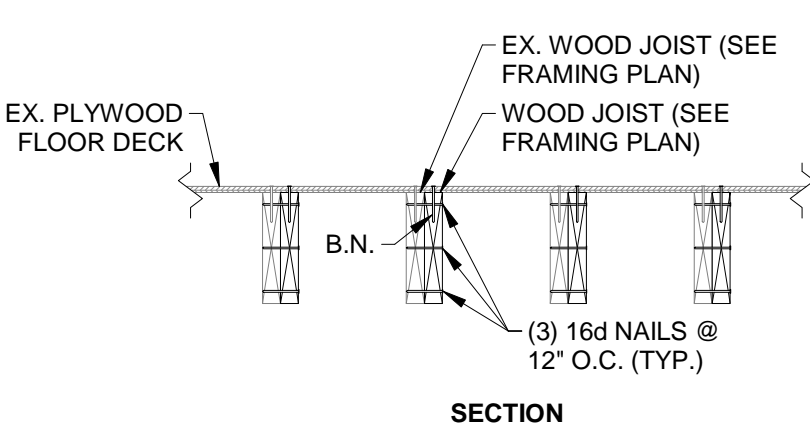
WALL INTERSECTION

SHEAR WALL INTERSECTION

CORNER @ SHEAR WALL

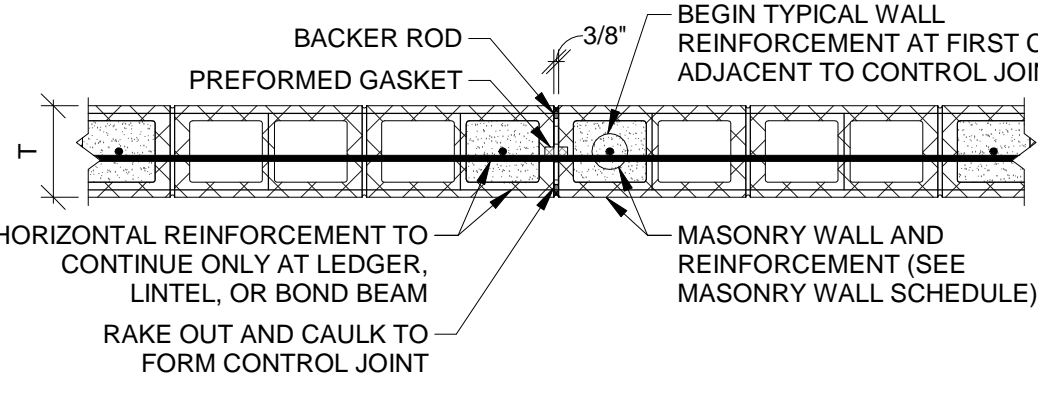


ELEVATION

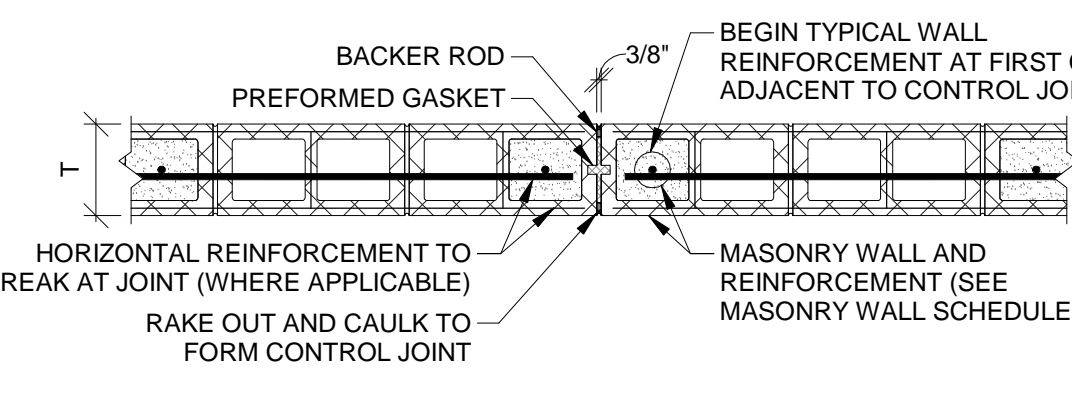


SECTION

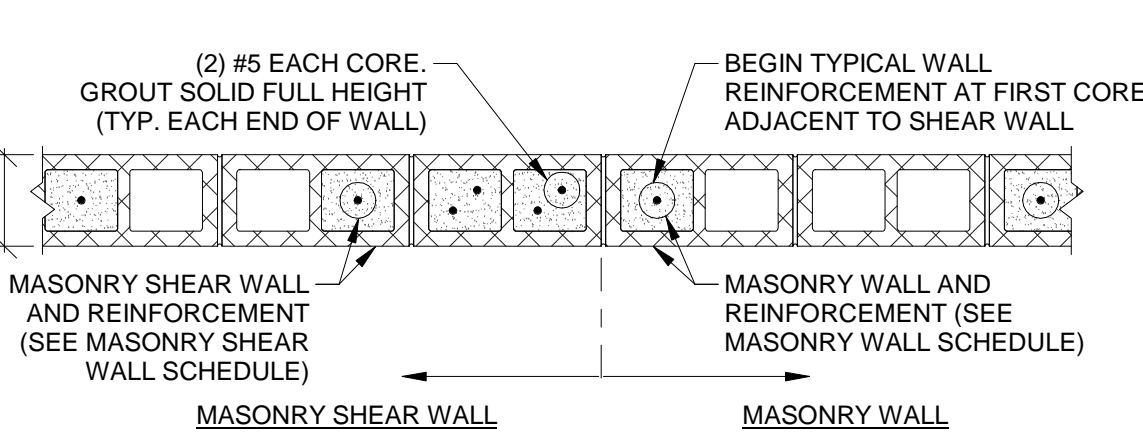
7 TYP. SISTERING DETAIL  
3/4" = 1'-0"



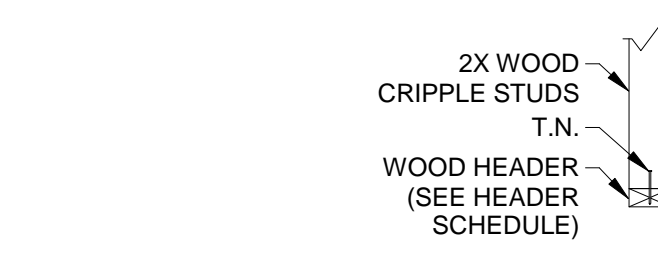
8 TYP. CMU WALL CONTROL JOINT W/ CONT. REINF.  
3/4" = 1'-0"



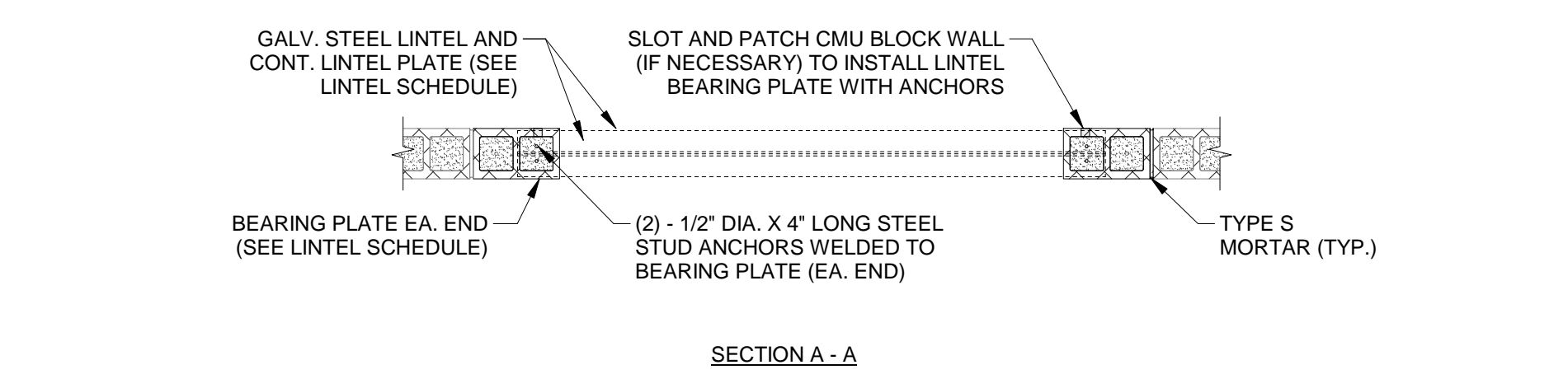
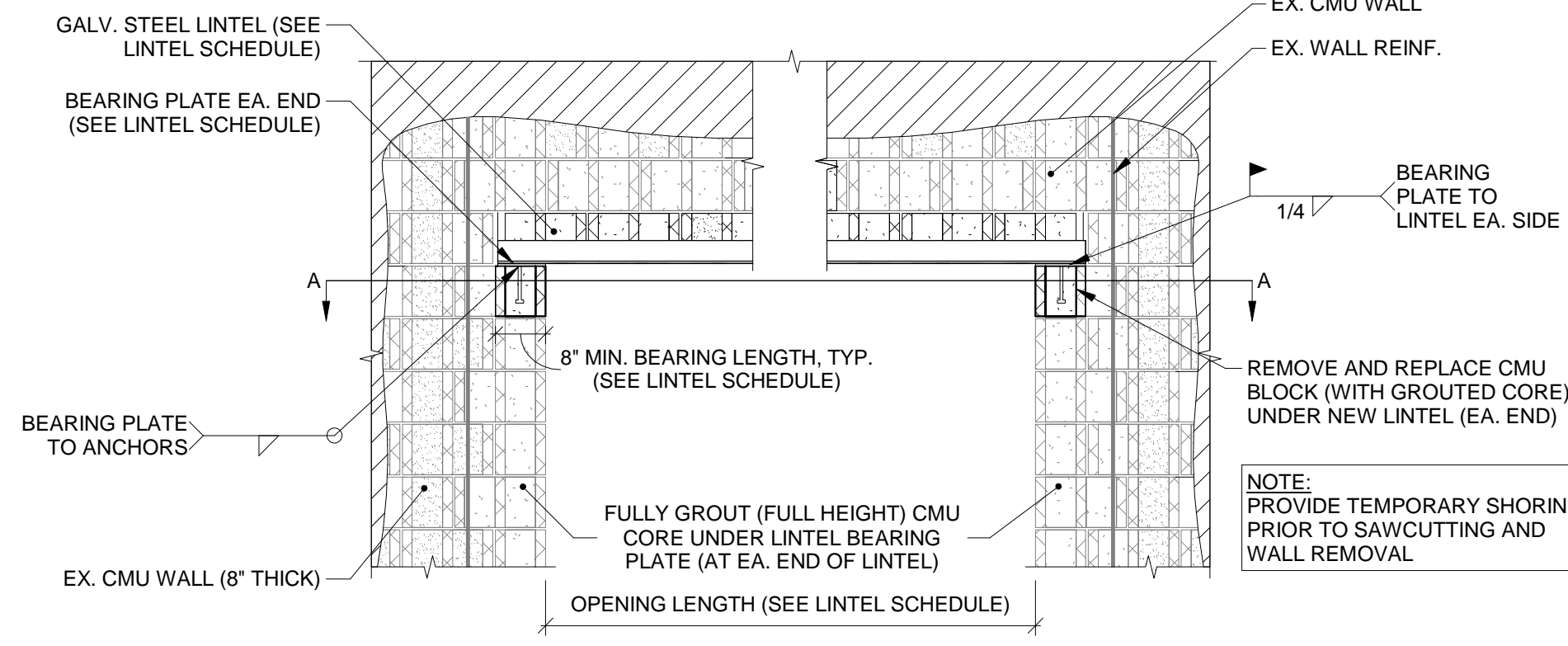
9 TYP. CMU WALL CONTROL JOINT  
3/4" = 1'-0"



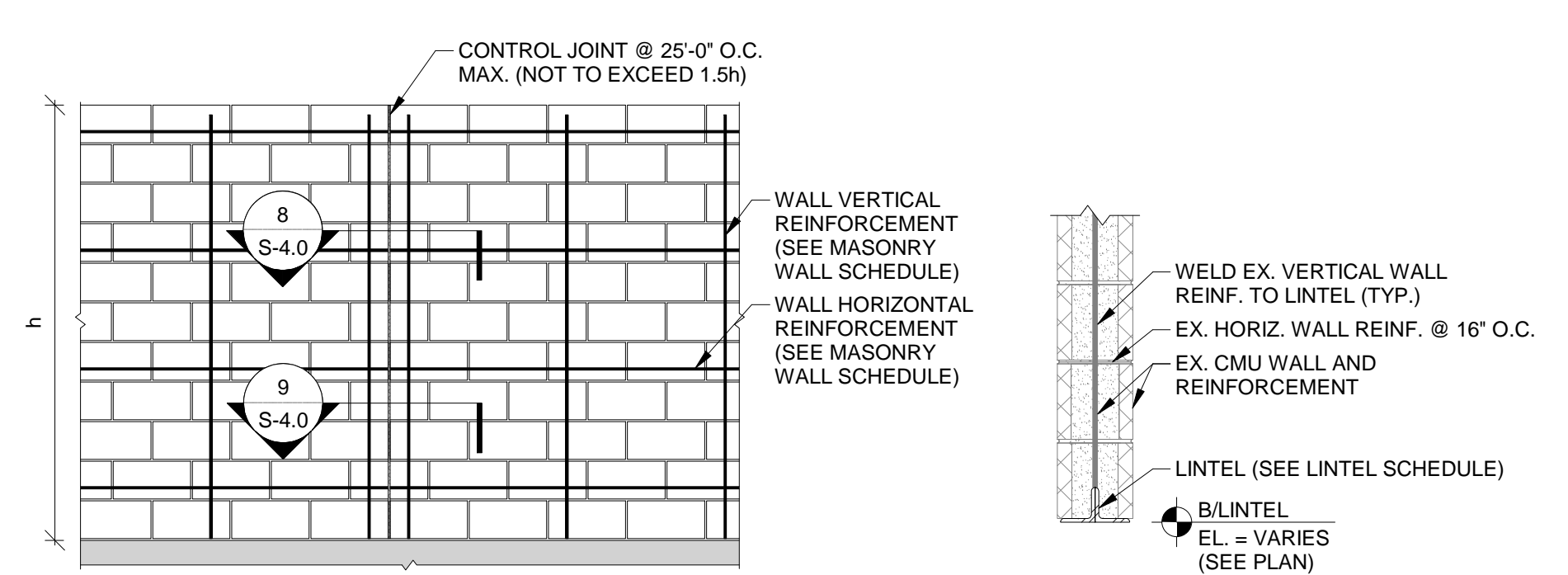
10 TYP. CMU WALL END DETAILS  
3/4" = 1'-0"



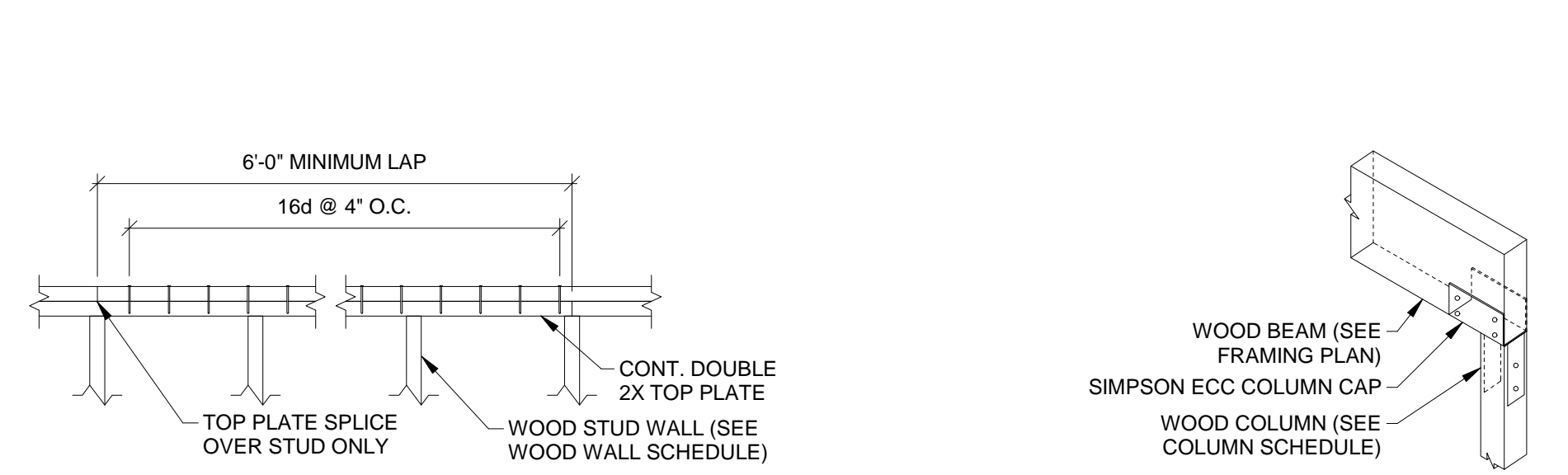
11 HEADER SECTION  
3/4" = 1'-0"



2 TYP. LINTEL @ EX. MASONRY WALL  
1/2" = 1'-0"



4 TYP. CMU WALL CONTROL JOINT ELEVATION  
3/8" = 1'-0"



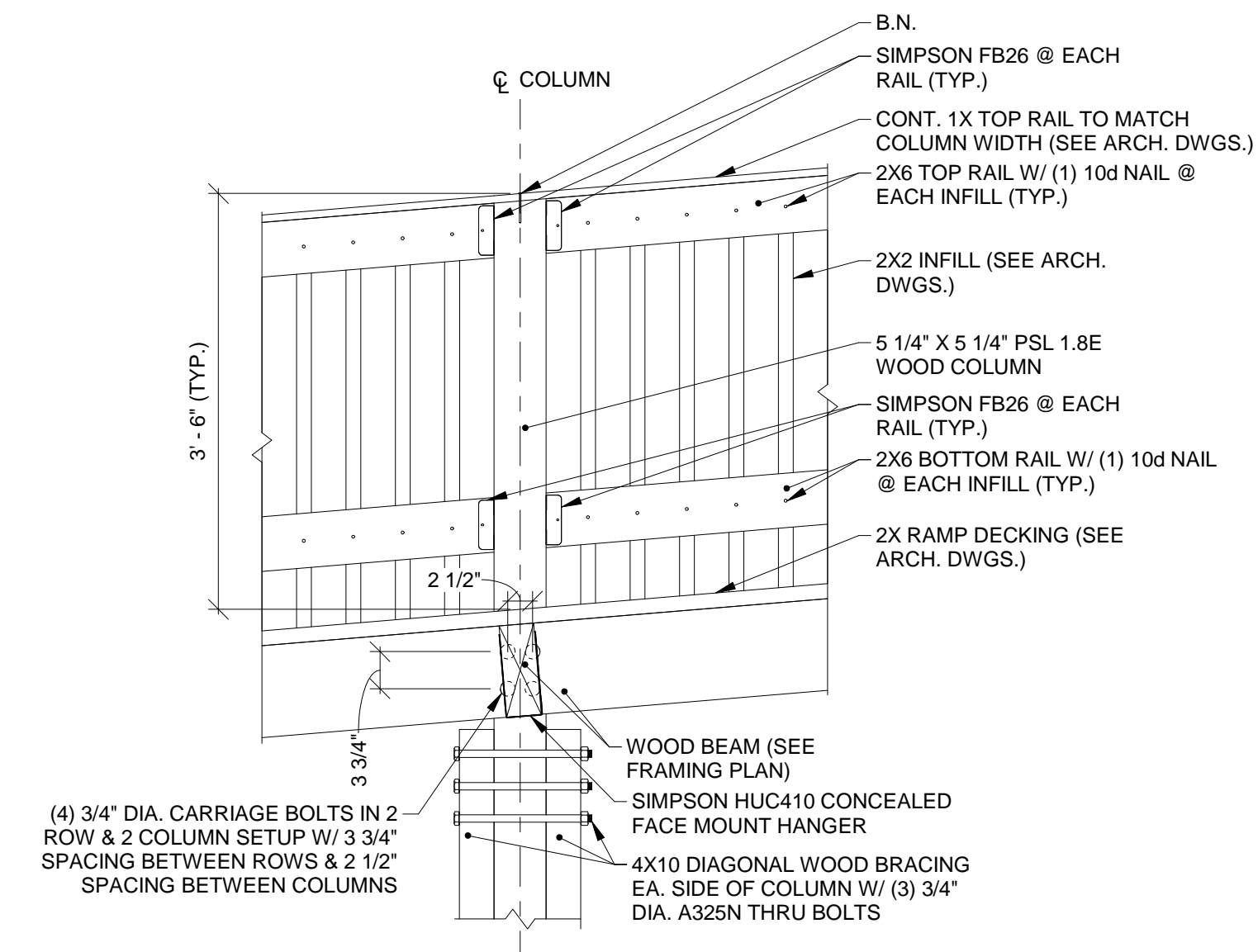
6 TYP. SPLICE OF TOP PLATES  
3/4" = 1'-0"



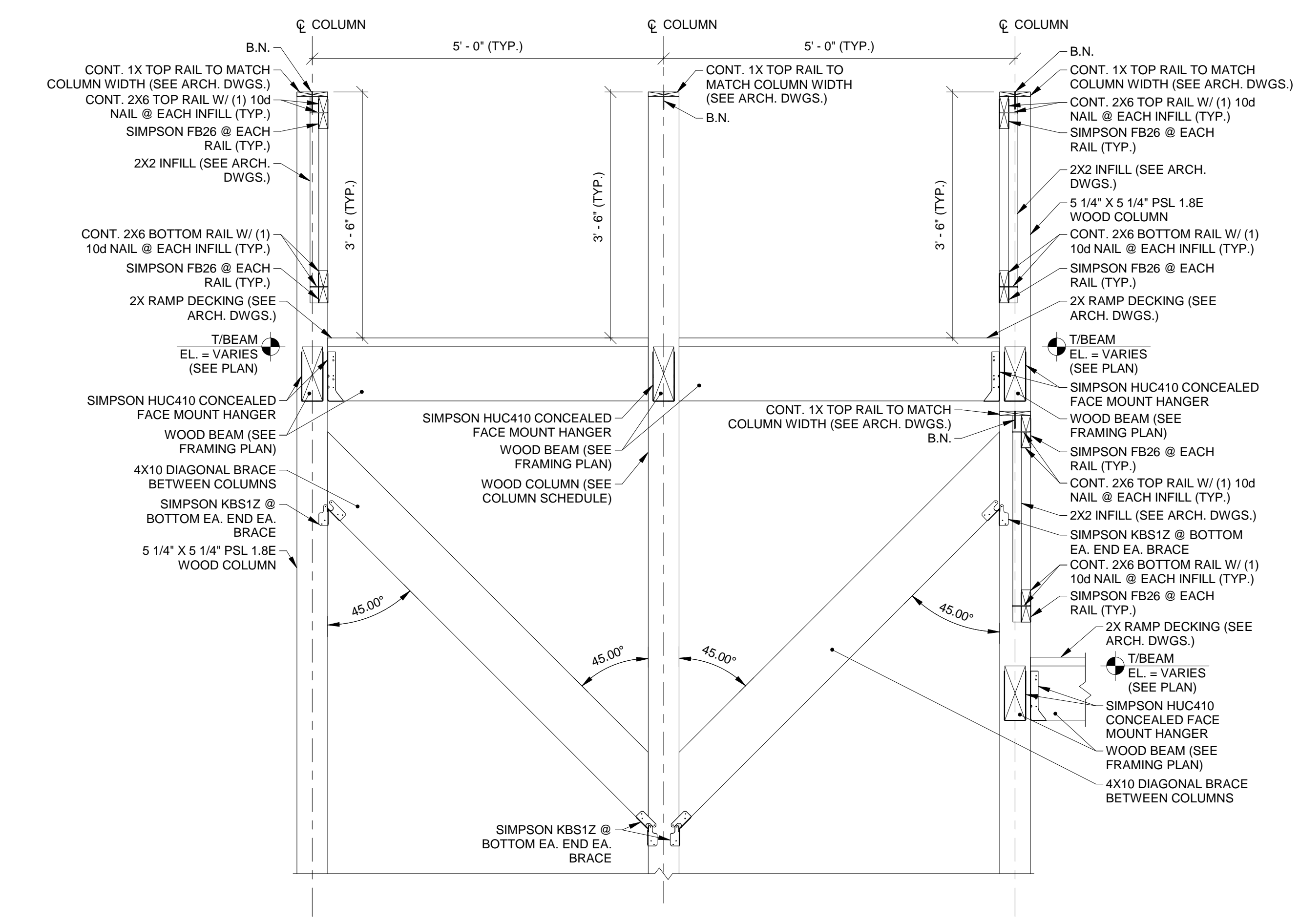
5 ECC COLUMN CAP DETAIL  
1/2" = 1'-0"



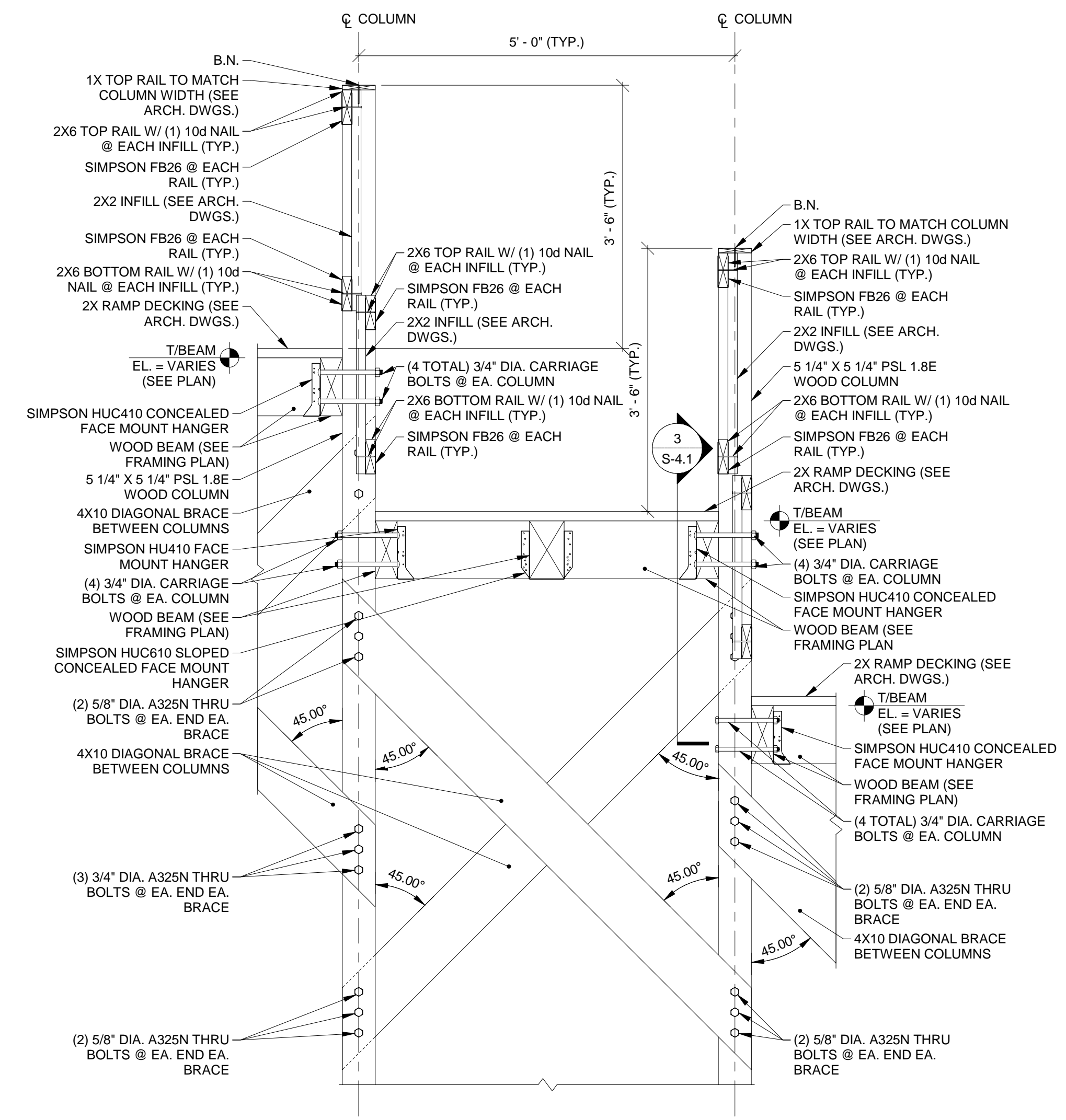




3 BEAM TO COLUMN @ HIGH RAMP ELEVATION  
3/4" = 1'-0"



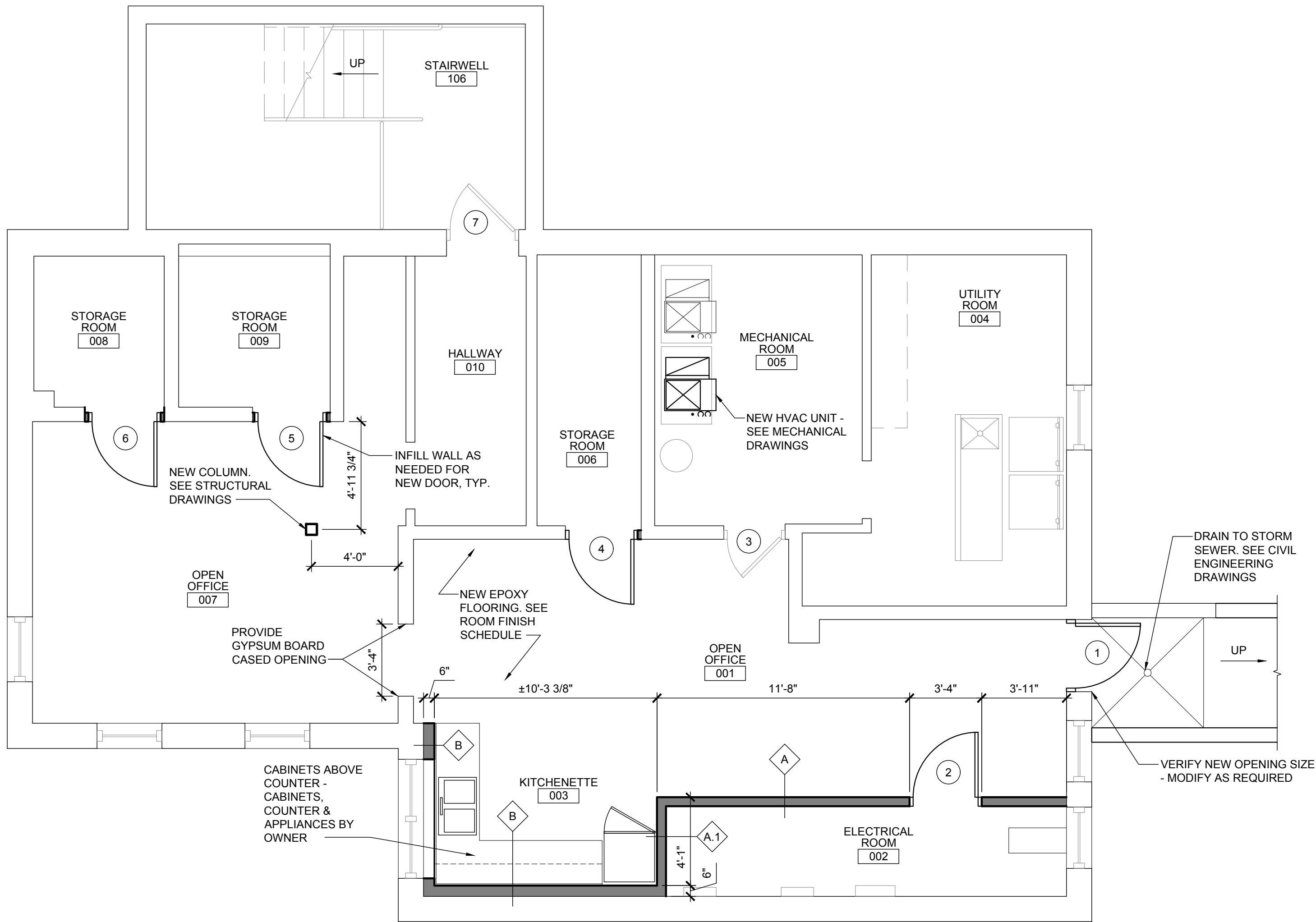
1 RAMP SECTION @ LANDING  
3/4" = 1'-0"



2 RAMP SECTION @ SLOPE  
3/4" = 1'-0"



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



FLOOR PLAN GENERAL NOTES

- A. ALL CONTRACTORS TO VERIFY EXISTING SITE CONDITIONS AND DIMENSIONS BEFORE ANY WORK IS TO BEGIN. NOTIFY ARCHITECT OF DISCREPANCIES.
- B. ALL WORK TO BE DONE IN ACCORDANCE WITH ALL GOVERNING STATE AND LOCAL CODES, ORDINANCES, AND AMENDMENTS.
- C. WATER RESISTANT GYPSUM BOARD OR CEMENT BOARD SHALL BE USED AT ALL WALLS IN TOILET ROOM, BEHIND ALL PLUMBING FIXTURES, AND ANY WET LOCATIONS - SEE PARTITION SCHEDULE FOR MORE INFORMATION.
- D. PROVIDE ALL REQUIRED IN WALL BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, MILLWORK, SHELVING, AND ACCESSORIES.
- E. MOUNT ALL FIXTURES & ACCESSORIES AT HEIGHTS CONFORMING WITH ALL GOVERNING CODES & ACCESSIBILITY REQUIREMENTS.
- F. ALL WOOD BLOCKING AND PLYWOOD TO BE FIRE TREATED.
- G. FIRE EXTINGUISHERS ARE SUPPLIED AND INSTALLED BY THE G.C. QUANTITIES AND LOCATIONS TO BE COORDINATED W/ THE LOCAL FIRE DEPARTMENT.
- H. COORDINATE SIZE AND LOCATION OF ALL DUCT SHAFT OPENINGS IN WALLS AND FLOORS. SEE MECHANICAL AND ELECTRICAL DRAWINGS.
- I. ALL DIMENSIONS ARE NOMINAL & ARE FROM FACE OF GYPSUM BOARD, SHEATHING, OR SUBSTRATE.
- J. REFER TO THE EQUIPMENT PLAN AND EQUIPMENT SCHEDULE FOR MORE INFORMATION ON THE EQUIPMENT. EQUIPMENT SHOWN ON THIS PLAN IS FOR REFERENCE ONLY.
- K. PROVIDE CONTINUOUS BEAD OF CLEAR SILICONE SEALANT AT INTERIOR SIDE OF ALL WALL TRANSITIONS. SEAL ALL NEW AND EXISTING OPENINGS IN FLOORS, STRUCTURAL DECK AND EXTERIOR WALLS IN ORDER TO PROVIDE A WEATHER TIGHT SEAL.
- L. ALL WALLS ARE AT 90° UNLESS NOTED OTHERWISE.
- M. PROPERLY PREPARE & CLEAN SUBSTRATES & SURFACES AS REQUIRED TO ACCEPT FINISHES, MATERIALS, TREATMENTS, ETC.
- N. G.C. SHALL PROVIDE FINAL CLEANING OF STORE AT END OF CONSTRUCTION.

FLOOR PLAN LEGEND

- PARTIAL HEIGHT WALL CONSTRUCTION
- STUD WALL CONSTRUCTION
- X PARTITION TAG, SEE PARTITION TYPES BELOW
- X DOOR TAG, SEE DOOR SCHEDULE
- X WINDOW TAG, SEE WINDOW SCHEDULE

PARTITION TYPES

- A 1 HOUR WALL (BASED ON UL DESIGN U305). 2X4 WOOD STUD WALL WITH SOUND ATTENUATION BATT INSULATION, 5/8" GYPSUM BOARD EACH SIDE, TO BOTTOM OF FLOOR ABOVE.
- A.1 1 HOUR WALL (BASED ON UL DESIGN U305). 2X4 WOOD STUD WALL WITH SOUND ATTENUATION BATT INSULATION, 5/8" WATER RESISTANT GYPSUM BOARD ON KITCHENETTE SIDE, 5/8" GYPSUM BOARD ON OTHER SIDE, TO BOTTOM OF FLOOR ABOVE.
- B 2X6 WOOD STUD WALL WITH SOUND ATTENUATION BATT INSULATION, AGAINST EXISTING MASONRY SUBSTRATE, 5/8" WATER RESISTANT GYPSUM BOARD ONE SIDE TO BOTTOM OF FLOOR ABOVE.
- C 1 HOUR SHAFT WALL (BASED ON UL DESIGN U499). 4" STEEL CH STUDS AT 24" O.C. WITH 1" SHAFT LINER ON ONE SIDE AND 5/8" FIRE RESISTANT GYPSUM BOARD ON OTHER SIDE.

API ARCHITECTS  
2015 PARKWAY AVENUE  
OFFICE 5125091342

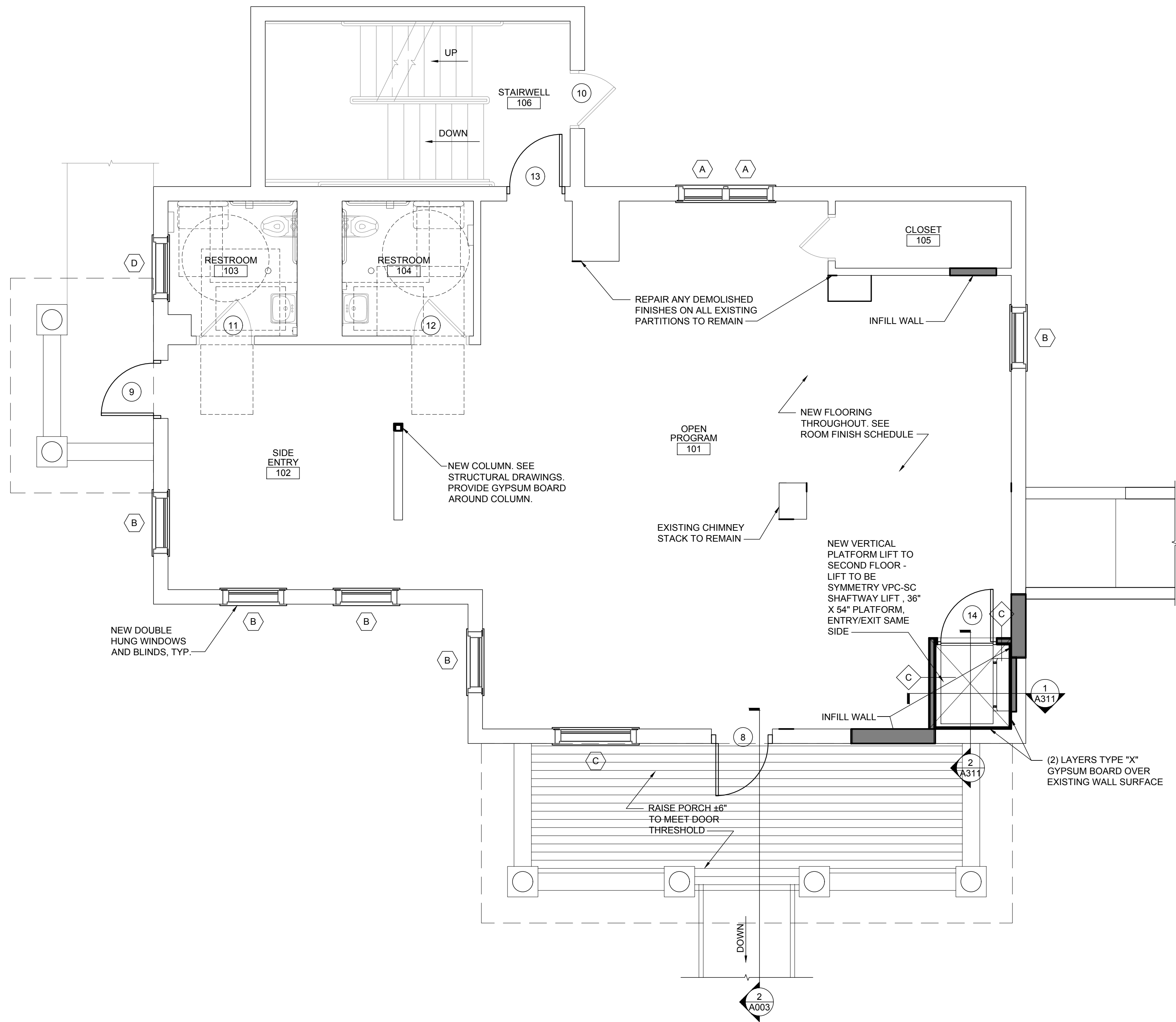
SEAL  
KENNETH W. JIADQ, S.K.I.  
001-027723  
STATE OF ILLINOIS  
December 30, 2020

HOFFMAN ESTATES PARK DISTRICT - VOGELI HOUSE REMODEL  
650 WEST HIGGINS ROAD  
HOFFMAN ESTATES, IL 60169

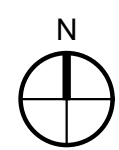
project no. D2100051  
date: 07.21.2021  
revision 1:  
revision 2:  
revision 3:  
revision 4:  
checked: CA  
drawn: JB  
sheet title: BASEMENT FLOOR PLAN  
sheet number: A101

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



## FLOOR PLAN GENERAL NOTES

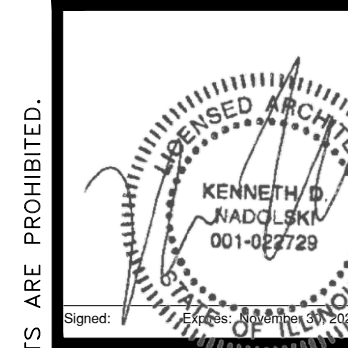
- ALL CONTRACTORS TO VERIFY EXISTING SITE CONDITIONS AND DIMENSIONS BEFORE ANY WORK IS TO BEGIN. NOTIFY ARCHITECT OF DISCREPANCIES.
- ALL WORK TO BE DONE IN ACCORDANCE WITH ALL GOVERNING STATE AND LOCAL CODES, ORDINANCES, AND AMENDMENTS.
- WATER RESISTANT GYPSUM BOARD OR CEMENT BOARD SHALL BE USED AT ALL WALLS IN TOILET ROOM, BEHIND ALL PLUMBING FIXTURES, AND ANY WET LOCATIONS - SEE PARTITION SCHEDULE FOR MORE INFORMATION.
- PROVIDE ALL REQUIRED IN WALL BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, MILLWORK, SHELVING, AND ACCESSORIES.
- MOUNT ALL FIXTURES & ACCESSORIES AT HEIGHTS CONFORMING WITH ALL GOVERNING CODES & ACCESSIBILITY REQUIREMENTS.
- ALL WOOD BLOCKING AND PLYWOOD TO BE FIRE TREATED.
- FIRE EXTINGUISHERS ARE SUPPLIED AND INSTALLED BY THE G.C. QUANTITIES AND LOCATIONS TO BE COORDINATED W/ THE LOCAL FIRE DEPARTMENT.
- COORDINATE SIZE AND LOCATION OF ALL DUCT SHAFT OPENINGS IN WALLS AND FLOORS. SEE MECHANICAL AND ELECTRICAL DRAWINGS.
- ALL DIMENSIONS ARE NOMINAL & ARE FROM FACE OF GYPSUM BOARD, SHEATHING, OR SUBSTRATE.
- REFER TO THE EQUIPMENT PLAN AND EQUIPMENT SCHEDULE FOR MORE INFORMATION ON THE EQUIPMENT. EQUIPMENT SHOWN ON THIS PLAN IS FOR REFERENCE ONLY.
- PROVIDE CONTINUOUS BEAD OF CLEAR SILICONE SEALANT AT INTERIOR SIDE OF ALL WALL TRANSITIONS. SEAL ALL NEW AND EXISTING OPENINGS IN FLOORS, STRUCTURAL DECK AND EXTERIOR WALLS IN ORDER TO PROVIDE A WEATHER TIGHT SEAL.
- ALL WALLS ARE AT 90° UNLESS NOTED OTHERWISE.
- PROPERLY PREPARE & CLEAN SUBSTRATES & SURFACES AS REQUIRED TO ACCEPT FINISHES, MATERIALS, TREATMENTS, ETC.
- G.C. SHALL PROVIDE FINAL CLEANING OF STORE AT END OF CONSTRUCTION.

## FLOOR PLAN LEGEND

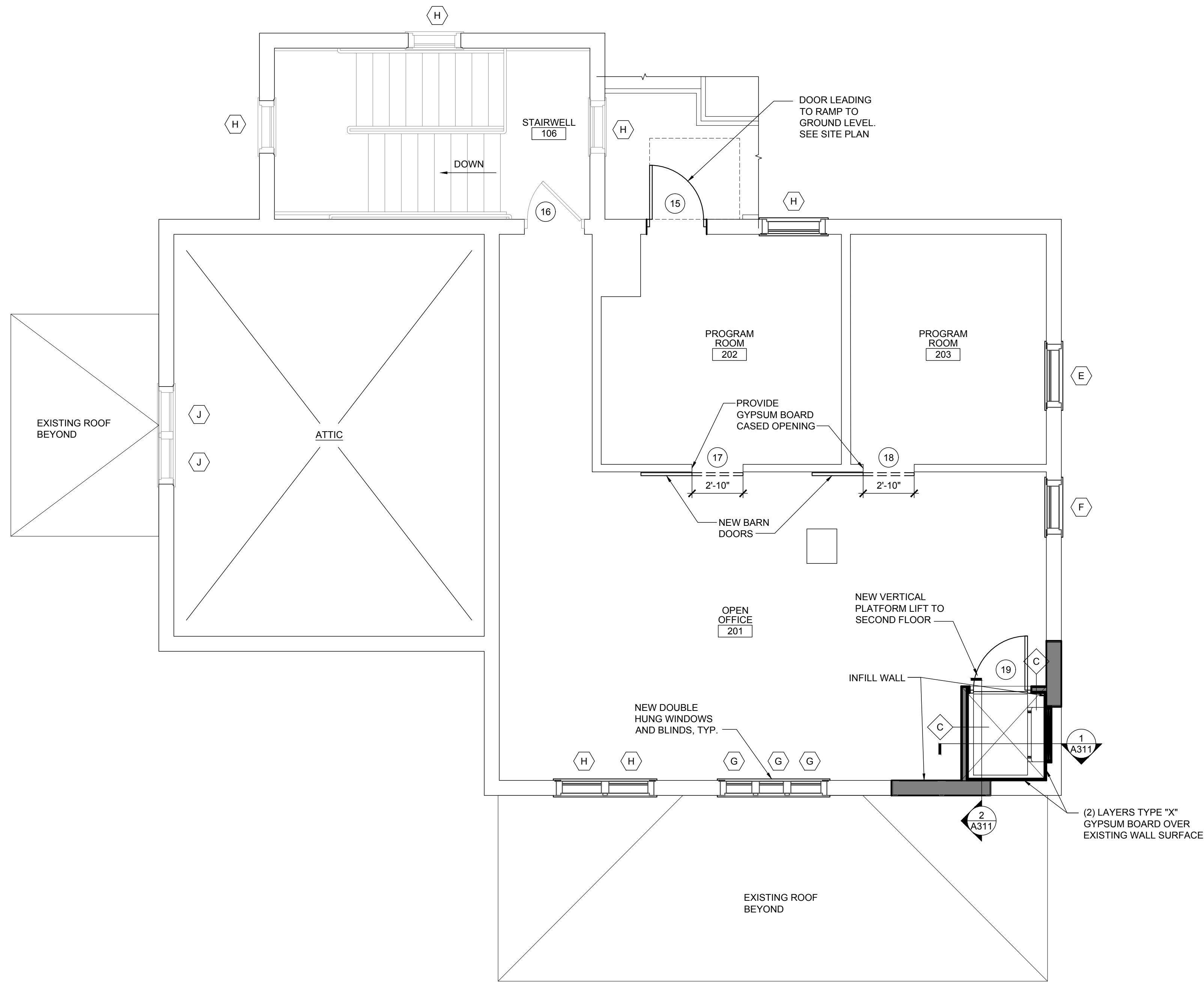
- |  |  |
|--|--|
|  | PARTIAL HEIGHT WALL CONSTRUCTION         |
|  | STUD WALL CONSTRUCTION                   |
|  | PARTITION TAG, SEE PARTITION TYPES BELOW |
|  | DOOR TAG, SEE DOOR SCHEDULE              |
|  | WINDOW TAG, SEE WINDOW SCHEDULE          |

## PARTITION TYPES

- |     |   |
|-----|---|
| A   | 1 HOUR WALL (BASED ON UL DESIGN U305). 2X4 WOOD STUD WALL WITH SOUND ATTENUATION BATT INSULATION, 5/8" GYPSUM BOARD EACH SIDE, TO BOTTOM OF FLOOR ABOVE.  |
| A.1 | 1 HOUR WALL (BASED ON UL DESIGN U305). 2X4 WOOD STUD WALL WITH SOUND ATTENUATION BATT INSULATION, 5/8" WATER RESISTANT GYPSUM BOARD ON KITCHENETTE SIDE, 5/8" GYPSUM BOARD ON OTHER SIDE, TO BOTTOM OF FLOOR ABOVE. |
| B   | 2X6 WOOD STUD WALL WITH SOUND ATTENUATION BATT INSULATION, AGAINST EXISTING MASONRY SUBSTRATE, 5/8" WATER RESISTANT GYPSUM BOARD ONE SIDE TO BOTTOM OF FLOOR ABOVE.   |
| C   | 1 HOUR SHAFT WALL (BASED ON UL DESIGN U499). 4" STEEL CH STUDS AT 24" O.C. WITH 1" SHAFT LINER ON ONE SIDE AND 5/8" FIRE RESISTANT GYPSUM BOARD ON OTHER SIDE.  |







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



## FLOOR PLAN GENERAL NOTES

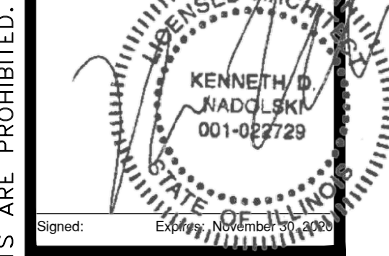
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- ALL WORK TO BE DONE IN ACCORDANCE WITH ALL GOVERNING STATE AND LOCAL CODES, ORDINANCES, AND AMENDMENTS.
- WATER RESISTANT GYPSUM BOARD OR CEMENT BOARD SHALL BE USED AT ALL WALLS IN TOILET ROOM, BEHIND ALL PLUMBING FIXTURES, AND ANY WET LOCATIONS - SEE PARTITION SCHEDULE FOR MORE INFORMATION.
- PROVIDE ALL REQUIRED IN WALL BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, MILLWORK, SHELVING, AND ACCESSORIES.
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## FLOOR PLAN LEGEND

- |  |  |
|--|--|
|  | PARTIAL HEIGHT WALL CONSTRUCTION         |
|  | STUD WALL CONSTRUCTION                   |
|  | PARTITION TAG, SEE PARTITION TYPES BELOW |
|  | DOOR TAG, SEE DOOR SCHEDULE              |
|  | WINDOW TAG, SEE WINDOW SCHEDULE          |

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SECOND FLOOR PLAN

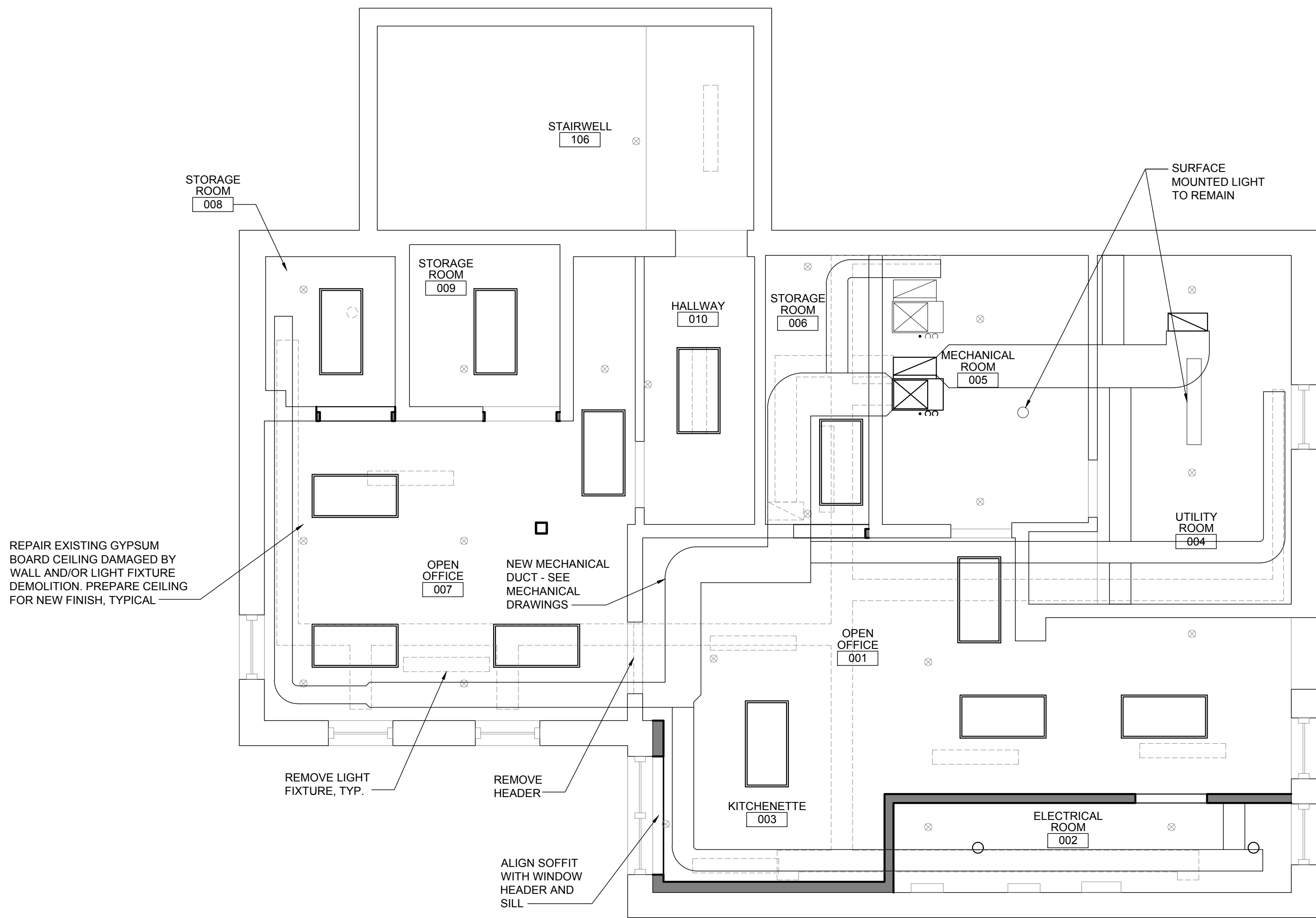
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HOFFMAN ESTATES, IL 60169  
OFFICE: 815.509.1342





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



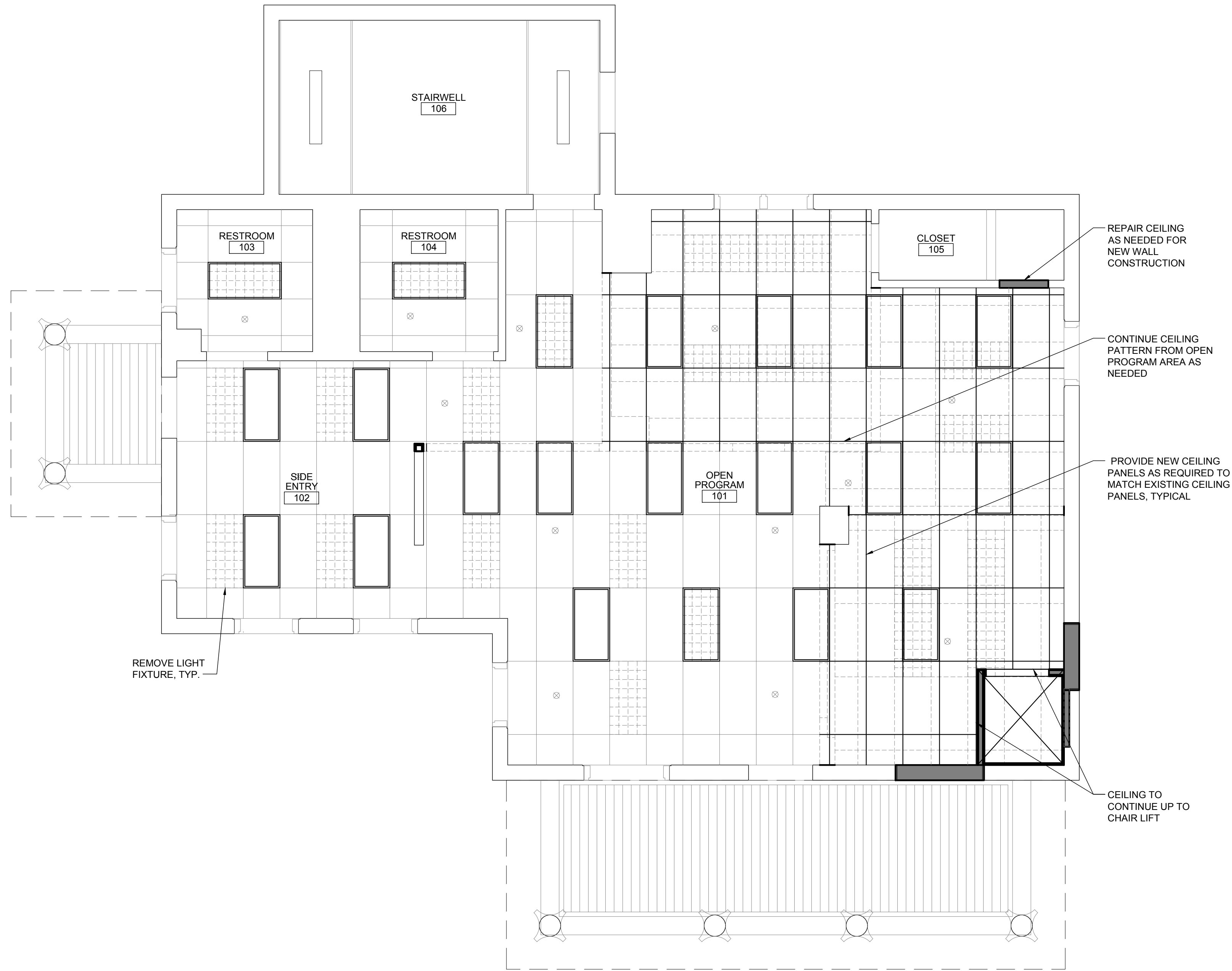
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- ALL DIMENSIONS ARE FROM FACE OF SUBSTRATE UNLESS NOTED OTHERWISE
- ALL CEILING HEIGHTS ARE TAKEN FROM PROJECT 0'-0".
- SEE ELECTRICAL DRAWINGS FOR LIGHTING SCHEDULE AND SPECIFICATIONS.
- PLACE ALL LIGHT FIXTURES IN THE CENTER OF TILES UNLESS NOTED OTHERWISE. ALIGN ALL FIXTURES IN THESE AREAS IN BOTH DIRECTIONS AND LAYOUT GRID AS SHOWN ON THE DRAWINGS SO THAT ALIGNMENT IS CONSISTENT. FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LAYOUT.
- COORDINATE LOCATION OF LIGHT FIXTURES AND POWER SUPPLY WITH ELECTRICAL DRAWINGS.
- CONTRACTOR TO SUBMIT LIGHTING CUTS TO OWNER FOR APPROVAL PRIOR TO ORDERING. CONTRACTOR SHALL VERIFY LIGHTING CATALOG NUMBER WITH ELECTRICAL DRAWINGS AND NOTIFY THE OWNER OF ANY DISCREPANCIES.
- GENERAL CONTRACTOR TO COORDINATE LIGHT FIXTURE CLEARANCE REQUIREMENTS WITH ABOVE CEILING UTILITIES, I.E. PLUMBING, CONDUIT & DUCTWORK, BEFORE COMMENCING WORK.
- PAINT ALL EXPOSED DUCT WORK, PIPING, CONDUIT, AS INDICATED ON THE REFLECTED CEILING PLANS, FLOOR PLANS, AND ELEVATIONS.
- PAINT ALL DIFFUSERS TO MATCH ADJACENT CEILING FINISHES UNLESS NOTED OTHERWISE.
- ALL GYPSUM BOARD CEILINGS TO PAINTED UNLESS NOTED OTHERWISE.
- ELECTRICAL CONTRACTOR TO VERIFY ALL LOCATIONS OF WALL MOUNTED CLOCK OUTLETS, J-BOXES, AND ITEMS PROVIDED BY THE OWNER, SEE ELECTRICAL DRAWINGS.
- GENERAL CONTRACTOR TO PROVIDE POWER FOR EXTERIOR SIGNAGE. COORDINATE WITH TENANT'S SIGNAGE CONTRACTOR.
- GENERAL CONTRACTOR TO INSTALL CONDUIT AND PULL STRINGS IN CEILING AS REQUIRED BY CODE FOR LOW VOLTAGE SYSTEMS. COORDINATE WITH OWNER'S SOUND SYSTEM VENDOR AND SECURITY CAMERA VENDOR.
- GENERAL CONTRACTOR TO COORDINATE LOCATION OF ALL FIRE ALARM DEVICES PRIOR TO INSTALLATION.

## REFLECTED CEILING PLAN LEGEND

- |  |   |
|--|---|
|  | INDICATES CEILING HEIGHT  |
|  | 4'-0" SURFACE MOUNT LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS        |
|  | 2'-0" x 4'-0" LAY-IN LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS       |
|  | RECESSED DOWN LIGHT, SEE ELECTRICAL DRAWINGS                      |
|  | SURFACE MOUNTED SINGLE BULB LIGHT SOCKET, SEE ELECTRICAL DRAWINGS |
|  | EMERGENCY EXIT SIGN, SEE ELECTRICAL DRAWINGS                      |
|  | SPRINKLER HEAD  |





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



## REFLECTED CEILING PLAN GENERAL NOTES

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- GENERAL CONTRACTOR TO COORDINATE LOCATION OF ALL FIRE ALARM DEVICES PRIOR TO INSTALLATION.

## REFLECTED CEILING PLAN LEGEND

- XXX  
ELEV: X' - X"
- INDICATES CEILING HEIGHT
- 4'-0" SURFACE MOUNT LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- 2'-0" x 4'-0" LAY-IN LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- RECESSED DOWN LIGHT, SEE ELECTRICAL DRAWINGS
- SURFACE MOUNTED SINGLE BULB LIGHT SOCKET, SEE ELECTRICAL DRAWINGS
- EMERGENCY EXIT SIGN, SEE ELECTRICAL DRAWINGS
- SPRINKLER HEAD

HOFFMAN ESTATES PARK DISTRICT - VOGELI HOUSE REMODEL  
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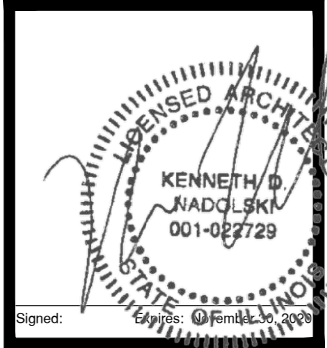
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FIRST FLOOR REFLECTED  
CEILING PLAN

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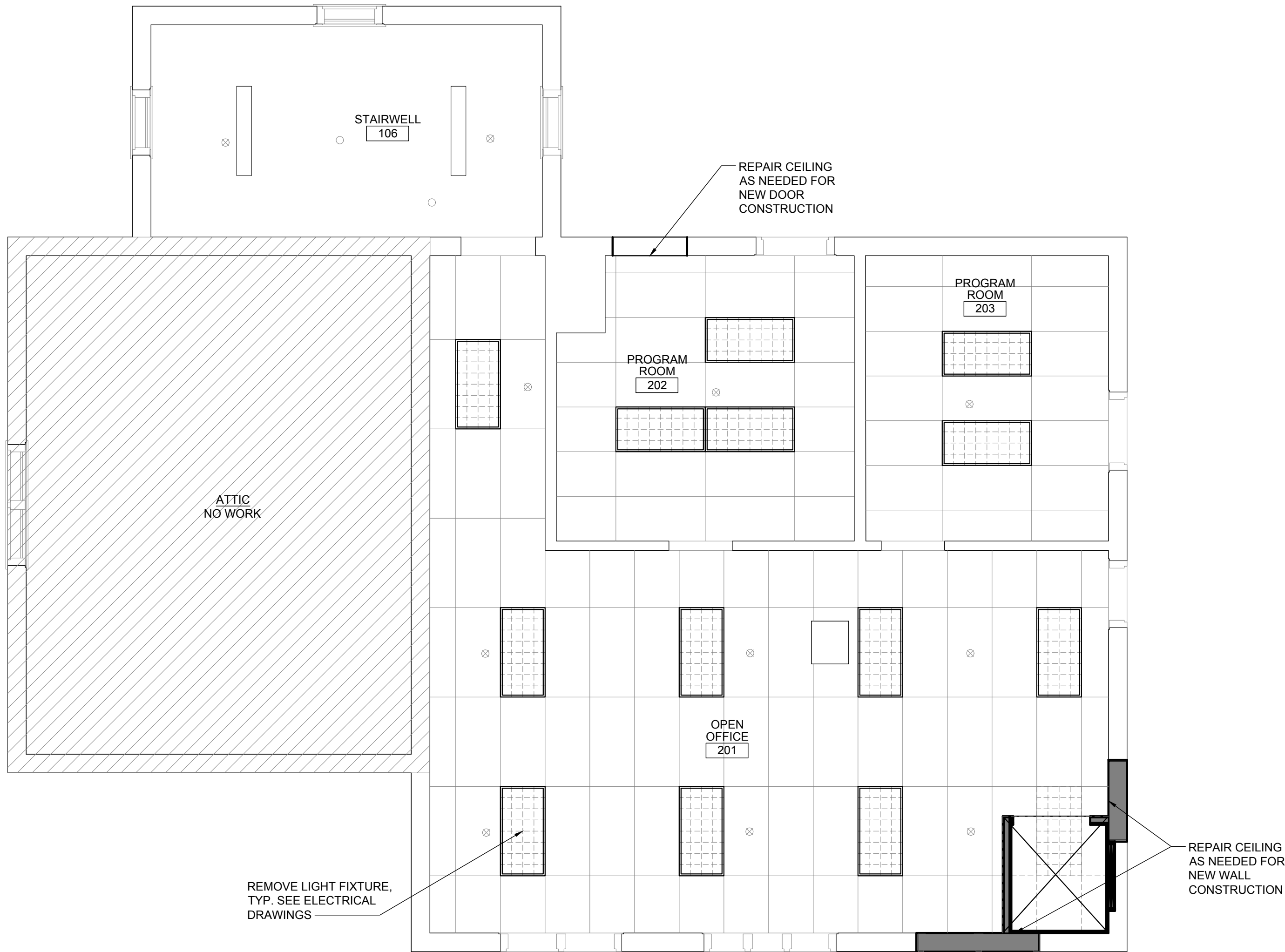
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HOFFMAN ESTATES, IL 60169  
OFFICE: 815.309.1342





REFLECTED CEILING PLAN  
GENERAL NOTES

A. ALL CONTRACTORS TO VERIFY EXISTING SITE CONDITIONS AND DIMENSIONS BEFORE ANY WORK IS TO BEGIN. NOTIFY ARCHITECT OF DISCREPANCIES.

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C. ALL DIMENSIONS ARE FROM FACE OF SUBSTRATE UNLESS NOTED OTHERWISE

D. ALL CEILING HEIGHTS ARE TAKEN FROM PROJECT 0'-0".

E. SEE ELECTRICAL DRAWINGS FOR LIGHTING SCHEDULE AND SPECIFICATIONS.

F. PLACE ALL LIGHT FIXTURES IN THE CENTER OF TILES UNLESS NOTED OTHERWISE. ALIGN ALL FIXTURES IN THESE AREAS IN BOTH DIRECTIONS AND LAYOUT GRID AS SHOWN ON THE DRAWINGS SO THAT ALIGNMENT IS CONSISTENT. FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LAYOUT.

G. COORDINATE LOCATION OF LIGHT FIXTURES AND POWER SUPPLY WITH ELECTRICAL DRAWINGS.

H. CONTRACTOR TO SUBMIT LIGHTING CUTS TO OWNER FOR APPROVAL PRIOR TO ORDERING. CONTRACTOR SHALL VERIFY LIGHTING CATALOG NUMBER WITH ELECTRICAL DRAWINGS AND NOTIFY THE OWNER OF ANY DISCREPANCIES.

I. GENERAL CONTRACTOR TO COORDINATE LIGHT FIXTURE CLEARANCE REQUIREMENTS WITH ABOVE CEILING UTILITIES, I.E. PLUMBING, CONDUIT & DUCTWORK, BEFORE COMMENCING WORK.

J. PAINT ALL EXPOSED DUCT WORK, PIPING, CONDUIT, AS INDICATED ON THE REFLECTED CEILING PLANS, FLOOR PLANS, AND ELEVATIONS.

K. PAINT ALL DIFFUSERS TO MATCH ADJACENT CEILING FINISHES UNLESS NOTED OTHERWISE.

L. ALL GYPSUM BOARD CEILINGS TO PAINTED UNLESS NOTED OTHERWISE.

M. ELECTRICAL CONTRACTOR TO VERIFY ALL LOCATIONS OF WALL MOUNTED CLOCK OUTLETS, J-BOXES, AND ITEMS PROVIDED BY THE OWNER, SEE ELECTRICAL DRAWINGS.

N. GENERAL CONTRACTOR TO PROVIDE POWER FOR EXTERIOR SIGNAGE. COORDINATE WITH TENANT'S SIGNAGE CONTRACTOR.

O. GENERAL CONTRACTOR TO INSTALL CONDUIT AND PULL STRINGS IN CEILING AS REQUIRED BY CODE FOR LOW VOLTAGE SYSTEMS. COORDINATE WITH OWNER'S SOUND SYSTEM VENDOR AND SECURITY CAMERA VENDOR.

P. GENERAL CONTRACTOR TO COORDINATE LOCATION OF ALL FIRE ALARM DEVICES PRIOR TO INSTALLATION.

REFLECTED CEILING PLAN LEGEND

XXX  
ELEV: X' - X"

INDICATES CEILING HEIGHT

4'-0" SURFACE MOUNT LIGHT  
FIXTURE, SEE ELECTRICAL  
DRAWINGS

2'-0" x 4'-0" LAY-IN LIGHT  
FIXTURE, SEE ELECTRICAL  
DRAWINGS

RECESSED DOWN LIGHT, SEE  
ELECTRICAL DRAWINGS

SURFACE MOUNTED SINGLE  
BULB LIGHT SOCKET, SEE  
ELECTRICAL DRAWINGS

EMERGENCY EXIT SIGN, SEE  
ELECTRICAL DRAWINGS

SPRINKLER HEAD

1 SECOND FLOOR REFLECTED CEILING PLAN

SCALE: 3/16" = 1'-0"

N

API ARCHITECTS

1015 PARKWAY AVENUE  
SUITE 200  
OFFICE 312.509.1342

SEAL

KENNETH J. MADON  
001-00729

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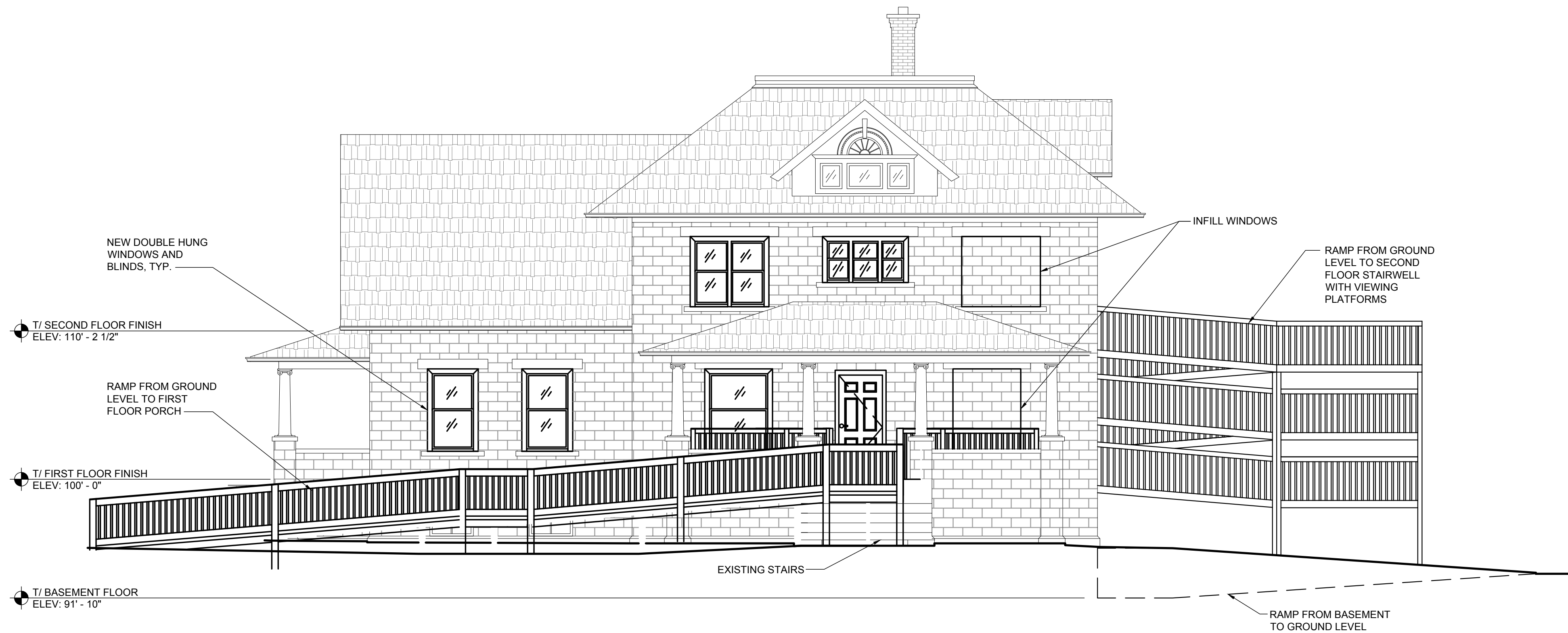
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2ND FLOOR REFLECTED  
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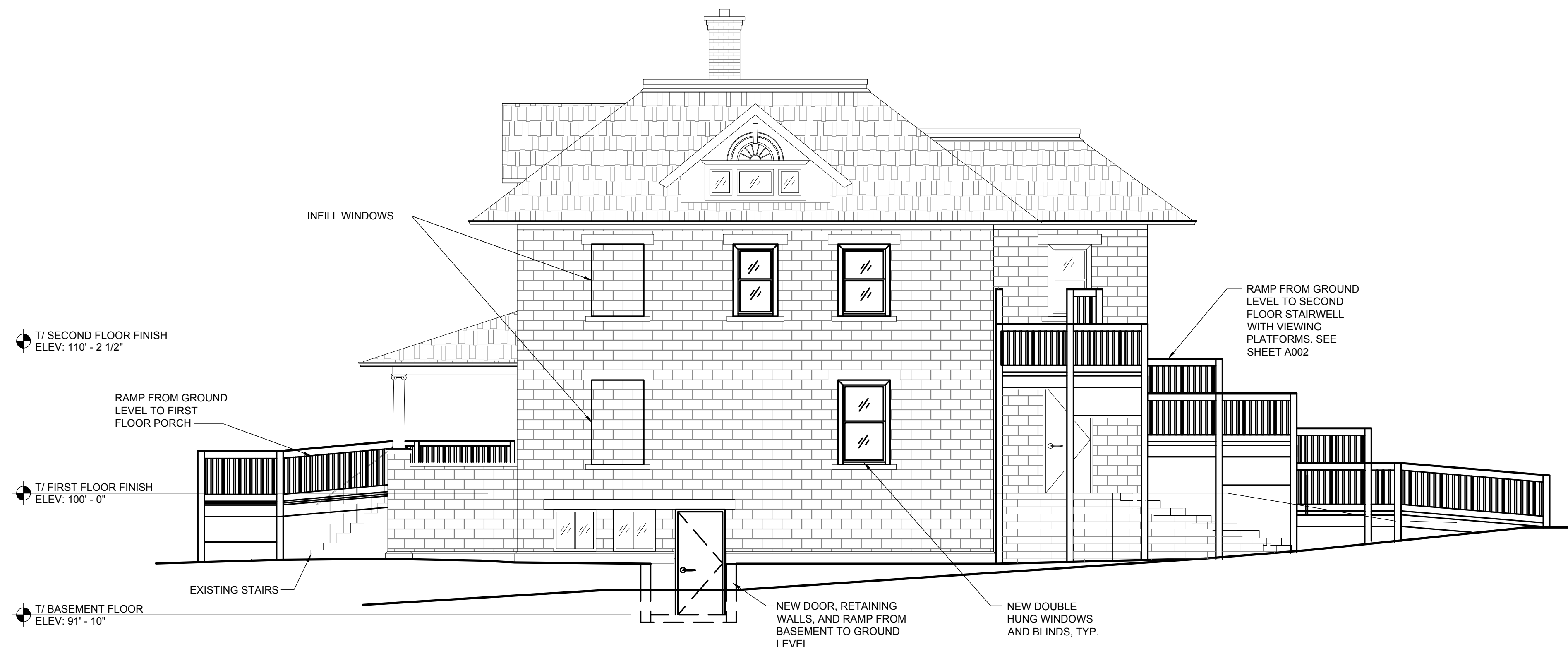


1 WEST ELEVATION  
SCALE: 3/16" = 1'-0"

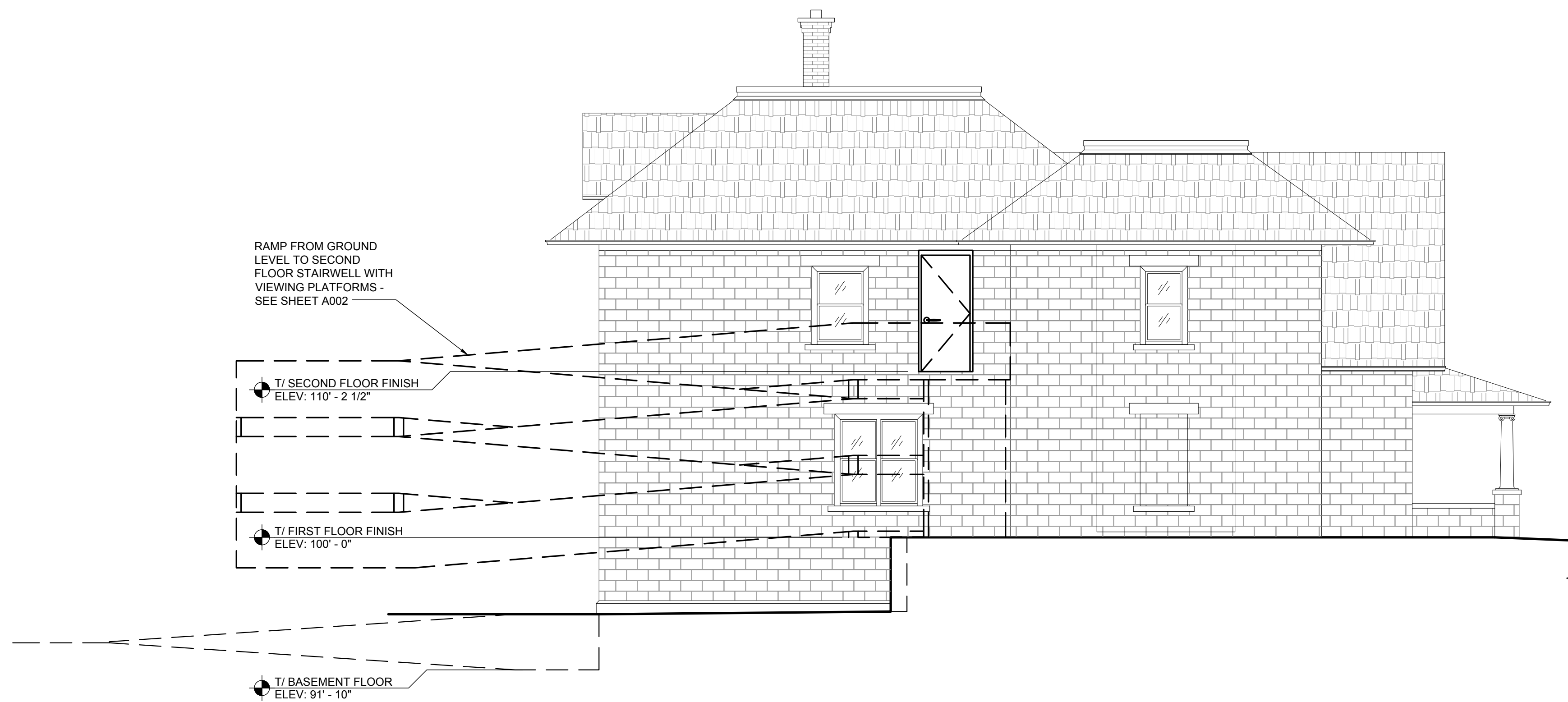


2 SOUTH ELEVATION  
SCALE: 3/16" = 1'-0"



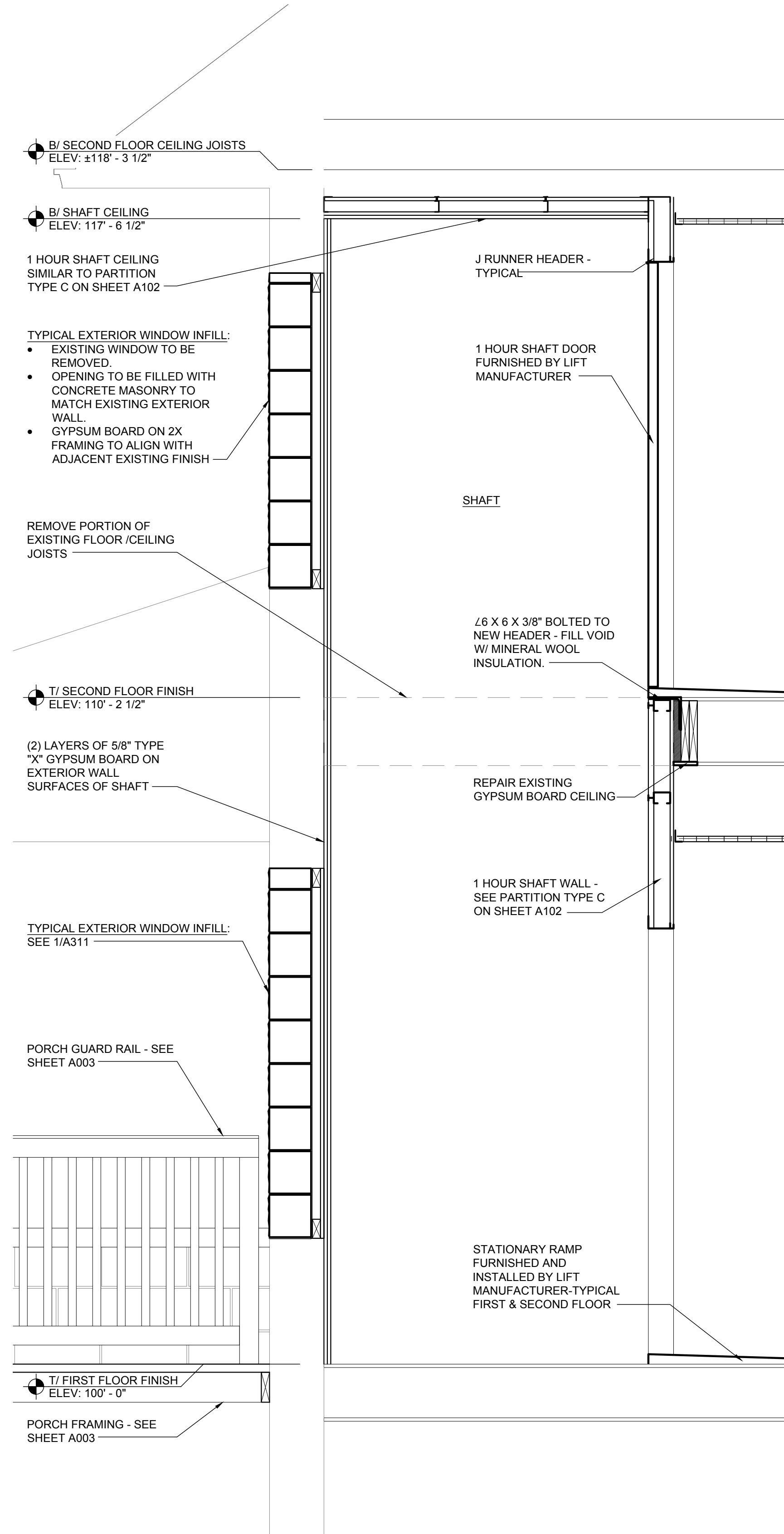


1 EAST ELEVATION  
SCALE: 3/16" = 1'-0"

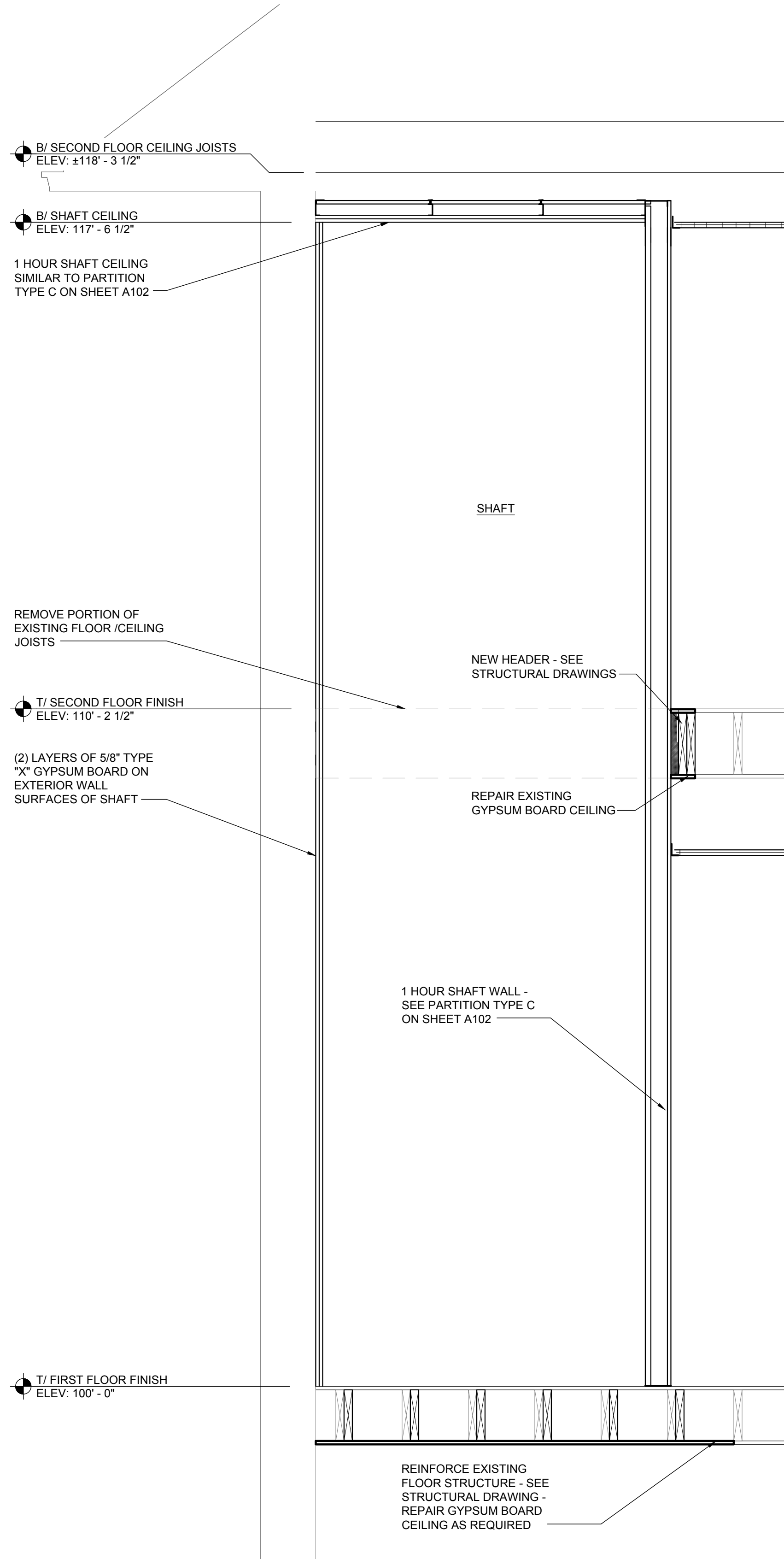


2 NORTH ELEVATION  
SCALE: 3/16" = 1'-0"





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



2 WALL SECTION  
SCALE: 3/4" = 1'-0"



ROOM FINISH SCHEDULE									
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL		CEILING			COMMENTS
				MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
001	OPEN OFFICE	EPOXY	-	MASON.	P1	G.B.	P1	EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
002	ELECTRIC ROOM	EPOXY	-	MASON/G.B.	P1	G.B.	P1	EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
003	KITCHENETTE	EPOXY	-	G.B.	P1	G.B.	P1	EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
004	UTILITY ROOM	EPOXY	-	MASON.	P1	G.B.	P1	EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
005	MECHANICAL ROOM	EPOXY	-	MASON.	P1	G.B.	P1	EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
006	STORAGE ROOM	EPOXY	-	MASON./G.B.	P1	G.B.	P1	EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
007	OPEN OFFICE	EPOXY	-	MASON.	P1	G.B.	P1	EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
008	STORAGE ROOM	EPOXY	-	MASON.	P1	G.B.	P1	EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
009	STORAGE ROOM	EPOXY	-	MASON.	P1	G.B.	P1	EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
010	HALLWAY	EPOXY	-	MASON./G.B.	P1	G.B.	P1	EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
101	OPEN PROGRAM	CARPET	-	G.B.	P1	ACT1.	MATCH EXIST.	MATCH EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
102	SIDE ENTRY	CARPET	-	G.B.	P1	ACT1.	MATCH EXIST.	MATCH EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
103	RESTROOM	EXIST.	-	G.B.	P1	ACT1.	MATCH EXIST.	MATCH EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
104	RESTROOM	EXIST.	-	G.B.	P1	ACT1.	MATCH EXIST.	MATCH EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
105	CLOSET	CARPET	-	G.B.	P1	ACT1.	MATCH EXIST.	MATCH EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
106	STAIRWELL	EXIST.	-	MASON.	P1	ACT1.	MATCH EXIST.	MATCH EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
201	OPEN OFFICE	CARPET	-	G.B.	P1	ACT1.	MATCH EXIST.	MATCH EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
202	PROGRAM ROOM	CARPET	-	G.B.	P1	ACT1.	MATCH EXIST.	MATCH EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
203	PROGRAM ROOM	CARPET	-	G.B.	P1	ACT1.	MATCH EXIST.	MATCH EXIST.	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH

ROOM FINISH ABBREVIATIONS:

MASON.      MASONRY  
G.B.          GYPSUM BOARD

INTERIOR FINISH LEGEND (X)						
TAG	ITEM DESCRIPTION	MANUFACTURER	PRODUCT NUMBER / COLOR	SIZE / SPECS	GROUT	COMMENTS
ACT1	SUSPENDED ACOUSTICAL CEILING SYSTEM	MATCH EXIST.	-	-	-	-
CARPET	TBD	-	-	-	-	-
EPOXY	TBD	-	-	-	-	-
P1	INTERIOR PAINT	SHERWIN WILLIAMS	#SW 7005 PURE WHITE TWO COATS	-	-	-
P2	INTERIOR PAINT	SHERWIN WILLIAMS	TBD	-	-	HOLLOW METAL DOOR & FRAME
P3	EXTERIOR PAINT	SHERWIN WILLIAMS	TBD	-	-	HOLLOW METAL DOOR & FRAME

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**ROOM FINISH SCHEDULE**

sheet number:  
**A701**

project no.      D2100051

date:            07.21.2021

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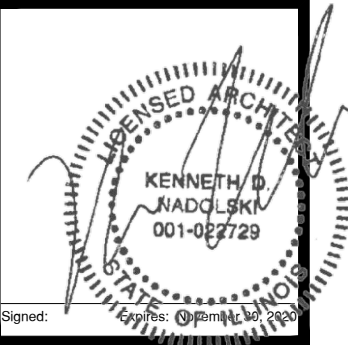
revision 3:

revision 4:

checked:            CM

drawn:               JB

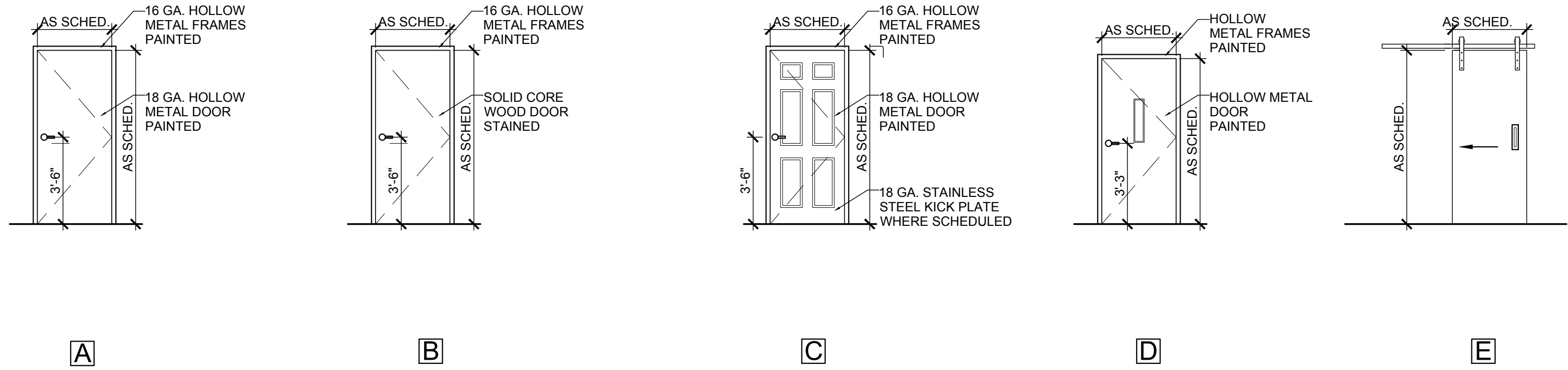
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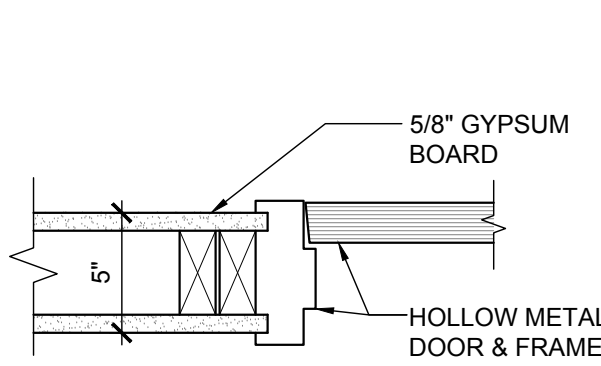
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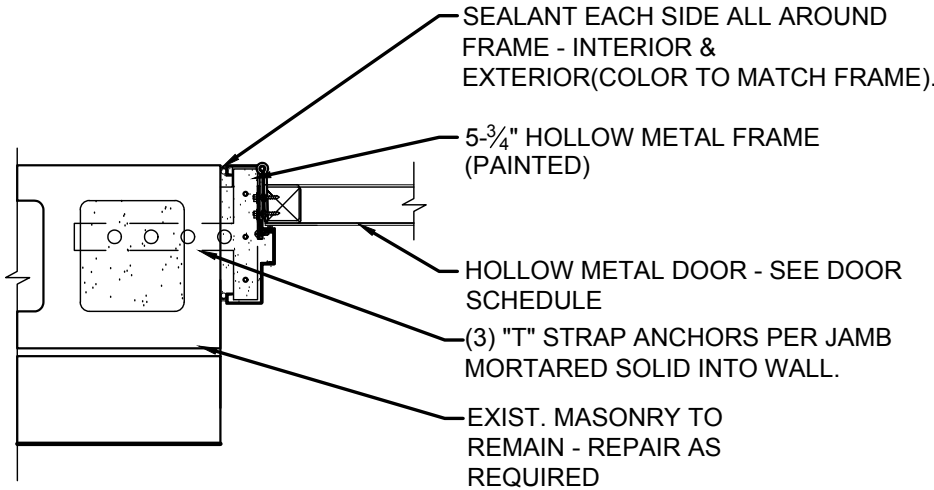
## 1 DOOR ELEVATIONS

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



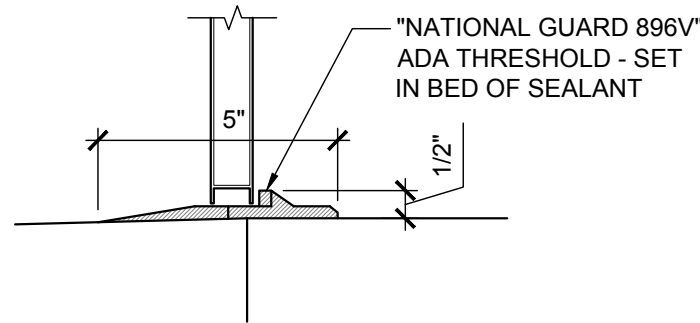
## 2 DOOR JAMB

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



## 3 DOOR JAMB

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

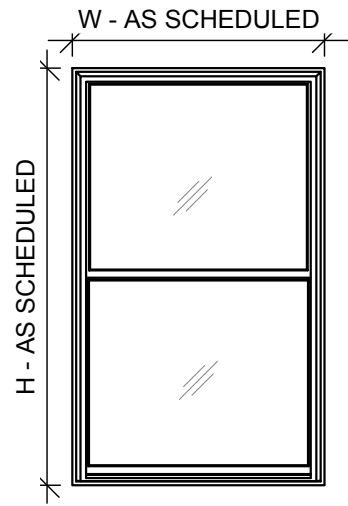


## 4 DOOR THRESHOLD

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

DOOR SCHEDULE <span>×</span>										
TAG	ROOM NAME	DOOR SIZE	FRAME SIZE	DOOR TYPE	MATERIAL DOOR / FRAME	THRESHOLD DETAIL	JAMB DETAIL	HARDWARE	FIRE RATING	COMMENTS
1	RAMP	3'-0" x 7'-0"	3'-4" x 7'-2"	A	H.M.	5/A702	3/A702	SET 1	-	EXTERIOR DOOR, INSULATED U=.10 MAX.
2	ELECTRICAL ROOM	3'-0" x 7'-0"	3'-4" x 7'-2"	A	H.M.	-	2/A702	SET 2	1-HOUR	
3	MECHANICAL ROOM	2'-6" x 7'-0" EXIST. TO REMAIN								
4	STORAGE ROOM	3'-0" x 7'-0"	3'-4" x 7'-2"	B	S.C./H.M.	-	2/A702	SET 2	-	
5	STORAGE ROOM	3'-0" x 7'-0"	3'-4" x 7'-2"	B	S.C./H.M.	-	2/A702	SET 2	-	
6	STORAGE ROOM	3'-0" x 7'-0"	3'-4" x 7'-2"	B	S.C.H.M.	-	2/A702	SET 2	-	
7	STAIRWELL	3'-0" x 7'-0" EXIST. TO REMAIN								
8	OPEN PROGRAM	3'-0" x 7'-0"	3'-4" x 7'-2"	C	H.M.	5/A702	3/A702	SET 1	-	EXTERIOR DOOR, INSULATED U=.10 MAX.
9	SIDE ENTRY	3'-0" x 7'-0"	3'-4" X 7'-4"	C	H.M.	5/A702	3/A702	SET 1	-	EXTERIOR DOOR, INSULATED U=.10 MAX.
10	STAIRWELL	3'-0" x 7'-0" EXIST. TO REMAIN								
11	RESTROOM	3'-0" x 7'-0" EXIST. TO REMAIN								
12	RESTROOM	3'-0" x 7'-0" EXIST. TO REMAIN								
13	STAIRWELL	3'-0" x 7'-0"	3'-4" X 7'-4"	A	H.M.	-	3/A702	SET 3	1-HOUR	
14	PLATFORM LIFT	3'-0" x 6'-8"	41 1/2" x 83 1/2"	D	H.M.	-	-	SET 5	1-HOUR	
15	RAMP	3'-0" x 7'-0"	3'-4" x 7'-2"	A	H.M.	5/A702	3/A702	SET 1	-	EXTERIOR DOOR, INSULATED U=.10 MAX.
16	STAIRWELL	3'-0" x 7'-0" EXIST. TO REMAIN								
17	PROGRAM ROOM	3'-0" x 7'-0"	-	E	WD.	-	-	SET 4	-	
18	PROGRAM ROOM	3'-0" x 7'-0"	-	E	WD.	-	-	SET 4	-	
19	PLATFORM LIFT	3'-0" x 6'-8"	41 1/2" x 83 1/2"	D	H.M.			SET 5	1-HOUR	
<b>DOOR HARDWARE</b>										
SET 1										
• 1 1/2 PAIR BUTT HINGES (4 1/2"x4 1/2" NRP)										
• LEVER HANDLE WITH KEY OUTSIDE LOCKSET (ANSI #F86-STORE ROOM LOCK) (SCHLAGE #D50BD, RHODES LEVER, #626 FINISH)										
• SECURITY: SCHLAGE B660 SINGLE CYLINDER DEADLOCK WITH ACCESSIBLE THUMBTURN ASSEMBLY 12-617 ON INTERIOR										
• HEAVY DUTY OVERHEAD CLOSER (LCN 1461)										
• "HOLD OPEN" DEVICE (HANGER 270C-S1)										
• WEATHERSTRIPPING										
• THRESHOLD										
SET 2										
• 1 1/2 PAIR BUTT HINGES (4 1/2"x4 1/2" NRP)										
• LEVER HANDLE WITH KEY OUTSIDE LOCKSET (ANSI #F86-STORE ROOM LOCK) (SCHLAGE #D50BD, RHODES LEVER, #626 FINISH)										
• HEAVY DUTY OVERHEAD CLOSER (LCN 1461)										
SET 3										
• 1 1/2 PAIR BUTT HINGES (4 1/2"x4 1/2" NRP)										
• LEVER HANDLE LOCKSET (ANSI #F75-PASSAGE) (SCHLAGE #D50BD, RHODES LEVER, #626 FINISH)										
• HEAVY DUTY OVERHEAD CLOSER (LCN 1461)										
SET 4										
• BARN DOOR HARDWARE										
• PULL HANDLE BOTH SIDES										
SET 5										
• DOOR HARDWARE (ELECTRIC INTERLOCK, DUMMY HANDLE, HINGES, DOOR CLOSER, 4' X 20" VISION PANEL) SUPPLIED BY LIFT MANUFACTURER.										
<b>NOTES</b>										
• ALL DOORS ARE 1 3/4" THICK - UNLESS NOTED OTHERWISE.										
• ALL INTERIOR HOLLOW METAL FRAMES ARE 16 GA. WELDED TYPE.										
• ALL CLOSERS AND HARDWARE TO BE US26D - UNLESS NOTED OTHERWISE.										
• ALL LOCKSETS TO BE KEYED SEPARATELY. ALL KEYWAYS TO BE STANDARD KEYWAYS.										
• CONTRACTOR TO CONFIRM THAT ALL CYLINDERS WILL BE PROVIDED FROM ONE SOURCE.										
• ALL CLOSERS AND LOCKSETS SHALL MEET ACCESSIBILITY REQUIREMENTS.										
• ALL HINGES ON DOORS WITH CLOSERS TO BE OIL IMPREGNATED BEARING TYPE.										
• ALL FRAMES TO RECIEVE STANDARD ANSI CURVED LIP STRIKE WITH ANSI WROUGHT STRIKE BOX WHERE REQUIRED.										
• ALL CLOSERS TO BE SET FOR 110 DEGREE OPENING WHERE THE DOOR SWING WILL NOT BE IN CONFLICT WITH ADJACENT CONSTRUCTION.										
• ALL MOUNTING SCREWS FOR CLOSERS, CLOSER ARMS, AND OPERATOR ARMS ON ALUMINUM DOORS SHALL BE SCREWED INTO "NUTSERTS". NUTSERTS TO BE STAINLESS STEEL TYPE. THE PRESCRIBED USE OF THE NUTSERTS PRODUCT IS SUBJECT TO NO EXCEPTION BEING TAKEN BY THE ALUMINUM DOOR MANUFACTURER / INSTALLER.										
• EXTERIOR DOORS TO HAVE MAXIMUM 8.5 POUNDS PUSH/PULL OPENING FORCE.										
• INTERIOR DOORS TO HAVE MAXIMUM 5 POUNDS PUSH/PULL OPENING FORCE.										
• CONTRACTOR TO SUBMIT MANUFACTURER'S SPECIFICATIONS FOR DOOR HARDWARE.										
• ALL DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES SHALL BE INSTALLED AT LEAST 34" BUT NOT MORE THAN 48" ABOVE FINISH FLOOR.										
• THE OPERATING DEVICES SHALL BE CAPABLE OF OPERATION WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF WRIST TO OPERATE.										
• EGRESS DOORS SHALL OPEN READILY FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.										
• THE USE OF MACHINE SCREWS FOR CONTINUOUS HINGE ANCHORAGE IS REQUIRED. PROVIDE ADDITIONAL REINFORCING FOR THE HINGES IN THE FRAMES AND DOOR STILES.										
• THE HARDWARE INSTALLER TO CONFIRM THAT ALL CLOSERS HAVE THE BACKCHECK VALVE SCREWED IN, FOR PARALLEL ARM INSTALLATIONS.										
• CONTRACTOR TO REVIEW ALL DOOR ACTUATOR LOCATIONS WITH THE OWNER PRIOR TO INSTALLING BACK BOXES.										
• ALL HARDWARE ON RATED DOORS TO BEAR U.L. LABEL.										
ABBREVIATIONS: H.M.-HOLLOW METAL; S.C.-SOLID CORE; WD.-WOOD										

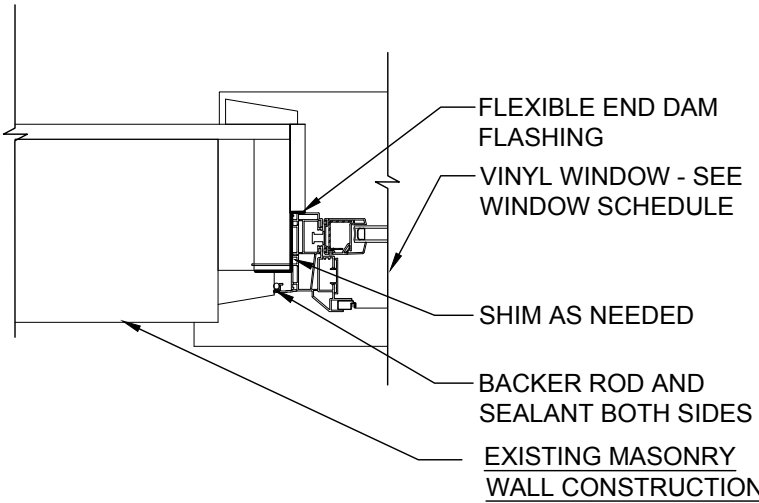




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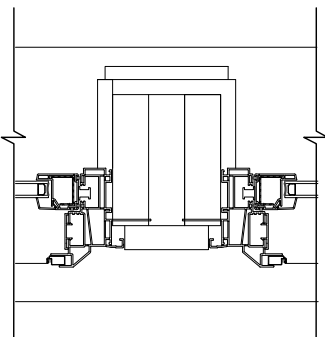
## 1 WINDOW ELEVATIONS

SCALE: 3/8" = 1'-0"



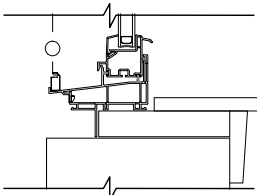
## 2 WINDOW JAMB

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



## 3 WINDOW JAMB

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



## 4 WINDOW SILL

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

### WINDOW SCHEDULE X

MARK	DIMENSION (W x H)	MANUFACTURER AND MODEL	FRAME	FINISH (EXTERIOR/INTERIOR)	JAMB	REMARKS
A	2'-2" x 5'-4"	PELLA 250 SERIES	VINYL	BROWN/WHITE	2/A703, 3/A703	-
B	2'-10" x 5'-4"	PELLA 250 SERIES	VINYL	BROWN/WHITE	2/A703	-
C	4'-0" x 5'-2"	PELLA 250 SERIES	VINYL	BROWN/WHITE	2/A703	-
D	2'-0" x 3'-3"	PELLA 250 SERIES	VINYL	BROWN/WHITE	2/A703	
E	2'-10" x 4'-6"	PELLA 250 SERIES	VINYL	BROWN/WHITE	2/A703	
F	2'-4" x 4'-6"	PELLA 250 SERIES	VINYL	BROWN/WHITE	2/A703	
G	1'-6" x 2'-10"	PELLA 250 SERIES	VINYL	BROWN/WHITE	2/A703, 3/A703	
H	2'-3" x 4'-6"	PELLA 250 SERIES	VINYL	BROWN/WHITE	2/A703, 3/A703	
J	2'-2" x 4'-6"	PELLA 250 SERIES	VINYL	BROWN/WHITE	2/A703, 3/A703	

#### GENERAL NOTES:

- CONTRACTOR TO FIELD MEASURE ALL WINDOW LOCATIONS BEFORE ORDERING
- KAWNEER (WINDOW MANUFACTURER) TO VERIFY SYSTEMS ORDERED ARE ADEQUATE FOR APPLICATIONS SHOWN

#### GLAZING:

- ALL EXTERIOR GLAZING TO BE DOUBLE-PANE INSULATED CLEAR, LOW-E COATING WITH ARGON GAS FILL, UNLESS NOTED OTHERWISE
- ALL INTERIOR GLAZING TO BE DOUBLE-PANE INSULATED, CLEAR, UNLESS NOTED OTHERWISE
- 1" TEMPERED, TEMPERED INSULATED OR INSULATED GLASS (SEE WINDOW ELEVATIONS)
- ALL SAFETY GLAZING SHALL BEAR REQUIRED PERMANENT IDENTIFYING MARKINGS REQUIRED FOR SAFETY GLAZING PER INTERNATIONAL BUILDING CODE
- ALL GLAZING SHALL BE LABELED FOR U-VALUE AND SHGC AS REQUIRED BY LOCAL ENERGY CODES

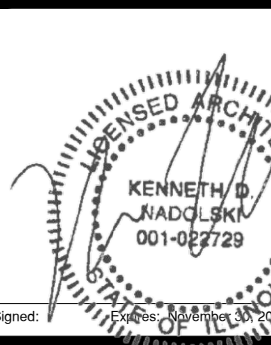
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project no. D2100051  
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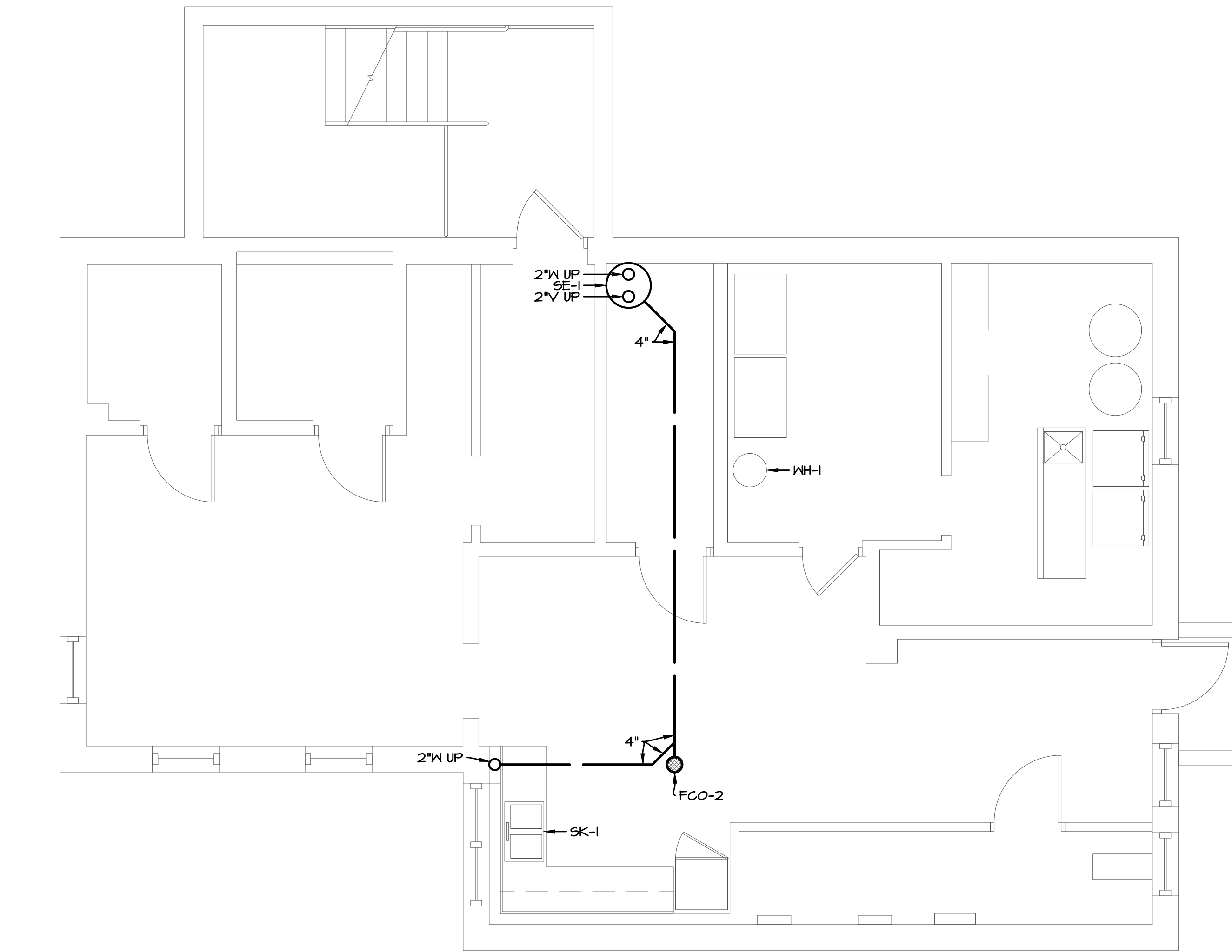
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AND ELEVATIONS  
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A703

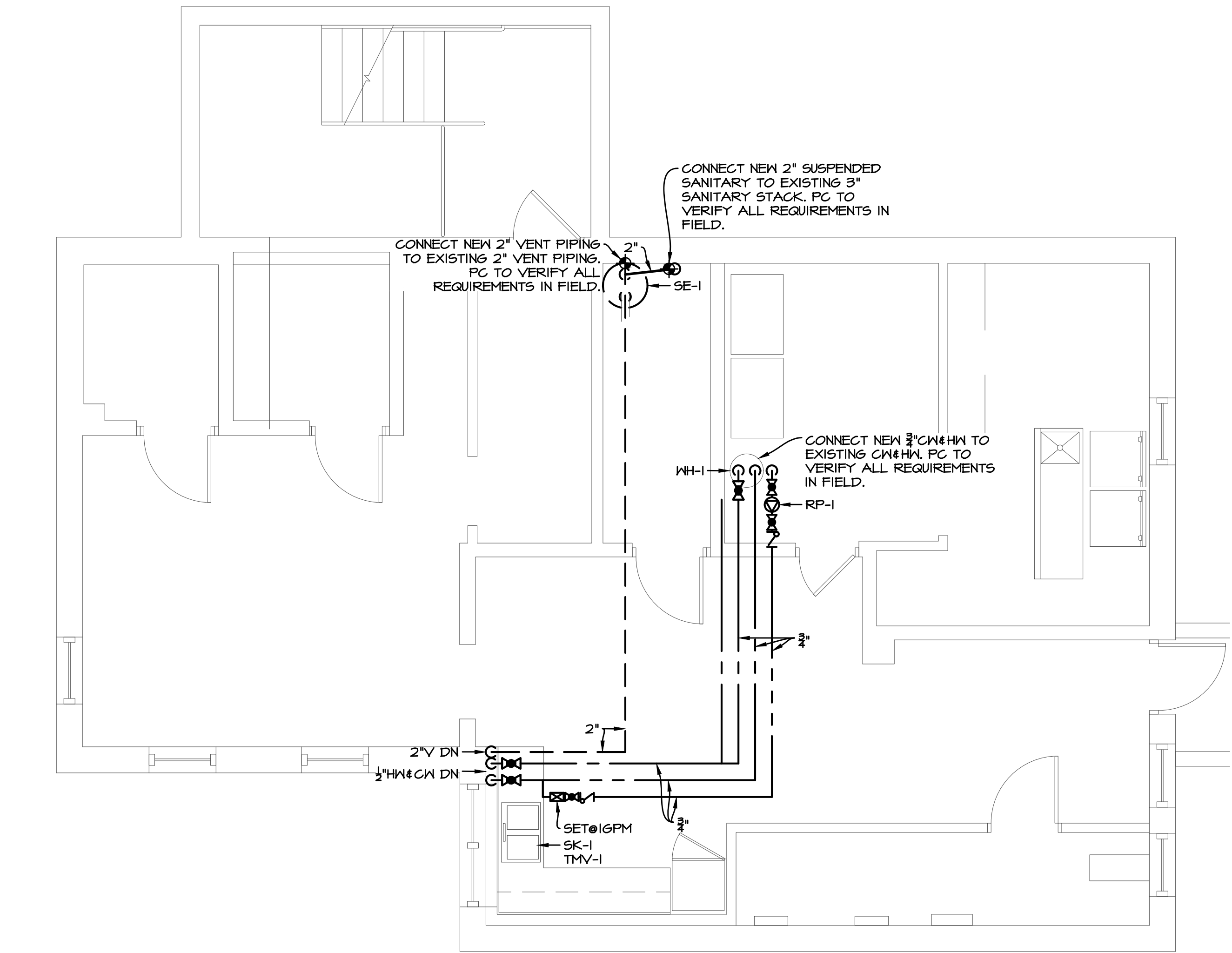
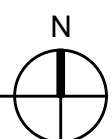


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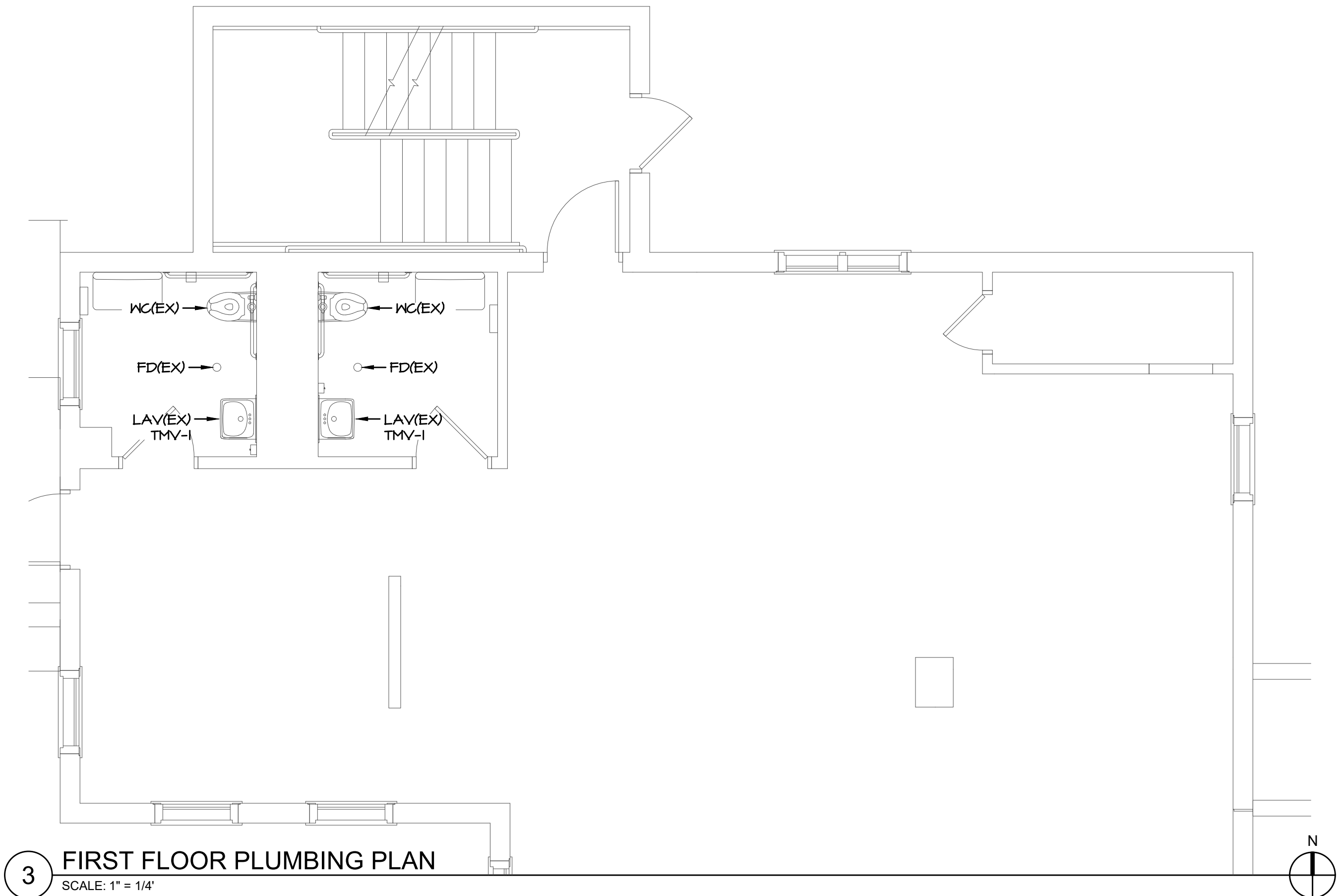
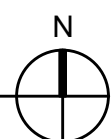




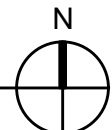
1 UNDERGROUND PLUMBING PLAN  
SCALE: 1" = 1/4"



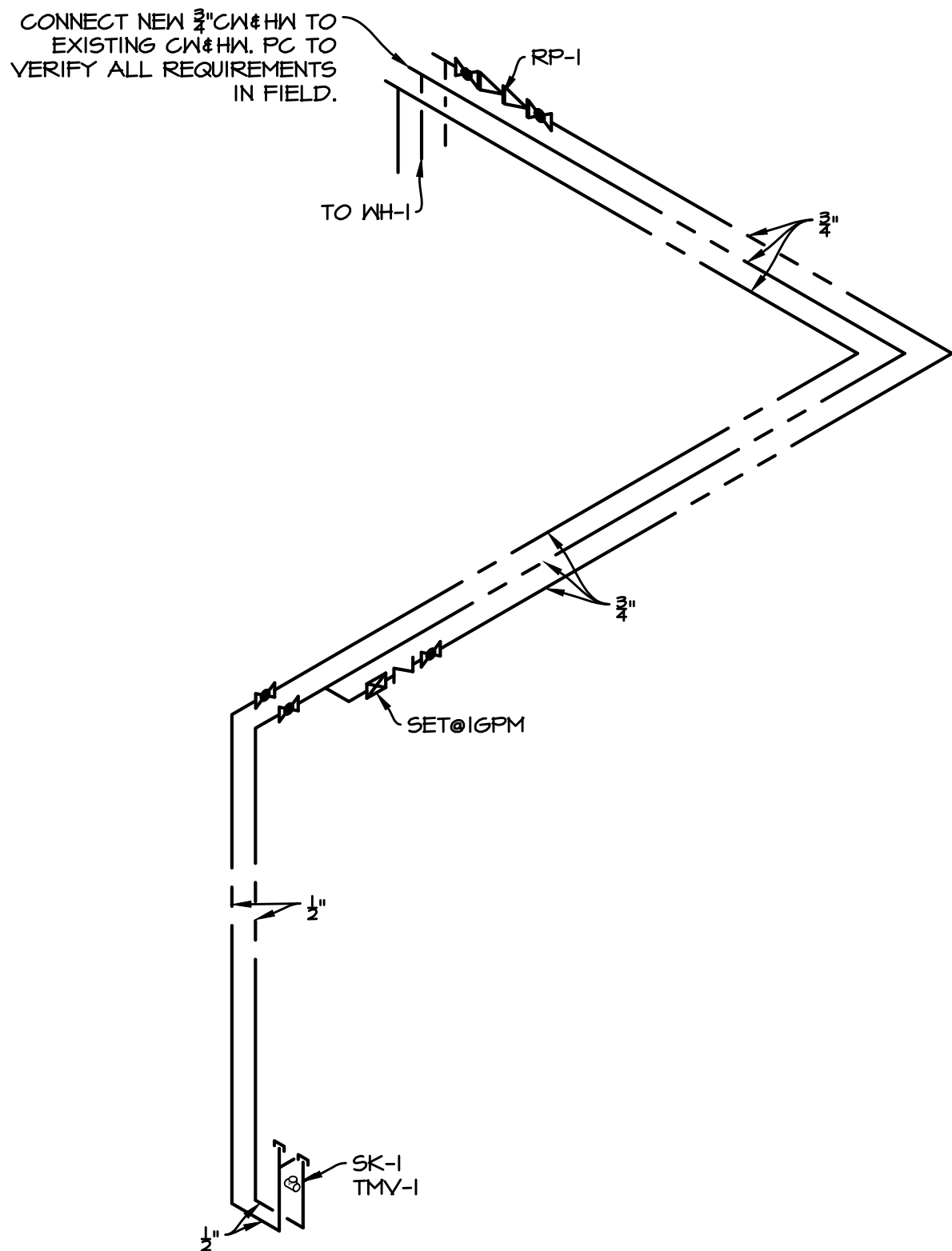
2 ABOVE GROUND PLUMBING PLAN  
SCALE: 1" = 1/4"



3 FIRST FLOOR PLUMBING PLAN  
SCALE: 1" = 1/4"

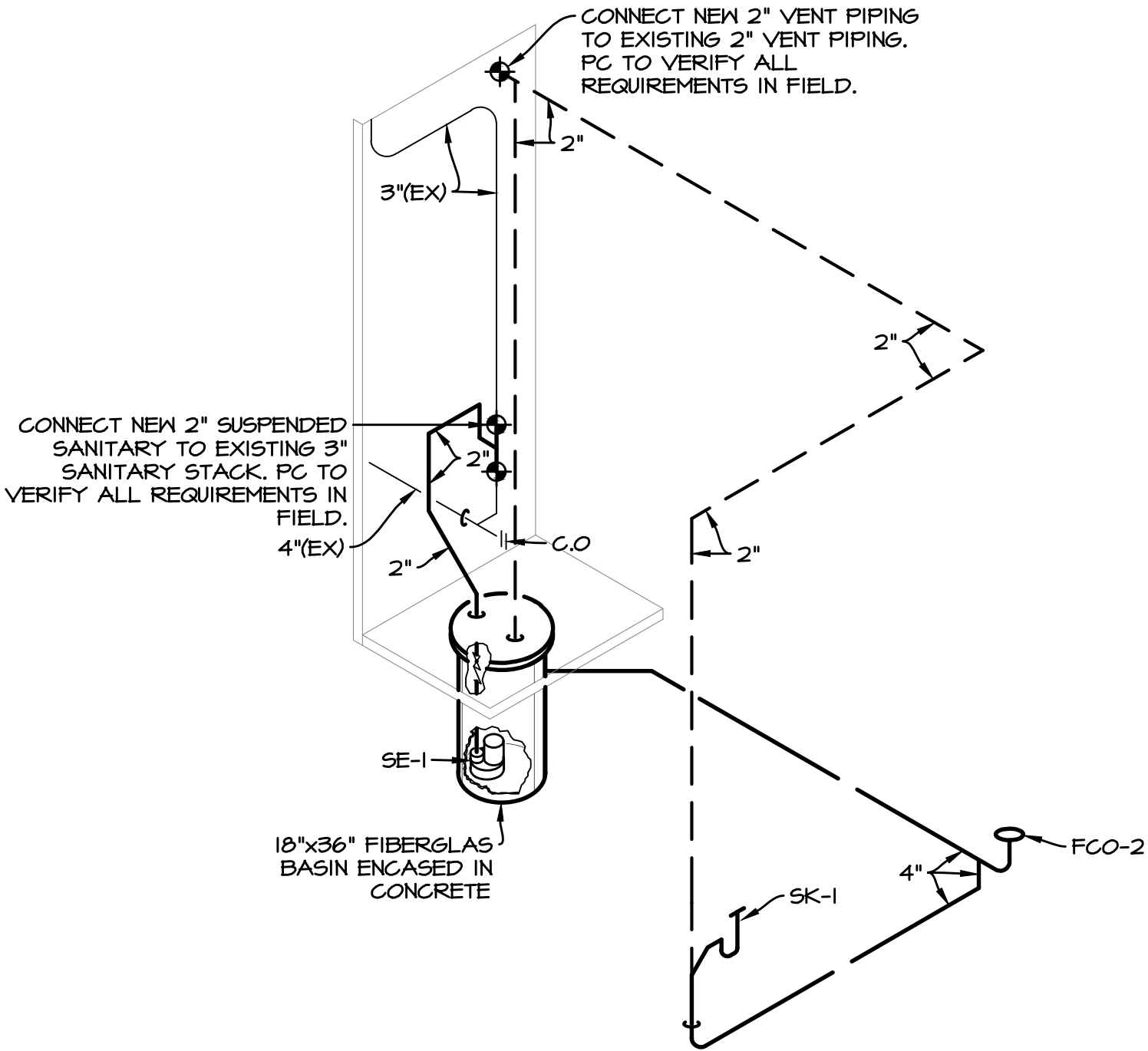






## WATER DIAGRAMS

SCALE: NONE



## WASTE & VENT DIAGRAMS

SCALE: NONE

## PLUMBING SYMBOLS

NOT ALL SYMBOLS MAY APPLY

	EXISTING COLD WATER PIPING
	EXISTING HOT WATER PIPING
	EXISTING UNDERGROUND SEWER
	EXISTING SUSPENDED SEWER
	EXISTING VENT PIPING
	COLD WATER PIPING (INSULATED)
	HOT WATER PIPING (INSULATED)
	HOT WATER RETURN PIPING (INSULATED)
	UNDERGROUND SEWER
	SUSPENDED SEWER
	VENT PIPING

	FCO-1 FLOOR CO ("SMITH" #4040, MIFAB C1220-S-3) FF
	FCO-2 FLOOR CO ("SMITH" #4020) FINISHED AREAS
	GV GATE VALVE ("NIBCO" #5-134 OR T-134)
	BV BALL VALVE ("NIBCO" #5-585-TO OR T-585-TO)
	BV BALANCING VALVE ("NIBCO" #5-1710 OR T-1710)
	NEW CONNECTION BETWEEN NEW AND EXISTING

CW - COLD WATER

DN - DOWN

HM - HOT WATER

HWR - HOT WATER RETURN

V - VENT

VIF - VERIFY IN FIELD

## EQUIPMENT SCHEDULE

SE-I	"ZOELLER" MODEL #M264 SEWAGE PUMP. PUMP SHALL BE RATED FOR 60 GPM AT 10 FEET OF HEAD. 4/10 HP. WIRE WITH 115 VOLT POWER (1.4A). PROVIDE CHECK VALVE AND GATE VALVE ON 2" DISCHARGE. PROVIDE NEW GAS-TIGHT COVER. 18"x36" FIBERGLASS BASIN. 10-0126 WITH HIGH-WATER ALARM.
SK-I	"ELKAY" MODEL #LRAD3322 LUSTERTONE DOUBLE BOWL ADA COMPLIANT STAINLESS STEEL SINK. SINK IS SEAMLESSLY DRAWN OF #18 GAUGE, TYPE 304 STAINLESS STEEL.  "SYMMONS" MODEL #S-23 SYMMETRIX SINGLE HANDLE KITCHEN FAUCET HAS 6" HANDLE AND A 8-3/4" SWING SPOUT  PROVIDE CHROME-PLATED ANGLES STOPS, ESCUTCHEONS, RISER TUBES, TAILPIECES AND P-TRAPS.
TMV-I	"SYMMONS" MODEL #8210CK POINT-OF-USE THERMOSTATIC MIXING VALVE WITH INTEGRAL CHECKS. (SET TEMPERATURE SHALL NOT EXCEED 110 DEGREES F)
NH-I	"AO SMITH" MODEL #6PDT 50 GAS FIRED WATER HEATER. HEATER HAS A CAPACITY OF 50 GALLONS. HEATER HAS A 45,00 BTUH INPUT. HEATER SHALL RECOVER 50.3 GALLONS PER HOUR AT A 40 DEGREE TEMPERATURE RISE.
ET-I	"AMTROL" MODEL #ST-5 THERMAL EXPANSION TANK. EXPANSION TANK SHALL BE INSTALLED ON THE WATER HEATER SIDE OF THE SHUT-OFF VALVE TO THE NH.
RP-I	"TACO" MODEL #003-BG4-IFC CARTRIDGE CIRCULATOR. PUMP SHALL PROVIDE 3 FT OF HEAD AT 3.0 GPM. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.  PROVIDE HONEYWELL AQUA-STAT WITH CIRCULATION PUMP

## PLUMBING NOTES

- 1) SAW CUT EXISTING FLOOR AND WALL CONSTRUCTION AS REQUIRED IN ORDER TO ACCOMMODATE NEW WASTE, VENT AND WATER SUPPLY PIPING. PATCH ALL NEW WORK TO MATCH EXISTING CONSTRUCTION. DEMOLITION OF ALL PLUMBING WASTE LINES SHALL NOT RESULT IN DEAD ENDS GREATER THAN 10'-0" IN LENGTH AND ALL WATER SUPPLY PIPING DEAD ENDS SHALL NOT EXCEED 2'-0" IN LENGTH.
- 2) ALL CLEAN-OUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEAN-OUT LOCATIONS, WITH EQUIPMENT CABINETS, ETC. PROVIDE FULL SIZED CLEANOUTS ON STRAIGHT RUN INTERVALS NOT TO EXCEED FIFTY (50') AS WELL AS AT EACH CHANGE OF DIRECTION GREATER THAN (60 DEGREES). FIXTURE TRAPS (I.E. FLOOR DRAINS) SHALL NOT CONSTITUTE CLEAN-OUT ACCESS POINTS IF A CABLE MUST MAKE TWO (2) OR MORE RIGHT ANGLE TURNS IN ORDER TO ENTER THE MAIN DRAIN OR STACK.
- 3) ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12" FROM ANY VERTICAL SURFACE AND 12'-0" HORIZONTALLY FROM ANY OUTSIDE FRESH AIR INTAKE OR A MINIMUM OF 24" ABOVE FRESH AIR IN-TAKES IF THE 12'-0" HORIZONTAL SEPARATION IS NOT POSSIBLE.
- 4) INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR AFFLIANCE.
- 5) PROVIDE 12" (MINIMUM) LONG AIR CHAMBERS ON ALL WATER SUPPLY LINES TO FIXTURES AND EQUIPMENT. PROVIDE WATER HAMMER ARRESTORS AT ALL FIXTURES WITH QUICK-CLOSING VALVES/FAUCETS.
- 6) PROVIDE DI-ELECTRIC UNIONS, COUPLINGS, ADAPTORS OR FLANGES AT ALL TRANSITIONS OF FERROUS PIPING TO NON-FERROUS PIPING.
- 7) PROVIDE NON-REMOVABLE/INTEGRAL VACUUM BREAKER ON ALL NEW AND EXISTING MOP BASIN FAUCETS AND ALL OTHER NEW AND EXISTING THREADED HOSE OUTLETS, HOSE BIBS AND WALL HYDRANTS.
- 8) COORDINATE ROUTING OF ALL PIPING SYSTEMS TO AVOID DUCTWORK, ELECTRICAL CONDUIT, BEAMS AND OTHER STRUCTURAL MEMBERS.
- 9) PROVIDE VALVE STEM EXTENSIONS AS REQUIRED FOR ALL INSULATED WATER SUPPLY PIPING.
- 10) PROVIDE GROUTING/CAULKING WHERE FIXTURES MEET WALLS, FLOORS, COUNTERTOPS, ETC.
- 11) ROUTE CIRCULATING HOT WATER DISTRIBUTION MAINS WITHIN 25 FEET (MINIMUM) OF EACH FIXTURE. PROVIDE AUTOMATIC PRESSURE COMPENSATING FLOW CONTROL VALVES FOR BALANCING CONTROL IN ACCESSIBLE LOCATIONS (PROVIDE ACCESS PANEL AS REQUIRED). INSULATE ALL RE-CIRCULATION PIPING.
- 12) ALL EXPOSED WASTE PIPING LOCATED IN TOILET ROOMS SHALL BE CHROME PLATED BRASS WITH MATCHING STOPS AND ESCUTCHEONS. PROVIDE LOOSE KEY TYPE STOPS IN ALL PUBLIC AREAS OR WHERE VANDAL RESISTANT INSTALLATIONS ARE REQUIRED. ALL RISER TUBES SHALL BE RIGID AND CHROME PLATED.
- 13) PROVIDE PROTECTIVE INSULATED PIPE COVERS ON P-TRAPS, ANGLE STOPS, OFFSET TAILPIECES, RISER SUPPLY TUBES, ETC. FOR ALL ADA ACCESSIBLE FIXTURES.
- 14) PROVIDE A.S.S.E. 1070 APPROVED POINT-OF-USE THERMOSTATIC MIXING VALVE TO SUPPLY 110 DEGREES (MAXIMUM) HOT WATER TO ALL PUBLIC AND ADA ACCESSIBLE LAVATORIES. PROVIDE 115 DEGREE F (MAXIMUM) HOT WATER TO ALL SHOWERS. PROVIDE 140 F DEGREE HOT WATER TO ALL FIXTURES WHERE HOT WATER IS REQUIRED FOR SANITIZING OR CLEANING.
- 15) PROVIDE A VACUUM RELIEF VALVE ON ALL ELEVATED OR BOTTOM FED WATER HEATERS IN ADDITION TO A TEMPERATURE & PRESSURE RELIEF VALVE.
- 16) PROVIDE DRIP VALVE ON THE DISCHARGE SIDE OF THE DOMESTIC WATER METER.
- 17) OUTLET TEMPERATURE ON ALL WATER HEATERS SHALL BE SET AT 135 DEGREES F (MINIMUM) AND THERMOSTATICALLY MIXED DOWN AT POINTS INDICATED ON PLANS.
- 18) ALL BACK-FLOW PREVENTION DEVICES SHALL BE TESTED IN-LINE AND APPROVED BY A CROSS-CONNECTION CONTROL DEVICE INSPECTOR BEFORE BEING PLACED INTO SERVICE. BACK-FLOW PREVENTION DEVICES SHALL BE TESTED AND MAINTAINED AT LEAST ANNUALLY BY A CROSS-CONNECTION CONTROL DEVICE INSPECTOR AND RECORDS TO VERIFY TESTING AND MAINTENANCE SHALL BE AVAILABLE AT THE SITE OF THE INSTALLATION OF THE DEVICE. BACK-FLOW PREVENTION DEVICES SHALL NOT BE INSTALLED MORE THAN 5'-0" ABOVE THE FLOOR. PROVIDE A PROTECTIVE STRAINER UPSTREAM OF ALL BACK-FLOW PREVENTION DEVICES UNLESS THE DEVICE CONTAINS A BUILT-IN STRAINER.
- 19) ALL WATER SUPPLY DISTRIBUTION PIPING CONVEYING "NON-POTABLE" WATER SHALL BE PERMANENTLY IDENTIFIED BY A DISTINCTIVE YELLOW-COLORED PAINT.
- 20) PLUMBING CONTRACTOR TO COORDINATE EXACT SIZE AND LOCATION OF EACH FLUE/VENT FOR EACH GAS-FIRED WATER HEATER. COORDINATE WITH MECHANICAL CONTRACTOR AND VERIFY ADEQUATE CHASE/CHIMNEY SPACE WITH ARCHITECT PRIOR TO START OF CONSTRUCTION.
- 21) PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL PVC INTAKE AND EXHAUST EACH GAS-FIRED WATER HEATER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 22) FURNISH FIRE RATED PIPE SLEEVE OR FIRE CAULKING ON ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS/FLOORS.
- 23) PLUMBING CONTRACTOR TO VERIFY ALL EXISTING WASTE, VENT AND WATER SUPPLY PIPING WHERE NEW CONNECTIONS ARE TO BE MADE PRIOR TO BID. VERIFY EXACT SIZE, LOCATION, INVERT, CONDITION AND REQUIREMENTS IN FIELD. REPORT ANY MAJOR DISCREPANCIES TO ARCHITECT/ENGINEER IMMEDIATELY.

## PLUMBING SPECIFICATIONS

THE GENERAL CONDITIONS AND SUPPLEMENTAL GENERAL CONDITIONS ISSUED BY THE ARCHITECT SHALL GOVERN WHERE APPLICABLE.

THIS CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL VERIFY EXISTING SITE CONDITIONS AT THE JOB SITE BEFORE SUBMITTING BID. FAILURE TO RECOGNIZE WORK REQUIRED SHALL BE AT THE EXPENSE OF THIS CONTRACTOR. NO CONSIDERATION SHALL BE GIVEN FOR ADDITIONAL COMPENSATION AFTER THE LETTING OF BIDS.

ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEMS SHALL BE FULLY OPERATIONAL; ACCEPTANCE BY THE OWNER SHALL BE A CONDITION OF THE CONTRACT. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCES, PRESERVE MAXIMUM HEADROOM, AND AVOID OMISSIONS.

CONTRACTOR TO MAKE ALL NECESSARY TAPS, AS CALLED FOR ON THE DRAWINGS.

THIS CONTRACTOR SHALL REMOVE ALL DEBRIS ON A REGULAR BASIS AND UPON COMPLETION OF THE JOB AND CLEAN ALL FIXTURES.

COVER ALL HOT, COLD AND HOT WATER RETURN LINES, ROOF DRAINS AND HORIZONTAL DOWNSPOUT PIPING. PIPE COVERING TO BE SHALL BE 3-1/2 LB. DENSITY FIBERGLASS WITH MOLDED FITTINGS AND BUTT JOINTS AND VAPOR BARRIERS. WATER PIPING INSULATION SHALL BE INSTALLED PER 2015 IECC SEC. C404.5 & C404.6.

IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO START UP, ADJUST AND CHECK FOR PROPER OPERATION ALL EQUIPMENT INSTALLED UNDER HIS CONTRACT.

THIS CONTRACTOR SHALL ALLOW IN HIS INITIAL BID THE COST OF SERVICE ON ALL EQUIPMENT INSTALLED UNDER HIS CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE OF THE WORK.

ALL WATER PIPING SHALL BE TESTED WITH WATER UNDER PRESSURE OF 100 PSI FOR 10 MINUTES, AND MADE TIGHT AT THIS PRESSURE.

ALL SOIL, WASTE AND VENT PIPING SHALL BE SUBJECTED TO A HYDROSTATIC TEST OF NOT LESS THAN 10 FEET OF WATER COLUMN FOR 15 MINUTES BEFORE INSPECTION STARTS AND PROVEN TIGHT.

BEFORE TURNING PLUMBING SYSTEM OVER TO THE OWNER, CHLORINATE ALL DOMESTIC WATER PIPING FOR A PERIOD OF 24 HOURS. AFTER CHLORINATION HAS BEEN COMPLETED, FLUSH ALL PIPING UNTIL WATER RUNS CLEAR AND IS RESIDUAL CHLORINE FREE.

ALL BELOW GROUND WASTE & VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON. SCHEDULE 40 PVC IS ACCEPTABLE IF PERMITTED BY LOCAL CODE. THE MINIMUM DIAMETER FOR ALL UNDERGROUND WASTE PIPING IS FOUR (4) INCHES. THE MINIMUM DIAMETER FOR ALL UNDERGROUND VENT PIPING IS TWO (2) INCHES. ALL BELOW GROUND WATER PIPING SHALL BE TYPE "K" COPPER. ALL ABOVE GROUND WATER PIPING SHALL BE TYPE "L" COPPER. ALL ABOVE GROUND WASTE AND VENT PIPING 2" AND SMALLER SHALL BE TYPE "M" COPPER. ALL ABOVE GROUND WASTE AND VENT PIPING 3" AND LARGER SHALL BE SERVICE WEIGHT CAST IRON. SCHEDULE 40 PVC IS ACCEPTABLE FOR ABOVE GROUND D.W.V. SYSTEMS IN NON-PLENUM CEILINGS IF PERMITTED BY LOCAL CODE.

THE PLUMBING SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH THE STATE OF ILLINOIS PLUMBING CODE AND ALL LOCAL CODES, AMENDMENTS AND ORDINANCES.

## SPRINKLER SPECIFICATIONS

THE GENERAL CONDITIONS AND SUPPLEMENTAL GENERAL CONDITIONS ISSUED BY THE ARCHITECT SHALL GOVERN WHERE APPLICABLE.

THIS CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AT THE JOB SITE BEFORE SUBMITTING BID. FAILURE TO RECOGNIZE WORK REQUIRED SHALL BE AT THE EXPENSE OF THIS CONTRACTOR. NO CONSIDERATION SHALL BE GIVEN FOR ADDITIONAL COMPENSATION AFTER THE LETTING OF BIDS.

ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEMS SHALL BE FULLY OPERATIONAL; ACCEPTANCE BY THE OWNER SHALL BE A CONDITION WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCES, PRESERVE MAXIMUM HEADROOM AND AVOID OMISSIONS.

CONTRACTOR TO MAKE ALL NECESSARY TAPS, AS CALLED FOR ON THE DRAWINGS.

THIS CONTRACTOR SHALL REMOVE ALL DEBRIS ON COMPLETION OF THE JOB AND CLEAN ALL FIXTURES.

IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO START-UP, ADJUST AND CHECK FOR PROPER OPERATION, ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

THIS CONTRACTOR SHALL ALLOW IN HIS INITIAL BID THE COST OF SERVICE ON ALL EQUIPMENT INSTALLED UNDER HIS CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL INSPECTION OF THE WORK.

THIS CONTRACTOR SHALL SUBMIT TO THE ARCHITECT/ENGINEER, OWNERS INSURANCE UNDERWRITER, AND LOCAL FIRE DEPARTMENT FOR APPROVAL COMPLETE INSTALLATION AND DESIGN DRAWINGS SHOWING THE SPRINKLER SYSTEM LAYOUTS. THE LAYOUT SHALL INDICATE ALL OF THE SPRINKLER PIPING, SPRINKLER HEAD LOCATIONS AND DETAILS OF ANCHORS AND SUPPORTS AS REQUIRED.

THE SPRINKLER SYSTEM SHALL BE LAID OUT TO ELIMINATE ALL CONFLICTS BETWEEN THE SPRINKLER SYSTEM AND THE STRUCTURE INCLUDING THE MECHANICAL AND ELECTRICAL SYSTEMS AS THEY ARE SHOWN ON THE CONTRACT DRAWINGS.

THE LAYOUT SHALL INDICATE COORDINATION BETWEEN SUCH ITEMS AS DUCTWORK, LIGHTS, STRUCTURAL MEMBERS, ETC. PIPE FOR ABOVE GRADE SHALL BE NEW SCHEDULE 40 FOR BRANCHES AND SCHEDULE 10 FOR MAINS, STANDARD WEIGHT STEEL DESIGNED FOR 175 LB. WORKING PRESSURE, CONFORMING TO A.S.A. B36.10 MANUFACTURED IN THE U.S.

FITTINGS SHALL BE NEW 125 LB. CAST IRON SCREENED OR FLANGED CONFORMING TO A.S.A. B16.4, MANUFACTURED IN THE U.S. AND APPROVED FOR FIRE PROTECTION SPRINKLER SYSTEMS.

THE SPRINKLER RISERS, MAINS AND BRANCH PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, USING APPROVED TYPE STEEL HANGERS, BRACKETS, ANCHORS AND STUDS, OF SIZE AND NUMBER IN ACCORDANCE WITH N.F.P.A. #13.

THE SPRINKLER SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH PAMPHLET 13 OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND ALL REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT AND OWNER'S INSURANCE UNDERWRITER.

ALL PIPING ABOVE GRADE SHALL BE HYDROSTATICALLY TESTED AT 200 PSIG FOR A TWO-HOUR PERIOD IN ACCORDANCE WITH N.F.P.A. #24.

CONTRACTOR IS RESPONSIBLE FOR SPACING, PIPE SIZE, OFFSETS, CLEARANCES, VALVES, ELBOWS, HANGERS, ALL ACCESSORIES AND QUANTITIES FOR ALL.

THIS CONTRACTOR SHALL DESIGN AND INSTALL A COMPLETE SPRINKLER SYSTEM PER NFPA AND LOCAL CODES.

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**REGISTERED PROFESSIONAL ENGINEER**  
No. 062-05025  
State of Illinois  
EXPIRATION DATE 12/31/2025

**HOFFMAN ESTATES PARK DISTRICT - VOGELI HOUSE REMODEL**  
650 WEST HIGGINS ROAD  
HOFFMAN ESTATES, IL 60169

project no. D2100091  
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sheet number: P2.1

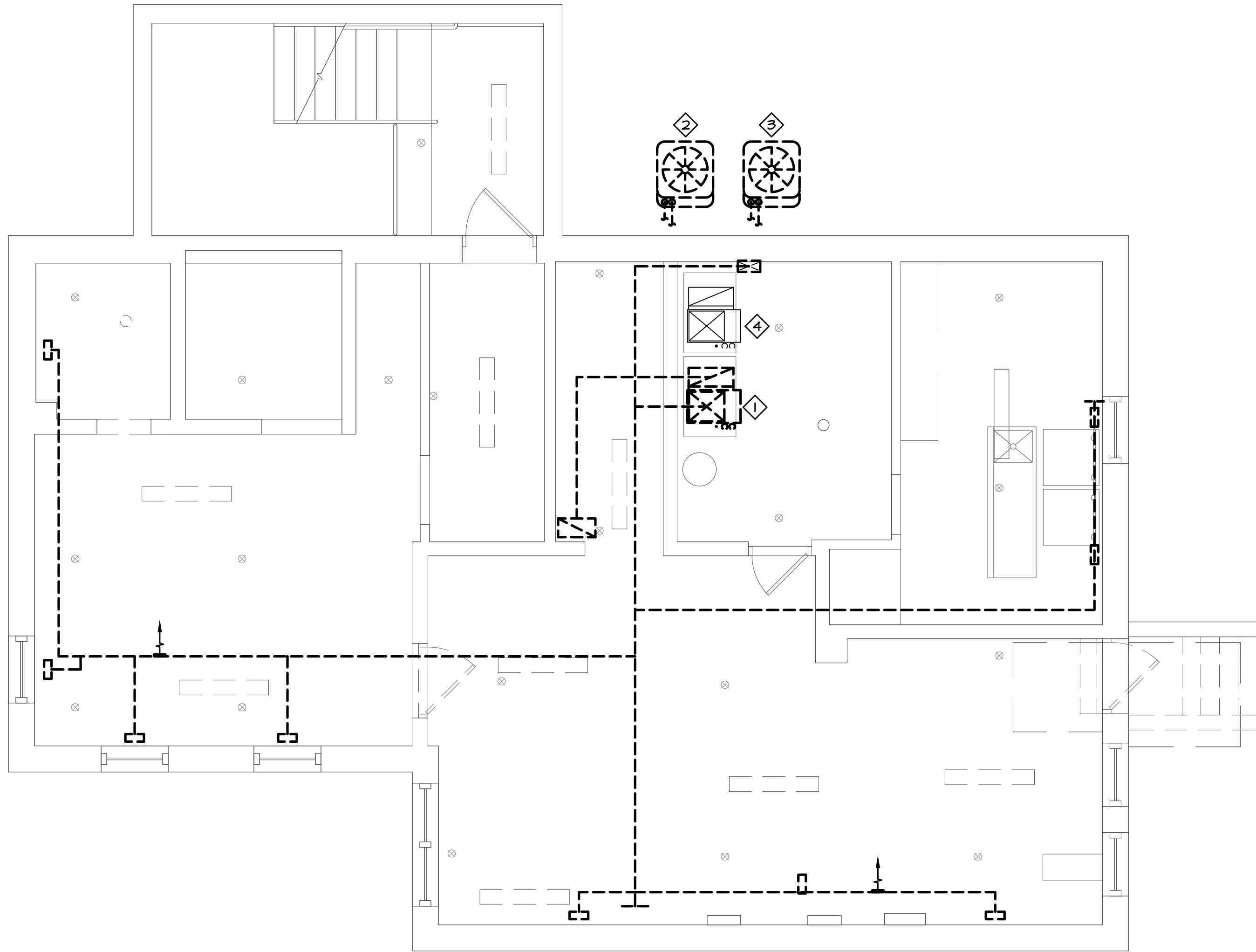
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1 MECHANICAL BASEMENT DEMOLITION PLAN

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



MECHANICAL KEY NOTES

1. REMOVE FURNACE AND ALL ASSOCIATED DUCTWORK AND AIR DEVICES. CAP GAS PIPING FOR REUSE.
2. REMOVE CONDENSING UNIT FOR RELOCATION. SEE NEW WORK FOR NEW LOCATION.
3. REMOVE CONDENSING UNIT AND ALL ASSOCIATED PIPING.
4. EXISTING FURNACE TO REMAIN.



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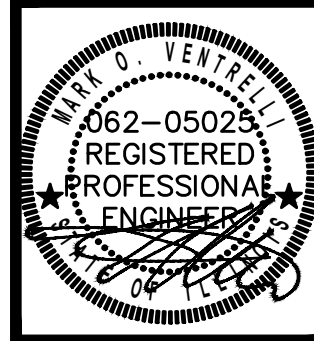
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sheet number: BASEMENT

MD1.1

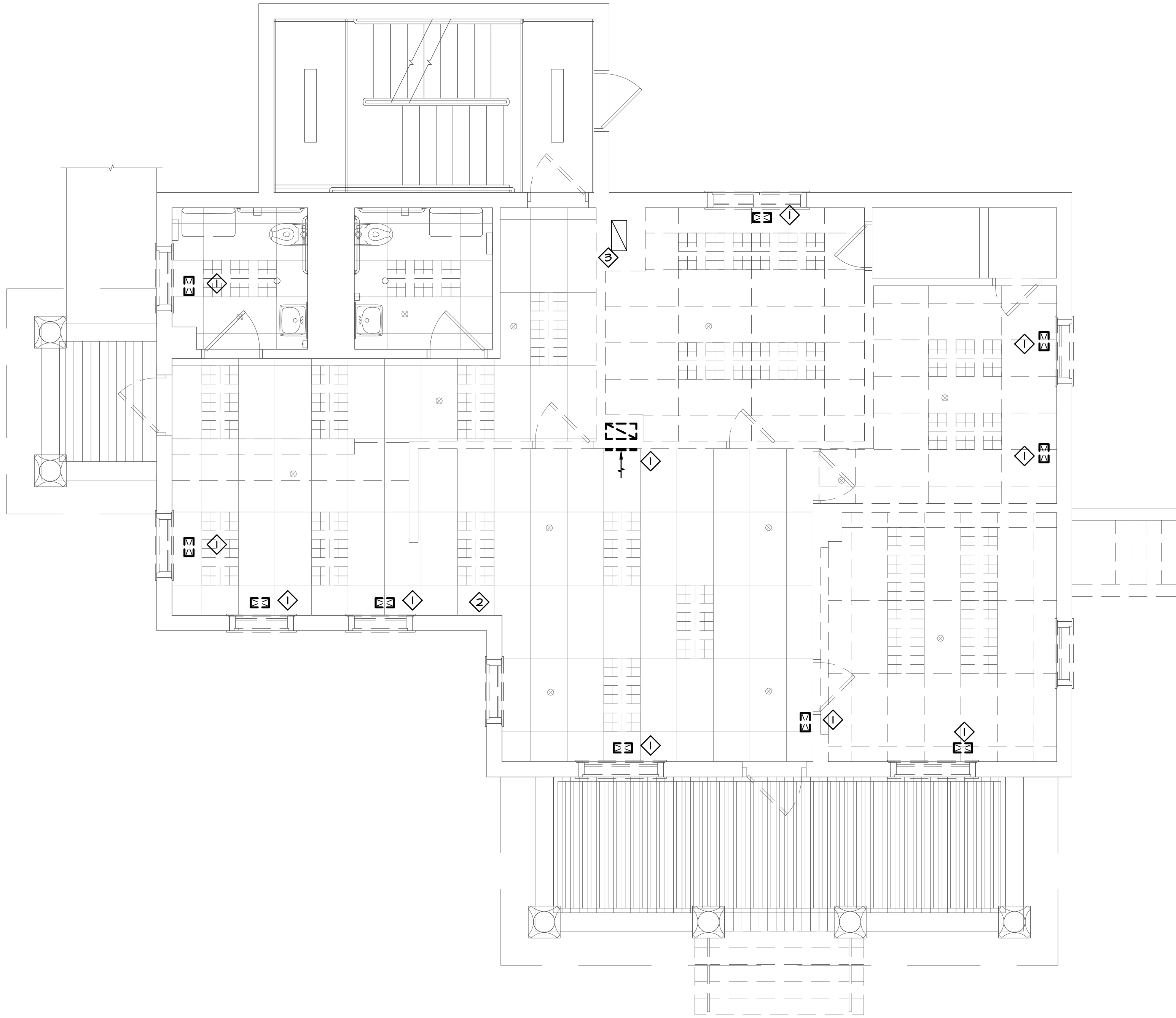


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1 MECHANICAL FIRST FLOOR DEMOLITION PLAN

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



◇ MECHANICAL KEY NOTES

1. REMOVE AIR DEVICE AND ASSOCIATED DUCTWORK.
2. REMOVE THERMOSTAT, HUMIDITY SENSOR, AND ALL ASSOCIATED WIRING.
3. RETURN DUCTWORK TO SECOND FLOOR TO REMAIN.



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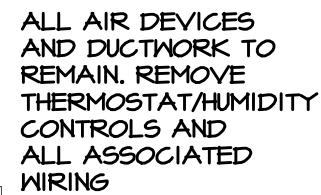
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sheet number: FIRST FLOOR

MD1.2

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

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**MECH. DEMO PLAN  
 SECOND FLOOR**


sheet number:  
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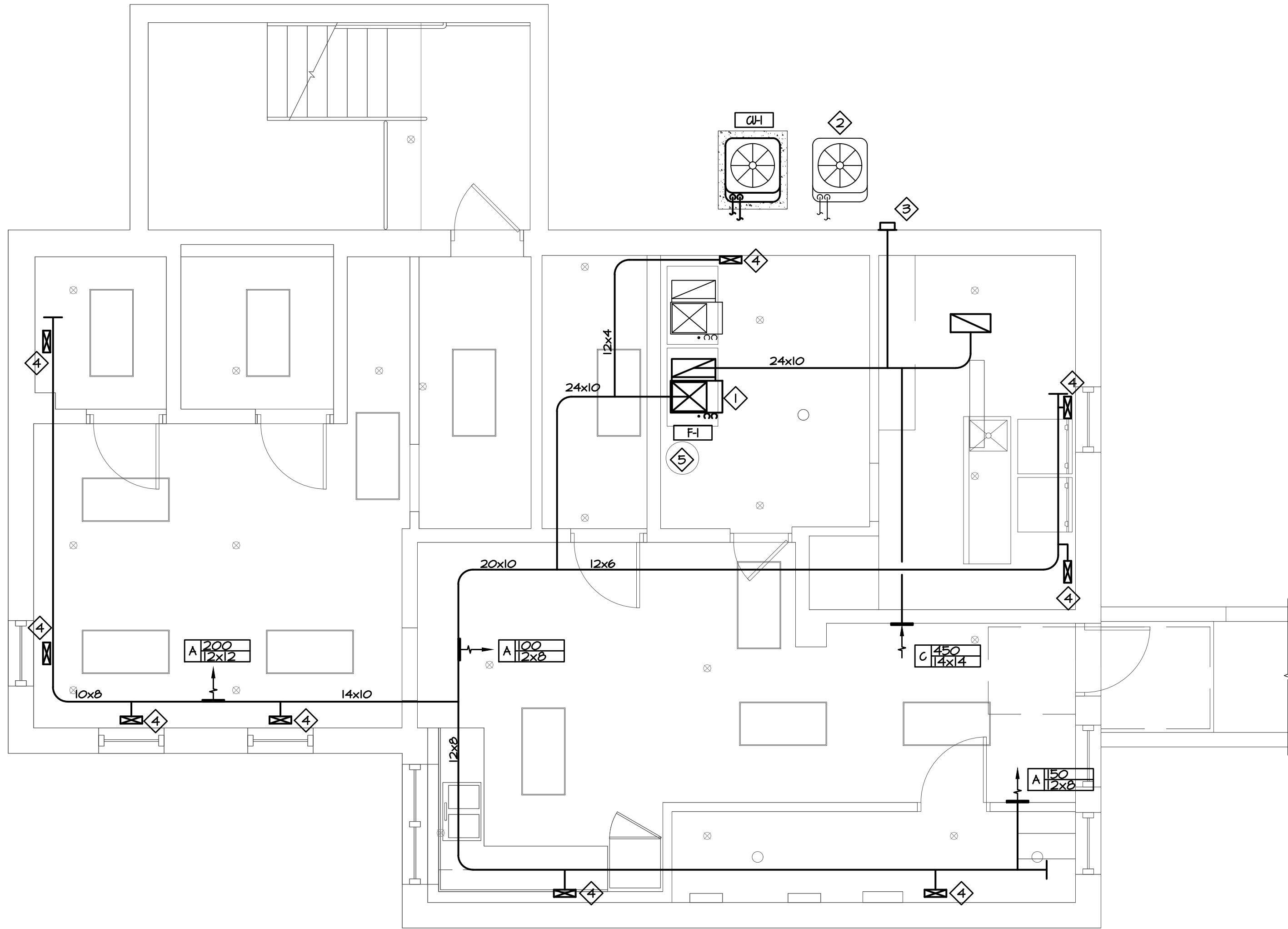
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MECHANICAL BASEMENT NEW WORK PLAN

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



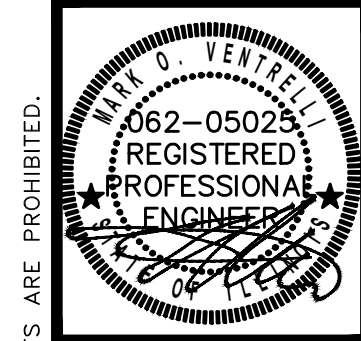
MECHANICAL KEY NOTES

- ROUTE VENTING FOR FURNACE OUT EXISTING LOUVER WHERE EXISTING FURNACE VENTS ARE ROUTED. ROUTE CONDENSATE TO EXISTING DRAIN WHERE EXISTING FURNACE IS ROUTED TOO. RECONNECT EXISTING GAS PIPING CAP TO FURNACE.
- NEW LOCATION FOR EXISTING CONDENSING UNIT. EXTEND/ADJUST ALL PIPING AS NEEDED.
- ROUTE 10" OUTDOOR AIR INTAKE OUT WALL. PROVIDE PROPER CLEARANCES TO ALL EXHAUST. BALANCE TO 200 CFM.
- ROUTE DUCT UP TO AIR DEVICE ON FIRST FLOOR.
- RECONNECT EXISTING GAS PIPING TO NEW WATER HEATER. CONNECT NEW WATER HEATER VENTING TO EXISTING VENT.



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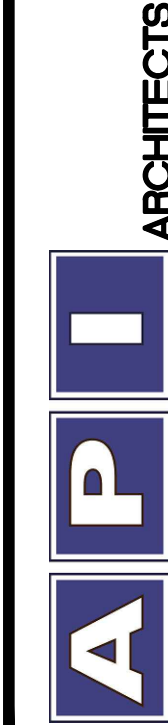
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MECH. NEW WORK PLAN  
BASEMENT

sheet number:

M1.1

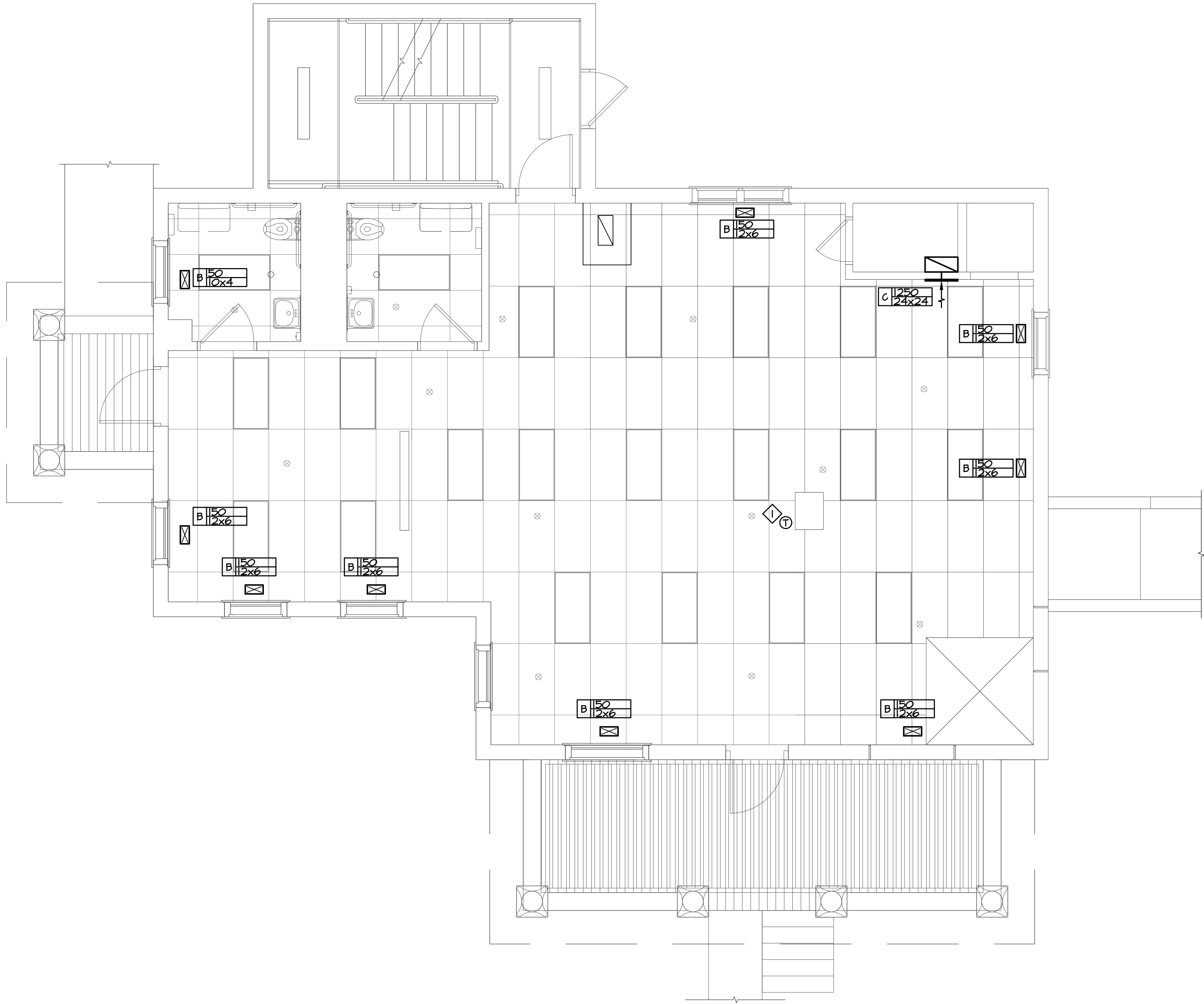


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MECHANICAL FIRST FLOOR NEW WORK PLAN

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



MECHANICAL KEY NOTES

- I. LOCATION OF THERMOSTAT AND HUMIDITY CONTROLS.



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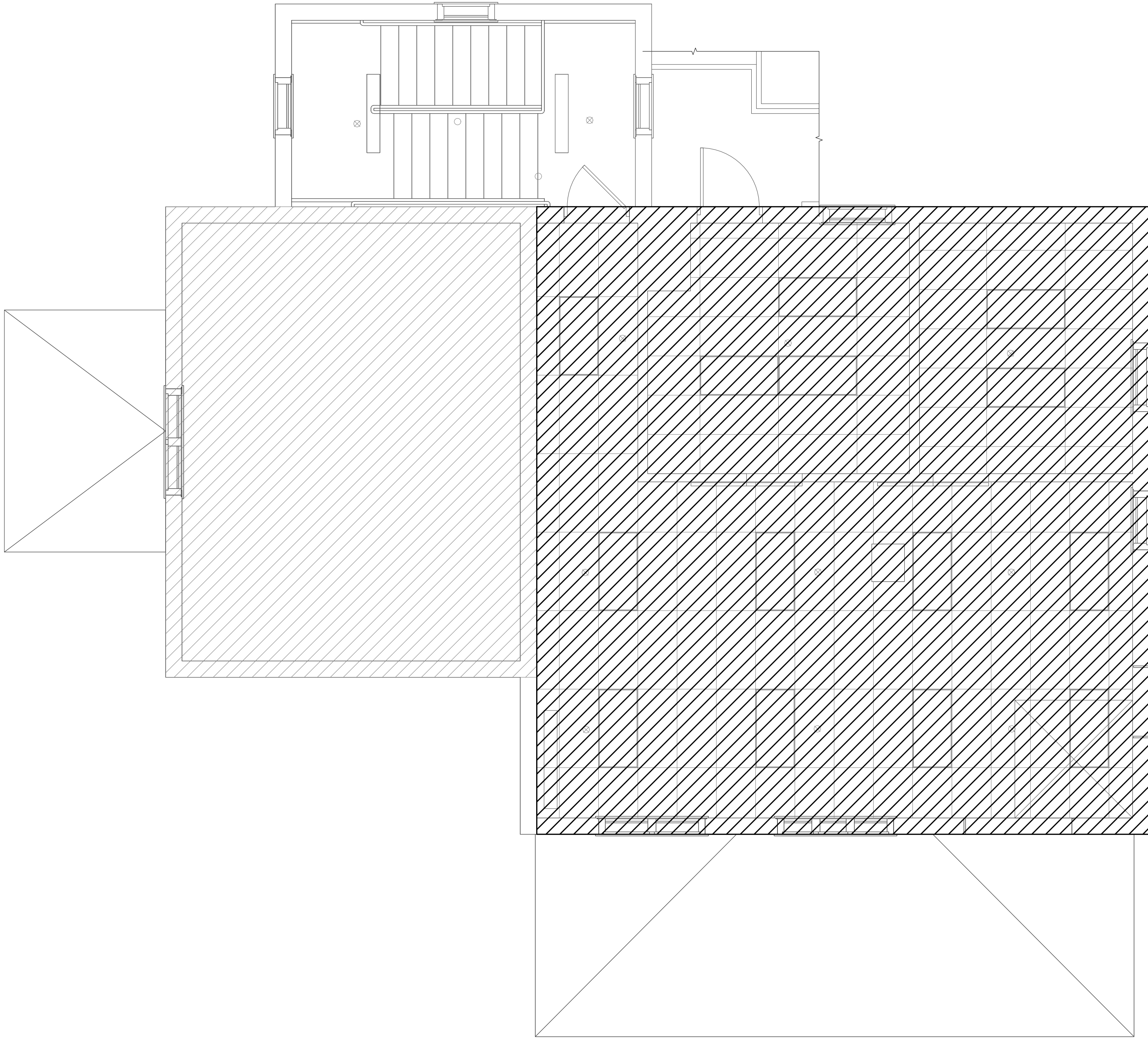
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MECHANICAL SECOND FLOOR NEW WORK PLAN

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



PROVIDE NEW  
THERMOSTAT  
AND HUMIDITY  
CONTROLS.



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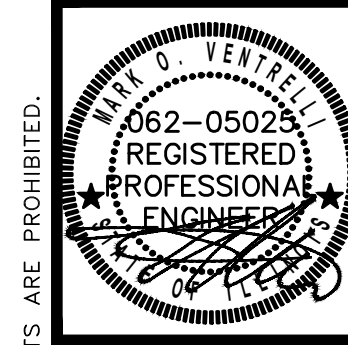
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**SECOND FLOOR**

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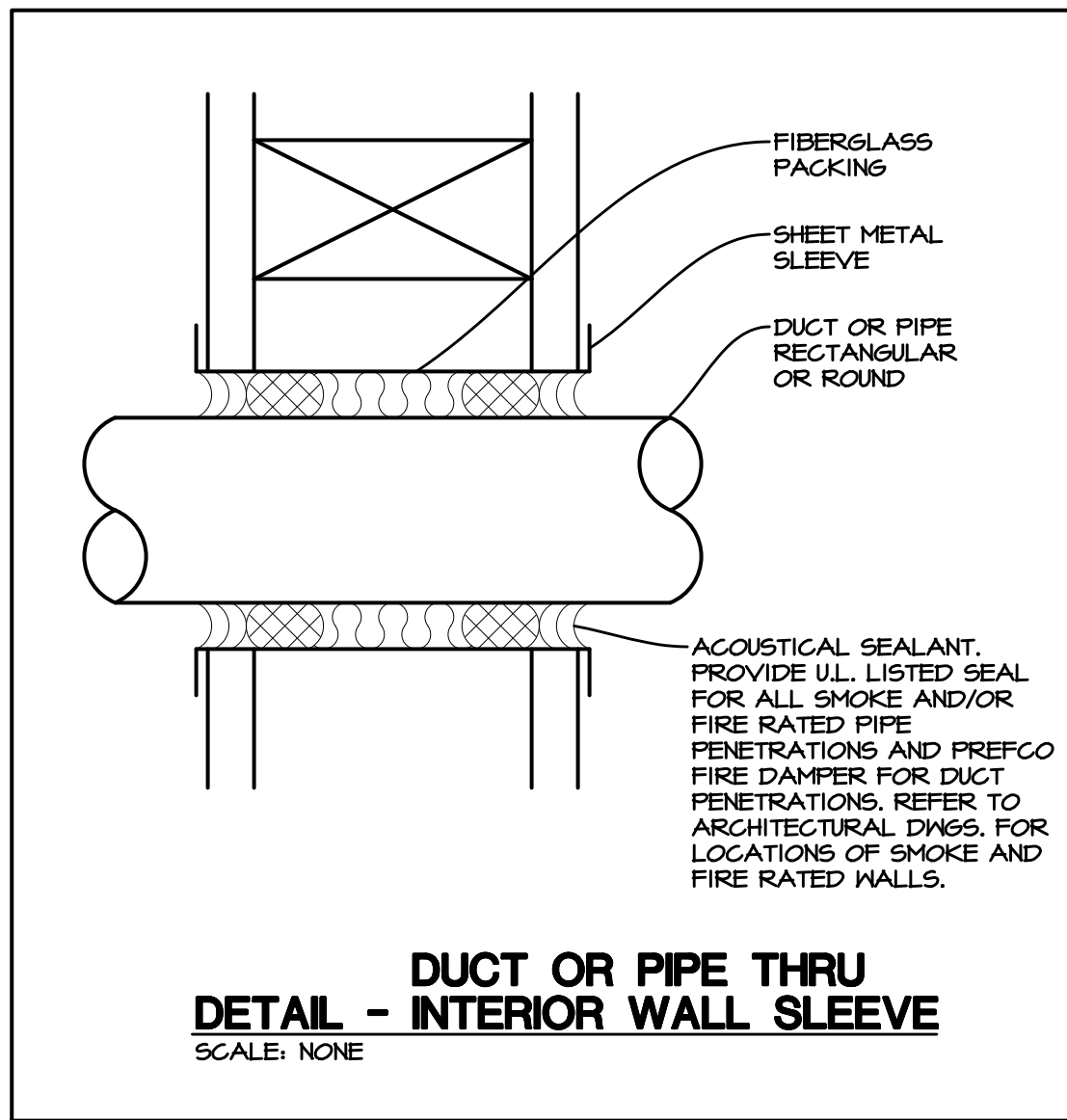
GAS FIRED FURNACE SCHEDULE													
ITEM TAG	MANUFACTURER AND MODEL NUMBER	CFM	ESP	INPUT (BTUH)	OUTPUT (BTUH)	ELECTRICAL DATA				AREA SERVING	VENT SIZES	UNIT HEIGHT (LBS)	REMARKS
						VOLT-PH-HZ	HP	MCA	MOCP				
F-1	CARRIER 58TP6080V17-16	1700	0.5	52000 80000	50000 78000	120-1-60	3/4	13.4	15	SEE PLAN	2 1/2" V 2 1/2" CA	147	1-7
REMARKS:													
1. PROVIDE 3/4" GAS PIPE CONNECTION WITH REGULATOR, UNION, 6" MIN. DIRT LEG, AND SHUT-OFF VALVE.													
2. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECT SWITCH.													
3. PROVIDE FLEXIBLE CANVAS CONNECTION AT INLET AND DISCHARGE DUCT CONNECTIONS TO UNIT.													
4. PROVIDE PVC VENT PIPING AND CONCENTRIC TERMINATION KIT INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.													
5. PROVIDE 1" THROW AWAY FILTER AND SIDE RACK.													
6. PROVIDE CARRIER 7-DAY PROGRAMMABLE WALL MOUNTED THERMOSTAT WITH HUMIDITY CONTROL.													
7. PROVIDE CARRIER ELECTRIC HUMIDIFIER.													
8. PROVIDE FULLY MODULATING MOTORIZED ECONOMIZER WITH ENTHALPY SENSORS.													

OUTDOOR CONDENSING UNIT SCHEDULE														
ITEM TAG	MANUFACTURER AND MODEL NUMBER	SEER	NOMINAL TONS	REFRIG.	REFRIG. CHARGE (LBS)	COOLING CAPACITY (BTUH)	UNIT SERVING	ELECTRICAL DATA					UNIT WEIGHT (LBS)	REMARKS
								VOLT-PH-HZ	COMP. RLA	COND. FLA	MCA	MOCP		
CU-1	CARRIER 24ACB348-30	13.0	4.0	R-410A	8.00	48000	F-2	208-1-60	19.9	1.20	26.2	40	236	ALL
REMARKS:														
1. VERIFY ELECTRICAL REQUIREMENT WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING.														
2. PROVIDE TIMED LOCK-OUT, SERVICE VALVES, AND DRYER.														
3. PROVIDE UNIT WITH CASED N-COIL TYPE EVAPORATOR COIL WITH REFRIGERANT SPECIFIC TXV.														
4. MOUNT UNIT LEVEL ON ROOF ON C-PORT AIR-PORT UTILITY PADS.														
5. ELECTRICAL CONTRACTOR SHALL PROVIDE WEATHER PROOF DISCONNECT SWITCH.														
6. PROVIDE DX LIQUID AND SUCTION REFRIGERANT PIPING SIZED FOR ACTUAL FIELD CONDITIONS AND MANUFACTURE'S RECOMMENDATIONS.														
7. PROVIDE REFRIGERANT SAFETY RELIEF VALVE IN ACCORDANCE WITH LOCAL CODES.														

GRILLE REGISTER DIFFUSER SCHEDULE				
ITEM TAG	MANUFACTURER AND MODEL NUMBER	PURPOSE	DESCRIPTION	REMARKS
A	"HART & COOLEY" #303	SUPPLY	STEEL 3-WAY SIDEWALL/CEILING SUPPLY AIR GRILLE	I
B	"HART & COOLEY" #421	SUPPLY	STEEL 2-WAY FLOOR REGISTER	I
C	"HART & COOLEY" #650	RETURN/ EXHAUST	STEEL CEILING RETURN AIR GRILLE	I
REMARKS: 1. COORDINATE COLOR AND FINISH WITH ARCHITECTURAL PLANS.				

## MECHANICAL GENERAL NOTES

- ALL EQUIPMENT AND COMPONENTS FOR HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS SHALL COMPLY AND BE INSTALLED FOR THE EFFICIENT UTILIZATION OF ENERGY IN ACCORDANCE WITH LOCAL CODES.
- ALL MECHANICAL EQUIPMENT SHALL BEAR THE LABEL OF AN APPROVED AGENCY, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE INFORMATION ON THE LABEL AND PER THE MANUFACTURER'S RECOMMENDATIONS. THE MECHANICAL CONTRACTOR SHALL MAINTAIN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ALL MECHANICAL EQUIPMENT AT THE JOB SITE. THE MECHANICAL EQUIPMENT SPECIFIED SHALL MEET ALL APPLICABLE STANDARDS INCLUDING THE INTERNATIONAL MECHANICAL CODE, SMACNA, ASHRAE, AND THE INTERNATIONAL FUEL GAS CODE.  
  
BOILERS - ANSI Z21.13 OR UL 745  
CLOTHES DRYERS - ANSI Z21.51 OR ANSI Z21.52  
DUCT FURNACES - ANSI Z83.9 OR UL 745  
DIRECT FIRED MAKE-UP AIR HEATERS - ANSI Z83.4  
FORCED WARM AIR FURNACES - ANSI Z21.47 OR UL 745  
INFRARED RADIANT HEATERS - ANSI Z83.6  
UNIT HEATERS - Z83.8  
WATER HEATERS - ANSI Z21.10.1 AND ANSI Z21.10.3
- THE CONSTRUCTION OF ALL DUCTWORK MUST BE IN ACCORDANCE WITH THE LATEST SMACNA DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE. COVERINGS AND LININGS, INCLUDING ADHESIVES, SHALL HAVE A FLAME-SPREAD INDEX NO MORE THAN 25 AND A SMOKE-DEVELOPED INDEX NOT MORE THAN 50, WHEN TESTED IN ACCORDANCE WITH ASTM E 84. DUCT COVERINGS AND LININGS SHALL NOT FLAME, GLOW, SMOLDER OR SMOKE WHEN TESTED IN ACCORDANCE WITH ASTM C 411 AT THE TEMPERATURE TO WHICH THEY ARE EXPOSED IN SERVICE. THE TEST TEMPERATURE SHALL NOT FALL BELOW 250 DEG. F. FLEXIBLE DUCTS AND CONNECTORS SHALL BE TESTED IN ACCORDANCE WITH UL 181 AND BE LABELED. FLEXIBLE CONNECTORS SHALL BE LIMITED TO A MAXIMUM LENGTH OF 10 FEET. DUCTS MUST BE SEALED IN ACCORDANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE. RIGID DUCTS MUST BE SUPPORTED AT INTERVALS NOT EXCEEDING 10 FEET. ALL AIR FILTERS SHALL BE LISTED AND LABELED.
- AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2000 CFM SHALL BE PROVIDED WITH RETURN DUCT MOUNTED SMOKE DETECTOR. ALL RETURN DUCT MOUNTED SMOKE DETECTORS SHALL BE INSTALLED UPSTREAM OF ANY FILTERS, EXHAUST AIR CONNECTIONS AND OUTDOOR AIR CONNECTIONS. SMOKE DETECTORS SHALL BE LABELED FOR INSTALLATION IN AIR DISTRIBUTION SYSTEMS AND INSTALLED IN ACCORDANCE WITH NFPA 72. UPON ACTIVATION, THE SMOKE DETECTOR MUST SHUT DOWN THE AIR DISTRIBUTION SYSTEM.
- MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL FIRE DAMPERS IN DUCTWORK AND FIRESTOP ALL PIPE PENETRATIONS THRU RATED FLOORS, CEILINGS AND WALLS. VERIFY LOCATIONS OF ALL RATED ASSEMBLIES WITH ARCHITECTURAL PLANS. FIRE DAMPERS SHALL BE IN ACCORDANCE WITH UL 555.
- ALL DIRECT VENT APPLIANCES SHOWN SHALL BE INSTALLED IN ACCORDANCE WITH THEIR LISTING AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ALL TERMINATIONS MUST BE IN ACCORDANCE WITH SECTION 503.8 OF THE INTERNATIONAL FUEL GAS CODE.
- GAS PIPING SHALL BE SCHEDULE 40 BLACK IRON PIPE WITH THREADED MALLEABLE IRON FITTINGS. ALL GAS PIPING, VALVES, HANGERS, JOINTS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS REFERENCED IN THE CURRENT INTERNATIONAL FUEL GAS CODE. ALL GAS VALVES SHALL BE TESTED AND LABELED IN ACCORDANCE WITH ASME B16.33 OR ANSI Z21.15. PIPING SHALL BE SUPPORTED WITH PIPE HOOKS, METAL PIPE STRAPS, BANDS, BRACKETS, OR HANGERS SUITABLE FOR THE SIZE OF PIPING, OF ADEQUATE STRENGTHS AND QUALITY, AND LOCATED AT INTERVALS SO AS TO PREVENT OR DAMP OUT EXCESSIVE VIBRATION. PIPING SHALL BE ANCHORED TO PREVENT UNDUE STRAINS ON CONNECTED EQUIPMENT AND SHALL NOT BE SUPPORTED BY OTHER PIPING. PIPE HANGERS AND SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF MSS SP-58 AND SHALL BE SPACED IN ACCORDANCE WITH SECTION 415 OF THE INTERNATIONAL FUEL GAS CODE. SUPPORTS, HANGERS, AND ANCHORS SHALL BE INSTALLED SO AS NOT TO INTERFERE WITH THE FREE EXPANSION AND CONTRACTION OF THE PIPING BETWEEN ANCHORS. ALL PARTS OF THE SUPPORTING EQUIPMENT SHALL BE DESIGNED AND INSTALLED SO MOVEMENT OF THE SUPPORTED PIPING WILL NOT DISENGAGE THEM. GAS PIPING FOR OTHER THAN DRY GAS CONDITIONS SHALL BE SLOPED NOT LESS THAN 1/4 INCH IN 15 FEET. PROVIDE A DRIP LEG AT EACH APPLIANCE CONNECTION. APPLIANCE CONNECTORS TO FOOD SERVICE EQUIPMENT SHALL BY LISTED AND LABELED COMPLYING WITH ANSI Z21.64 AND LISTED FOR USE WITH FOOD SERVICE EQUIPMENT HAVING CASTERS, OR THAT IS OTHERWISE SUBJECT TO MOVEMENT FOR CLEANING, AND OTHER LARGE MOVEABLE EQUIPMENT. ALL GAS PIPING SHALL BE IDENTIFIED AT 5 FOOT INTERVALS. GAS PIPING INSTALLED IN CONCEALED SPACES SHALL NOT HAVE UNIONS, TUBING FITTINGS OR RUNNING THREADS. ALL SHUT-OFF VALVES SHALL BE LOCATED AT THE METER AND AT THE EXTERIOR OF THE BUILDING. ALL FLOW CONTROL VALVES SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS REFERENCED IN THE INTERNATIONAL FUEL GAS CODE SECTION 410.
- THE MECHANICAL CONTRACTOR SHALL HIRE AN INDEPENDENT AND CERTIFIED TEST AND BALANCE CONTRACTOR, AND SHALL PROVIDE A TEST AND BALANCE REPORT TO BE SENT TO THE BUILDING DEPARTMENT NO LESS THAN THREE DAYS PRIOR TO FINAL INSPECTION.



## MECHANICAL SPECIFICATIONS

- THE MECHANICAL CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL EXISTING CONDITIONS IN FIELD AND INCLUDE IN THEIR BID ALL REQUIRED CHANGES TO PROVIDE A COMPLETE OPERATING SYSTEM.
- THE CONTRACTOR SHALL FURNISH AND INSTALL MATERIAL INDICATED ON DRAWINGS AND AS REQUIRED TO PROVIDE A COMPLETE AND SATISFACTORY OPERATING INSTALLATION.
- ALL MATERIALS SHALL BE NEW AND OF STANDARD QUALITY UNLESS OTHERWISE NOTED; NO REJECTS. ALL MATERIALS FOR WHICH AN UNDERWRITER'S LABORATORY STANDARD EXISTS SHALL BEAR A U.L. LABEL. PROTECT ALL EQUIPMENT AND WORK FROM DAMAGE DUE TO ANY CAUSE.
- ALL WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE NATIONAL, STATE AND LOCAL CODES AND REGULATIONS GOVERNING THE INSTALLATION OF THE WORK INVOLVED. ALL PERMITS FOR THE INSTALLATION OF THE WORK AND ALL INSPECTIONS OF SAME SHALL BE ARRANGED FOR BY THIS CONTRACTOR. ALL FEES AND ASSESSMENTS IN CONNECTION THEREWITH SHALL BE PAID BY THIS CONTRACTOR, THE COST OF WHICH SHALL BE INCLUDED IN THEIR BID.
- THE GENERAL CONDITIONS AND SPECIAL CONDITIONS ISSUED BY THE OWNER AND/OR ARCHITECT SHALL GOVERN WHERE APPLICABLE. GENERAL CONDITIONS AND SPECIAL CONDITION REQUIREMENTS RELATED BUT NOT LIMITED TO THE FOLLOWING SHALL APPLY:
  - RUBBISH REMOVAL.
  - COMPLIANCE WITH THE OWNER'S REQUIREMENTS.
  - OBTAINING AND PAYING FOR REQUIRED LICENSES AND PERMITS.
  - REPLACEMENT OF DAMAGED SYSTEM EQUIPMENT, AND/OR BUILDING DUE TO NEW INSTALLATIONS.
  - COMPLIANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES.
  - WORKMAN'S COMPENSATION INSURANCE, PUBLIC LIABILITY INSURANCE.
- THE ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETE SYSTEM SHALL BE FULLY OPERATIONAL AND ACCEPTANCE BY THE OWNER SHALL BE A CONDITION OF THE CONTRACT.
- NEW DUCTWORK AND PIPING SHALL RUN IN STRAIGHT LINES PARALLEL AND/OR PERPENDICULAR TO THE BUILDING CONSTRUCTION, AS HIGH AS POSSIBLE.
- THIS CONTRACTOR SHALL INCLUDE ALL MISCELLANEOUS ITEMS REQUIRED TO COMPLETE THE WORK INCLUDING MOVING AND RIGGING OF MATERIAL AND EQUIPMENT, HANGERS, SUPPORTS, STRUCTURAL FRAMING CHANGES, FITTINGS AND SLEEVES.
- ALL MATERIAL, WORKMANSHIP AND EQUIPMENT SHALL BE GUARANTEED FOR ONE YEAR AFTER SYSTEM ACCEPTANCE. PROVIDE TYPEWRITTEN OPERATING INSTRUCTIONS, AND EQUIPMENT WARRANTIES.
- ALL SHEET METAL DUCTS SHALL BE ERECTED IN FIRST CLASS AND WORKMANLIKE MANNER TRUE TO THE DIMENSIONS INDICATED ON THE DRAWINGS, UNLESS OTHERWISE APPROVED. STRAIGHT AND SMOOTH ON THE INSIDE WITH NEATLY FINISHED AIRTIGHT JOINTS. ALL SLOP JOINTS SHALL BE MADE IN THE DIRECTION OF FLOW, AND UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL ELBOWS SHALL HAVE A CENTERLINE RADIUS EQUAL TO 1.5 TIMES THE WIDTH OF THE DUCT. THE SHEET METAL USED SHALL BE GALVANIZED IRON, EXCEPT AS HEREINAFTER SPECIFIED. THE THICKNESS OF THE SHEET METAL AND SIZE AND TYPE OF THE STIFFENERS USED SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE BOOK. CONSTRUCT DUCTWORK IN ACCORDANCE WITH THE REQUIREMENTS OF SMACNA AND CURRENT LOCAL CODES. ASHRAE GUIDE AND DATA BOOK "SCHEDULE OF RECOMMENDED CONSTRUCTION FOR LOW PRESSURE RECTANGULAR SHEET METAL DUCTS." ALL DUCTWORK SHALL COMPLY WITH ASHRAE AND SMACNA STANDARDS.
- ALL DUCTWORK TO BE SUPPORTED FROM BUILDING CONSTRUCTION WITH ROD HANGERS AND PROPERLY SIZED ANGLE IRON BOTTOM SUPPORTS. THE DUCTS SHALL BE SECURELY ANCHORED TO THE BUILDING IN AN APPROVED MANNER AND SHALL BE SO INSTALLED AS TO BE COMPLETELY FREE FROM VIBRATION UNDER ALL CONDITIONS OF OPERATION. THE DUCTS SHALL BE PROPERLY BRACED AND REINFORCED WITH STEEL ANGLES OR OTHER STRUCTURAL MEMBERS SPACED NOT MORE THAN 60" ON CENTERS. ALL SAGGING DUCTWORK WILL BE REMOVED AND REHUNG AS DIRECTED BY ENGINEER.
- FLEXIBLE DUCTS AND CONNECTORS SHALL BE TESTED IN ACCORDANCE WITH UL 181 AND BE LABELED. FLEXIBLE DUCTS AND CONNECTORS SHALL BE LIMITED TO A MAXIMUM LENGTH OF 5'-0".  
  
\*OUTSIDE AIR INTAKE DUCTWORK IN CONDITIONED SPACES SHALL BE WRAPPED WITH R-5 FOIL FACED DUCT WRAP.  
  
\*EXPOSED SPIRAL DUCTWORK IN CONDITIONED SPACES NOT INSULATED UNLESS COMMUNICATING WITH THE OUTSIDE. IF SO, PROVIDE GLASS FIBER LINING WITH R-4 INSTALLED VALUE  
  
UNCONDITIONED SPACE (INCLUDING DUCT IN NON-PLENUM RETURN CEILING)  
RECTANGULAR: GLASS FIBER LINING WITH R-6 INSTALLED VALUE OR FOIL FACED DUCT WRAP WITH R-6 INSTALLED VALUE.  
ROUND: FOIL FACED DUCT WRAP WITH R-6 INSTALLED VALUE  
  
EXTERIOR DUCTWORK  
RIGID BOARD EXTERIOR INSULATION WITH R-12 INSTALLED VALUE SIMILAR TO "CERTAINTED" COMMERCIAL BOARD WITH WEATHER PROOF ALUMINUM JACKET WRAP SIMILAR TO "VENTURE GLAD" #1571CM
- ALL DUCTWORK DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.
- THE MECHANICAL CONTRACTOR SHALL SUBMIT (4) FOUR PRODUCT SHOP DRAWINGS FOR ALL NEW EQUIPMENT AND DUCT LAYOUT TO BE FURNISHED FOR ARCHITECT, OWNER, AND ENGINEER'S APPROVAL. CATALOG CUT SHEETS FOR ALL EQUIPMENT AND MATERIAL SHALL BE MADE AVAILABLE ON SITE. ALL EQUIPMENT AND APPLIANCES MUST BEAR LABEL INDICATING SUITABLE FOR USE. THE MECHANICAL CONTRACTOR SHALL SUBMIT THE MANUFACTURER'S INSTALLATION INSTRUCTIONS TO THE BUILDING OWNER, INCLUDING INSTALLATION FOR OUTSIDE INSTALLATION WHEN APPLICABLE.
- THE EQUIPMENT SPECIFIED TO SET STANDARDS, INTENTION IS "OR EQUAL" IF APPROVED PRIOR TO BID DUE DATE.
- THE MECHANICAL CONTRACTOR SHALL HIRE AN INDEPENDENT AND CERTIFIED TEST AND BALANCE CONTRACTOR TO BALANCE SYSTEM TO AIR QUANTITIES AS INDICATED ON PLANS, AND SHALL PROVIDE A TEST AND BALANCE REPORT TO BE SENT TO THE BUILDING DEPARTMENT NO LESS THAN THREE DAYS PRIOR TO FINAL INSPECTION. CONTRACTOR SHALL ALSO PROVIDE COPIES OF THE BALANCE REPORT TO THE OWNER, ARCHITECT, AND ENGINEER. REPORT SHALL ALSO INCLUDE FAN RPM AND PRESSURE INFORMATION.
- PROVIDE 7-DAY PROGRAMMABLE ELECTRONIC THERMOSTAT WITH 2 HOUR OVERRIDE, 10 HOUR BATTERY BACKUP, AUTOCHANGEOVER BETWEEN HEATING AND COOLING MODES, 5 DEGREE DEADBAND, DIGITAL READOUT, AND FAN AUTO/ON CONTROLS. THERMOSTAT SHALL BE MANUFACTURED BY HONEYWELL, WHITE-ROGERS OR APPROVED EQUAL. PROVIDE CLEAR PLASTIC LOCKING COVER WITH KEYS.
- MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL FIRE DAMPERS IN DUCTWORK AND FIRESTOP ALL PIPE PENETRATIONS THRU RATED FLOORS, CEILINGS AND WALLS. VERIFY LOCATIONS OF ALL RATED ASSEMBLIES WITH ARCHITECTURAL PLANS. FIRE DAMPERS SHALL BE IN ACCORDANCE WITH UL 555. ALL FIRE DAMPERS SHALL BE "TYPE B" OR "TYPE C" DAMPERS WITH STORED DAMPER OUT OF AIRSTREAM UNLESS OTHERWISE NOTED.
- ALL DUCT LAYOUTS, PIPING LAYOUTS, WIRING LAYOUTS, ETC. ARE SCHEMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD. EACH TRADE CONTRACTOR SHALL CERTIFY IN WRITING TO THE OWNER AND ARCHITECT THAT HE HAS THOROUGHLY REVIEWED AND COORDINATED ALL LOCATIONS AND ROUTINGS WITH ALL OTHER TRADES PRIOR TO FABRICATION OF DUCTS, PIPING, CONDUITS, ETC. AND START OF INSTALLATION OF SAME. ANY INSTALLATION OF CONSTRUCTION CONFLICTS WHICH OCCUR IN THE FIELD SHALL BE RESOLVED BY THE TRADE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND ARCHITECT AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.

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HOFFMAN ESTATES PARK DISTRICT - VOGELI HOUSE REMODEL

650 WEST HIGGINS ROAD

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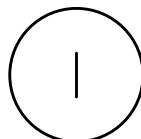
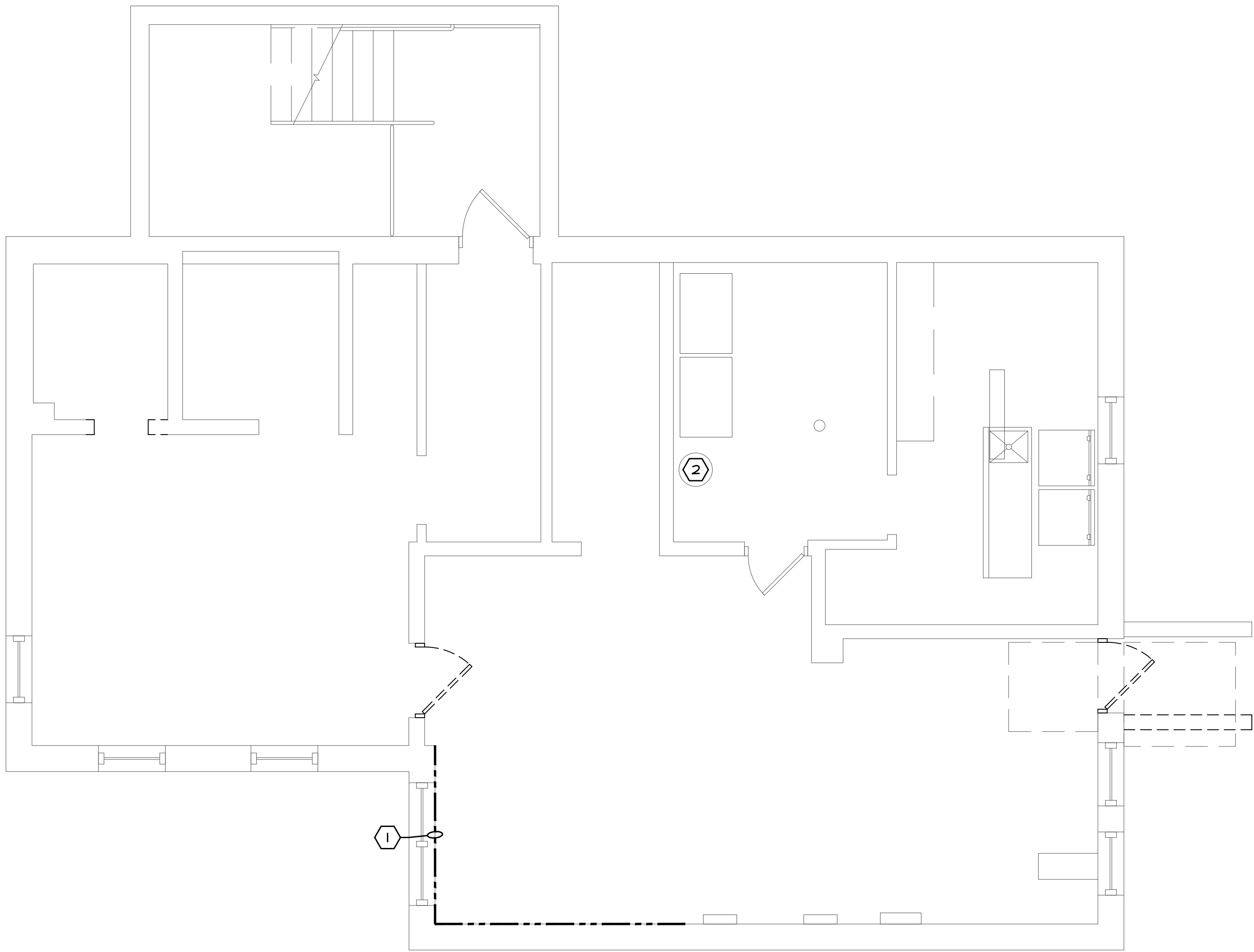
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# ELECTRICAL DEMOLITION PLAN - BASMENT

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

## DEMOLITION LEGEND

- E - EXISTING TO REMAIN
- X - EXISTING TO BE REMOVED
- XR - EXISTING TO BE RELOCATED
- XRN - EXISTING, RELOCATED TO NEW LOCATION
- XN - EXISTING DEVICE REPLACED WITH NEW
- XN - EXISTING DEVICE REWIRED WITH NEW CIRCUIT
- XNN - EXISTING DEVICE REPLACED WITH NEW, REWIRED TO NEW CIRCUIT

## GENERAL NOTES

- ALL EXISTING UNUSED CONDUITS SHALL BE COMPLETELY REMOVED BACK TO SOURCE.
- ALL EXISTING ELECTRICAL INCLUDING BUT NOT LIMITED TO RECEPTACLES, DATA, FIRE ALARM, HVAC, PUMPS, WATER HEATERS ETC. ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

## KEYED NOTES

- ALL EXISTING ELECTRICAL INCLUDING BUT NOT LIMITED TO POWER, DATA, FIRE ALARM, ETC. ALONG NOTED WALL SHALL BE COMPLETELY REMOVED BACK TO SOURCE.
- POWER FOR EXISTING WATER HEATER SHALL BE COMPLETELY REMOVED BACK TO SOURCE.

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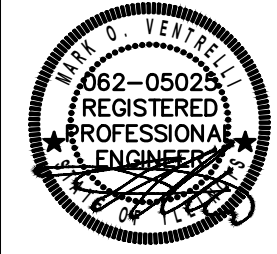
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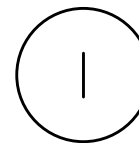
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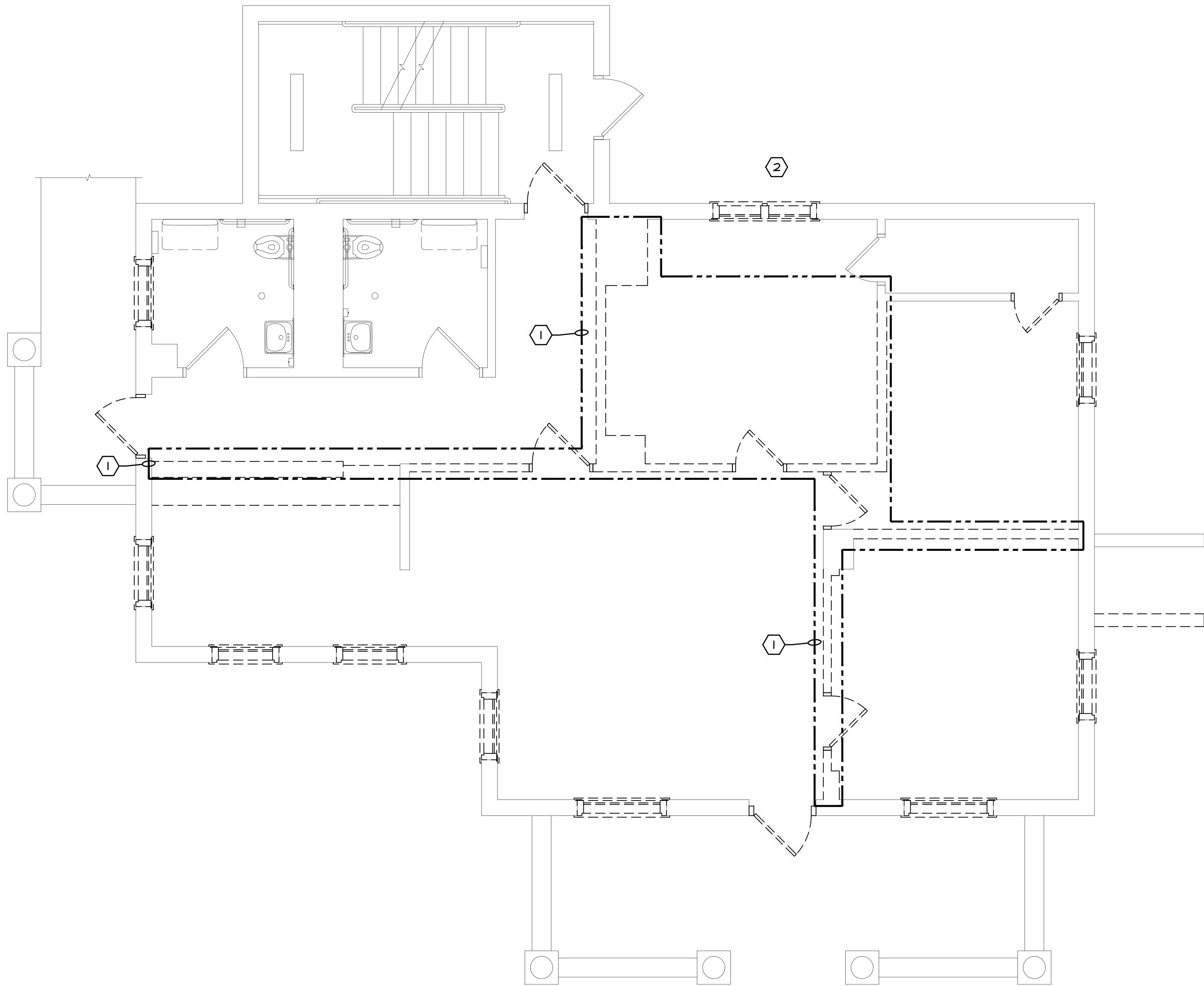
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ELECTRICAL DEMOLITION PLAN - 1ST LEVEL

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



DEMOLITION LEGEND

- E - EXISTING TO REMAIN  
X - EXISTING TO BE REMOVED  
XR - EXISTING TO BE RELOCATED  
XRN - EXISTING, RELOCATED TO NEW LOCATION  
XN - EXISTING DEVICE REPLACED WITH NEW  
XN - EXISTING DEVICE REWIRED WITH NEW CIRCUIT  
XNN - EXISTING DEVICE REPLACED WITH NEW,  
REWIRED TO NEW CIRCUIT

GENERAL NOTES

1. ALL EXISTING UNUSED CONDUITS SHALL BE COMPLETELY REMOVED BACK TO SOURCE.
2. ALL EXISTING ELECTRICAL INCLUDING BUT NOT LIMITED TO RECEPTACLES, DATA, FIRE ALARM, HVAC, PUMPS, WATER HEATERS ETC. ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

KEYED NOTES

1. ALL EXISTING ELECTRICAL INCLUDING BUT NOT LIMITED TO POWER, DATA, FIRE ALARM, ETC. WITHIN NOTED AREA ON WALL(S) TO BE DEMOLISHED SHALL BE COMPLETELY REMOVED BACK TO SOURCE.
2. POWER FOR EXISTING FURNACE AND CONDENSING UNIT TO BE COMPLETELY REMOVED. COORDINATE WITH MECHANICAL PRIOR TO START OF WORK.

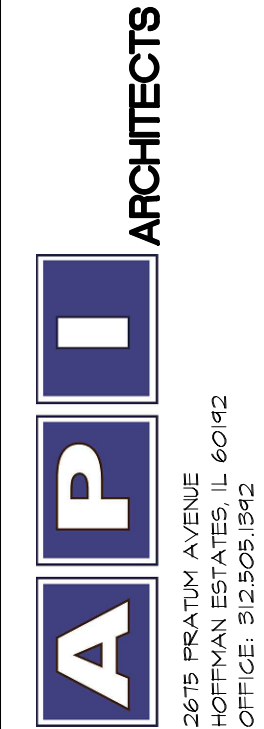
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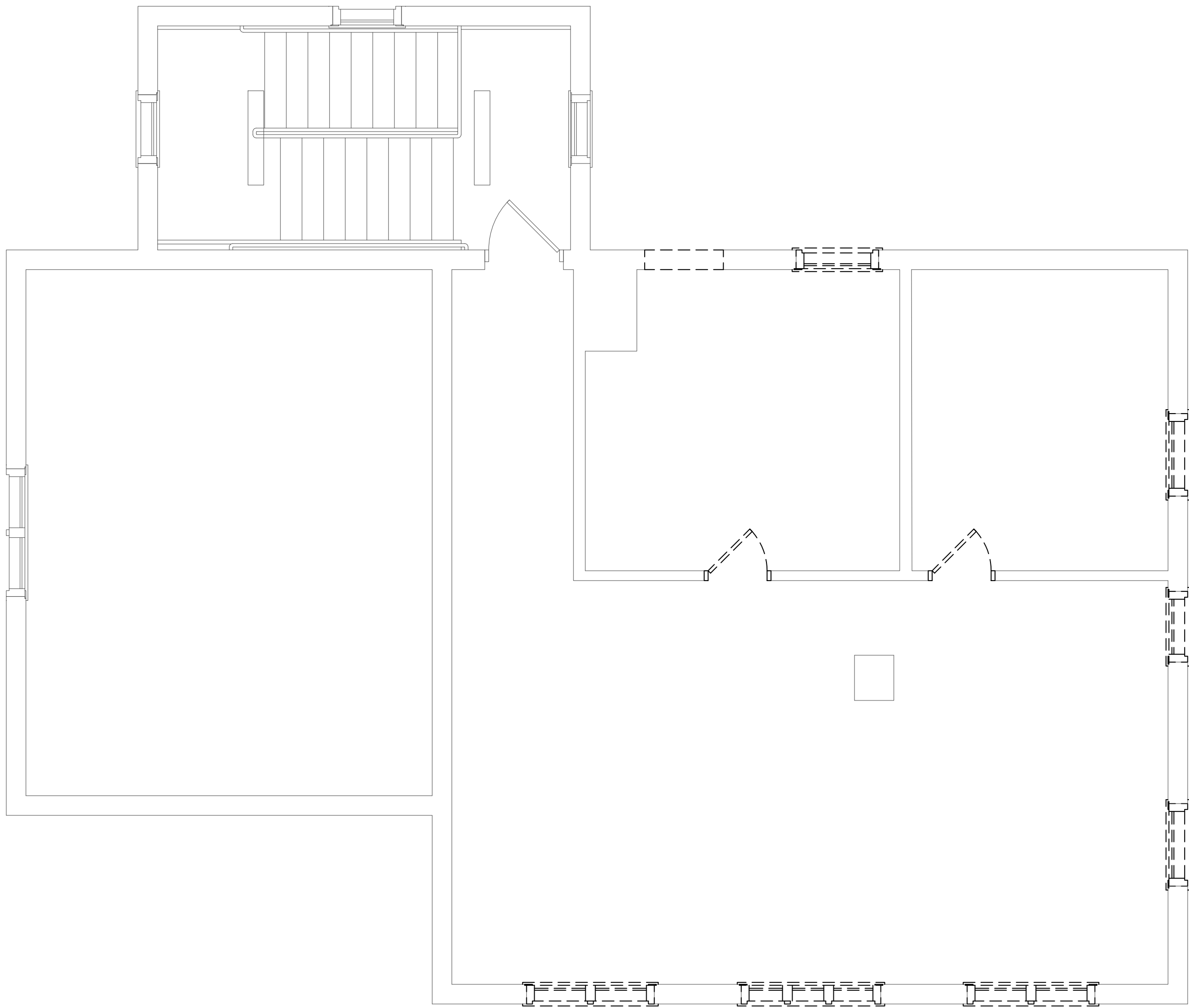
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DEMOLITION LEGEND

- E - EXISTING TO REMAIN
- X - EXISTING TO BE REMOVED
- XR - EXISTING TO BE RELOCATED
- XRN - EXISTING, RELOCATED TO NEW LOCATION
- XN - EXISTING DEVICE REPLACED WITH NEW
- XN - EXISTING DEVICE REWIRED WITH NEW CIRCUIT
- XN/N - EXISTING DEVICE REPLACED WITH NEW, REWIRED TO NEW CIRCUIT

GENERAL NOTES

1. ALL EXISTING UNUSED CONDUITS SHALL BE COMPLETELY REMOVED BACK TO SOURCE.
2. ALL EXISTING ELECTRICAL INCLUDING BUT NOT LIMITED TO RECEPTACLES, DATA, FIRE ALARM, HVAC, PUMPS, WATER HEATERS ETC. ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

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

ELECTRICAL DEMOLITION PLAN - 2ND LEVEL

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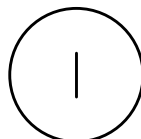


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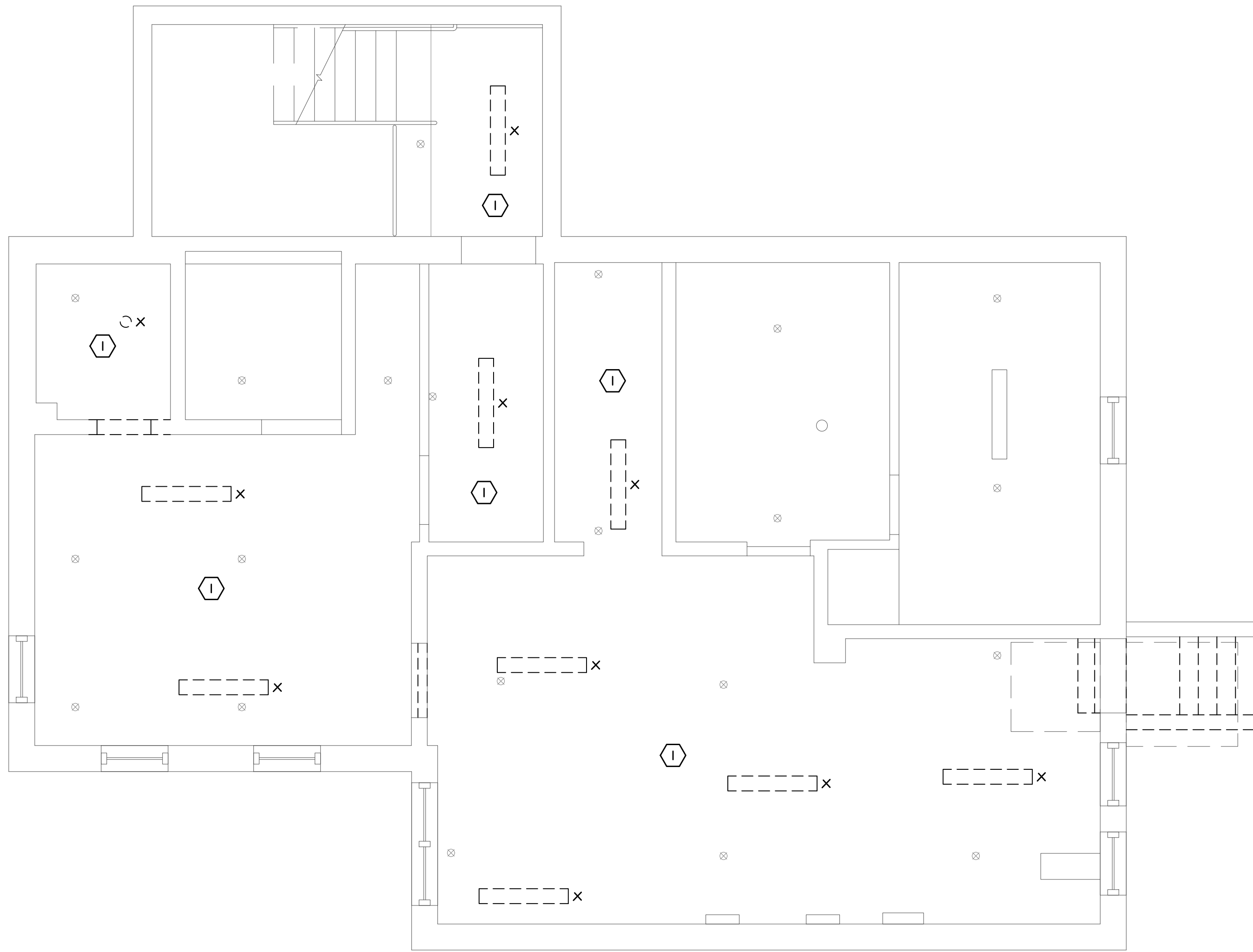
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# ELECTRICAL DEMOLITION PLAN - BASMENT

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



## DEMOLITION LEGEND

- E - EXISTING TO REMAIN
- X - EXISTING TO BE REMOVED
- XR - EXISTING TO BE RELOCATED
- XRN - EXISTING, RELOCATED TO NEW LOCATION
- XN - EXISTING DEVICE REPLACED WITH NEW
- XX - EXISTING DEVICE REWIRED WITH NEW CIRCUIT
- XXN - EXISTING DEVICE REPLACED WITH NEW, REWIRED TO NEW CIRCUIT

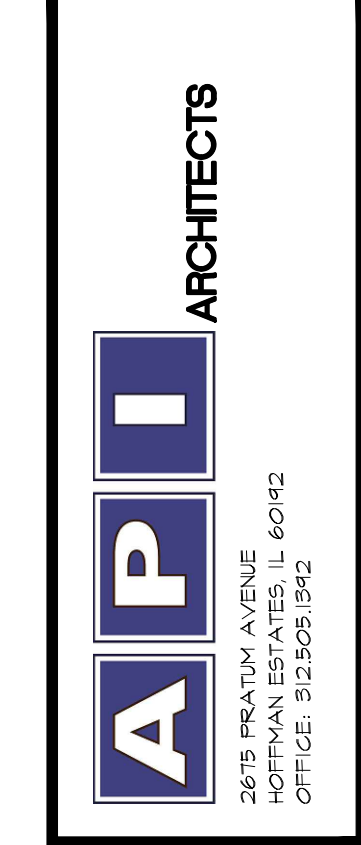
## GENERAL NOTES

- ALL EXISTING UNUSED CONDUITS AND CONDUCTORS SHALL BE COMPLETELY REMOVED BACK TO SOURCE.
- ALL EXISTING EMERGENCY LIGHTING AND EXIT SIGNAGE ARE EXISTING TO BE REMOVED/ EXISTING TO BE REPLACED WITH NEW.
- ALL EXISTING EXTERIOR LIGHTING AND EMERGENCY LIGHTING ARE TO REMAIN.
- ALL EXISTING LIGHTING FIXTURES AND CONTROLS ARE TO REMAIN UNLESS NOTED OTHERWISE.

## KEYED NOTES

- WITHIN NOTED AREA, EXISTING LOCAL LIGHTING CIRCUIT SHALL BE DISCONNECTED FROM EXISTING LIGHTING FIXTURES/ CONTROLS AND BE RECONNECTED TO NEW LIGHTING FIXTURES AND CONTROLS.

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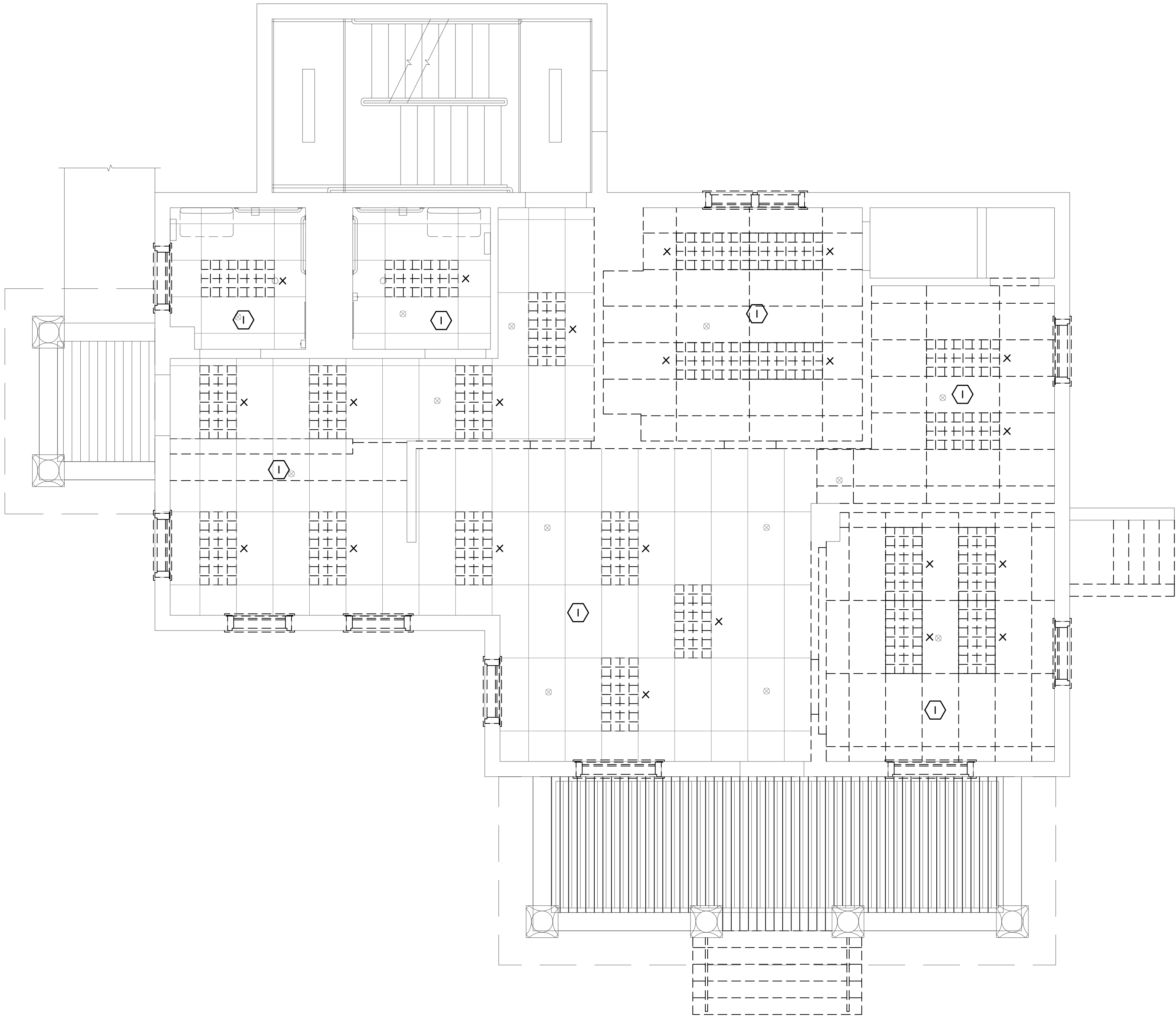
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DEMOLITION LEGEND

- E - EXISTING TO REMAIN
- X - EXISTING TO BE REMOVED
- XR - EXISTING TO BE RELOCATED
- XRN - EXISTING, RELOCATED TO NEW LOCATION
- XN - EXISTING DEVICE REPLACED WITH NEW
- XN - EXISTING DEVICE REWIRED WITH NEW CIRCUIT
- XNM - EXISTING DEVICE REPLACED WITH NEW, REWIRED TO NEW CIRCUIT

GENERAL NOTES

- ALL EXISTING UNUSED CONDUITS AND CONDUCTORS SHALL BE COMPLETELY REMOVED BACK TO SOURCE.
- ALL EXISTING EMERGENCY LIGHTING AND EXIT SIGNAGE ARE EXISTING TO BE REMOVED/ EXISTING TO BE REPLACED WITH NEW.
- ALL EXISTING EXTERIOR LIGHTING AND EMERGENCY LIGHTING ARE TO REMAIN.
- ALL EXISTING LIGHTING FIXTURES AND CONTROLS ARE TO REMAIN UNLESS NOTED OTHERWISE.

# KEYED NOTES

- WITHIN NOTED AREA, EXISTING LOCAL LIGHTING CIRCUIT SHALL BE DISCONNECTED FROM EXISTING LIGHTING FIXTURES/ CONTROLS AND BE RECONNECTED TO NEW LIGHTING FIXTURES AND CONTROLS.

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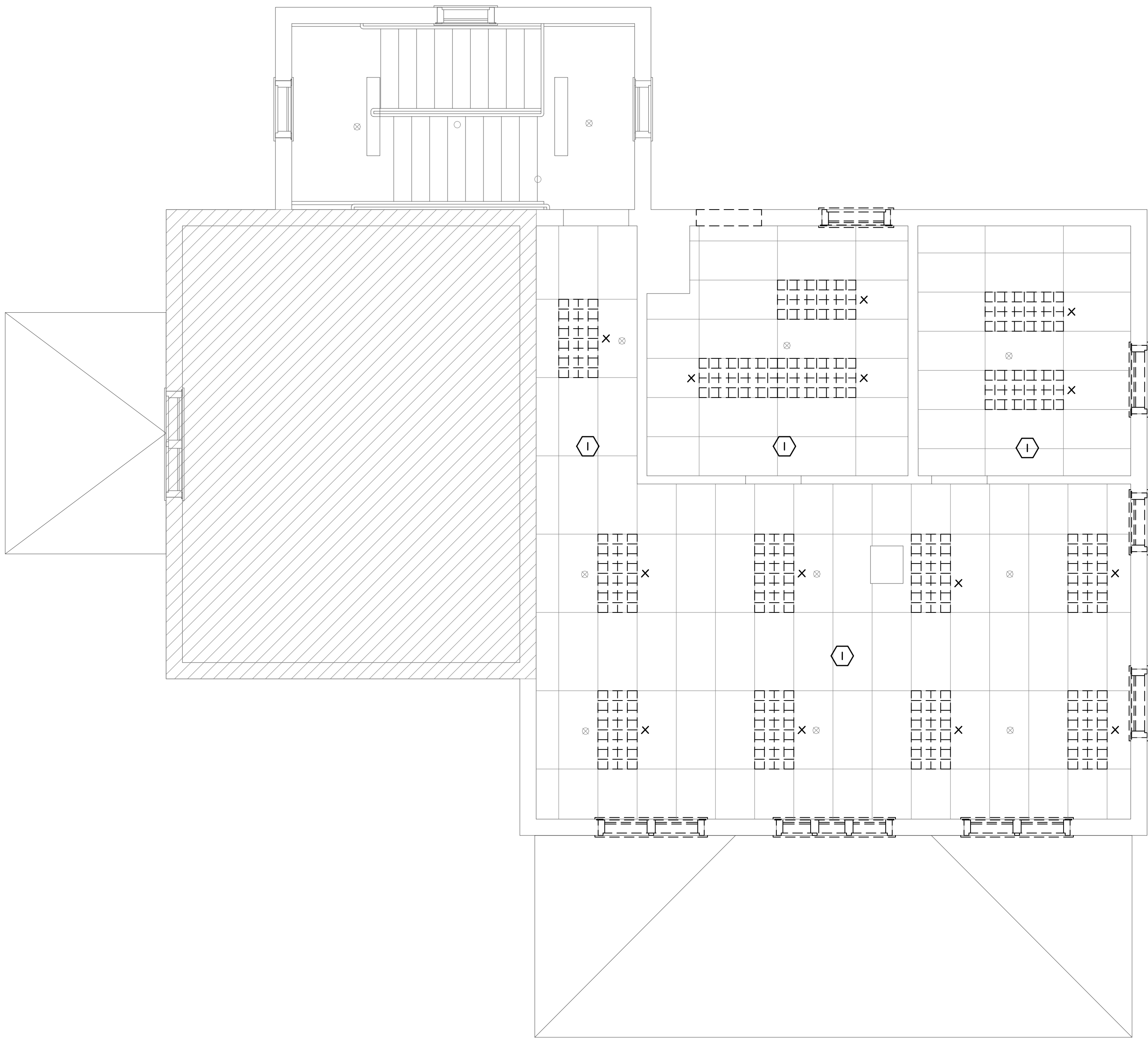
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DEMOLITION LEGEND

- E - EXISTING TO REMAIN  
X - EXISTING TO BE REMOVED  
XR - EXISTING TO BE RELOCATED  
XRN - EXISTING, RELOCATED TO NEW LOCATION  
XN - EXISTING DEVICE REPLACED WITH NEW  
XN - EXISTING DEVICE REWIRED WITH NEW CIRCUIT  
XN/N - EXISTING DEVICE REPLACED WITH NEW, REWIRED TO NEW CIRCUIT

GENERAL NOTES

1. ALL EXISTING UNUSED CONDUITS AND CONDUCTORS SHALL BE COMPLETELY REMOVED BACK TO SOURCE.
2. ALL EXISTING EMERGENCY LIGHTING AND EXIT SIGNAGE ARE EXISTING TO BE REMOVED/ EXISTING TO BE REPLACED WITH NEW.
3. ALL EXISTING EXTERIOR LIGHTING AND EMERGENCY LIGHTING ARE TO REMAIN.
4. ALL EXISTING LIGHTING FIXTURES AND CONTROLS ARE TO REMAIN UNLESS NOTED OTHERWISE.

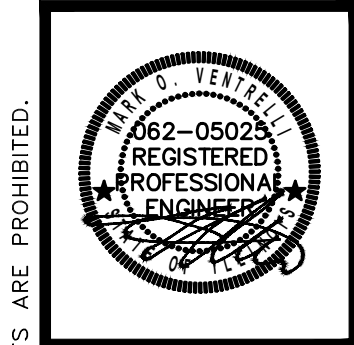
# KEYED NOTES

1. WITHIN NOTED AREA, EXISTING LOCAL LIGHTING CIRCUIT SHALL BE DISCONNECTED FROM EXISTING LIGHTING FIXTURES/ CONTROLS AND BE RECONNECTED TO NEW LIGHTING FIXTURES AND CONTROLS.

ELECTRICAL DEMOLITION PLAN - 2ND LEVEL

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

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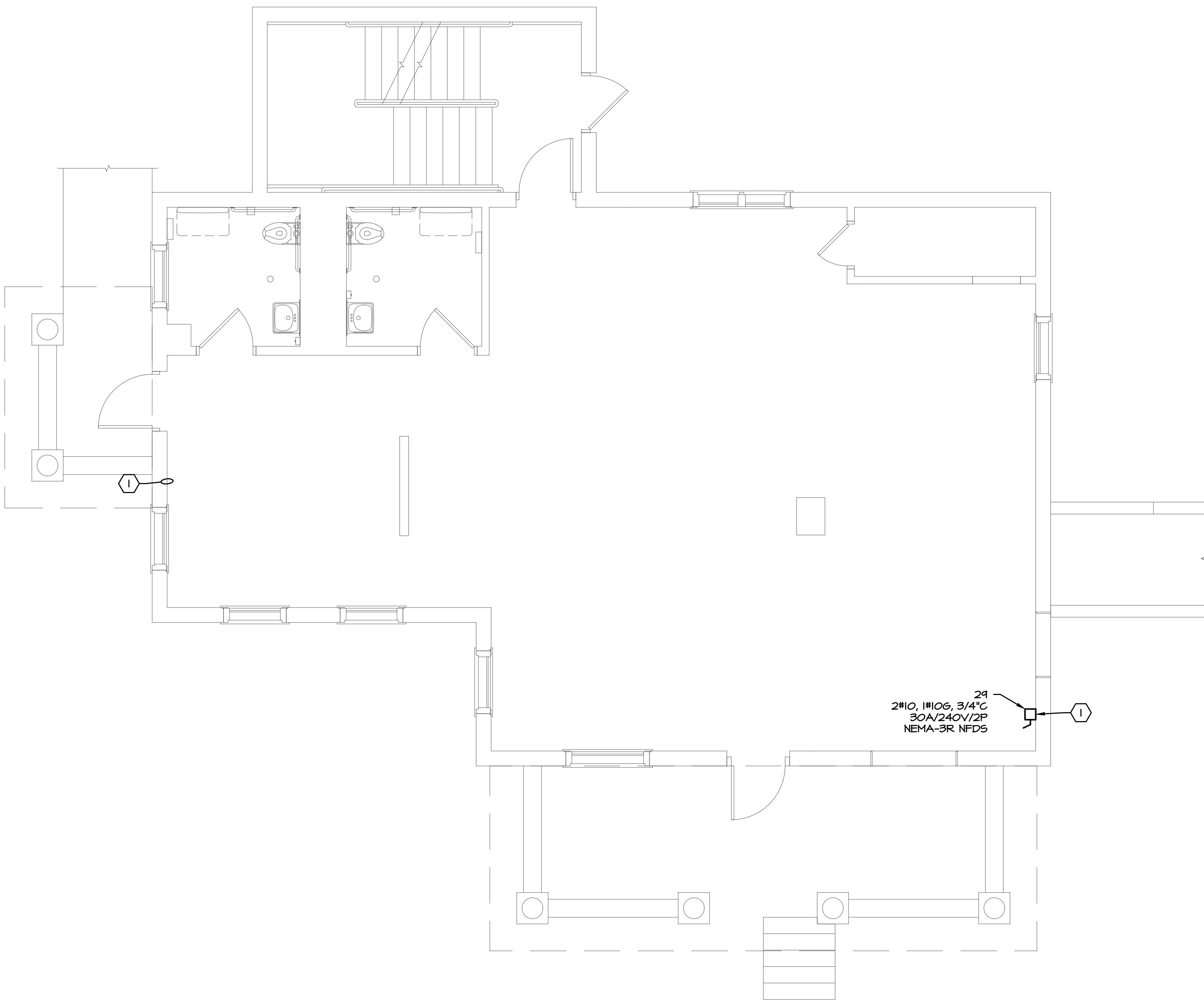


1. PROVIDE ALL ALARM DEVICES, NOTIFICATION DEVICES, PANELS, ETC. REQUIRED BY LOCAL CODES. PROVIDE NETWORK/TERMINATION PANELS AS REQUIRED.
2. PROVIDE COMPLETE FIRE ALARM PERMIT AND CONSTRUCTION DOCUMENTS. SUBMIT DOCUMENTS TO PERMITTING AUTHORITY AND RE-SUBMIT BASED ON COMMENTS. OBTAIN AGENCY APPROVAL PRIOR TO INSTALLATION.
3. PROVIDE HORN/STROBE DEVICES AS REQUIRED BY LOCAL FIRE OFFICIALS AND WIRE TO FIRE ALARM CONTROL PANEL. DEVICE LAYOUT IS REPRESENTATIVE ONLY. PROVIDE ACTUAL QUANTITY OF DEVICES PER IFC AND PER LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS.
4. PROVIDE BATTERY AND VOLTAGE DROP CALCULATIONS.
5. CONTRACTOR SHALL REUSE/ RELOCATE EXISTING FIRE ALARM DEVICES AND PROVIDE NEW WHERE REQUIRED.

- E - EXISTING TO REMAIN  
X - EXISTING TO BE REMOVED  
XR - EXISTING TO BE RELOCATED  
XR/N - EXISTING, RELOCATED TO NEW LOCATION  
XN - EXISTING DEVICE REPLACED WITH NEW  
XN - EXISTING DEVICE REWIRED WITH NEW CIRCUIT  
XN/M - EXISTING DEVICE REPLACED WITH NEW,  
REWIRED TO NEW CIRCUIT

- I. NEW 2 CHANNEL POWER POLE FOR OFFICE POWER/ DATA.  
COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER  
PRIOR TO INSTALLATION.





#### FIRE ALARM NOTES

1. PROVIDE ALL ALARM DEVICES, NOTIFICATION DEVICES, PANELS, ETC. REQUIRED BY LOCAL CODES. PROVIDE NETWORK/TERMINATION PANELS AS REQUIRED.
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#### DEMOLITION LEGEND

E - EXISTING TO REMAIN  
X - EXISTING TO BE REMOVED  
XR - EXISTING TO BE RELOCATED  
XRN - EXISTING, RELOCATED TO NEW LOCATION  
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XN - EXISTING DEVICE REWIRED WITH NEW CIRCUIT  
XN/N - EXISTING DEVICE REPLACED WITH NEW, REWIRED TO NEW CIRCUIT

#### KEYED NOTES

1. NEW LIFT; COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER/ MANUFACTURER PRIOR TO INSTALLATION.

## ELECTRICAL POWER PLAN - 1ST LEVEL

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

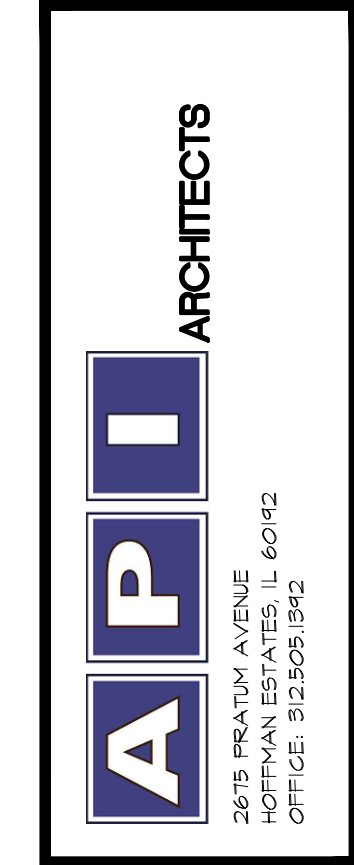
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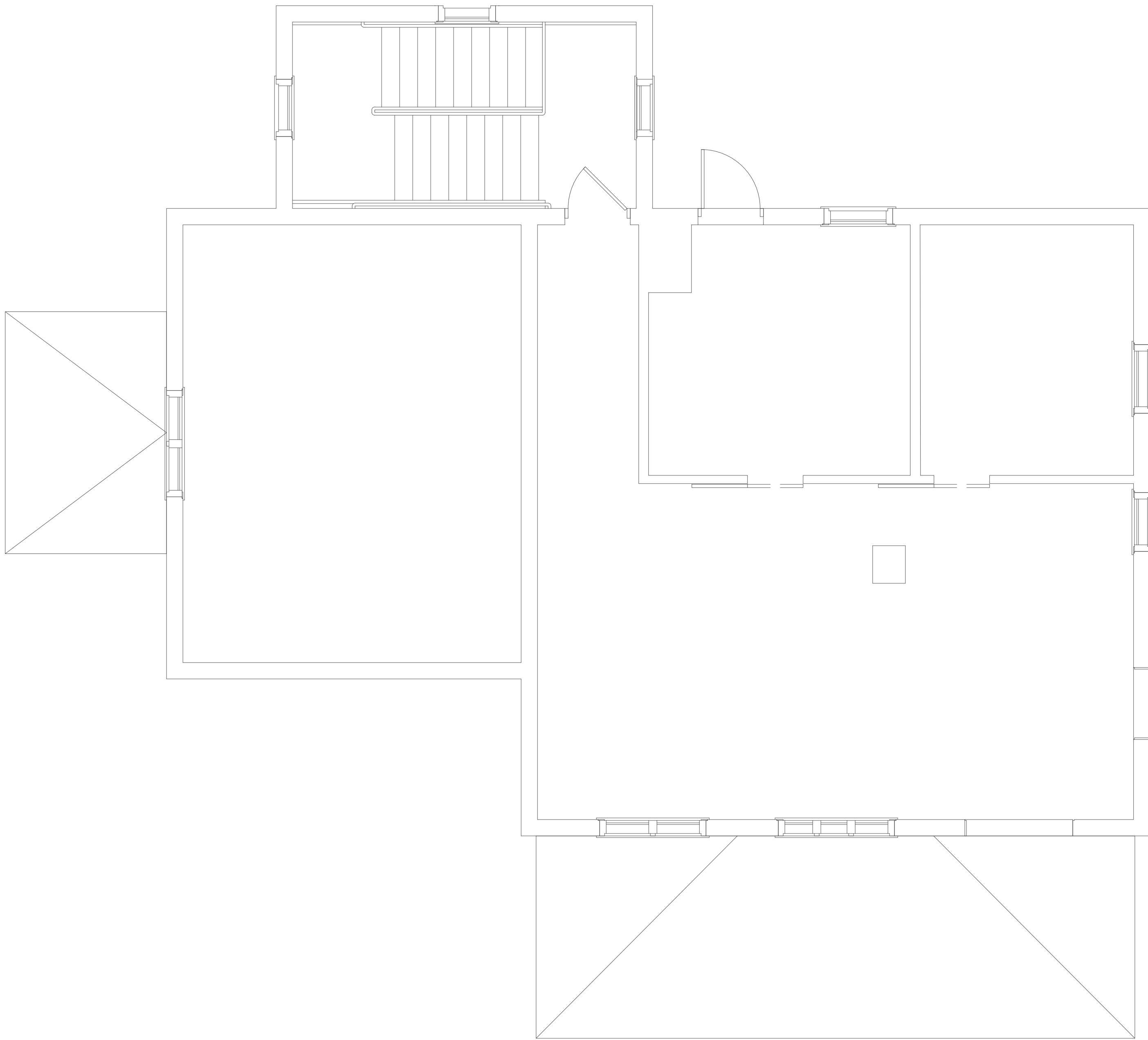
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ELEC. POWER PLAN  
1ST LEVEL

sheet number:  
E1.2







FIRE ALARM NOTES

1. PROVIDE ALL ALARM DEVICES, NOTIFICATION DEVICES, PANELS, ETC. REQUIRED BY LOCAL CODES. PROVIDE NETWORK/TERMINATION PANELS AS REQUIRED.
2. PROVIDE COMPLETE FIRE ALARM PERMIT AND CONSTRUCTION DOCUMENTS. SUBMIT DOCUMENTS TO PERMITTING AUTHORITY AND RE-SUBMIT BASED ON COMMENTS. OBTAIN AGENCY APPROVAL PRIOR TO INSTALLATION.
3. PROVIDE HORN/STROBE DEVICES AS REQUIRED BY LOCAL FIRE OFFICIALS AND WIRE TO FIRE ALARM CONTROL PANEL. DEVICE LAYOUT IS REPRESENTATIVE ONLY. PROVIDE ACTUAL QUANTITY OF DEVICES PER IFC AND PER LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS.
4. PROVIDE BATTERY AND VOLTAGE DROP CALCULATIONS.
5. CONTRACTOR SHALL REUSE/ RELOCATE EXISTING FIRE ALARM DEVICES AND PROVIDE NEW WHERE REQUIRED.

DEMOLITION LEGEND

- E - EXISTING TO REMAIN
- X - EXISTING TO BE REMOVED
- XR - EXISTING TO BE RELOCATED
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ELECTRICAL POWER PLAN - 2ND LEVEL

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

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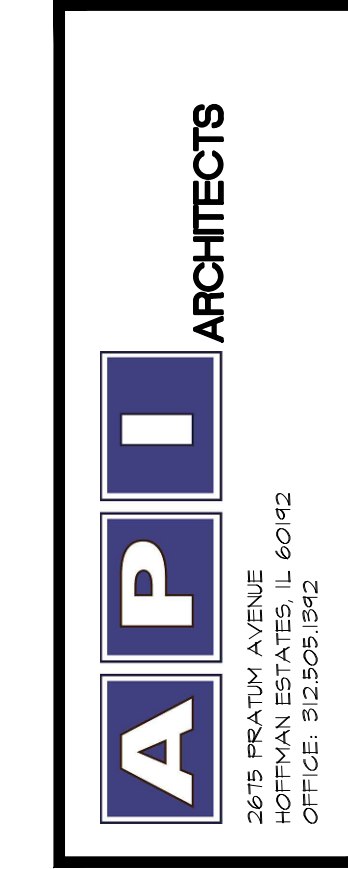
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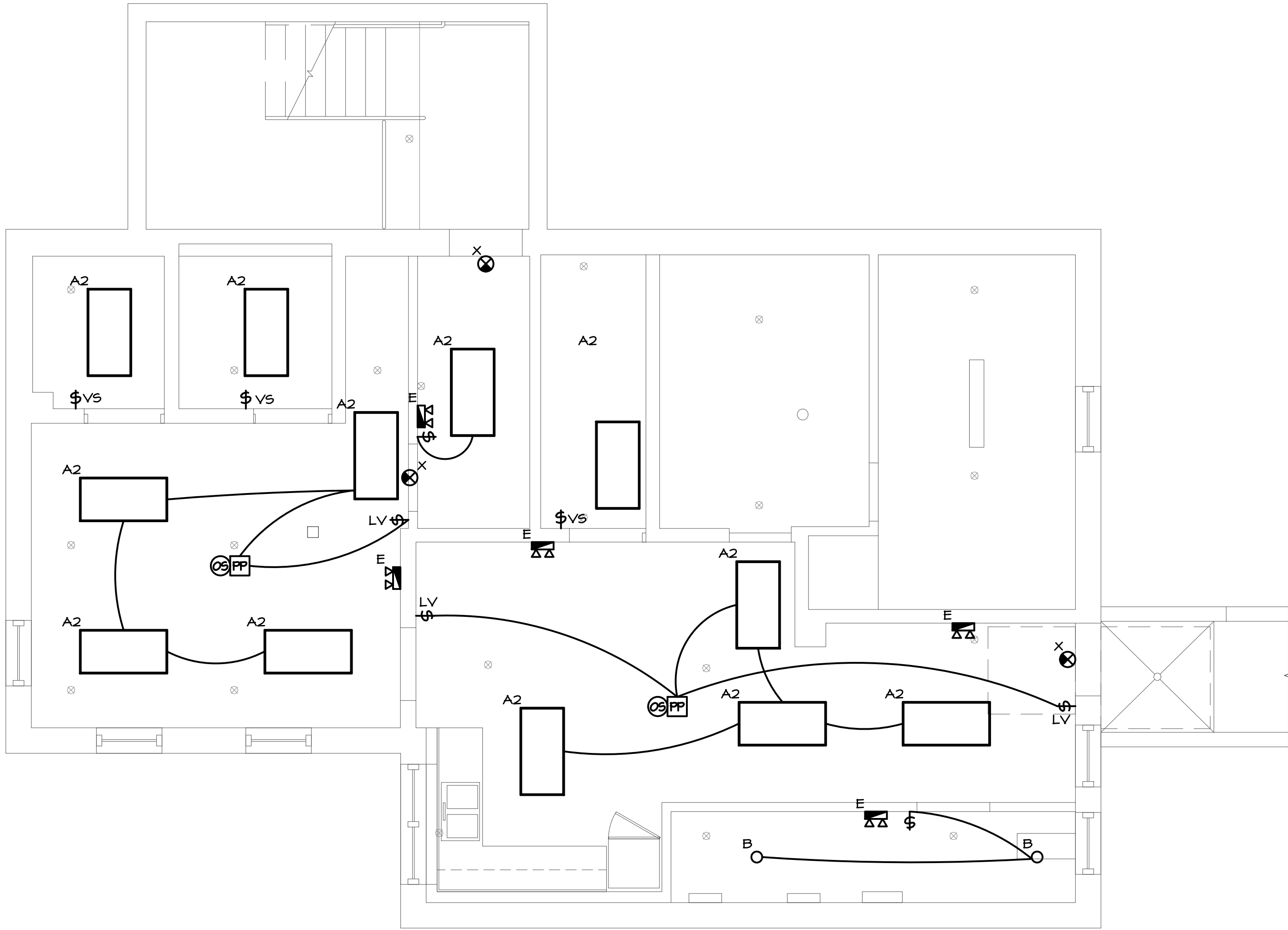
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ELECTRICAL LIGHTING PLAN - BASMENT



LIGHTING LEGEND

UPPER CASE LETTER  
DENOTES FIXTURE TYPE.  
REFER TO LIGHTING  
FIXTURE SCHEDULE FOR  
FIXTURE INFORMATION.

LOWER CASE LETTER  
DENOTES SWITCH LEG  
CORRESPONDS WITH  
LETTER AT SWITCH.

LETTERS + NUMBERS  
DENOTES PANEL  
AND CIRCUIT.

DEMOLITION LEGEND

E - EXISTING TO REMAIN  
X - EXISTING TO BE REMOVED  
XR - EXISTING TO BE RELOCATED  
XRN - EXISTING, RELOCATED TO NEW LOCATION  
XA - EXISTING DEVICE REPLACED WITH NEW  
XNA - EXISTING DEVICE REWIRED WITH NEW CIRCUIT  
XNNA - EXISTING DEVICE REPLACED WITH NEW,  
REWIRED TO NEW CIRCUIT

GENERAL NOTES

- EXISTING LOCAL LIGHTING CIRCUITS TO REMAIN SHALL BE RECONNECTED TO NEW LIGHTING FIXTURES AND CONTROLS.
- NEW EMERGENCY LIGHTS AND EXIT SIGNS SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.
- LIGHTING CONTROLS SHALL BE DUAL TECHNOLOGY TYPE.

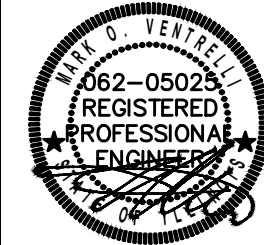
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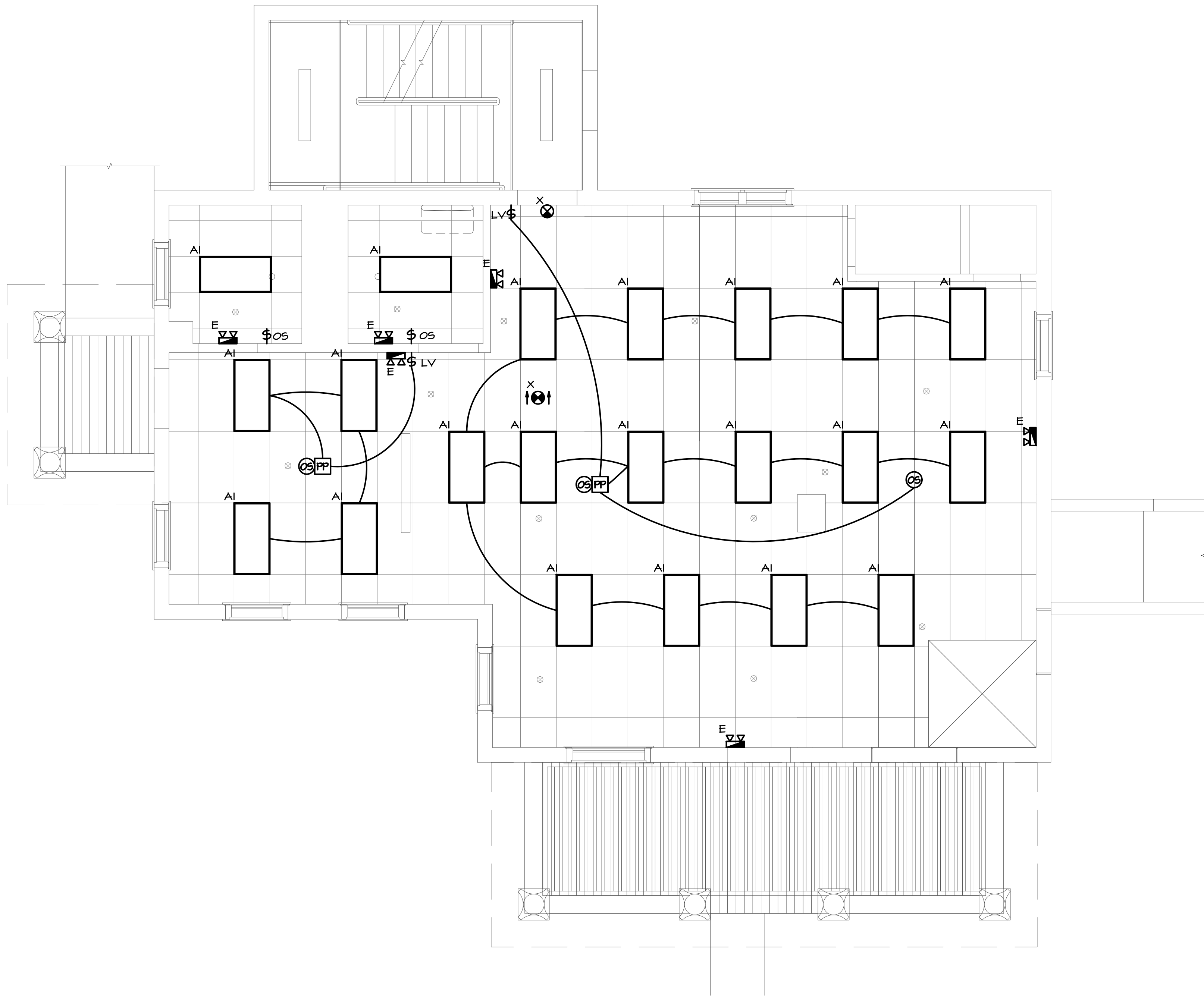
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BASEMENT

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E21



API ARCHITECTS  
2675 PRATTIN AVENUE  
HOFFMAN ESTATES, IL 60142  
OFFICE: 815.309.1942





LIGHTING LEGEND

UPPER CASE LETTER  
DENOTES FIXTURE TYPE.  
REFER TO LIGHTING  
FIXTURE SCHEDULE FOR  
FIXTURE INFORMATION.

LOWER CASE LETTER  
DENOTES SWITCH LEG  
CORRESPONDS WITH  
LETTER AT SWITCH.

LETTERS + NUMBERS  
DENOTES PANEL  
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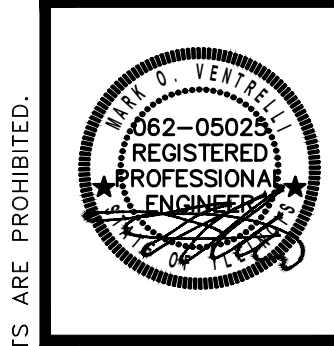
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1ST LEVEL  
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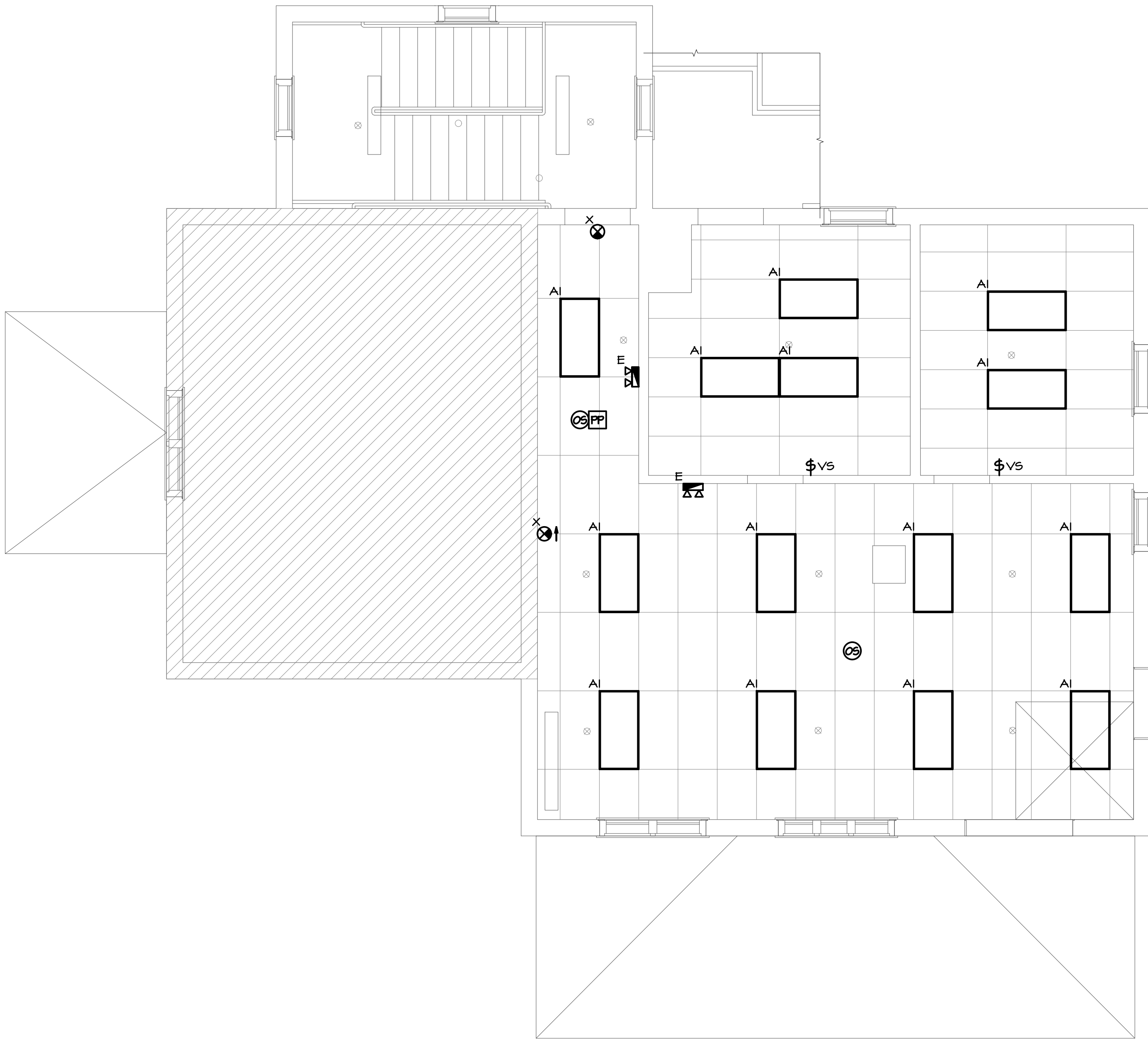
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### LIGHTING LEGEND

UPPER CASE LETTER  
DENOTES FIXTURE TYPE.  
REFER TO LIGHTING  
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LOWER CASE LETTER  
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CORRESPONDS WITH  
LETTER AT SWITCH.

LETTERS + NUMBERS  
DENOTES PANEL  
AND CIRCUIT.

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## ELECTRICAL LIGHTING PLAN - 2ND LEVEL

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

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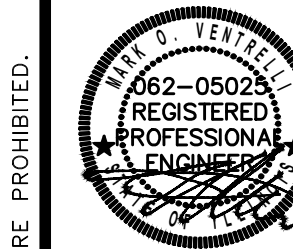
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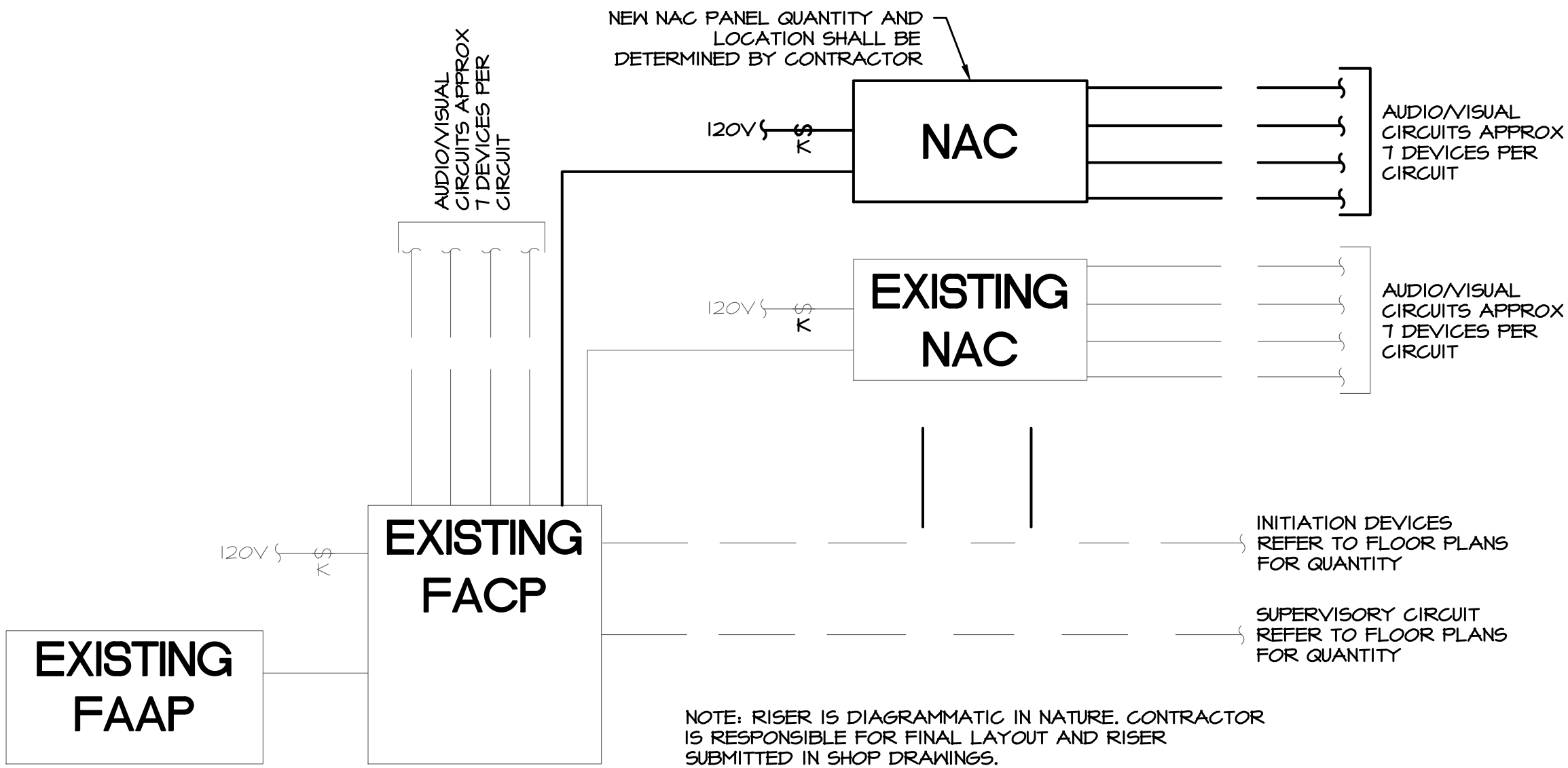


LIGHTING FIXTURE SCHEDULE					
TYPE	DESCRIPTION & FEATURES	LAMPS	MOUNTING	VOLT	SPECIFIED MANUFACTURER AND CATALOG NUMBER
		QUANTITY/TYPE	CLG./POLE-TYPE		
A1	2X4 TROFFER	32W LED	RECESSED/CEILING	120	LITHONIA #2BLT4 40L ADP EZI LP035
A2	2X4 TROFFER	32W LED	RECESSED/CEILING	120	LITHONIA #2BLT4 40L ADP EZI LP035
	W/ DRYWALL GRID ADAPTER				W/ #D6A24
B	6" DOWNLIGHT	30W LED	RECESSED/CEILING	120	GOTHAM #EVO6 35/30 AR MD L55 MVOLT
					6Z10
	EMERGENCY LIGHT	LED	HIGH WALL	120	LITHONIA #ELM2L
E	WITH BATTERY BACK-UP				
	EMERGENCY EXIT SIGN	LED	HIGH WALL	120	LITHONIA #LGM 5 W 3 R MVOLT EL N
X	WITH BATTERY BACK-UP				

- NOTES:
1. VERIFY TYPE OF CEILING OR WALL FOR ALL RECESSED LIGHTING FIXTURES PRIOR TO ORDERING.
  2. ALL BALLAST(S), INCLUDING BALLASTS FOR PL LAMPS, SHALL BE OF THE ELECTRONIC TYPE. U.L. APPROVED WITH MAXIMUM 10% THD AND CLASS "P" THERMAL PROTECTION AND CLASS "A" SOUND RATING.
  3. PROVIDE ALL ADDITIONAL HARDWARE FOR FIXTURE MOUNTING AS REQUIRED AT NO EXTRA COST.
  4. ALL WIRE WITHIN (3) THREE INCHES OF BALLASTS SHALL BE RATED A MINIMUM OF 90°C.
  5. MINIMUM LENS THICKNESS TO BE .125 INCHES, WHERE LENSES ARE USED.
  6. THE FIXTURE SCHEDULE DOES NOT NECESSARILY LIST ALL ACCESSORIES AND HARDWARE NECESSARY FOR THE COMPLETION OF INSTALLATION, NOR DOES IT DETAIL THE CEILING CONSTRUCTION TO BE ENCOUNTERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY DETERMINE AND PROVIDE CORRECT COMPONENTS, ACCESSORIES, AND HARDWARE AS REQUIRED FOR THE INSTALLATION.
  7. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS AND CEILING CONTRACTOR FOR EXACT LIGHTING FIXTURE LOCATION.
  8. ALL LAMPS SHALL BE 3500K, UNLESS OTHERWISE INDICATED.
  9. ALL BATTERY BACK-UP EMERGENCY LIGHT AND EXIT SIGN LIGHTING FIXTURES INDICATED SHALL HAVE BATTERY BACK-UP RATED FOR 1-1/2 HOURS MINIMUM AND AS APPROVED BY LOCAL FIRE PREVENTION BUREAU.
  10. ALL INDOOR LUMINAIRES OTHER THAN DWELLINGS WITH DOUBLE-ENDED LAMPS AND CONTAIN BALLAST(S) THAT ARE SUPPLIED FROM MULTI-WIRE BRANCH CIRCUITS SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OR EXTERNAL TO EACH LUMINAIRE, NEC. 410.73 (6)
  11. EMERGENCY LIGHTING TO BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.

PANEL			EXISTING PANEL 'I-LP-I'		VOLTS		120/208V		PHASE		3PH/4W				
AMPS			100A		MAIN		100A/3P MCB		A.I.C.		10,000				
LOCATION			BASEMENT ELECTRICAL ROOM					MOUNTING		SURFACE					
CIRCUIT	POLE	TRIP	DESCRIPTION				KVA	DESCRIPTION				TRIP	POLE	CIRCUIT	
1	1	20	SUMP PUMP					BASEMENT LIGHTING				20	1	2	
3	1	20	SEWAGE EJECTOR					BASEMENT LIGHTING				20	1	4	
5	1	20	DRY-PUMP COMPRESSOR					STAIRWELL LIGHTING				20	1	6	
7	2	60	AC UNIT					1ST FLOOR LIGHTING				20	1	8	
9								1ST FLOOR LIGHTING				20	1	10	
11	1	20	FRONT SIGNAL TIMER					1ST FLOOR BATH LIGHTING				20	1	12	
13	1	20	2ND FLOOR LIGHTING					1ST FLOOR RECEPT.				20	1	14	
15	1	20	2ND FLOOR LIGHTING					1ST FLOOR RECEPT.				20	1	16	
17	1	20	SPARE					1ST FLOOR RECEPT.				20	1	18	
19	1	20	2ND FLOOR RECEPT.					BATHROOM RECEPT.				20	1	20	
21	1	20	2ND FLOOR RECEPT.					1ST FLOOR OFFICE RECEPT.				20	1	22	
23	1	20	BASEMENT OFFICE				0.36	LAUNDRY RECEPT.				20	1	24	
25	1	20	2ND FLOOR RECEPT.				0.18	EXTERIOR RECEPTACLE				20	1	26	
27	1	20	2ND FLOOR RECEPT.					FIRE ALARM CONTROL PANEL				20	1	28	
29	1	30	LIFT				1.00	0.50	WATER HEATER/ RECIRC PUMP				20	1	30
31	1	20	HEATER 1ST FLOOR					0.50	FURNACE F-I'				20	1	32 *
33	1	20	HEATER 2ND FLOOR					5.45	CONDENSING UNIT 'CU-I'				40	2	34 *
35	2	30	DRYER					SECURITY				20	1	36	
37								BATTERY PACKS				20	1	40	
39	1	20	BASEMENT KITCHEN RECEPTACLES				1.50	BACK BASEMENT LIGHTING				20	1	42	
41	1	20	BASEMENT KITCHEN REFRIGERATOR				1.00								

- NOTES:
1. ALL C/B'S SERVING HVAC EQUIPMENT SHALL BE HACR RATED.
  2. ALL C/B'S SERVING EMAL LIGHTING SHALL HAVE LOCK-ON DEVICE.
  3. ALL C/B'S USED FOR SWITCHING OF LIGHTS SHALL BE SWITCH DUTY RATED.
  4. PER NEC 210.4 (B) MULTI-WIRE CIRCUITS (NETWORKS) SHARING THE SAME NEUTRAL SHALL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES, FOR SINGLE PHASE INSTALLATION, THE SIMULTANEOUS DISCONNECTION CAN BE ACHIEVED BY TWO SINGLE-POLE CIRCUIT BREAKERS WITH AN IDENTIFIED HANDLE TIE OR BY A 2-POLE CIRCUIT BREAKER. FOR A 3-PHASE INSTALLATION, A 3-POLE CIRCUIT BREAKER OR THREE SINGLE-POLE CIRCUIT BREAKERS WITH AN IDENTIFIED HANDLE TIE PROVIDES THE REQUIRED SIMULTANEOUS DISCONNECTION OF THE UNGROUNDED CONDUCTORS.
  5. TAMPER RESISTANT RECEPTACLES SHALL BE PROVIDED PER NEC 406.12
- \* DENOTES NEW CIRCUIT BREAKER.



**FIRE ALARM RISER DIAGRAM**  
SCALE: NONE

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sheet number:	

E3.1



FIRE ALARM SYMBOLS

	ADDRESSABLE FIRE ALARM CONTROL PANEL WITH REMOTE 24 HOUR TELEPHONE MONITORING
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM SYSTEM DUAL ACTION PULL STATION (48" AFF, MOUNT WITHIN 5 FT. OF DOOR)
	FIRE ALARM SYSTEM HORN & STROBE LIGHT (AUDIO-VISUAL ALARM, 480" AFF, CANDELA RATING BY OTHERS)
	VISUAL STROBE LIGHT (480" AFF, CANDELA RATING BY OTHERS)
	FIRE ALARM SYSTEM HORN & STROBE LIGHT (AUDIO-VISUAL ALARM, CEILING, CANDELA RATING BY OTHERS)
	VISUAL STROBE LIGHT (CEILING, CANDELA RATING BY OTHERS)
	SMOKE DETECTOR, MINIMUM 3FT. FROM SUPPLY VENT
	HEAT DETECTOR, 135° DEGREE FIXED TEMP/RATE OF RISE
	HVAC DUCT TYPE SMOKE DETECTOR
	REMOTE INDICATING LIGHT WITH KEY-OPERATED TEST SWITCH. VERIFY LOCATION OF LIGHT AND KEY SWITCH WITH INSPECTOR.
	FAN SHUT DOWN RELAY
	KNOX BOX (WEATHER PROOF)
	NOTIFICATION APPLIANCE CIRCUIT EXPANSION PANEL

NOTE: MINIMUM WIRE TWO CONDUCTOR INSULATED #14 AWG. TWISTED PAIR, PROVIDE BACKBOXES WITH MINIMUM 1/2" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR EACH DEVICE. PROVIDE CONDUIT IN NON-ACCESSIBLE CEILING SPACES. FIRE ALARM CABLE SHALL BE ROUTED FREE-AIR UNLESS A FULL CONDUIT SYSTEM IS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

DEVICE LAYOUT IS REPRESENTATIVE ONLY. PROVIDE ACTUAL QUANTITY OF DEVICES PER NFPA 72, NFPA 101, IBC, NEC, IFC, AND PER LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT QUANTITY OF FIRE ALARM DEVICES PRIOR TO BIDDING.

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE FIRE ALARM PERMIT AND CONSTRUCTION DOCUMENTS. SUBMIT SHOP DRAWINGS TO ENGINEER AND PERMITTING AUTHORITY FOR REVIEW PRIOR TO INSTALLATION AND RESUBMIT BASED ON COMMENTS, AS REQUIRED. PROVIDE BATTERY AND VOLTAGE DROP CALCULATIONS.

NEW FIRE ALARM DEVICES WIRED TO EXISTING FACP SHALL BE CONVENTIONAL (DUCT SMOKE DETECTORS, PULL STATIONS, HORNS, VISUALS, FLOW SWITCHES, TAMPER SWITCHES, AND BELLS). VERIFY AND COORDINATE IN FIELD.

ELECTRICAL SYMBOLS

	LIGHT FIXTURE. CAPITAL LETTER DENOTES FIXTURE TYPE, NUMERAL INDICATES CIRCUIT ASSIGNMENT, AND SUBSCRIPT LETTER DENOTES SWITCH LEG. SHADING OF ANY FIXTURE, AS SHOWN, INDICATES FIXTURE SHALL BE CIRCUITED TO EMERGENCY / UNSWITCHED NIGHT LIGHT CIRCUIT. SEE "LIGHTING FIXTURE SCHEDULE" FOR ADDITIONAL INFORMATION.
	EXIT SIGN UNIVERSAL MOUNT SHADED AREA INDICATES FACE, ARROWS AS REQUIRED. SEE "LIGHTING FIXTURE SCHEDULE."
	SELF-CONTAINED EMERGENCY LIGHTING FIXTURE, WITH BATTERY BACK-UP AND SOLID STATE CHARGER
	SINGLE POLE TOGGLE SWITCH, 48" AFF, SUBSCRIPT LETTER DENOTES SWITCH LEG, 20 AMP, 120 VOLT
	THREE WAY TOGGLE SWITCH, 48" AFF, 20AMP, 120 VOLT
	FOUR WAY TOGGLE SWITCH, 48" AFF, 20AMP, 120 VOLT
	MANUAL SINGLE PHASE MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION. 48" AFF UNLESS INDICATED OTHERWISE
	DIMMER SWITCH, 48" AFF
	FAN SPEED SWITCH, 48" AFF
	WALL MOUNTED VACANCY SENSOR SWITCH "MANUAL ON / AUTO OFF" 48" AFF
	WALL MOUNTED OCCUPANCY SENSOR SWITCH "AUTO ON / AUTO OFF" 48" AFF
	LOW VOLTAGE MOMENTARY CONTACT SWITCH, 48" AFF
	LOW VOLTAGE MOMENTARY CONTACT DIMMER SWITCH, 48" AFF
	SWITCH FURNISHED WITH PILOT LIGHT.
	KEY LOCK SWITCH, 48" AFF
	NON-FUSED DISCONNECT SWITCH (NFDs) RATED AS INDICATED
	FUSED DISCONNECT SWITCH (FDS) WITH SWITCH AND FUSE RATED AS INDICATED.
	3-PHASE COMBINATION MAGNETIC STARTER WITH NEMA SIZE INDICATED BY E.C.
	DUPLEX RECEPTACLE, NEMA 5-20R, 15"A.F.F.
	ISOLATED GROUND RECEPTACLE, NEMA 5-20R, 15" AFF
	RECEPTACLE CROSS LINE DENOTES 6" ABOVE COUNTER OR BACKSLASH
	RECEPTACLE SHADING DENOTES GROUND FAULT CIRCUIT INTERRUPTER "GFCI", NEMA 5-20R
	DOUBLE DUPLEX (QUAD) RECEPTACLE
	RECEPTACLE SHADING DENOTES SWITCHED OUTLET
	DUPLEX RECEPTACLE WITH TWO (2) USB PORTS
	CEILING-MOUNTED RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE NEMA CONFIGURATION AS REQUIRED BY MANUFACTURERS EQUIPMENT. VERIFY CONDUIT, CONDUCTOR AND DISCONNECT/CIRCUIT BREAKER REQUIREMENTS PRIOR TO ROUGH-IN
	LIGHTING AND/OR POWER PANEL
	DISTRIBUTION PANEL
	MOTOR
	PHOTO ELECTRIC CONTROL, ROOF MOUNTED, 120V OPERATION, 20A RATED
	CONDUIT ROUTED CONCEALED IN CEILING OR WALL CONSTRUCTION. (CROSS LINES DENOTE NUMBER OF WIRES.)
	CONDUIT ROUTED EXPOSED, PARALLEL OR PERPENDICULAR TO WALLS.
	CONDUIT ROUTED CONCEALED IN CONCRETE FLOOR SLAB OR UNDERGROUND.
	AUXILIARY JUNCTION BOX
	FLEXIBLE CONDUIT CONNECTION
	HOME RUN TO PANELBOARD
	CONDUIT PHASE CONDUCTORS NEUTRAL CONDUCTOR EQUIPMENT GROUND ISOLATED GROUND
	TELEPHONE OUTLET, WITH 3/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING.
	DATA SYSTEM OUTLET WITH 3/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING.
	DATA AND TELEPHONE OUTLET, WITH 3/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING.
	TV OUTLET, WITH 3/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING.
	CEILING MOUNTED OCCUPANCY SENSOR "AUTO ON / AUTO OFF"
	CEILING MOUNTED VACANCY SENSOR "MANUAL ON / AUTO OFF"
	CEILING MOUNTED DAYLIGHT SENSOR
	LIGHTING POWER PACK
	POWER POLE
	FLOOR BOX OR POKE-THRU DEVICE

ELECTRICAL SPECIFICATIONS

THE GENERAL CONDITIONS AND SUPPLEMENTAL GENERAL CONDITIONS BY THE ARCHITECT SHALL GOVERN WHERE APPLICABLE.

THIS CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL VERIFY EXISTING SITE CONDITIONS AT THE JOB SITE BEFORE SUBMITTING BID. FAILURE TO RECOGNIZE WORK REQUIRED SHALL BE AT THE EXPENSE OF THIS CONTRACTOR. NO CONSIDERATION SHALL BE GIVEN FOR ADDITIONAL COMPENSATION AFTER THE LETTING OF BIDS.

ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER AND SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. THE COMPLETED SYSTEMS SHALL BE FULLY OPERATIONAL; ACCEPTANCE BY THE OWNER SHALL BE A CONDITION OF THE CONTRACT. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCES, PRESERVE MAXIMUM HEADROOM, AND AVOID OMISSIONS. ALL MATERIALS, WORKMANSHIP AND EQUIPMENT SHALL BE GUARANTEED FOR ONE (1) YEAR AFTER SYSTEM ACCEPTANCE.

RECEPTACLES AND SWITCHES SHALL BE THE TYPE AS SHOWN ON THE DRAWINGS AND SHALL BE SPECIFICATION GRADE.

MINIMUM BRANCH WIRE SIZE SHALL BE #12 AWG COPPER EXCEPT FOR CONTROL AND SIGNAL CIRCUITS. INSULATION (INTERIOR) SHALL BE SOLID TYPE THIN OR THIN SIZES #10. SIZES #8 THROUGH 150 KCMIL SHALL BE STRANDED TYPE THIN OR THIN AT THE CONTRACTOR'S OPTION.

MINIMUM OUTLET BOXES SHALL BE 4" SQUARE, UNLESS OTHERWISE SPECIFIED.

CONTRACTOR SHALL NOT SCALE DRAWINGS FOR DIMENSIONS BUT SHALL CONTACT THE PROJECT ARCHITECT FOR ALL DIMENSIONAL DATA AND SHALL VERIFY EXACT LOCATION AND MOUNTING HEIGHTS OF ALL OUTLETS WITH ARCHITECT AND/OR OWNER PRIOR TO INSTALLATION.

GROUNDING AND BONDING SHALL COMPLY WITH REQUIREMENTS OF ALL APPLICABLE CODES.

ALL MATERIALS USED SHALL BE NEW AND BEAR THE W/L LABEL AND BE OF THE APPROPRIATE NEMA STANDARD.

THIS CONTRACTOR SHALL ALLOW IN HIS INITIAL BID THE COST OF SERVICES ON ALL EQUIPMENT INSTALLED UNDER HIS CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE OF THE WORK.

LAYOUT IS DIAGRAMMATIC AND WORK SHALL BE INSTALLED TO MEET FIELD CONDITIONS AND EQUIPMENT SELECTED. PROVIDE SHOP DRAWINGS AS REQUIRED AND VERIFY ALL EQUIPMENT.

PANELBOARDS SHALL BE DEAD FRONT WITH BOLT-ON TYPE CIRCUIT BREAKERS AND COPPER BUS. PROVIDE A TYPED LEGEND, UNDER A CLEAR PLEXIGLASS COVER FOR CIRCUIT IDENTIFICATION.

CONTRACTOR SHALL INCLUDE ALL MISCELLANEOUS ITEMS REQUIRED TO COMPLETE THE WORK.

CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND REQUIRED INSPECTION FEES.

IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE AND REVIEW THE ELECTRICAL CHARACTERISTICS, AMPCACITY AND OTHER REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLATION.

IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THE LOCATIONS OF CONDUIT ROUTING, EQUIPMENT, LIGHTING, ETC. WITH ALL OTHER TRADES IN THE FIELD PRIOR TO INSTALLATION.

THE ENTIRE INSTALLATION OF ALL COMPONENTS OF THIS PROJECT SHALL COMPLY WITH ALL FEDERAL ADA REQUIREMENTS. VERIFY EXACT LOCATIONS AND HEIGHTS OF ALL FIXTURES AND OUTLETS BEFORE INSTALLATION TO INSURE COMPLIANCE WITH FEDERAL REGULATIONS.

FOR CLARITY OF ALL PLANS, SOME CONDUIT AND WIRE HAS NOT BEEN SHOWN. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO FURNISH AND INSTALL COMPLETE AND OPERATING SYSTEMS INCLUDING ALL CONDUIT AND WIRING.

THIS CONTRACTOR SHALL MAINTAIN THE FIRE RATED INTEGRITY OF ALL FLOORS, CEILINGS AND WALLS. ALL PENETRATIONS THROUGH FIRE RATED BUILDING ELEMENTS SHALL BE EFFECTIVELY SEALED USING APPROVED MATERIALS AND METHODS. ALL LIGHTING FIXTURES MOUNTED IN FIRE RATED CEILINGS SHALL MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILINGS USING APPROVED MATERIALS AND METHODS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS.

THIS CONTRACTOR SHALL INSPECT THE COMPLETE SET OF DRAWINGS AND SPECIFICATIONS TO DETERMINE HIS ENTIRE SCOPE OF WORK. THIS CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND EXTENT OF DEMOLITION AND NEW WORK FOR THIS PROJECT PRIOR TO SUBMITTING HIS BID.

THE ELECTRICAL INSTALLATION IS TO BE IN STRICT ACCORDANCE WITH THE APPLICABLE RULES AND REGULATIONS OF ALL LOCAL, STATE AND FEDERAL ELECTRICAL CODES AND THE LOCAL UTILITY COMPANY REQUIREMENTS OR ANY OTHER AUTHORITIES HAVING LAWFUL JURISDICTION.

ALL SITE UNDERGROUND BRANCH CIRCUIT WIRING IN CONDUIT SHALL BE TYPE THIN OR THIN.

ALL UNDERFLOOR OR EXPOSED TO THE WEATHER CONDUIT SHALL BE HEAVY-WALL, GALVANIZED RIGID STEEL "RGS", INTERMEDIATE METAL CONDUIT "IMC", OR RIGID PVC SCHEDULE #40 CONDUIT, WHERE ALLOWED, MINIMUM SIZE 3/4".

PROVIDE BARRIERS TO SEPARATE DIFFERENT PHASES IN 277VOLT GANGED SWITCH BOXES.

ALL WIRE SHALL BE INSTALLED IN THINWALL, ELECTRICAL METALLIC TUBING (EMT) CONDUIT UNLESS OTHERWISE NOTED. MINIMUM SIZE SHALL BE 3/4" FOR BRANCH CIRCUIT WIRING, DROPS TO SWITCHES AND BRANCH DEVICES MAY BE 1/2" UNLESS OTHERWISE NOTED ON DRAWINGS. ALL THINWALL FITTINGS SHALL BE OF THE STEEL COMPRESSION GLAND TYPE PER ALL APPLICABLE CODE REQUIREMENTS. ALL CONDUITS SHALL BE CONCEALED WHERE POSSIBLE. WHERE EXPOSED, THIS CONTRACTOR SHALL RUN CONDUITS IN STRAIGHT LINES PARALLEL AND/OR PERPENDICULAR TO THE BUILDING CONSTRUCTION. CONDUITS INSTALLED IN AREAS SUBJECT TO MECHANICAL DAMAGE SHALL BE RIGID GALVANIZED, OR INTERMEDIATE METAL TYPE.

THIS CONTRACTOR SHALL PROVIDE ALL TEMPORARY WIRING FOR ALL TRADES FOR CONSTRUCTION EQUIPMENT (IE: HAND TOOLS, WELDERS, PIPE BENDERS, ETC.) AND CONSTRUCTION LIGHTING PER THE LATEST OSHA STANDARDS. INCLUDE ALL COSTS IN THE BASE BID. THIS CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK, COMPLYING WITH THE APPLICABLE PROVISIONS OF ALL CITY, STATE AND FEDERAL SAFETY LAWS (OSHA).

ABBREVIATIONS		
A, AMP - AMPERES	WH - ELECTRIC WATER HEATER	N/A - NOT APPLICABLE
AFF - ABOVE FINISHED FLOOR	FDS - FUSED DISCONNECT SWITCH	NEC - NATIONAL ELECTRICAL CODE
AF6 - ABOVE FINISHED GRADE	FLA - FULL LOAD AMPS	NFDS - NON-FUSED DISCONNECT SWITCH
AL - ALUMINUM	FLEX - FLEXIBLE	NIC - NOT IN CONTRACT
ATS - AUTOMATIC TRANSFER SWITCH	GFCI - GROUND FAULT CIRCUIT INTERRUPTING	NO - NORMALLY OPEN
AWG - AMERICAN WIRE GAUGE	GRD, GND - GROUND	NTS - NOT TO SCALE
C - CONDUIT	HID - HIGH DENSITY DISCHARGE	OH - OVERHEAD
C/B - CIRCUIT BREAKER	HP - HORSE POWER	PNL - PANEL
CCTV - CLOSED CIRCUIT TELEVISION	IG - ISOLATED GROUND	QTY - QUANTITY
CKT - CIRCUIT	INC - INCANDESCENT	REF - REFERENCE, REFER
COND - CONDUCTOR	J-BOX, JB - JUNCTION BOX	RGS - RIGID GALVANIZED STEEL
CONN - CONNECTION	KCMIL - 1000 CIRCULAR MILS	SQ FT - SQUARE FOOT
CU - COPPER	KVA - KILOVOLT AMPS	SW - SWITCH
DISC - DISCONNECT	KW - KILOWATTS	TTB - TELEPHONE TERMINATION BOARD
DN - DOWN	LED - LIGHT EMITTING DIODE	TVSS - TRANSIENT VOLTAGE SURGE SUPPRESSION
DP - DISTRIBUTION PANEL	LTG - LIGHTING	TYP - TYPICAL
EA - EACH	LV - LOW VOLTAGE	UG - UNDERGROUND
ELEC - ELECTRICAL	MAX - MAXIMUM	UH - UNIT HEATER
ELEV - ELEVATOR	MCB - MAIN CIRCUIT BREAKER	V - VOLTAGE, VOLTS
EM, EMERG - EMERGENCY	MDP - MAIN DISTRIBUTION PANEL	VFD - VARIABLE FREQUENCY DRIVE
EMT - ELECTRICAL METALLIC TUBING	MFR - MANUFACTURER	WP - WEATHER PROOF
EOL - END OF LINE	MH - MOUNTING HEIGHT	WT - WEIGHT
EUH - ELECTRIC UNIT HEATER	MIN - MINIMUM	XFMR - TRANSFORMER
EXC - ELECTRIC WATER COOLER	MLO - MAIN LUGS ONLY	
EXH - ELECTRIC WALL HEATER	MTD - MOUNTED	