GENERAL NOTES

1. 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.

2. 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.

3. 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.

4. WORK WILL BE COORDINATED WITH ALL TRADES IN ORDER TO AVOID INTERFERENCE, AND AVOID OMISSIONS.

5. ALL MATERIALS USED WILL BE NEW AND BEAR U.L. LABELS WHERE REQUIRED AND MEET APPROPRIATE N.E.M.A. STANDARDS.

6. LAYOUT ALL PARTITIONS BEFORE BEGINNING CONSTRUCTION TO PREVENT ERRORS BY DISCREPANCY. ALL DRYWALL PARTITIONS WILL BE INSTALLED AS NOTED ON THE DRAWINGS.

7. EACH SUBCONTRACTOR WILL AMEND AND MAKE GOOD AT HIS OWN COST, ANY DEFECTS OR OTHER FAULTS IN HIS WORKMANSHIP AND/OR HIS SUPPLIED MATERIALS.

8. ALL CONTRACTORS WILL GUARANTEE ALL LABOR AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF OCCUPANCY.

9. 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.

10. 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.

11. 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.

12. 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.

13. 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.

14. 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.

15. 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.

16. 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.

17. LIENS: ALL SUBCONTRACTORS AND THE GENERAL CONTRACTOR WILL DELIVER TO THE OWNER, A COMPLETE RELEASE OF ALL CLAIMS ARISING OUT OF THIS CONTRACT.

18. 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.

19. 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

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

PROJECT DIRECTORY

OWNER

HOFFMAN ESTATES PARK DISTRICT
DUSTIN HUGEN
1685 WEST HIGGINS ROAD
HOFFMAN ESTATES, IL 60169
847-885-7500

ARCHITECT

API ARCHITECTS
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192

CIVIL ENGINEER

THE W-T GROUP, LLC
TODD ABRAMS
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
224-293-6333

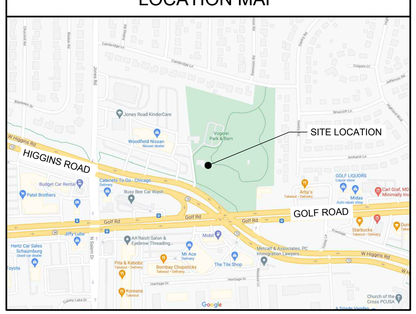
STRUCTURAL ENGINEER

THE W-T GROUP, LLC
JEFFERY GUTOWSKY
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
224-293-6333

MECHANICAL, ELECTRICAL, AND PLUMBING ENGINEER

THE W-T GROUP, LLC
MARK VENTRELLI
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
224-293-6333

LOCATION MAP



GENERAL BUILDING INFORMATION

HOFFMAN ESTATES ADOPTED CODES

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

BUILDING DATA

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 LIMITED USE/LIMITED APPLICATION ELEVATOR FROM BASEMENT TO SECOND FLOOR WILL BE ADDED. AROUND THE EXTERIOR, THREE RAMPS WILL BE ADDED TO EACH LEVEL OF THE BUILDING.

API ARCHITECTS
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
OFFICE: 224.293.6333

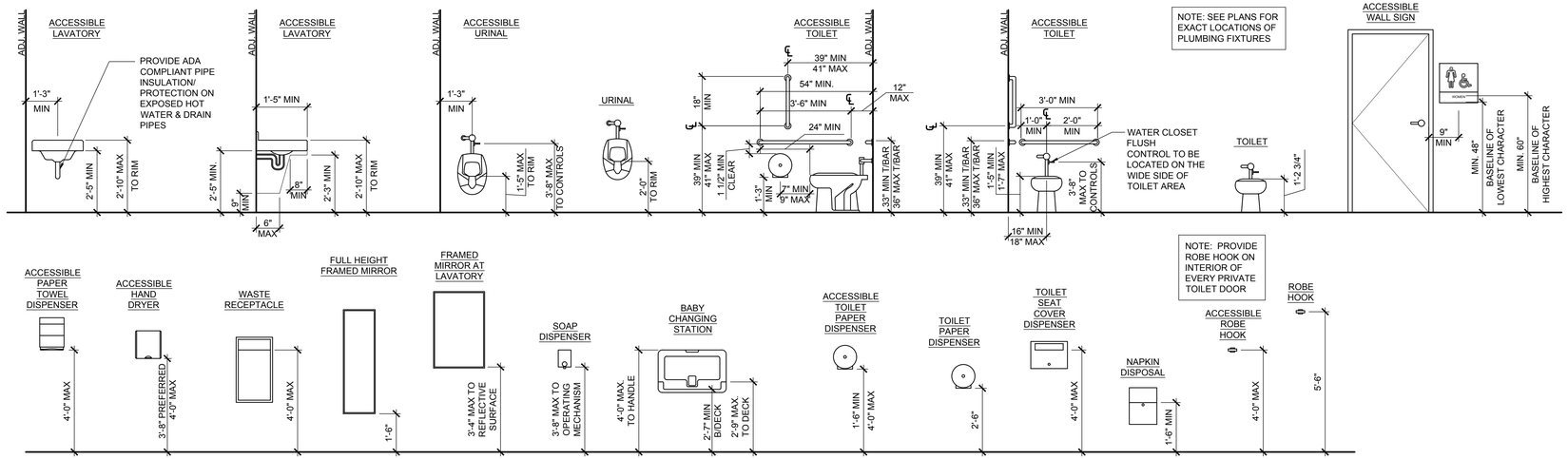
Signed: Expires: November 30, 2022

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

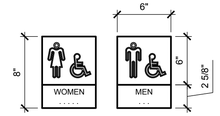
project no.	D2100051
date:	07.21.2021
revision 1:	08.27.2021
revision 2:	
revision 3:	
revision 4:	
checked:	CA
drawn:	JB

sheet title: COVER SHEET

sheet number: G001



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

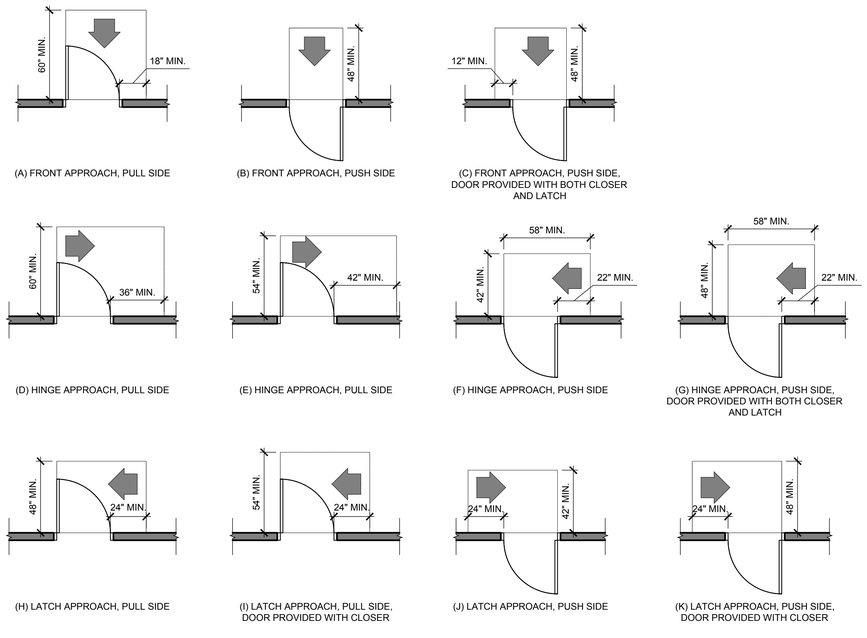


SIGN MUST INCLUDE: GRADE 2 BRAILLE, MINIMUM 6" X 6" PICTOGRAM, AND 5/8" HIGH TEXT RAISED 1/32". THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND. CHARACTERS MUST BE UPPERCASE AND SANS SERIF OR "SIMPLE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



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

API ARCHITECTS
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
OFFICE: 312.258.1942

Signed: Expires: November 30, 2020

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

project no.	D2100051
date:	07.21.2021
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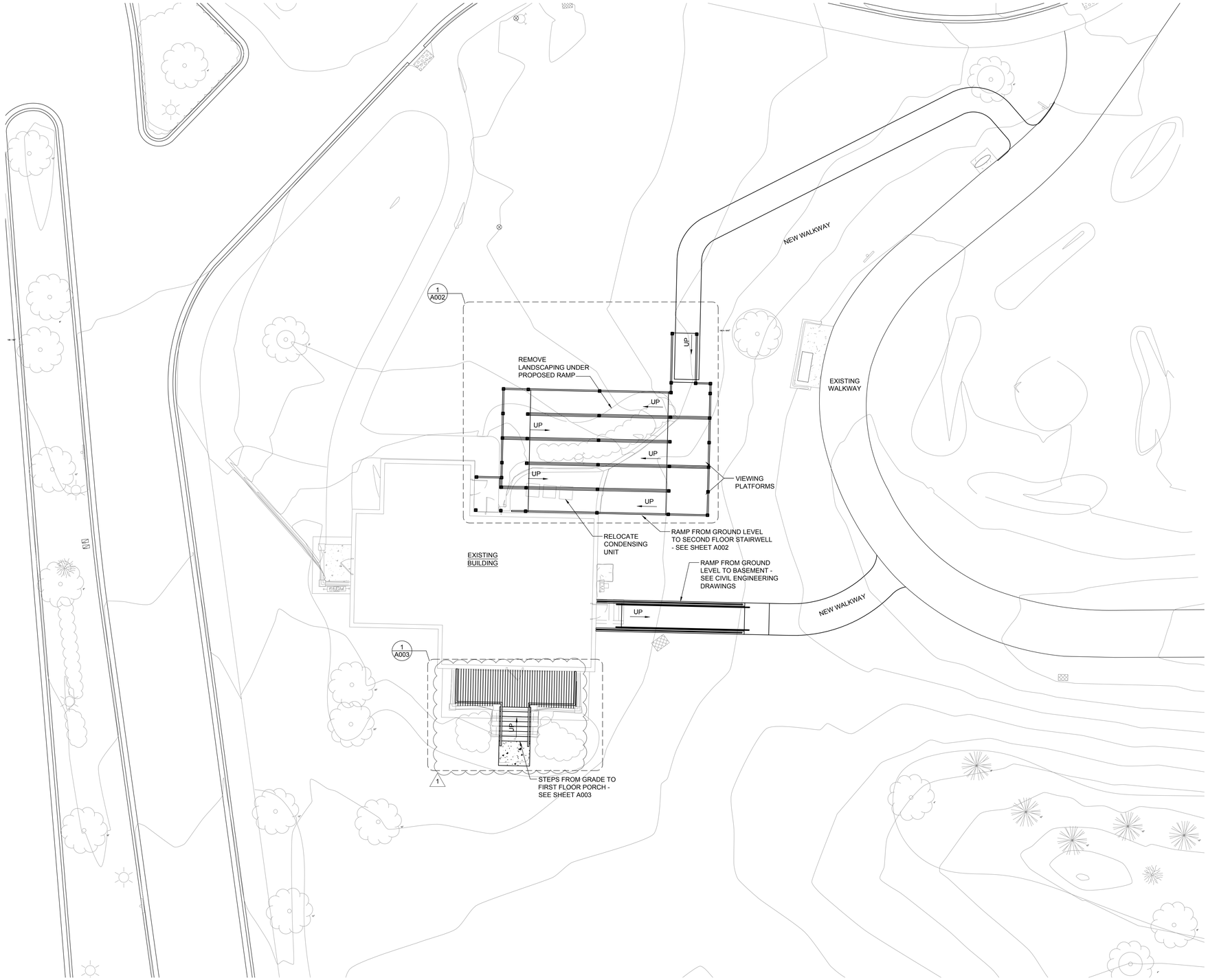
revision 4:	
checked:	GA
drawn:	JB

sheet title: ACCESSIBILITY INFORMATION
sheet number: G002



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

API ARCHITECTS
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
OFFICE: 312.575.1312

Signed: Expires: November 30, 2021

HOFFMAN ESTATES PARK DISTRICT - VOGELEI HOUSE REMODEL

650 WEST HIGGINS ROAD
HOFFMAN ESTATES, IL 60169

project no.	P2100051
date:	07.21.2021
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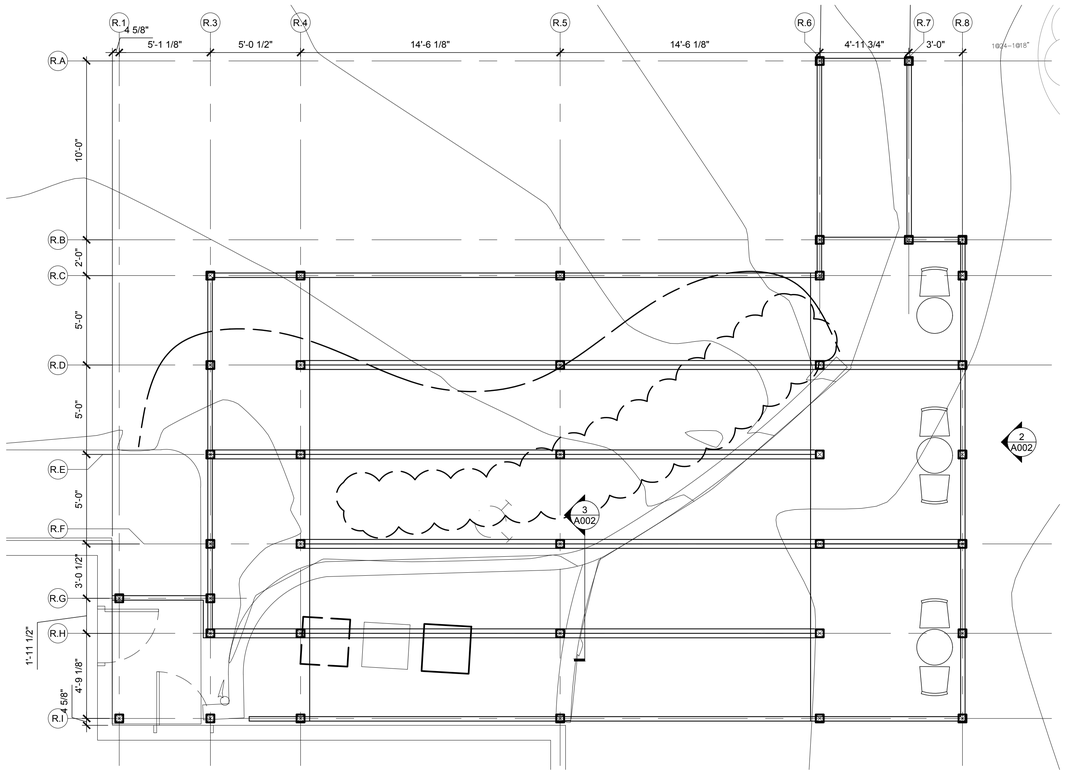
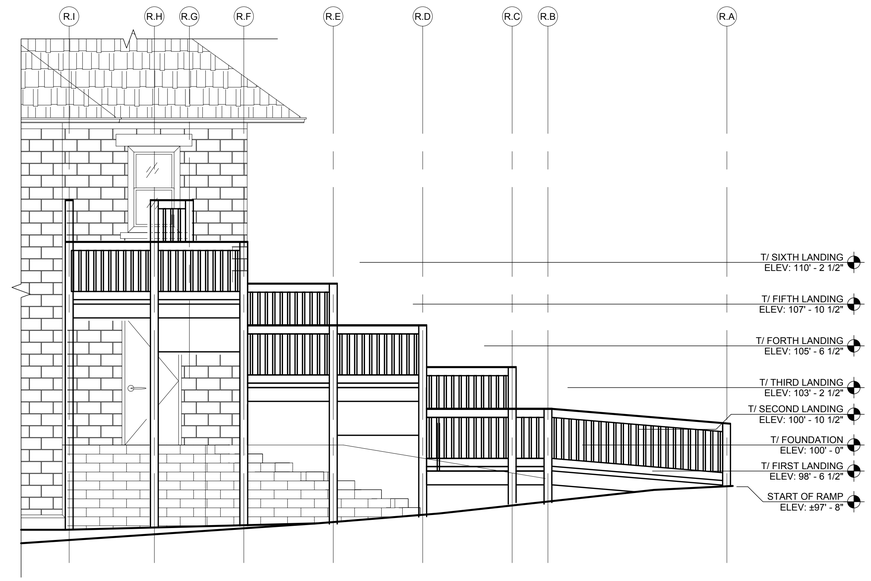
revision 2:	
revision 3:	
revision 4:	
checked:	GK
drawn:	JB

sheet title: SITE PLAN

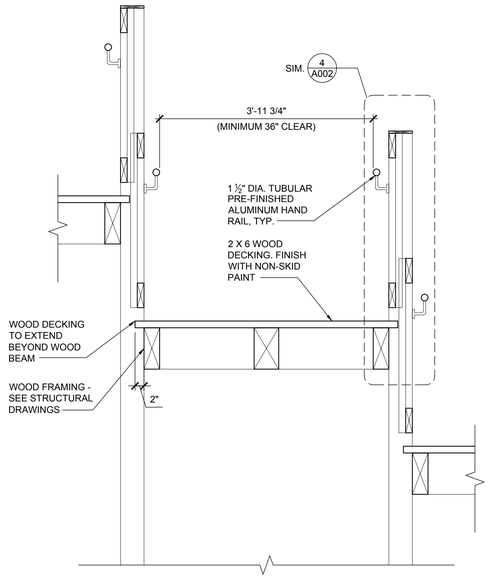
sheet number: A001



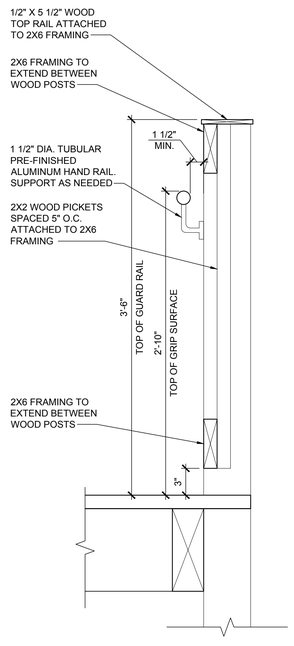
1 RAMP SECTION
SCALE: 1/4" = 1'-0"



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"

API ARCHITECTS
2679 PRAIRIE AVENUE
HOFFMAN ESTATES, IL 60192
OFFICE: 312.505.1342

Signed: Expires: November 30, 2020

HOFFMAN ESTATES PARK DISTRICT - VOGELEI HOUSE REMODEL

650 WEST HIGGINS ROAD
HOFFMAN ESTATES, IL 60169

project no.	D2100051
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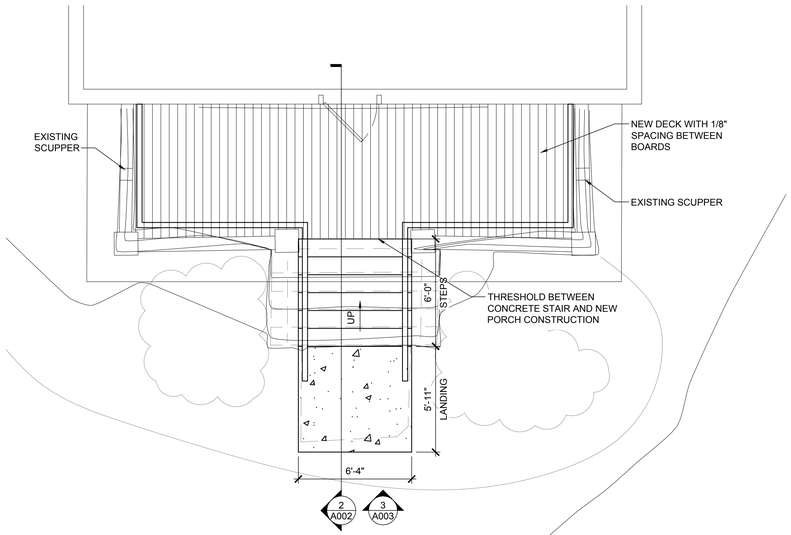
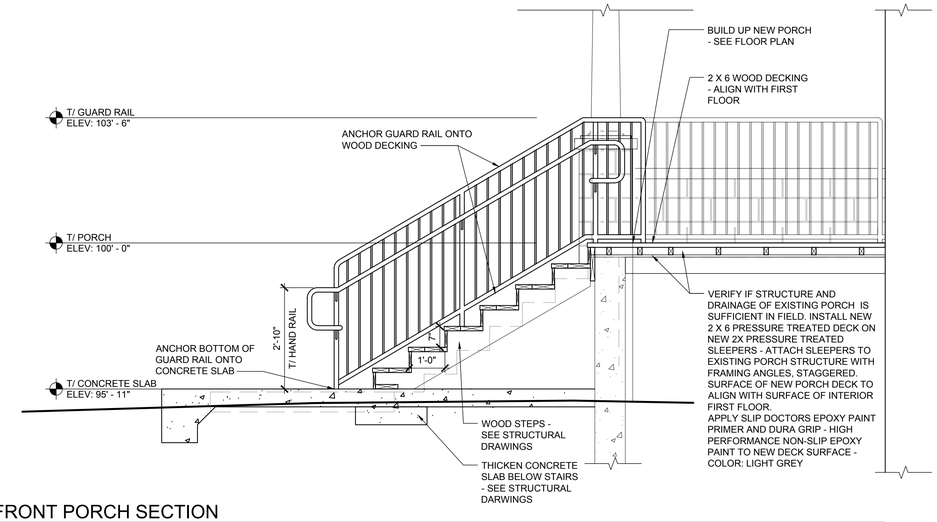
revision 3:	
revision 4:	
checked:	CK
drawn:	JB

sheet title: SITE RAMP DETAILS

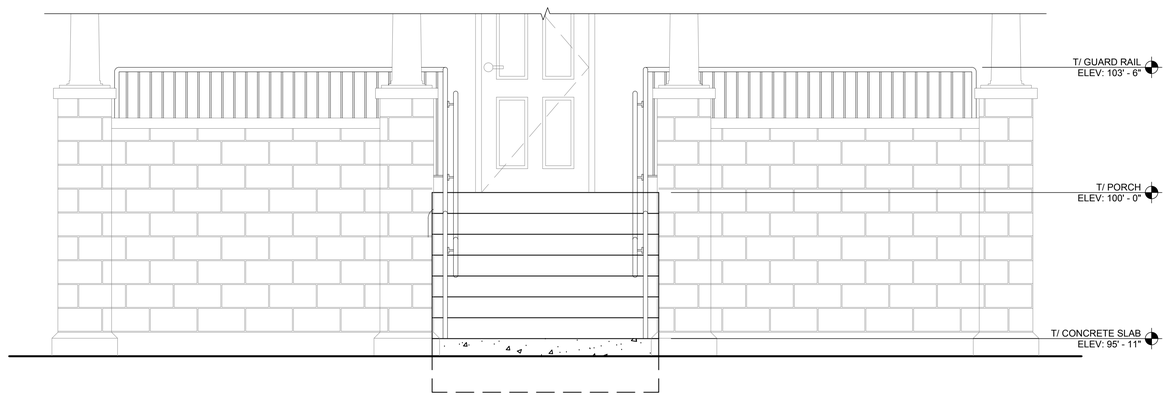
sheet number: A002



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



2 FRONT PORCH SECTION
SCALE: 1/2" = 1'-0"



3 FRONT PORCH ELEVATION
SCALE: 1/2" = 1'-0"

API ARCHITECTS
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
OFFICE: 312.575.1342

Signed: Expires: November 30, 2021

HOFFMAN ESTATES PARK DISTRICT - VOGELEI HOUSE REMODEL

650 WEST HIGGINS ROAD
HOFFMAN ESTATES, IL 60169

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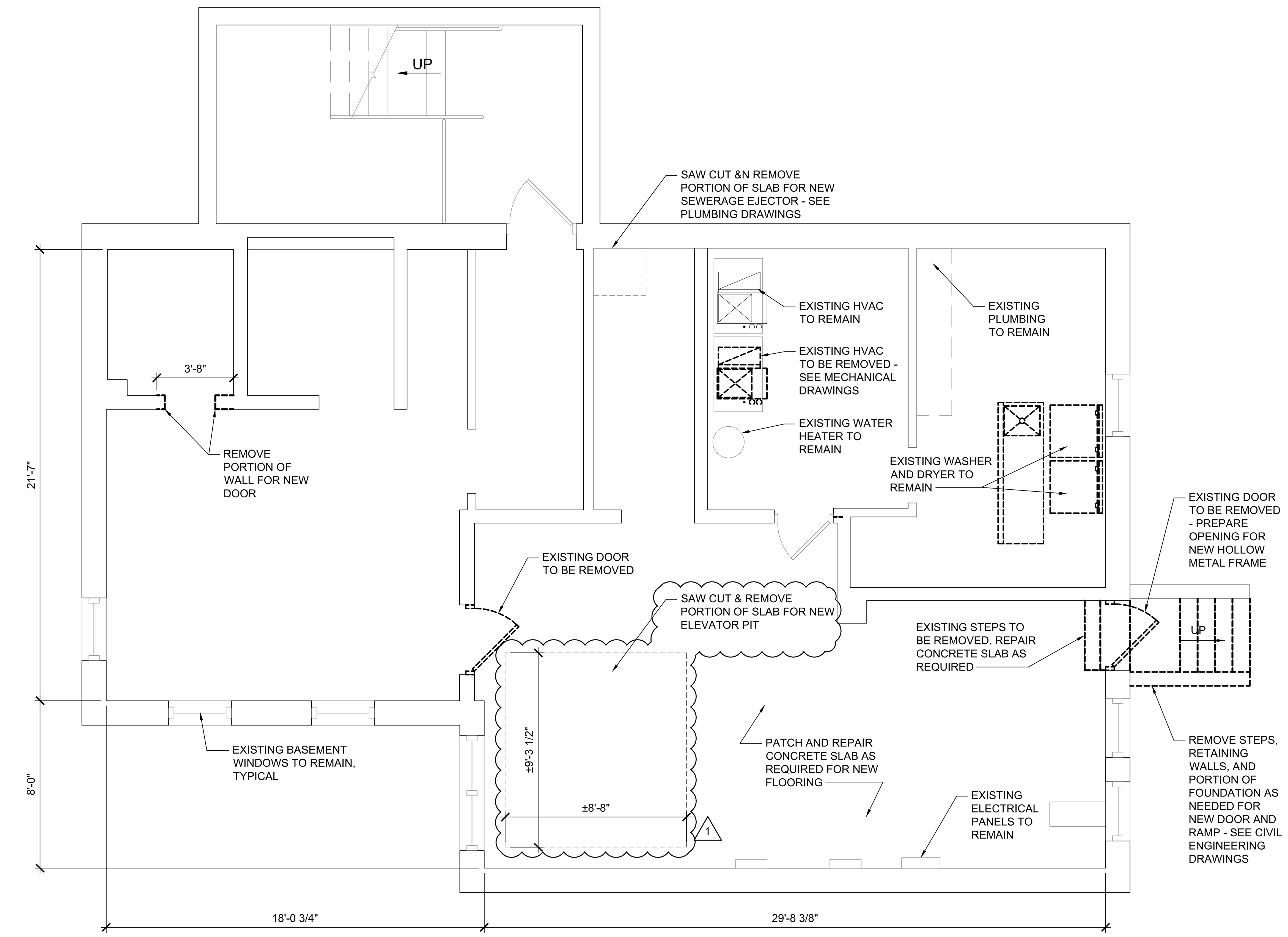
revision 2:	
revision 3:	
revision 4:	
checked:	CN
drawn:	JB

sheet title: **SITE RAMP DETAILS**

sheet number: **A003**



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

N

DEMOLITION GENERAL NOTES

A. 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.

B. 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.

C. CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AS REQUIRED TO MAINTAIN STRUCTURAL STABILITY OF THE EXISTING STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

D. SEQUENCING AND PHASING OF DEMOLITION AND CONSTRUCTION TO BE CONFIRMED WITH OWNER PRIOR TO START OF WORK.

E. CONTRACTOR IS TO CLEAN UP AND REMOVE ALL DEMOLISHED MATERIALS FROM SITE. THE BUILDING AND EXTERIOR IS TO BE SWEPT CLEAN DAILY FROM ALL DEMOLISHED MATERIALS.

F. PROTECT ALL EXISTING WALLS, FLOORS, CEILINGS, EQUIPMENT, ETC., THAT ARE TO REMAIN, FROM DAMAGE DURING CONSTRUCTION.

G. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO START OF WORK.

H. 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.

I. 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.

J. THROUGHOUT DURATION OF WORK, OPEN TRENCHES SHALL BE PROTECTED AND COVERED BY STEEL PLATES.

K. 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.

L. 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.

M. PROTECT ALL PUBLIC AREAS FROM CONSTRUCTION DEBRIS, DUST, ETC.

N. 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.

O. 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.

API ARCHITECTS
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
OFFICE: 312.505.1392

Signed: Expires: November 30, 2020

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

project no.	D210005I
date:	07.21.2021
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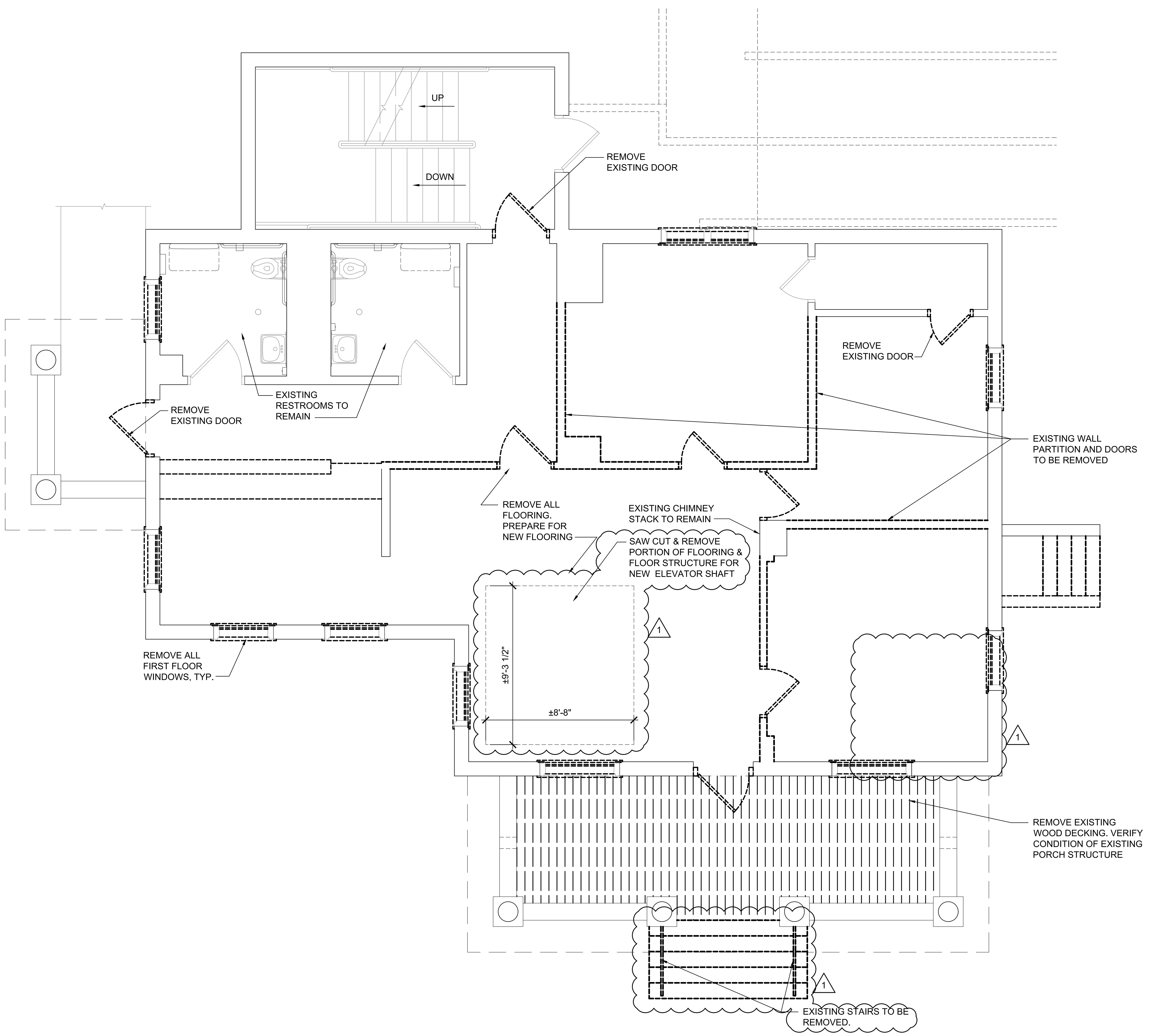
drawn:	JB

sheet title:
BASEMENT DEMOLITION FLOOR PLAN

sheet number:
D101



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

DEMOLITION GENERAL NOTES

A. 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.

B. 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.

C. CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AS REQUIRED TO MAINTAIN STRUCTURAL STABILITY OF THE EXISTING STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

D. SEQUENCING AND PHASING OF DEMOLITION AND CONSTRUCTION TO BE CONFIRMED WITH OWNER PRIOR TO START OF WORK.

E. CONTRACTOR IS TO CLEAN UP AND REMOVE ALL DEMOLISHED MATERIALS FROM SITE. THE BUILDING AND EXTERIOR IS TO BE SWEPT CLEAN DAILY FROM ALL DEMOLISHED MATERIALS.

F. PROTECT ALL EXISTING WALLS, FLOORS, CEILINGS, EQUIPMENT, ETC., THAT ARE TO REMAIN, FROM DAMAGE DURING CONSTRUCTION.

G. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO START OF WORK.

H. 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.

I. 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.

J. THROUGHOUT DURATION OF WORK, OPEN TRENCHES SHALL BE PROTECTED AND COVERED BY STEEL PLATES.

K. 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.

L. 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.

M. PROTECT ALL PUBLIC AREAS FROM CONSTRUCTION DEBRIS, DUST, ETC.

N. 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.

O. 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.

API ARCHITECTS
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
OFFICE: 312.505.1392

Signed: Expires: November 30, 2020

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

project no.	D210005I
date:	07.21.2021
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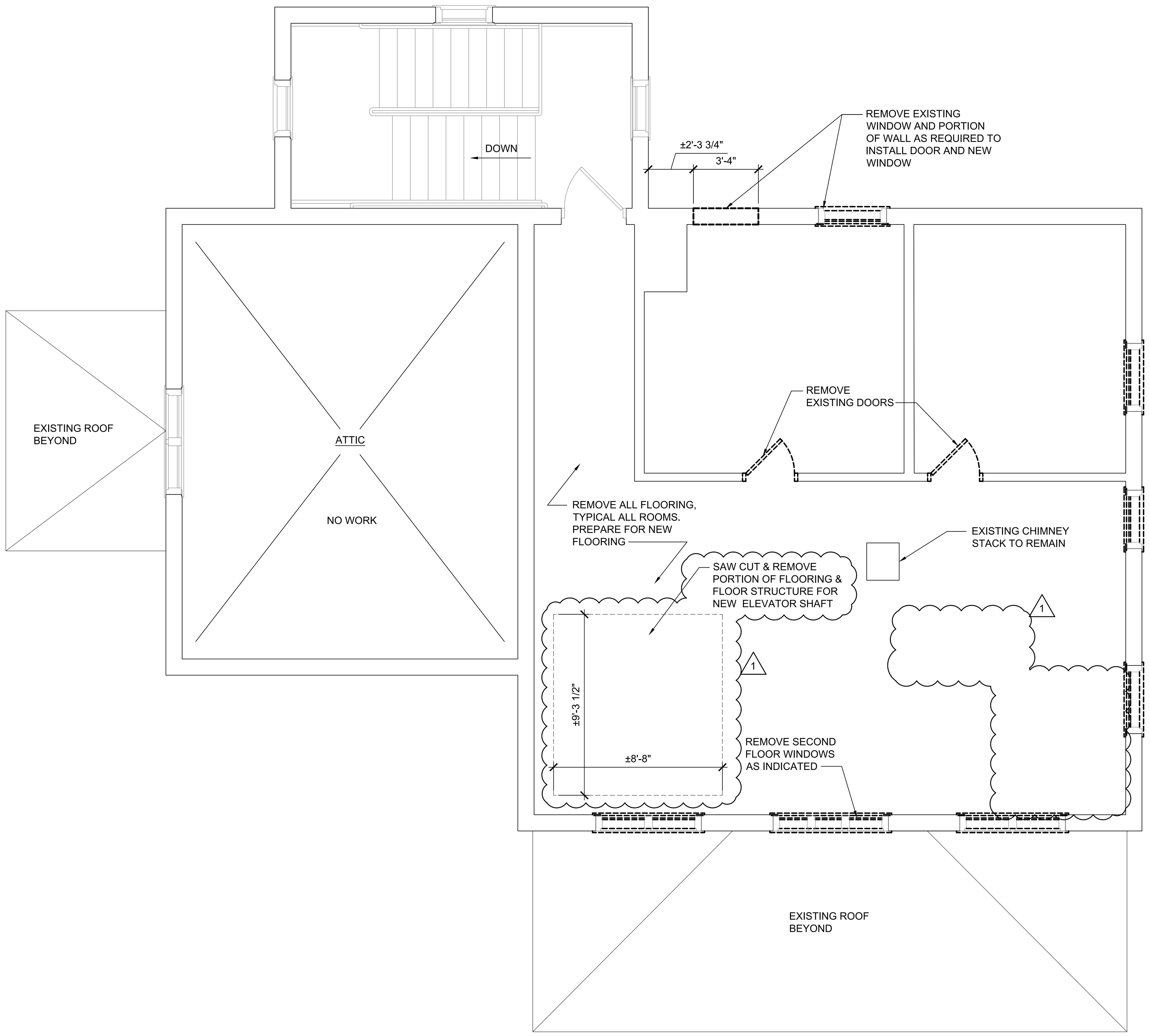
revision 3:	
revision 4:	
checked:	CW
drawn:	JB

sheet title:
FIRST FLOOR DEMOLITION PLAN

sheet number:
D102



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

N

DEMOLITION GENERAL NOTES

A. 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.

B. 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.

C. CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AS REQUIRED TO MAINTAIN STRUCTURAL STABILITY OF THE EXISTING STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

D. SEQUENCING AND PHASING OF DEMOLITION AND CONSTRUCTION TO BE CONFIRMED WITH OWNER PRIOR TO START OF WORK.

E. CONTRACTOR IS TO CLEAN UP AND REMOVE ALL DEMOLISHED MATERIALS FROM SITE. THE BUILDING AND EXTERIOR IS TO BE SWEPT CLEAN DAILY FROM ALL DEMOLISHED MATERIALS.

F. PROTECT ALL EXISTING WALLS, FLOORS, CEILINGS, EQUIPMENT, ETC., THAT ARE TO REMAIN, FROM DAMAGE DURING CONSTRUCTION.

G. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO START OF WORK.

H. 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.

I. 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.

J. THROUGHOUT DURATION OF WORK, OPEN TRENCHES SHALL BE PROTECTED AND COVERED BY STEEL PLATES.

K. 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.

L. 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.

M. PROTECT ALL PUBLIC AREAS FROM CONSTRUCTION DEBRIS, DUST, ETC.

N. 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.

O. 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.

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Signed: Expires: November 30, 2020

HOFFMAN ESTATES PARK DISTRICT - VOGELEI HOUSE REMODEL
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HOFFMAN ESTATES, IL 60169

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GENERAL STRUCTURAL NOTES

1. 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, BRACING, 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 2
   C. ELEVATOR RAIL LOAD (PER RAIL) = 4800 LBS
   D. ELEVATOR BUMPER LOAD (PER BUMPER) = 3300 LBS

   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

   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 $S_{DS} = 0.149$, $S_{D1} = 0.098$
   C. SEISMIC IMPORTANCE FACTOR $I_E = 1.0$
   D. SITE CLASS = D
   E. SEISMIC DESIGN CATEGORY = B

GENERAL FOUNDATION NOTES

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.

ASSUMED SOIL PROPERTIES NOTES

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 = 2000 PSF

3. LATERAL EARTH PRESSURE
   A. ACTIVE LATERAL SOIL PRESSURE = 60 PSF/FT
   B. PASSIVE LATERAL SOIL PRESSURE = 300 PSF/FT

GENERAL EXCAVATION NOTES

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 DETERIORATION 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.

REINFORCED CONCRETE NOTES

1. 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 LAB 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:
       - #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

15. CONCRETE CUTTING AND BORING:
    A. CONCRETE CUTTING AND BORING METHODS ARE "WAYS AND MEANS" OF CONSTRUCTION AND SHALL BE DETERMINED BY THE CONTRACTOR.

EXISTING CONDITION NOTES

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 CONNECTED, IS AS INDICATED ON THESE 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 DIMENSION WHICH MAY INADVERTENTLY 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 CONTRACTORS 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 ENGINEER. THE CONTRACTOR, IF AWARDED THE CONTRACT, 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.

REPAIRS AND REPLACEMENTS NOTES

1. IN THE EVENT OF DAMAGE, 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.

MASONRY NOTES

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 C476, 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, 3/16" DIAMETER WIRE TIES (HOT DIPPED GALVANIZED).
   G. f'm 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 SHOVING (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 REDUCE BOND TO MORTAR OR GROUT.
   D. POSITION REINFORCING ACCURATELY AT THE SPACING INDICATED. SUPPORT SECURE VERTICAL BARS AGAINST DISPLACEMENT. HORIZONTAL REINFORCING MAY BE PLACED AS THE MASONRY WORK PROGRESSES.
   E. PROVIDE LAPPED SPLICES, UNLESS OTHERWISE INDICATED. IN SPLICING VERTICAL BARS OR ATTACHING TO DOWELS, LAP END, PLACE IN CONTACT AND WIRE TIE.
   F. EMBED PREFABRICATED HORIZONTAL JOINT REINFORCEMENT AS THE WORK PROGRESSES, WITH A MINIMUM COVER OF 5/8" ON EXTERIOR FACE OF WALLS AND 1/2" AT OTHER LOCATIONS.
   G. USE LOW-LIFT GROUTING TECHNIQUE WITH "FINE GROUT" PER ASTM C 476 FOR THE FOLLOWING.
   H. CONSTRUCT LOW-LIFT MASONRY BY PLACING REINFORCEMENT, LAYING MASONRY UNITS AND POURING GROUT AS THE WORK PROGRESSES.
   I. PLACE VERTICAL REINFORCEMENT BARS AND SUPPORTS PRIOR TO LAYING OF MASONRY UNITS. EXTEND ABOVE ELEVATION OF MAXIMUM POUT HEIGHT AS REQUIRED TO ALLOW FOR SPLICING.
   J. LAY MASONRY UNITS PRIOR TO EACH GROUT POUR, BUT DO NOT CONSTRUCT MORE THAN 12" ABOVE MAXIMUM GROUT POUR HEIGHT.
   K. POUR GROUT USING CONTAINER WITH SPOUT AND CONSOLIDATE IMMEDIATELY BY ROTTING OR PUDDLING; DO NOT USE TROWELS. PLACE GROUT CONTINUOUSLY; DO NOT INTERRUPT POURING OF GROUT FOR MORE THAN ONE HOUR. TERMINATE POUR 1-1/2" BELOW TOP OF HIGHEST COURSE IN POUR.
   L. BOND BEAMS: STOP GROUT IN VERTICAL CELLS 1-1/2" BELOW BOND BEAM COURSE. PLACE HORIZONTAL REINFORCING IN BOND BEAMS; LAP AT CORNERS AND INTERSECTIONS AS SHOWN. PLACE GROUT IN BOND EACH COURSE BEFORE FILLING VERTICAL CORES ABOVE BOND BEAM.
   M. PREPARATION OF GROUT SPACES: PRIOR TO GROUTING, INSPECT AND CLEAN GROUT SPACES. REMOVE DUST, DIRT, MORTAR DROPPINGS, LOOSE PIECES OF MASONRY AND OTHER FOREIGN MATERIALS FROM GROUT SPACES. CLEAN REINFORCING AND ADJUST TO PROPER POSITION.
   N. A MINIMUM OF 2 - #5 VERTICAL BARS SHALL BE PLACED AT WALL ENDS, EACH SIDE OF OPENINGS AND EACH SIDE OF CONTROL JOINTS.
   O. PROVIDE STANDARD GALVANIZED 9 GAUGE HORIZONTAL REINFORCING AT 16" O.C. IN ALL WALLS. PROVIDE TRUSS TYPE JOINT REINFORCEMENT FOR ALL CONCRETE MASONRY. UNLESS OTHERWISE NOTED, STOP ALL HORIZONTAL JOINT REINFORCING AT CONTROL JOINTS.
   P. REINFORCED MASONRY: WHERE VERTICAL BARS ARE TO BE GROUTED INTO CORES, THE FOLLOWING REQUIREMENTS APPLY:
      - PROVIDE DOWELS FROM FOOTING, SAME SIZE AND SPACING AS WALL BARS. LAP 12 INCHES MINIMUM WITH WALL BAR. EMBED INTO FOOTING MIN. 9 INCHES.
      - PROVIDE A CONTINUOUS VERTICAL CAVITY, AT LEAST 3" X 4" IN SIZE, FREE OF MOTOR DROPPINGS
      - PROVIDE REBAR ALIGNMENT DEVICES AT A MAXIMUM SPACING OF 96 BAR DIAMETERS (MINIMUM OF 2 PER BAR).
      - AT SPLICES IN VERTICAL BARS, PROVIDE 48 BAR DIAMETER LAP.
      - ALL REINFORCEMENT MUST BE INSTALLED AND SECURELY ANCHORED PRIOR TO PLACEMENT OF GROUT.
      - WIRE TIES AND ANCHORS: RECTANGULAR TYPE, 3/16" DIAMETER WIRE TIES (HOT-DIPPED GALVANIZED).
   Q. MISCELLANEOUS:
      - VERTICAL COLLAR JOINTS SHALL BE FILLED SOLID WITH MORTAR OR GROUT.
      - FILL CORE SOLID AROUND ANCHOR BOLTS.
      - PROVIDE 100% SOLID BLOCKS OR SOLIDLY-FILLED HOLLOW BLOCKS FOR AT LEAST 4" ALL AROUND ALL EXPOSED BOLTS.
      - HOLLOW MASONRY UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALL ALSO BE BEDDED IN THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.
      - PROVIDE JOINT REINFORCING AT 16 INCHES, EXCEPT AS NOTED.
      - LAP JOINT REINFORCING 6 INCHES.
      - WHERE MASONRY UNITS ARE USED ABOVE HOLLOW UNITS OF A DIFFERENT THICKNESS, PROVIDE A CONTINUOUS COURSE OF 100% SOLID MASONRY AT LEAST 8 INCHES HIGH BELOW TRANSITION.
      - MAXIMUM SPACING OF VERTICAL CONTROL JOINTS SHALL NOT EXCEED 20'.

SIMPSON STRONG-TIE HARDWARE GENERAL NOTES

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 NASPEC, 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.

WOOD FRAMING NOTES

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 $F_{c\ para}$ = 1050 PSI
   - F_v = 135 PSI $F_{c\ perp}$ = 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 $F_{c\ para}$ = 550 PSI
   - F_v = 125 PSI $F_{c\ perp}$ = 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

8. ALL WOOD POSTS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
   - F_b = 800 PSI $F_{c\ para}$ = 625 PSI
   - F_v = 125 PSI $F_{c\ perp}$ = 335 PSI
   - E_m = 1200 KSI

9. CONTRACTOR TO PROVIDE BRACING AS NEEDED FOR SAFE INSTALLATION AND ERECTION OF THE WOOD MEMBERS.

10. ALL WOOD FRAMING MATERIAL SHALL BE SURFACED DRY AND USED AT 19 PERCENT MAXIMUM MOISTURE CONTENT.

11. ALL FRAMING EXPOSED TO THE WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE - TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVES ASSOCIATION SPECIFICATIONS. WHERE POSSIBLE, ALL CUTS AND HOLES SHOULD BE COMPLETED BEFORE TREATMENT. CUTS AND HOLES DUE TO ON-SITE FABRICATION SHALL BE BRUSHED WITH 2 COATS OF COPPER NAPHTHENATE SOLUTION CONTAINING MIN. 2 PERCENT METALLIC COPPER IN SOLUTION (PER AWPA STD M4).

12. THE CONTRACTORS SHALL CAREFULLY SELECT LUMBER TO BE USED IN LOAD BEARING APPLICATIONS. THE LENGTH OF SPLIT ON THE WIDE FACE OF 2" NOMINAL LOAD BEARING FRAMING SHALL BE LIMITED TO LESS THAN 1/2 OF THE WIDE FACE DIMENSION. THE LENGTH OF SPLIT ON THE WIDE FACE OF 3" NOMINAL AND THICKER LUMBER SHALL BE LIMITED TO 1/2 OF THE NARROW FACE DIMENSION.

13. PREFABRICATED METAL JOIST HANGERS, HURRICANE CLIPS, AND OTHER ACCESSORIES SHALL BE AS MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY" OR APPROVED EQUAL. INSTALL ALL ACCESSORIES PER MANUFACTURER'S REQUIREMENTS. ALL STEEL SHALL BE A MINIMUM THICKNESS OF 0.04 INCHES (PER ASTM A446 GRADE A) AND BE GALVANIZED (COATING G60)

14. HOLES AND NOTCHES DRILLED OR CUT INTO WOOD FRAMING SHALL NOT EXCEED THE REQUIREMENTS OF IBC 2015.

15. ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS, AND OTHER MISCELLANEOUS HARDWARE SHALL BE HOT DIPPED GALVANIZED.

16. ALL FASTENERS IN CONTACT WITH PRESERVATICE-TREATED WOOD TO BE HOT-DIPPED, ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER.

17. DESIGN OF WOOD STRUCTURAL ELEMENTS IS BASED ON ALLOWABLE STRESS DESIGN IN ACCORDANCE WITH SECTION 2304, 2305, 2306 OF THE INTERNATIONAL BUILDING CODE (IBC) 2015.

PARALLAM PSL NOTES

1. ALL PARALLAM 1.8E COLUMNS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
   - F_b = 2400 PSI $F_{c\ para}$ = 2500 PSI
   - F_v = 190 PSI $F_{c\ perp}$ = 545 PSI
   - E_m = 1800 KSI

2. ALL PARALLAM 2.0E BEAMS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
   - F_b = 2900 PSI $F_{c\ para}$ = 2900 PSI
   - F_v = 290 PSI $F_{c\ perp}$ = 625 PSI
   - E_m = 2000 KSI

2

3. ALL PARALLAM 2.2E DEEP BEAMS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
   - F_b = 2900 PSI $F_{c\ para}$ = 2900 PSI
   - F_v = 290 PSI $F_{c\ perp}$ = 625 PSI
   - E_m = 2200 KSI

4. CONTRACTOR TO PROVIDE BRACING AS NEEDED FOR SAFE INSTALLATION AND ERECTION OF THE MEMBERS.

LINTEL NOTES

1. ALL STRUCTURAL STEEL ANGLES & PLATES SHALL BE A36 (Fy = 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.

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

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LICENSED STRUCTURAL ENGINEER
JEFFERY S. GUTOWSKY
081-005847
STATE OF ILLINOIS

SIGNED: 8/27/2021
EXP.: 11/30/2022

HOFFMAN ESTATES PARK DISTRICT
650 W HIGGINS ROAD
HOFFMAN ESTATES, IL 60169

VOGELEI HOUSE REMODEL

ISSUE

TO	DATE
PERMIT	7/21/21
PERMIT 1	8/6/21
ADDENDUM 2	8/27/21

CHECK:SMD
DRAWN:DWK
JOB:D2100051

S-0.0
STRUCTURAL NOTES

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.

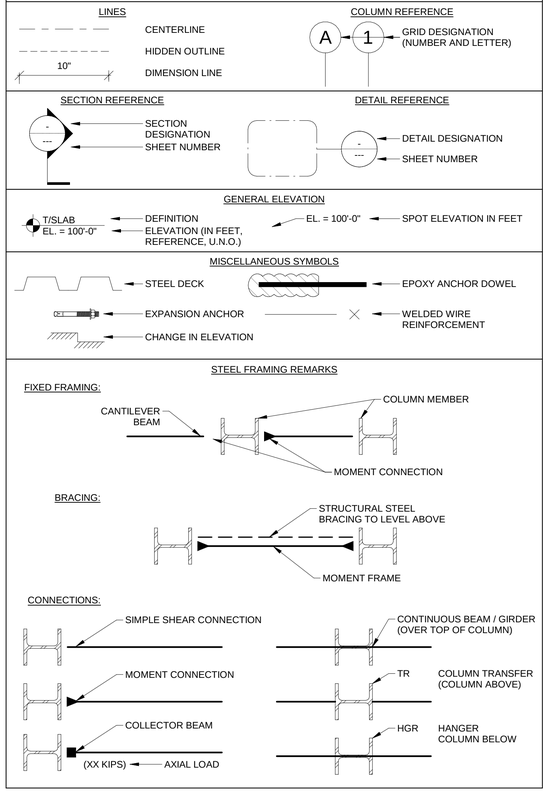
5. THE FOLLOWING ITEMS MARKED "X" REQUIRE SPECIAL INSPECTIONS: (REFER TO IBC DESIGNATED ABOVE FOR FURTHER INFORMATION)

			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:	N/A	
		a	VERIFY WELABILITY OF REINFORCING BARS OTHER THAN ASTM A706		N/A
		b	INSPECT SINGLE PASS FILLET WELDS, MAXIMUM 5/16"		N/A
		c	INSPECT ALL OTHER WELDS	N/A	
	3		INSPECT ANCHORS CAST IN CONCRETE		N/A
	4		INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:		
		a	ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	N/A	
		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	N/A	
		b	GROUTING OF BONDED PRESTRESSING TENDONS	N/A	
	10		INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		N/A
	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		N/A
	12		INSPECT FORMWORK FOR LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		N/A
G			WOOD CONSTRUCTION - 1705.5		
	1		HIGH-LOAD DIAPGRAGMS		N/A
	2		METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING 60 FEET OR GREATER		N/A
	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		REINFORCED PLASTIC		
B/	BOTTOM OF	FTG	FOOTING	PSI	POUNDS PER SQUARE INCH
BLDG	BUILDING	F/	FACE OF		
BLKG	BLOCKING	GA	GAUGE	PSL	PARALLEL STRAND LUMBER
BMU	BRICK MASONRY UNIT	GALV	GALVANIZED		
BP	BASEPLATE	GEOTECH	GEOTECHNICAL	P-T	POST-TENSIONED
BRB	BUCKLING RESISTING BRACED	GL	GLUE LAMINATED TIMBER	PT	PRESSURE TREATED
		GWB	GYPSUM WALL BOARD	R	RADIUS
BRG	BEARING	H	HEADER	RD	ROOF DECK
BTWN	BETWEEN	HF	HEM-FIR	REF	REFER / REFERENCE
℄	CENTERLINE	HGR	HANGER	REINF	REINFORCING
C	CAMBER	HD	HOLD-DOWN	REQD	REQUIRED
CB	CASTELLATED BEAM	HORIZ	HORIZONTAL	RET	RETAINING
CIP	CAST IN PLACE	HP	HIGH POINT	RTU	ROOF TOP UNIT
C.J.	CONSTRUCTION OR CONTROL JOINT	HSS	= TS (HOLLOW STRUCTURAL SECTION)	SC	STEEL COLUMN
				SCB	SPECIAL CONCENTRIC BRACED
CJP	COMPLETE JOINT PENETRATION	IBC	INTERNATIONAL BUILDING CODE	SCHED	SCHEDULE
CLR	CLEAR	ID	INSIDE DIAMETER	SHTHG	SHEATHING
CMU	CONCRETE MASONRY UNIT	IE	INVERT ELEVATION	SIM	SIMILAR
		IF	INSIDE FACE	SMF	SPECIAL MOMENT FRAME
COL	COLUMN	INT	INTERIOR	SOG	SLAB ON GRADE
CONC	CONCRETE	k	KIPS	SPEC	SPECIFICATION
CONN	CONNECTION	KSF	KIPS PER SQUARE FOOT	SQ	SQUARE
CONST	CONSTRUCTION	L	LINTEL	SR	STUDRAIL
CONT	CONTINUOUS	LF	LINEAL FOOT	SF	SQUARE FOOT
CP	CONCRETE PEDESTAL	LL	LIVE LOAD	SST	STAINLESS STEEL
C'SINK	COUNTERSINK	LLH	LONG LEG HORIZONTAL	STAGG	STAGGER / STAGGERED
CTRD	CENTERED DIAMETER	LLV	LONG LEG VERTICAL	STD	STANDARD
CFS	COLD FORMED STEEL	LP	LOW POINT	STIFF	STIFFENER
∅	DIAMETER	LONGIT	LONGITUDINAL	STL	STEEL
DB	DROP BEAM	LSL	LAMINATED STRAND LUMBER	STRUCT	STRUCTURAL
DBA	DEFORMED BAR ANCHOR	LVL	LAMINATED VENEER LUMBER	SWWJ	SOLID WEB WOOD JOIST
				SYM	SYMMETRICAL
DBL	DOUBLE			T	TOP
DEMO	DEMOLISH	MAS	MASONRY	T/	TOP OF
DEV	DEVELOPMENT	MAX	MAXIMUM	T&B	TOP & BOTTOM
DF	DOUGLAS FIR	MECH	MECHANICAL	TC AX LD	TOP CHORD AXIAL LOAD
DIAG	DIAGONAL	MEZZ	MEZZANINE	TCX	TOP CHORD EXTENSION
DIST	DISTRIBUTED	MFR	MANUFACTURER	TDS	TIE DOWN SYSTEM
DL	DEAD LOAD	MIN	MINIMUM	T&G	TONGUE & GROOVE
DN	DOWN	MISC	MISCELLANEOUS	THKND	THICKENED
DO	DITTO	MSW	MASONRY SHEAR WALL	THRD	THREADED
DP	DEPTH/DEEP	MW	MASONRY WALL	THRU	THROUGH
DWG	DRAWING	NIC	NOT IN CONTRACT	TRANSV	TRANSVERSE
(E)	EXISTING	NTS	NOT TO SCALE	TYP	TYPICAL
EA	EACH	OC	ON CENTER	UBC	UNIFORM BUILDING CODE
EF	EACH FACE	OCB	ORDINARY CONCENTRIC BRACED	UNO	UNLESS NOTED OTHERWISE
EL	ELEVATION				
ELEC	ELECTRICAL	OD	OUTSIDE DIAMETER	URM	UNREINFORCED MASONRY UNIT
ELEV	ELEVATOR	OF	OUTSIDE FACE		
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
EXT	EXTERIOR			WP	WORKING POINT
F	FOOTING	PC	PRECAST	WWF	WELDED WIRE FABRIC
				±	PLUS OR MINUS

SYMBOL SCHEDULE



STRUCTURAL SHEET INDEX

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HOFFMAN ESTATES PARK DISTRICT
650 W HIGGINS ROAD
HOFFMAN ESTATES, IL 60169

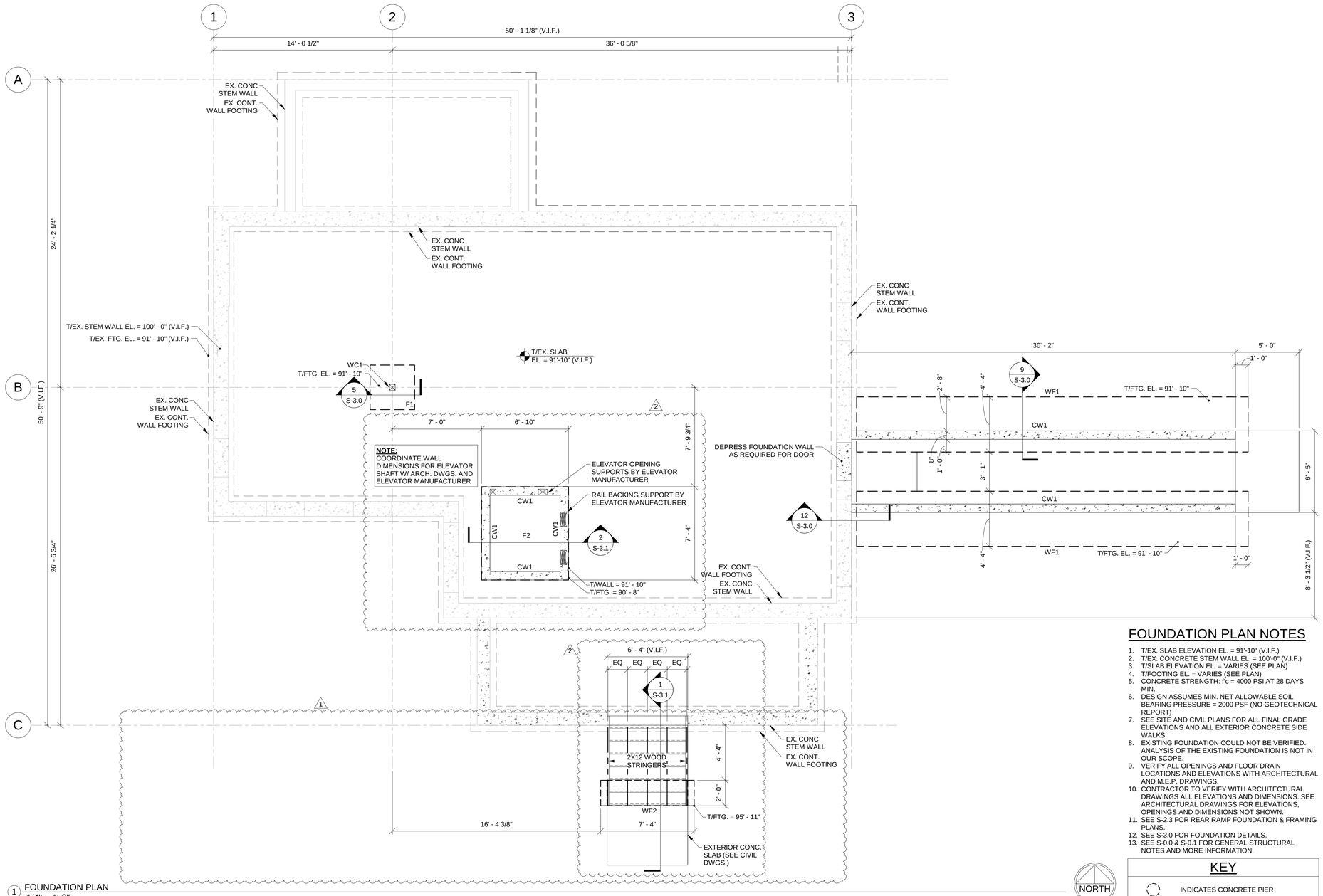
VOGELEI HOUSE REMODEL

ISSUE

TO	DATE
PERMIT	7/21/21
PERMIT 1	8/6/21
ADDENDUM 2	8/27/21

CHECK:SMD
DRAWN:DWK
JOB:D2100051

S-0.1
STRUCTURAL NOTES



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

NORTH

FOUNDATION PLAN NOTES

1. T/EX. SLAB ELEVATION EL. = 91'-10" (V.I.F.)
2. T/EX. CONCRETE STEM WALL EL. = 100'-0" (V.I.F.)
3. T/SLAB ELEVATION EL. = VARIES (SEE PLAN)
4. T/FOOTING EL. = VARIES (SEE PLAN)
5. CONCRETE STRENGTH: f'c = 4000 PSI AT 28 DAYS MIN.
6. DESIGN ASSUMES MIN. NET ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF (NO GEOTECHNICAL REPORT)
7. SEE SITE AND CIVIL PLANS FOR ALL FINAL GRADE ELEVATIONS AND ALL EXTERIOR CONCRETE SIDE WALKS.
8. EXISTING FOUNDATION COULD NOT BE VERIFIED. ANALYSIS OF THE EXISTING FOUNDATION IS NOT IN OUR SCOPE.
9. VERIFY ALL OPENINGS AND FLOOR DRAIN LOCATIONS AND ELEVATIONS WITH ARCHITECTURAL AND M.E.P. DRAWINGS.
10. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS ALL ELEVATIONS AND DIMENSIONS. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS, OPENINGS AND DIMENSIONS NOT SHOWN.
11. SEE S-2.3 FOR REAR RAMP FOUNDATION & FRAMING PLANS.
12. SEE S-3.0 FOR FOUNDATION DETAILS.
13. SEE S-0.0 & S-0.1 FOR GENERAL STRUCTURAL NOTES AND MORE INFORMATION.

FOOTING SCHEDULE

MIN. NET ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF

MK.	LENGTH	WIDTH	THICKNESS	REINFORCEMENT TRANSVERSE	REINFORCEMENT LONGITUDINAL
F1	3' - 6"	3' - 6"	12"	(4) #5	(4) #5
F2	7' - 4"	6' - 10"	12"	(8) #5 T&B	(7) #5 T&B

CONCRETE WALL SCHEDULE

CONCRETE STRENGTH: f'c = 4000 PSI, REBAR: Fy = 60,000 PSI

MK.	WALL THICKNESS	WALL REINFORCEMENT HORIZONTAL	WALL REINFORCEMENT VERTICAL
CW1	8"	#5 @ 12" O.C. (CENTERED)	#5 @ 12" O.C. (CENTERED)

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

MIN. NET ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF

MK.	FOOTING WIDTH	FOOTING THICKNESS	STEM WALL THICKNESS	STEM WALL REINFORCEMENT CONTINUOUS	STEM WALL REINFORCEMENT VERTICAL	FOOTING REINFORCEMENT CONTINUOUS	FOOTING REINFORCEMENT TRANSVERSE
WF1	4' - 4"	12"	8"	#5 @ 12" O.C.	#5 @ 12" O.C.	(6) #5 T&B	#5 @ 12" O.C. T&B
WF2	2' - 0"	12"	- -	- -	- -	(3) #5 T&B	#5 @ 12" O.C.

COLUMN SCHEDULE

COLUMN MARK	WC1	COLUMN MARK
T/2ND FLOOR	110' - 2 1/2"	T/2ND FLOOR
110' - 2 1/2"	6X6 WOOD POST	110' - 2 1/2"
T/SLAB		T/SLAB
100' - 0"		100' - 0"
T/BASEMENT SLAB		T/BASEMENT SLAB
91' - 10"	91' - 10"	91' - 10"
COLUMN BASE	CB1	COLUMN BASE
COLUMN LOCATIONS	B-2	COLUMN LOCATIONS

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	UNLESS NOTED OTHERWISE
CONC.	CONCRETE
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
SIM.	SIMILAR
S	CONCRETE SLAB ON GRADE
WC	WOOD COLUMN
CB	COLUMN BASE
EX.	EXISTING

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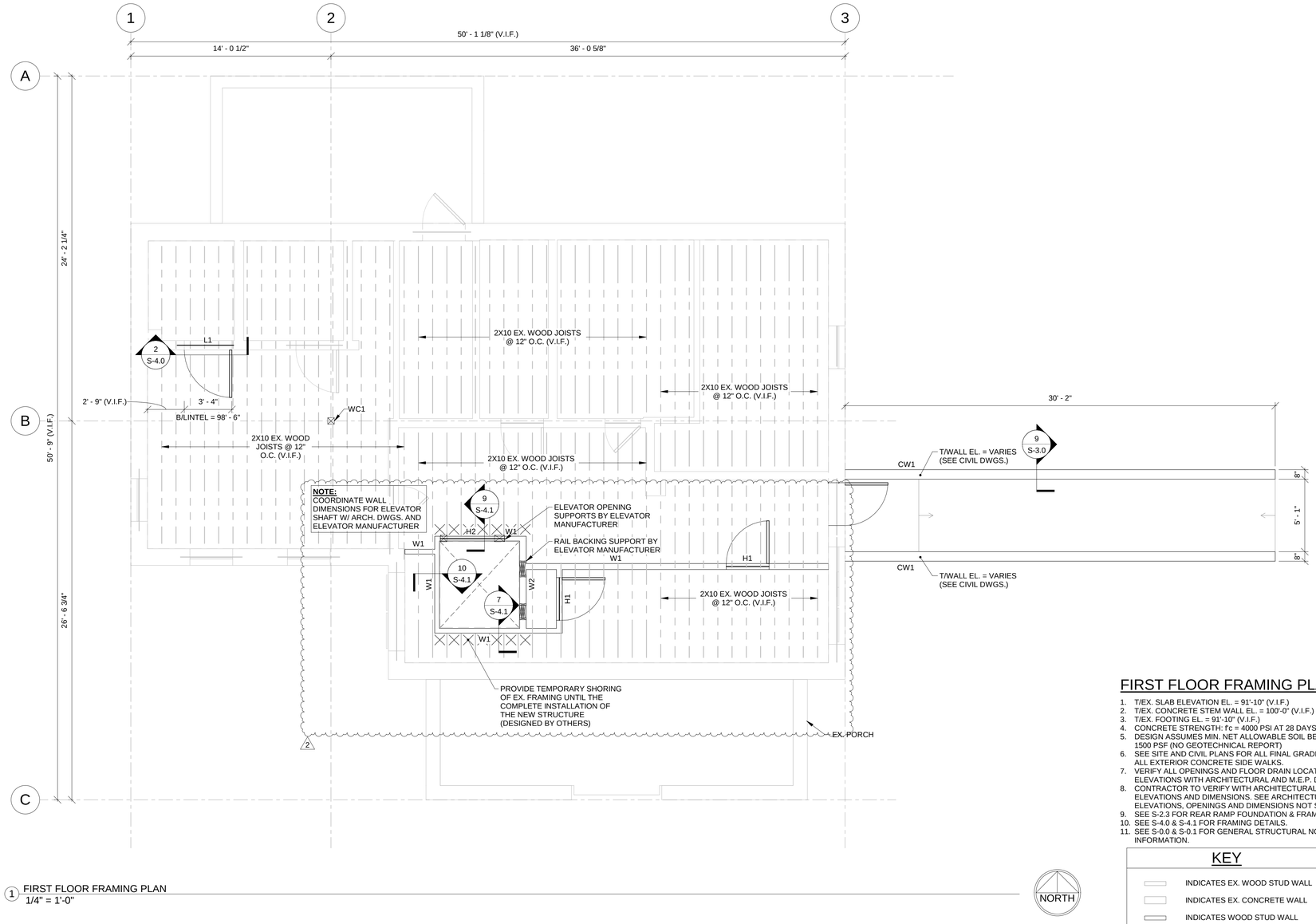
S-1.0
FOUNDATION PLAN



1 FIRST FLOOR FRAMING PLAN
1/4" = 1'-0"

NORTH

FIRST FLOOR FRAMING PLAN NOTES

1. T/EX. SLAB ELEVATION EL. = 91'-10" (V.I.F.)
2. T/EX. CONCRETE STEM WALL EL. = 100'-0" (V.I.F.)
3. T/EX. FOOTING EL. = 91'-10" (V.I.F.)
4. CONCRETE STRENGTH: f'c = 4000 PSI AT 28 DAYS MIN.
5. DESIGN ASSUMES MIN. NET ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF (NO GEOTECHNICAL REPORT)
6. SEE SITE AND CIVIL PLANS FOR ALL FINAL GRADE ELEVATIONS AND ALL EXTERIOR CONCRETE SIDE WALKS.
7. VERIFY ALL OPENINGS AND FLOOR DRAIN LOCATIONS AND ELEVATIONS WITH ARCHITECTURAL AND M.E.P. DRAWINGS.
8. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS ALL ELEVATIONS AND DIMENSIONS. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS, OPENINGS AND DIMENSIONS NOT SHOWN.
9. SEE S-2.3 FOR REAR RAMP FOUNDATION & FRAMING PLANS.
10. SEE S-4.0 & S-4.1 FOR FRAMING DETAILS.
11. SEE S-0.0 & S-0.1 FOR GENERAL STRUCTURAL NOTES AND MORE INFORMATION.

HEADER SCHEDULE

MK.	SIZE AND MATERIAL	LENGTH	SUPPORTS: FULL HEIGHT KING STUD	SUPPORTS: JACK STUD	SECTION
H1	FLAT 2X4	3' - 0"	(1) 2X4	(1) 2X4	
H2	(2) 2X10	4' - 6"	(2) 2X4	(2) 2X4	W W

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"	

WOOD WALL SCHEDULE

MK.	SIZE AND MATERIAL	SILL PLATE	SILL PLATE ANCHORAGE	TOP PLATE	REMARKS
W1	2X4 @ 16" O.C.	PRESSURE-TREATED CONT. 2X4	SIMPSON THD50400H ACREW ANCHORS @ 32" O.C.	CONT. DOUBLE 2X4	SEE ARCH. DWGS. FOR WALL FINISH
W2	2X6 @ 16" O.C.	PRESSURE-TREATED CONT. 2X6	SIMPSON THD50400H ACREW ANCHORS @ 32" O.C.	CONT. DOUBLE 2X6	SEE ARCH. DWGS. FOR WALL FINISH

COLUMN SCHEDULE

COLUMN MARK	WC1	COLUMN MARK
T/2ND FLOOR	110' - 2 1/2"	T/2ND FLOOR
110' - 2 1/2"	6X6 WOOD POST	110' - 2 1/2"
T/SLAB		T/SLAB
100' - 0"		100' - 0"
T/BASEMENT SLAB		T/BASEMENT SLAB
91' - 10"	91' - 10"	91' - 10"
COLUMN BASE	CB1	COLUMN BASE
COLUMN LOCATIONS	B-2	COLUMN LOCATIONS

KEY

- INDICATES EX. WOOD STUD WALL
- INDICATES EX. CONCRETE WALL
- INDICATES WOOD STUD WALL
- INDICATES EX. WALL FOOTING
- INDICATES EX. WOOD JOIST
- INDICATES EX. WOOD HEADER
- INDICATES WOOD HEADER
- INDICATES WOOD COLUMN
- INDICATES STEEL LINTEL
- INDICATES EX. STEEL LINTEL

ABBREVIATIONS

EL.	ELEVATION
T/	TOP OF
B/	BOTTOM OF
EA.	EACH
TYP.	TYPICAL
WC	WOOD COLUMN
MK.	MARK
W/	WITH
EX.	EXISTING
W	WOOD STUD WALL
H	HEADER
L	LINTEL

BEAM ANNOTATIONS

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

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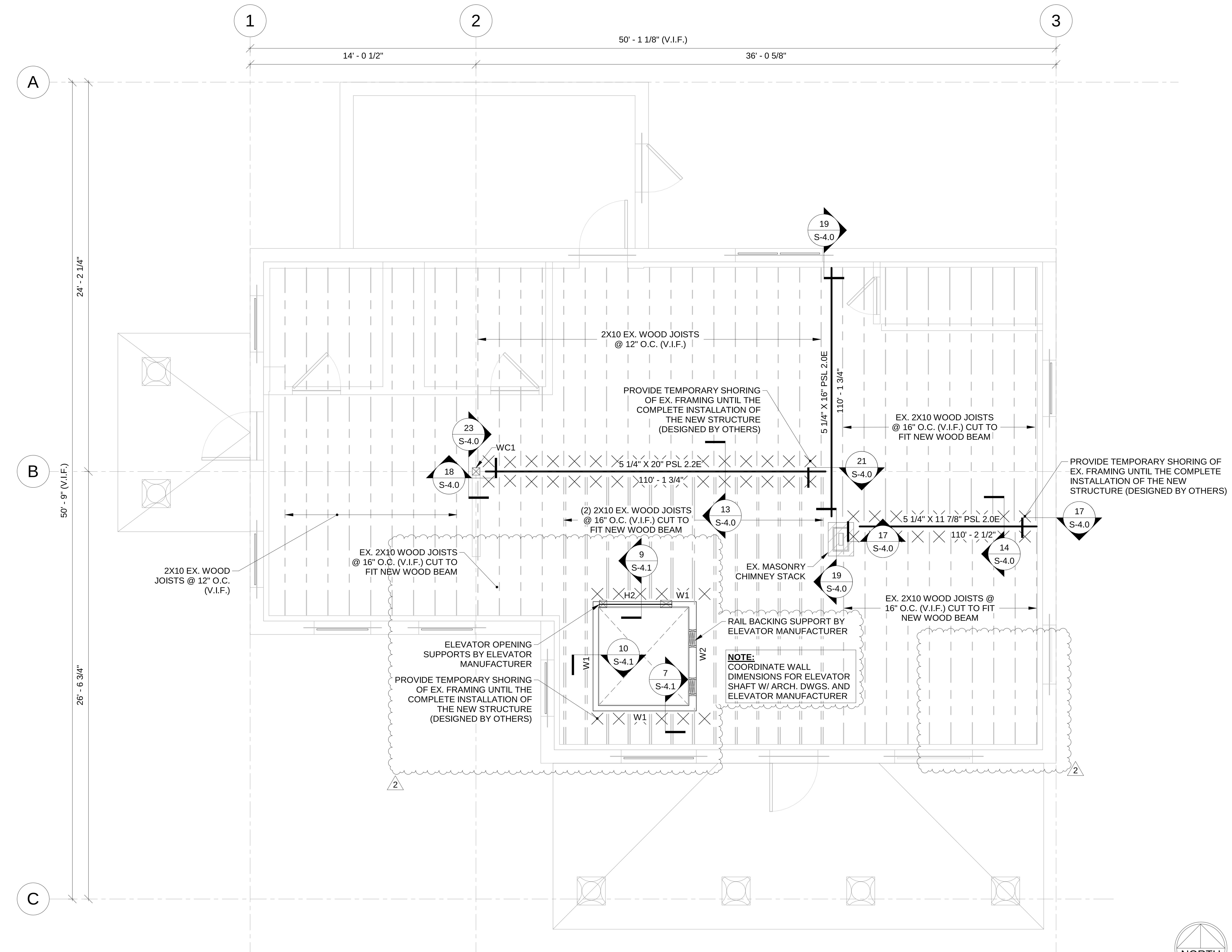
S-2.0
FIRST FLOOR FRAMING PLAN



1 SECOND FLOOR FRAMING PLAN
1/4" = 1'-0"

SECOND FLOOR FRAMING PLAN NOTES

1. T/SECOND FLOOR EL. = 110' - 2 1/2"
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. NO INFORMATION WAS PROVIDED ON THE EXISTING BRICK CHIMNEY STACK. ANALYSIS OF THE CHIMNEY STACK IS NOT IN OUR SCOPE.
5. ALL EXISTING STRUCTURE IS ASSUMED STRUCTURALLY ADEQAUTE FOR PROPOSED OCCUPANCY. THE EXISTING STRUCTURE HAS BEEN USED FOR PUBLIC USE / AN OFFICE.
6. 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.
7. VERIFY ALL MECHANICAL OPENINGS WITH M.E.P. DRAWINGS.
8. THE CONTRACTOR SHALL REPLACE ANY ITEMS DAMAGED DURING CONSTRUCTION.
9. SEE S-2.3 FOR REAR RAMP FOUNDATION & FRAMING PLANS.
10. SEE S-4.0 & S-4.1 FOR FRAMING DETAILS.
11. SEE S-0.0 & S-0.1 FOR GENERAL STRUCTURAL NOTES AND MORE INFORMATION.

KEY

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

ABBREVIATIONS

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

BEAM ANNOTATIONS

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

COLUMN SCHEDULE

COLUMN MARK	WC1	COLUMN MARK
T/2ND FLOOR	110' - 2 1/2"	T/2ND FLOOR
110' - 2 1/2" T/SLAB	6X6 WOOD POST	110' - 2 1/2" T/SLAB
100' - 0" T/BASEMENT SLAB		100' - 0" T/BASEMENT SLAB
91' - 10"	91' - 10"	91' - 10"
COLUMN BASE	CB1	COLUMN BASE
COLUMN LOCATIONS	B-2	COLUMN LOCATIONS

HEADER SCHEDULE

MK.	SIZE AND MATERIAL	LENGTH	SUPPORTS		SECTION
			FULL HEIGHT KING STUD	JACK STUD	
H1	FLAT 2X4	3' - 0"	(1) 2X4	(1) 2X4	
H2	(2) 2X10	4' - 6"	(2) 2X4	(2) 2X4	

WOOD WALL SCHEDULE

MK.	SIZE AND MATERIAL	SILL PLATE	SILL PLATE ANCHORAGE	TOP PLATE	REMARKS
W1	2X4 @ 16" O.C.	PRESSURE-TREATED CONT. 2X4	SIMPSON THD50400H ACREW ANCHORS @ 32" O.C.	CONT. DOUBLE 2X4	SEE ARCH. DWGS. FOR WALL FINISH
W2	2X6 @ 16" O.C.	PRESSURE-TREATED CONT. 2X6	SIMPSON THD50400H ACREW ANCHORS @ 32" O.C.	CONT. DOUBLE 2X6	SEE ARCH. DWGS. FOR WALL FINISH

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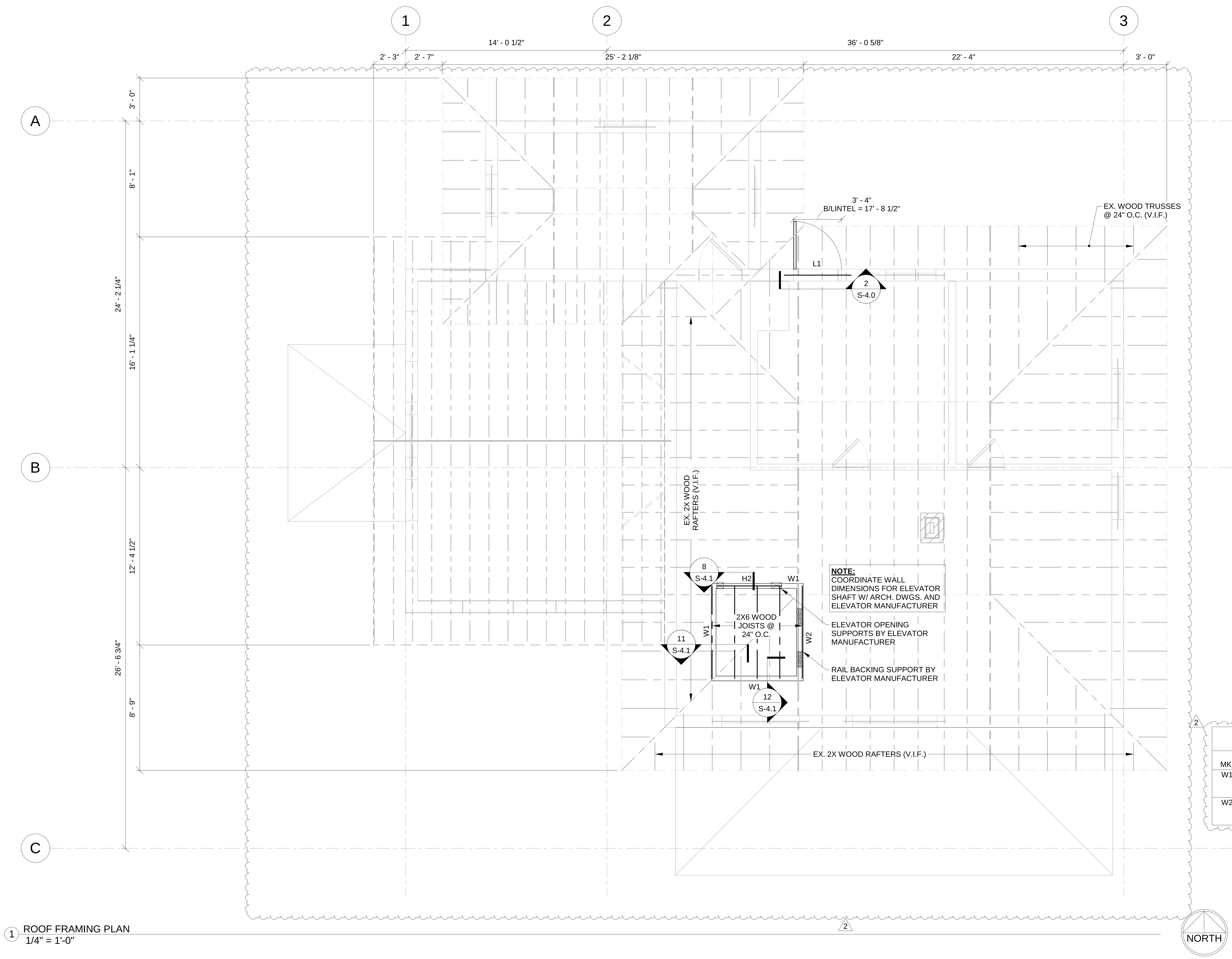
S-2.1
SECOND FLOOR FRAMING PLAN



1 ROOF FRAMING PLAN
1/4" = 1'-0"

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"	

HEADER SCHEDULE

MK.	SIZE AND MATERIAL	LENGTH	SUPPORTS		SECTION
			FULL HEIGHT KING STUD	JACK STUD	
H1	FLAT 2X4	3' - 0"	(1) 2X4	(1) 2X4	
H2	(2) 2X10	4' - 6"	(2) 2X4	(2) 2X4	

2

WOOD WALL SCHEDULE

MK.	SIZE AND MATERIAL	SILL PLATE	SILL PLATE ANCHORAGE	TOP PLATE	REMARKS
W1	2X4 @ 16" O.C.	PRESSURE-TREATED CONT. 2X4	SIMPSON THD50400H ACREW ANCHORS @ 32" O.C.	CONT. DOUBLE 2X4	SEE ARCH. DWGS. FOR WALL FINISH
W2	2X6 @ 16" O.C.	PRESSURE-TREATED CONT. 2X6	SIMPSON THD50400H ACREW ANCHORS @ 32" O.C.	CONT. DOUBLE 2X6	SEE ARCH. DWGS. FOR WALL FINISH

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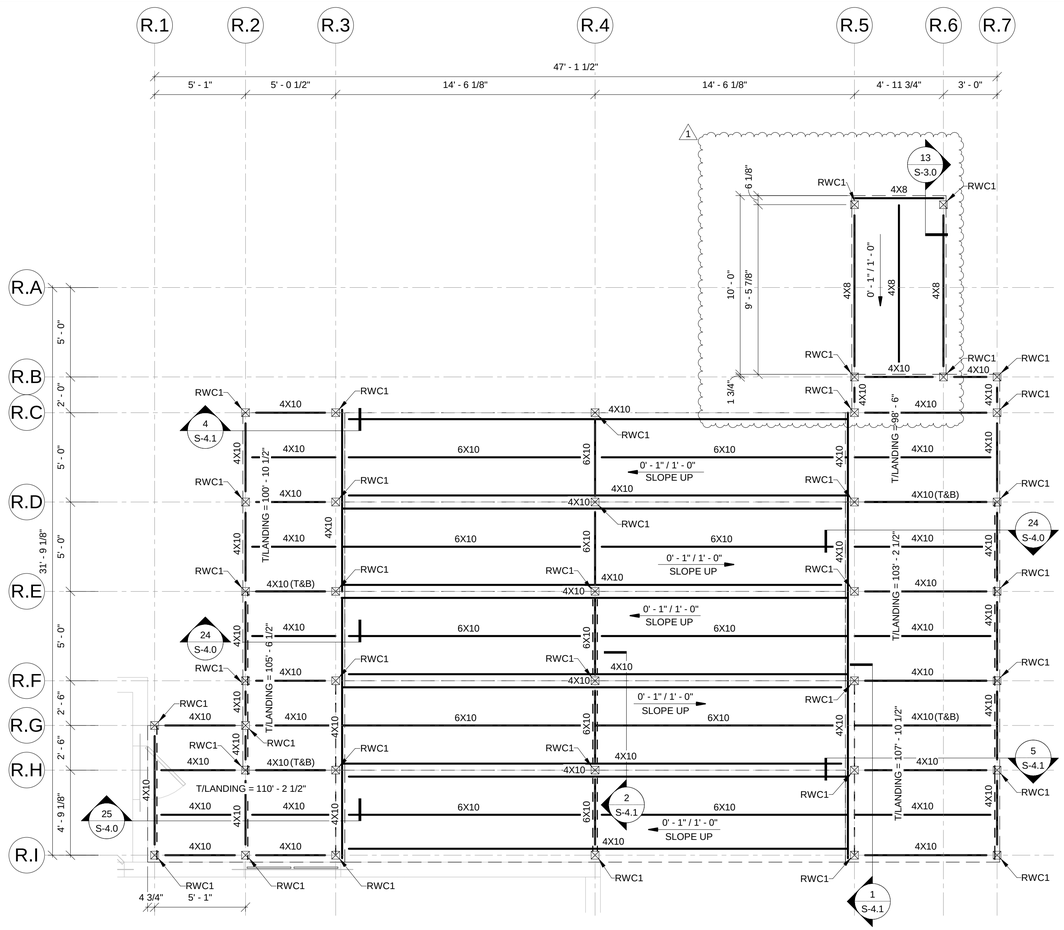
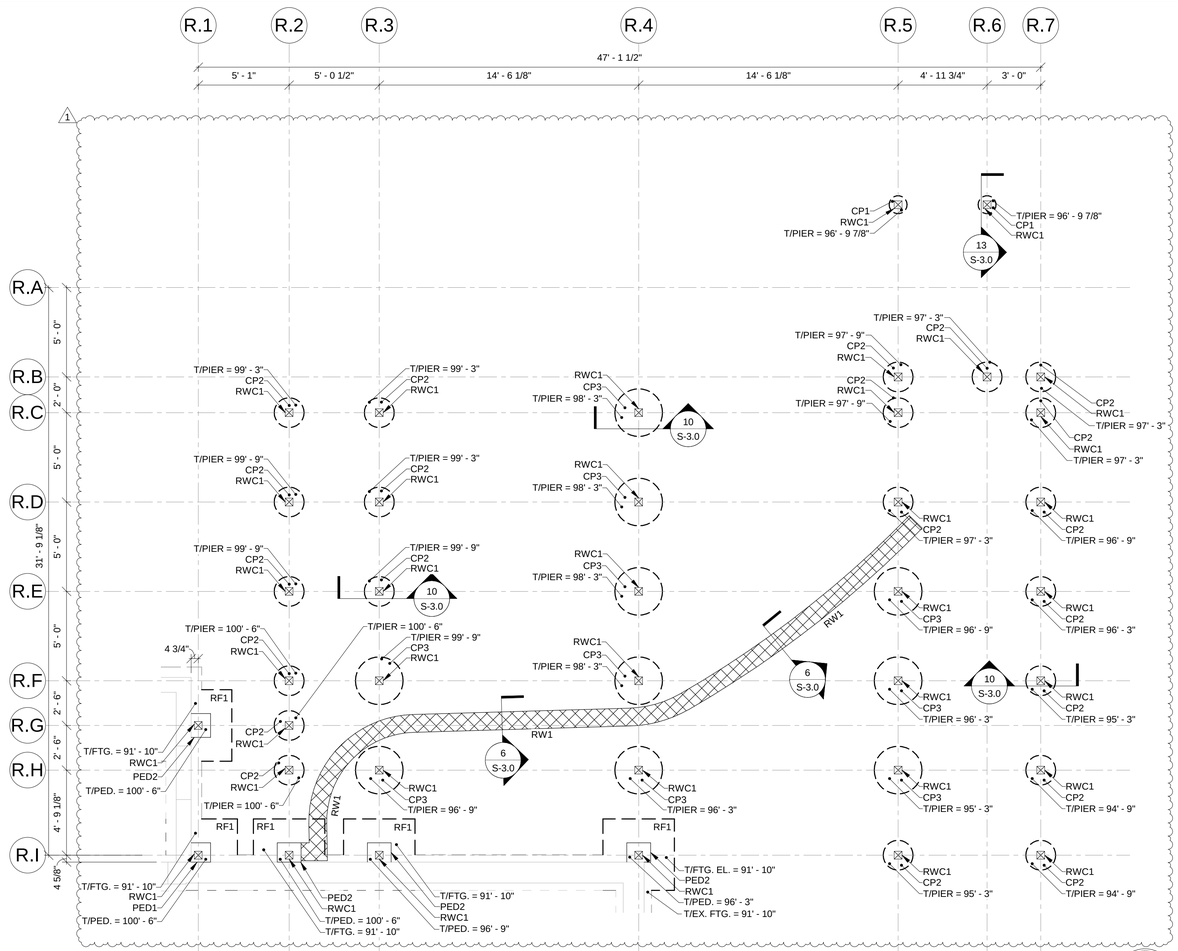
S-2.2
ROOF FRAMING PLAN



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



1 NORTH RAMP FOUNDATION 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

	INDICATES EX. WOOD STUD WALL
— —	INDICATES WOOD BRACING
———	INDICATES WOOD BEAM
———	INDICATES WOOD HEADER
⊠	INDICATES WOOD COLUMN

ABBREVIATIONS

EL.	ELEVATION
T/	TOP OF
B/	BOTTOM OF
EA.	EACH
TYP.	TYPICAL
RWC	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" XX'-XX" — BEAM ELEVATION (H.P. & L.P.)

RETAINING WALL SCHEDULE

MK.	TYPE	REINFORCEMENT TYPE	EMBEDMENT DEPTH
RW1	AB CLASSIC BLOCK	0" BLOCK AND NO-FINES CONCRETE TOTAL DEPTH	12" MIN

CONCRETE PEDESTAL SCHEDULE

CONCRETE STRENGTH: f'c = 4000 PSI, REBAR: Fy = 60,000 PSI

MK.	DIMENSIONS	TIES	VERTICAL BARS
PED1	13" X 13"	(3) #5 BARS AT TOP, REMAINING @ 10" O.C.	(4) #5
PED2	13" X 16"	(3) #5 BARS AT TOP, REMAINING @ 10" O.C.	(4) #5

RAMP SUPPORT COLUMN SCHEDULE

MK.	COLUMN TYPE	COLUMN BASE
RWC1	5 1/4" X 5 1/4" PSL 1.8E	SIMPSON MPB66Z

RAMP SUPPORT FOOTING SCHEDULE

MIN. NET ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF

MK.	LENGTH	WIDTH	THICKNESS	REINFORCEMENT TRANSVERSE	REINFORCEMENT LONGITUDINAL
RF1	4' - 0"	4' - 0"	12"	(5) #5	(5) #5

CONCRETE PIER SCHEDULE

MIN. NET ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF

MK.	OUTSIDE DIAMETER	VERTICAL	HORIZONTAL TIES	DEPTH BELOW GRADE
CP1	12"	(3) #4	(3) #3 BARS AT TOP, REMAINING @ 10" O.C.	3' - 6"
CP2	20"	(8) #4	(3) #3 BARS AT TOP, REMAINING @ 10" O.C.	3' - 6"
CP3	32"	(13) #5	(3) #4 BARS AT TOP, REMAINING @ 10" O.C.	4' - 6"

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 = 2000 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

	INDICATES CONCRETE PIER
	INDICATES FOOTING
	INDICATES EX. FOUNDATION
	INDICATES EX. CONCRETE STEM WALL
	INDICATES RETAINING WALL
1	INDICATES SLAB EDGE
⊠	INDICATES WOOD COLUMN

ABBREVIATIONS

U.N.O	UNLESS NOTED OTHERWISE
CONC.	CONCRETE
WF	CONTINUOUS WALL FOOTING
EL.	ELEVATION
THK.	THICK
T/	TOP OF
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
RW	RETAINING WALL

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JEFFERY S. GUTOWSKY
081-005647
STATE OF ILLINOIS
SIGNED: 8/27/2021
EXP.: 11/30/2022

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

HOFFMAN ESTATES PARK DISTRICT
650 W HIGGINS ROAD
HOFFMAN ESTATES, IL 60169

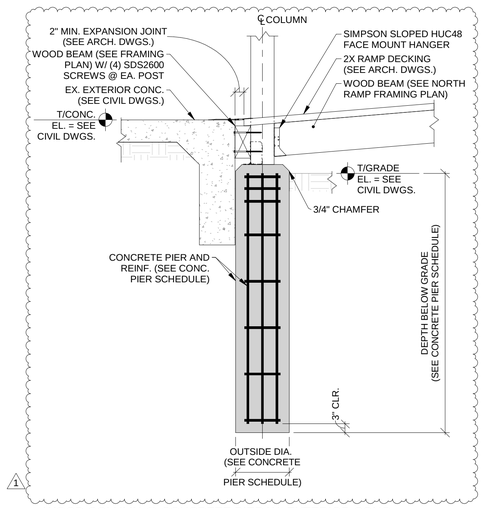
VOGELEI HOUSE REMODEL

ISSUE

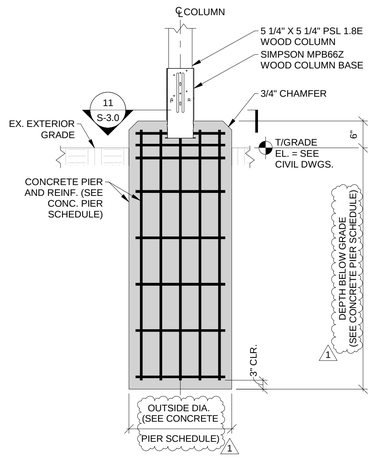
TO	DATE
PERMIT	7/21/21
PERMIT 1	8/6/21
ADDENDUM 2	8/27/21

CHECK:SMD
DRAWN:DWK
JOB:D2100051

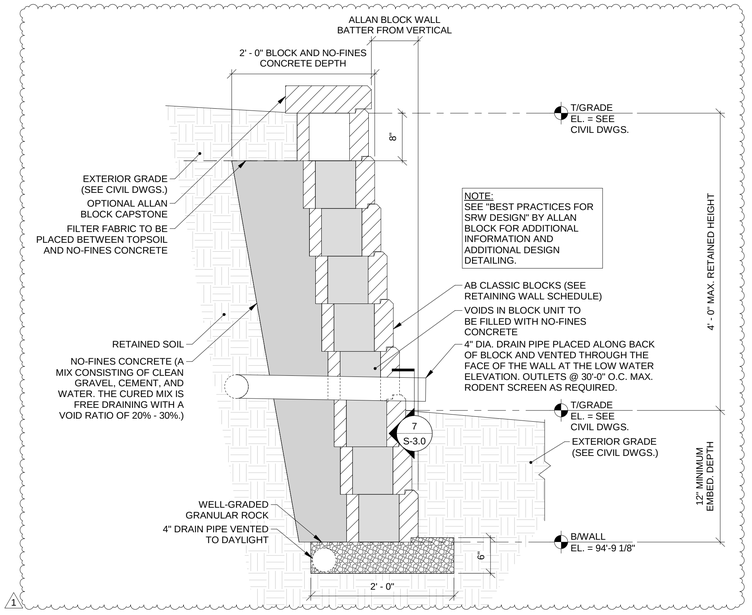
S-2.3
NORTH RAMP FOUNDATION & FRAMING PLANS



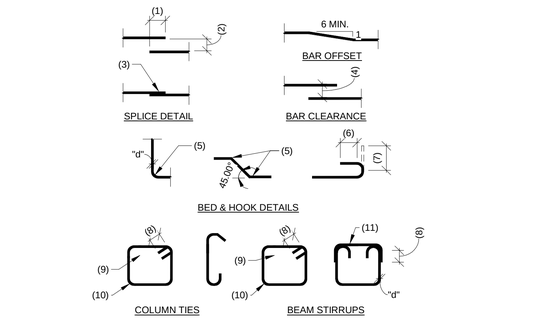
13 WOOD COLUMN @ CONCRETE PIER W/ EXTERIOR CONC.
3/4" = 1'-0"



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



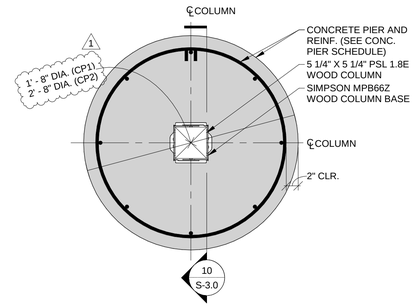
6 AB RETAINING WALL DETAIL
1" = 1'-0"



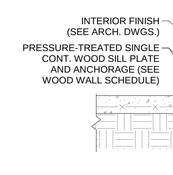
NOTES:

1. LAP - SEE G.S.N.
2. MAXIMUM 1/5 LAP BUT NOT MORE THAN 6"
3. WIRE TIES.
4. 1d (1" MINIMUM).
5. 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.
6. 4d (4" MINIMUM).
7. 12d (90 DEGREE HOOK).
8. 6d (4" MINIMUM).
9. 135 DEGREE BEND.
10. 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.
11. ADDED STIRRUPS WHERE MORE THAN 2 TOP BEAM BARS OCCUR

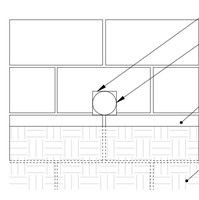
1 TYP. CONCRETE REINFORCING BAR DETAILS
3/4" = 1'-0"



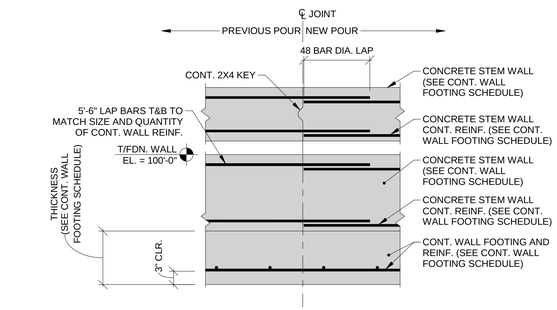
11 WOOD COLUMN @ CONCRETE PIER PLAN
1" = 1'-0"



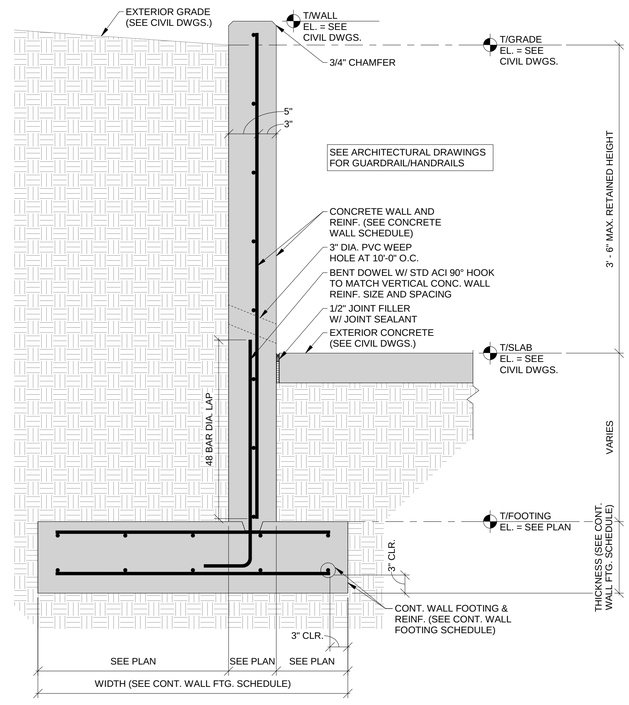
8 NEW WOOD STUD WALL ON EX. CONCRETE SLAB
3/4" = 1'-0"



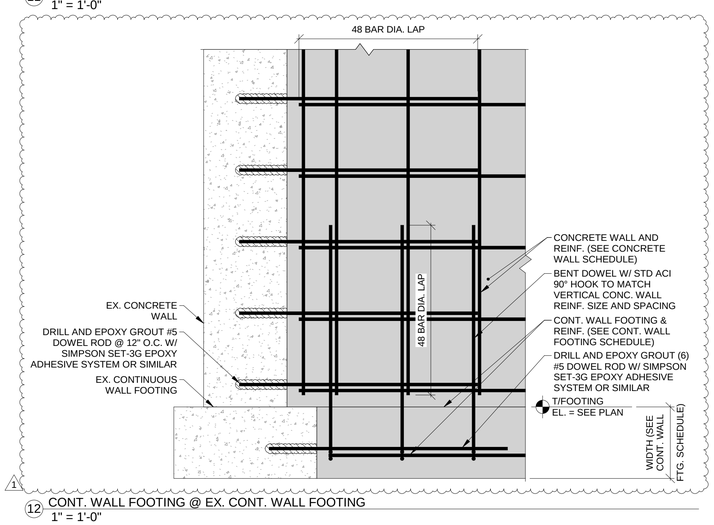
7 DRAIN PIPE DETAIL
1" = 1'-0"



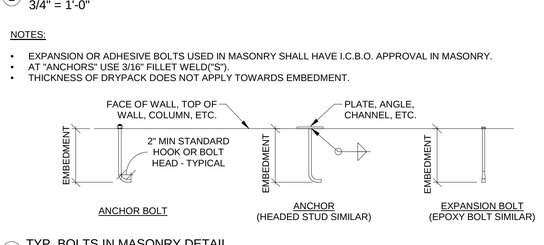
2 TYP. FOUNDATION WALL CONSTRUCTION JOINT
3/4" = 1'-0"



9 CONT. WALL FOOTING @ CONCRETE RETAINING WALL
1" = 1'-0"

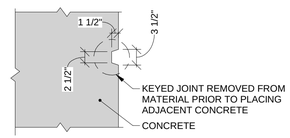


12 CONT. WALL FOOTING @ EX. CONT. WALL FOOTING
1" = 1'-0"

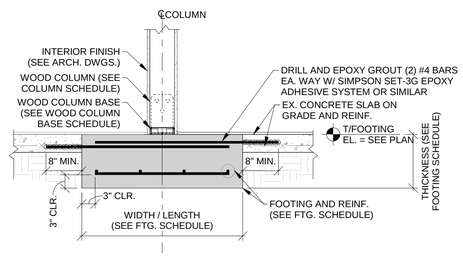


- EXPANSION OR ADHESIVE BOLTS USED IN MASONRY SHALL HAVE I.C.B.O. APPROVAL IN MASONRY.
- AT "ANCHORS" USE 3/16" FILLET WELD("S").
- THICKNESS OF DRYPACK DOES NOT APPLY TOWARDS EMBEDMENT.

3 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"

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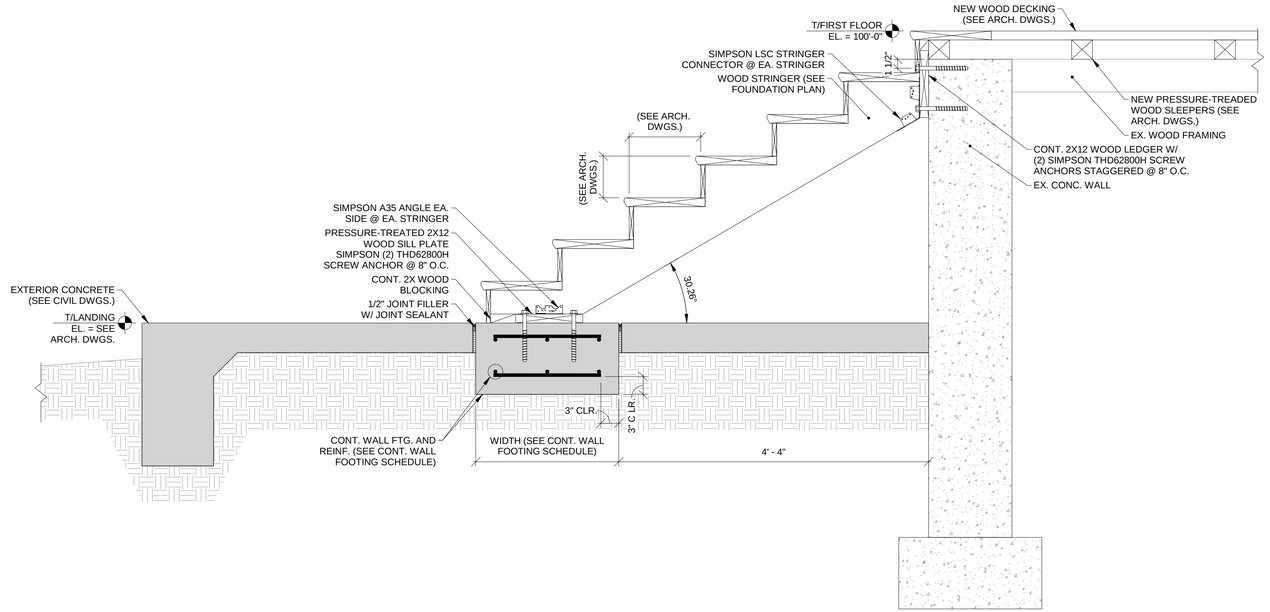
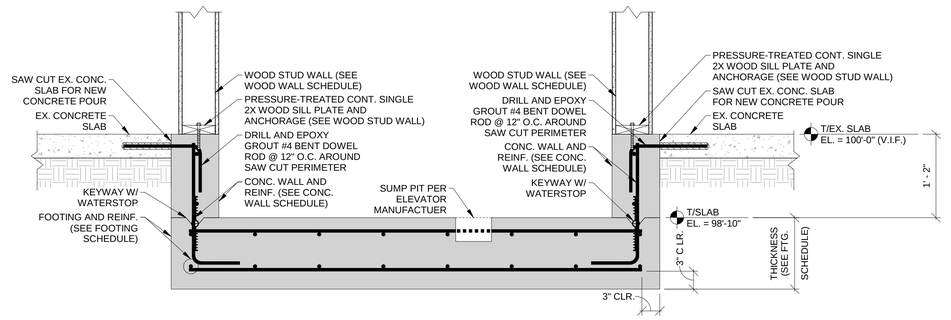
S-3.0
FOUNDATION DETAILS



1 NEW STAIRS DETAIL
1" = 1'-0"



2 CONT. WALL FTG @ ELEVATOR
1" = 1'-0"

2

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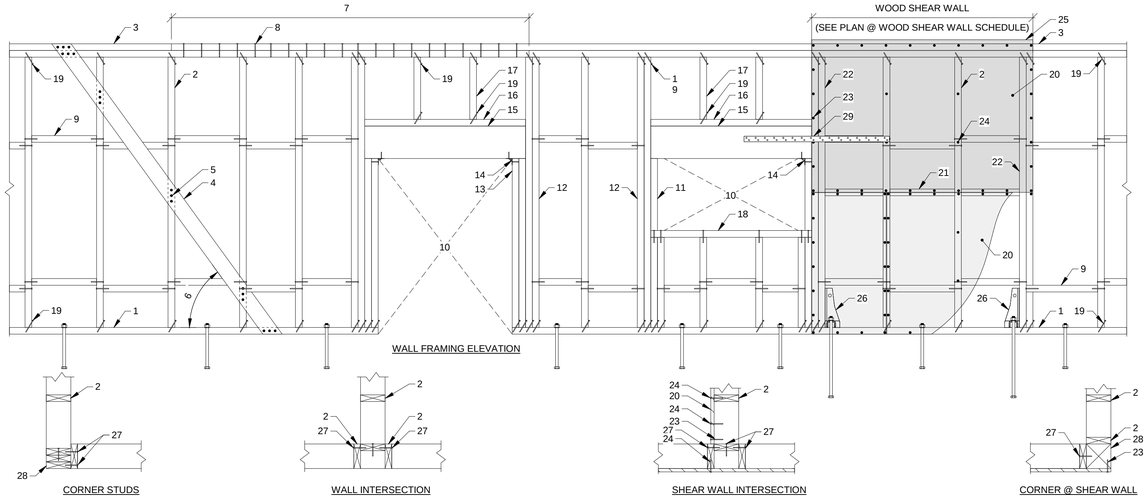
2
S-3.1
FOUNDATION DETAILS

GENERAL NOTES:

1. 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)
2. 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)
3. CONT. DOUBLE 2X WOOD TOP PLATE (SEE WOOD WALL OR WOOD SHEAR WALL SCHEDULE), NAILED TOGETHER W/ 16d @ 16" O.C. (U.N.O.)
4. 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.
5. NAIL BRACE TO PLATES, STUDS, & BLOCKING W/ (3) 8d @ EA. BR'G.
6. MIN. 45, MAX 60; BRACE TO COVER MIN. (3) STUD SPACES.
7. TOP PLATE SPLICES TO OCCUR DIRECTLY ABOVE STUD OR POST & SHALL LAP MIN. 6'-0"
8. (2) 10d NAILS @ 4" O.C.
9. 2X BLOCKING AS REQUIRED PER U.B.C.
10. OPENING WHERE OCCURS (SEE ARCH. DWGS.)
11. 2X TRIMMER W/ 16d @ 12" O.C. STAGGERED TO KING STUD EA. SIDE OF OPENING (U.N.O.)
12. FULL HEIGHT (2) 2X KING STUDS EA. SIDE (SEE HEADER SCHEDULE)
13. (2) 2X JACK STUDS EA. SIDE (SEE HEADER SCHEDULE)
14. SIMPSON A35 ANGLE EA. SIDE (U.N.O.)
15. HEADER (SEE HEADER SCHEDULE)
16. CONT. 2X WOOD SILL PLATE W/ 16d NAILS @ 12" O.C. (NAILS SHALL BE @ 3" O.C. WHEN OPENING OCCURS @ WOOD SHEAR WALL)
17. 2X WOOD CRIPPLE STUDS @ 16" O.C. (U.N.O.)
18. CONT. 2X WOOD WINDOW SILL (U.N.O.)
19. TOE NAILING
20. PLYWOOD SHEAR PANEL (SEE WOOD WALL OR WOOD SHEAR WALL SCHEDULE)
21. TYP. BRIDGING @ PANEL EDGES
22. SHEAR WALL END POSTS (SEE WOOD SHEAR WALL SCHEDULE)
23. EDGE NAILING (SEE WOOD WALL OR WOOD SHEAR WALL SCHEDULE)
24. INTERMEDIATE NAILING (SEE WOOD WALL OR WOOD SHEAR WALL SCHEDULE)
25. EXTEND PLYWOOD ABOVE TOP PLATE IF INDICATED ON PLAN OR DETAILS.
26. HOLD-DOWN OR POST ANCHOR (SEE HOLD-DOWN SCHEDULE)
27. NAIL CORNER & MULTIPLE STUDS TOGETHER W/ 16d @ 12" O.C. STAGGERED.
28. CORNER STUDS OR POST PER PLAN
29. SIMPSON CS16 STRAP TO CONNECT HEADER AND FIRST STUD THAT IS NOT A JACK OR KING STUD



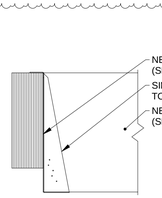
WALL FRAMING ELEVATION

CORNER STUDS

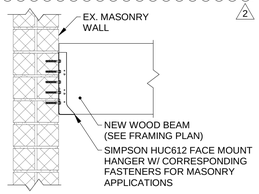
WALL INTERSECTION

SHEAR WALL INTERSECTION

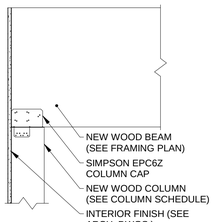
CORNER @ SHEAR WALL

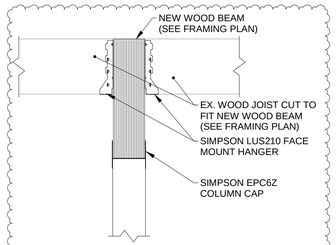


21 PSL TO PSL BEAM CONN.
1" = 1'-0"

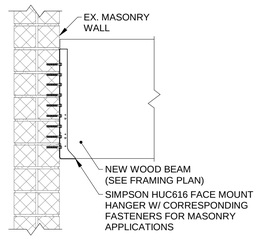


17 NEW PSL WOOD BEAM TO EX. WALL
1" = 1'-0"

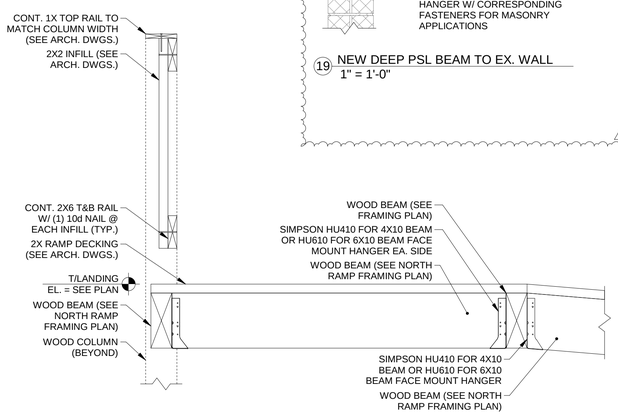




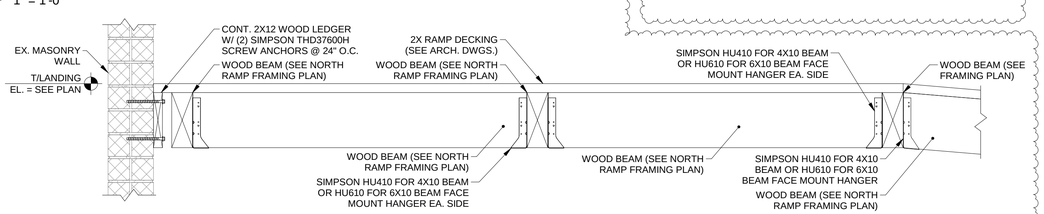
23 BEAM OVER COLUMN CONNECTION
1" = 1'-0"



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

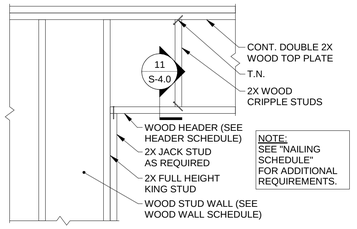


24 WOOD BEAM TO WOOD BEAM @ RAMP LANDING
1" = 1'-0"

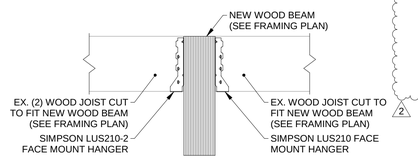


25 DECK LANDING @ EX. MASONRY WALL
1" = 1'-0"

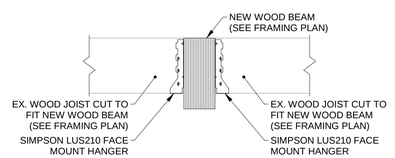
1 TYP. WOOD STUD WALL FRAMING
3/4" = 1'-0"



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

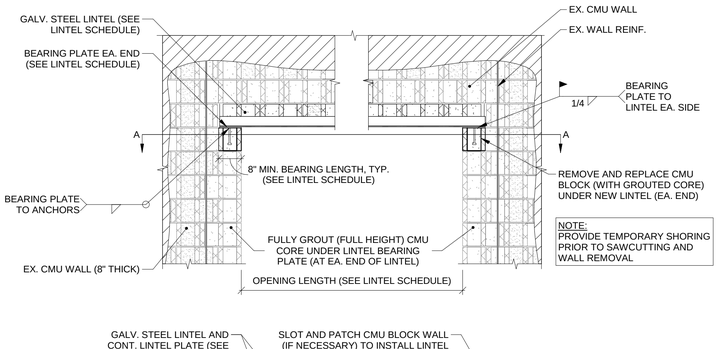


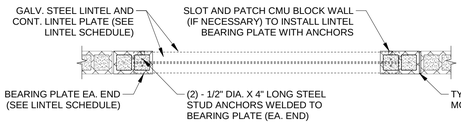
13 EX. JOISTS TO NEW PSL BEAM
1" = 1'-0"



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

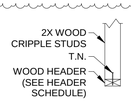
11 HEADER SECTION
3/4" = 1'-0"



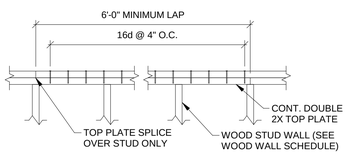


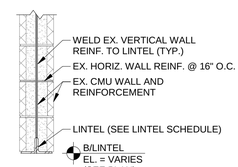
SECTION A - A

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

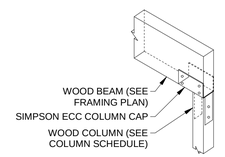


6 TYP. SPLICE OF TOP PLATES
3/4" = 1'-0"





3 TYP. DOUBLE ANGLE LINTEL SECTION
3/4" = 1'-0"



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

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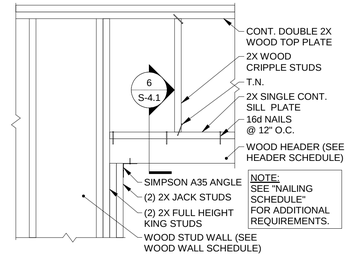
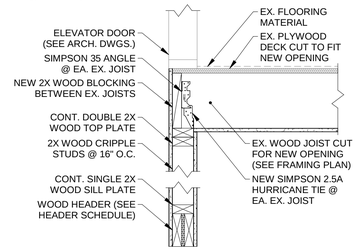
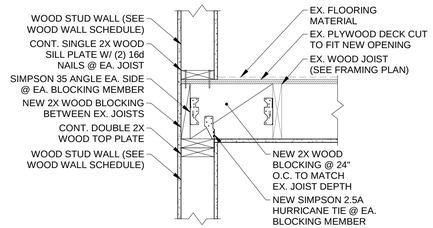
FRAMING DETAILS



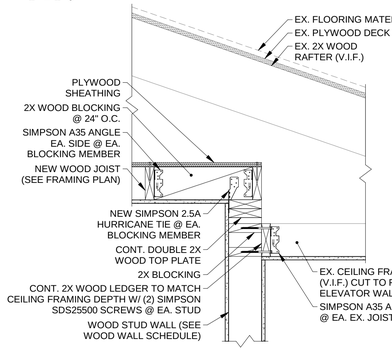
8 TYP. WOOD HEADER
3/4" = 1'-0"



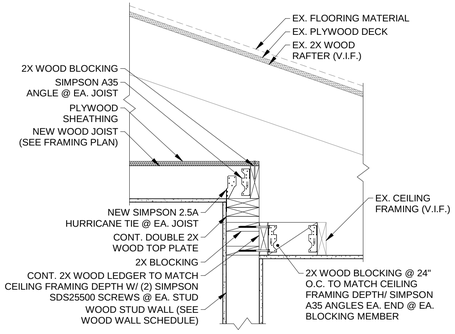
9 EX. WOOD JOIST @ NEW WOOD HEADER
1" = 1'-0"



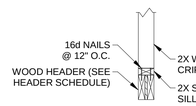
10 EX. WOOD JOIST PARALLEL TO NEW WOOD STUD WALL
1" = 1'-0"



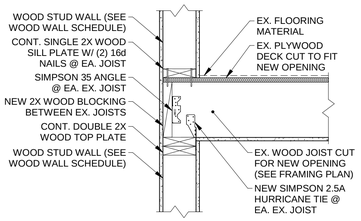
11 EX. CEILING JOISTS TO NEW WOOD STUD WALL
1" = 1'-0"



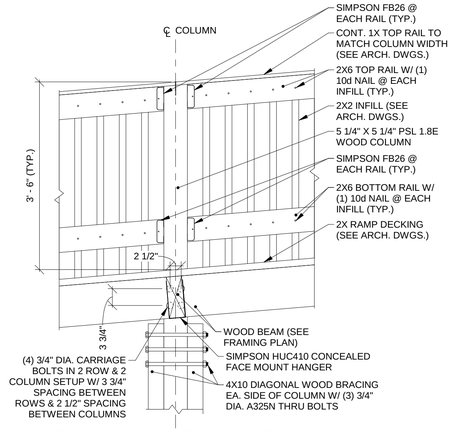
12 EX. CEILING JOISTS PARALLEL TO NEW WOOD STUD WALL
1" = 1'-0"



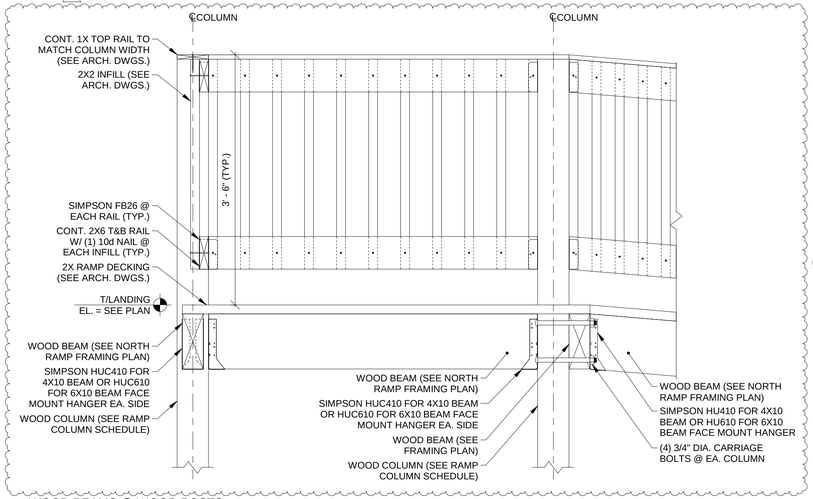
6 TYP. WOOD HEADER SECTION
3/4" = 1'-0"



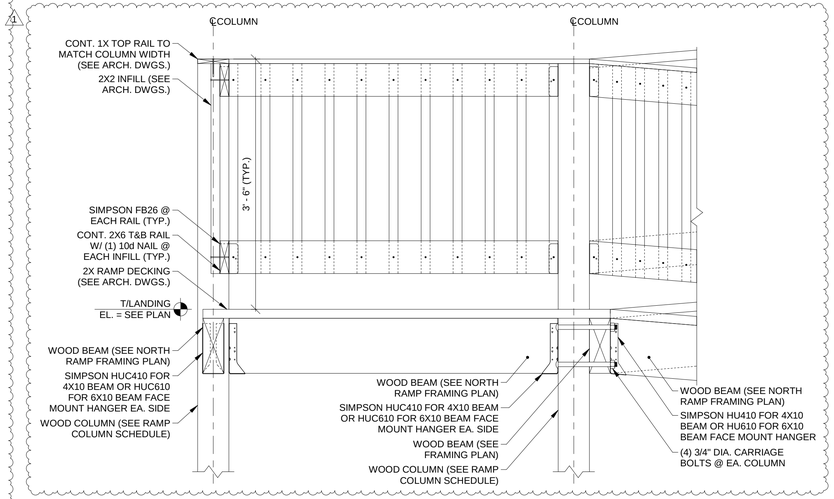
7 EX. WOOD JOIST @ NEW WOOD STUD WALL
1" = 1'-0"



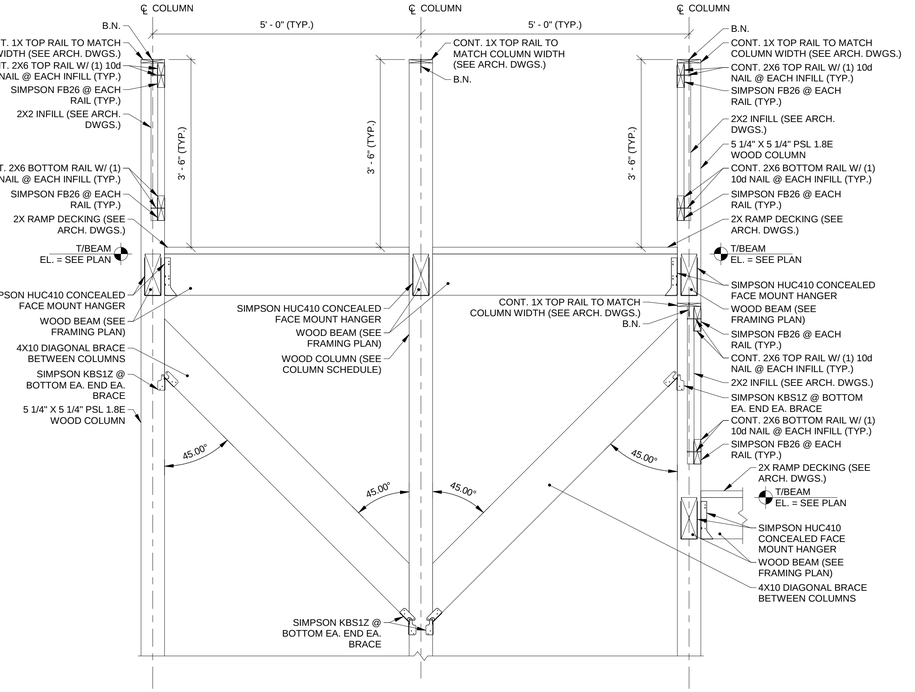
3 BEAM TO COLUMN @ HIGH RAMP ELEVATION
3/4" = 1'-0"



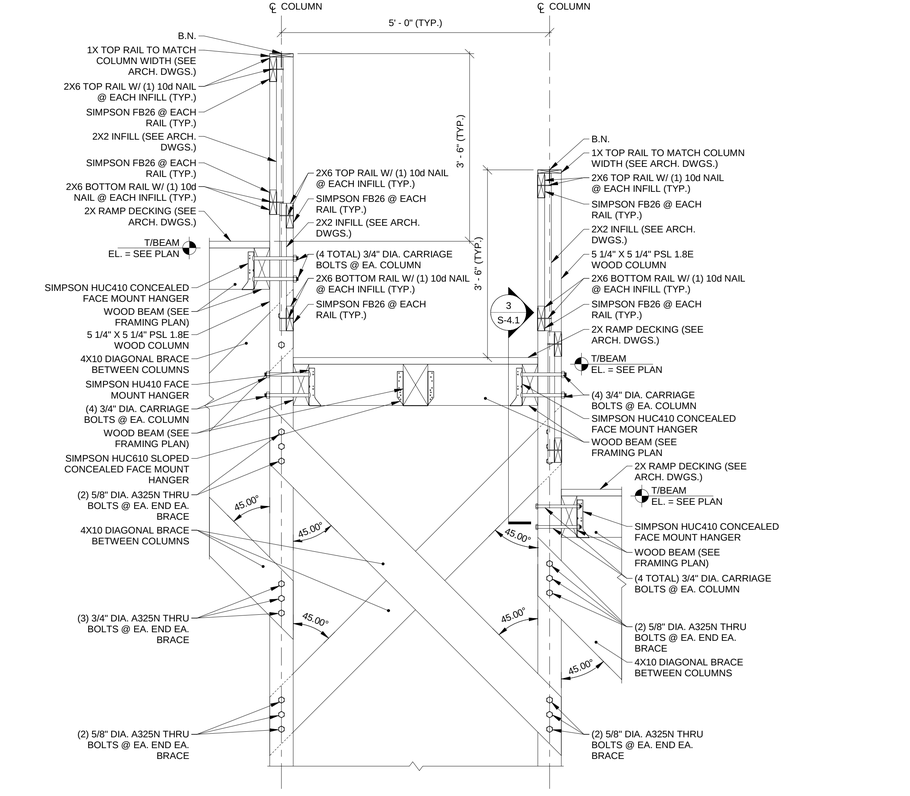
4 WOOD BEAMS @ WOOD POSTS
1" = 1'-0"



5 WOOD BEAMS AT WOOD POSTS
1" = 1'-0"



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



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

WT GROUP
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WT Group
Engineering • Design • Consulting

LICENSED STRUCTURAL ENGINEER
JEFFERY S. GUTOWSKY
081-005647
STATE OF ILLINOIS
SIGNED: 8/27/2021
EXP.: 11/30/2022

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

HOFFMAN ESTATES PARK DISTRICT
650 W HIGGINS ROAD
HOFFMAN ESTATES, IL 60169

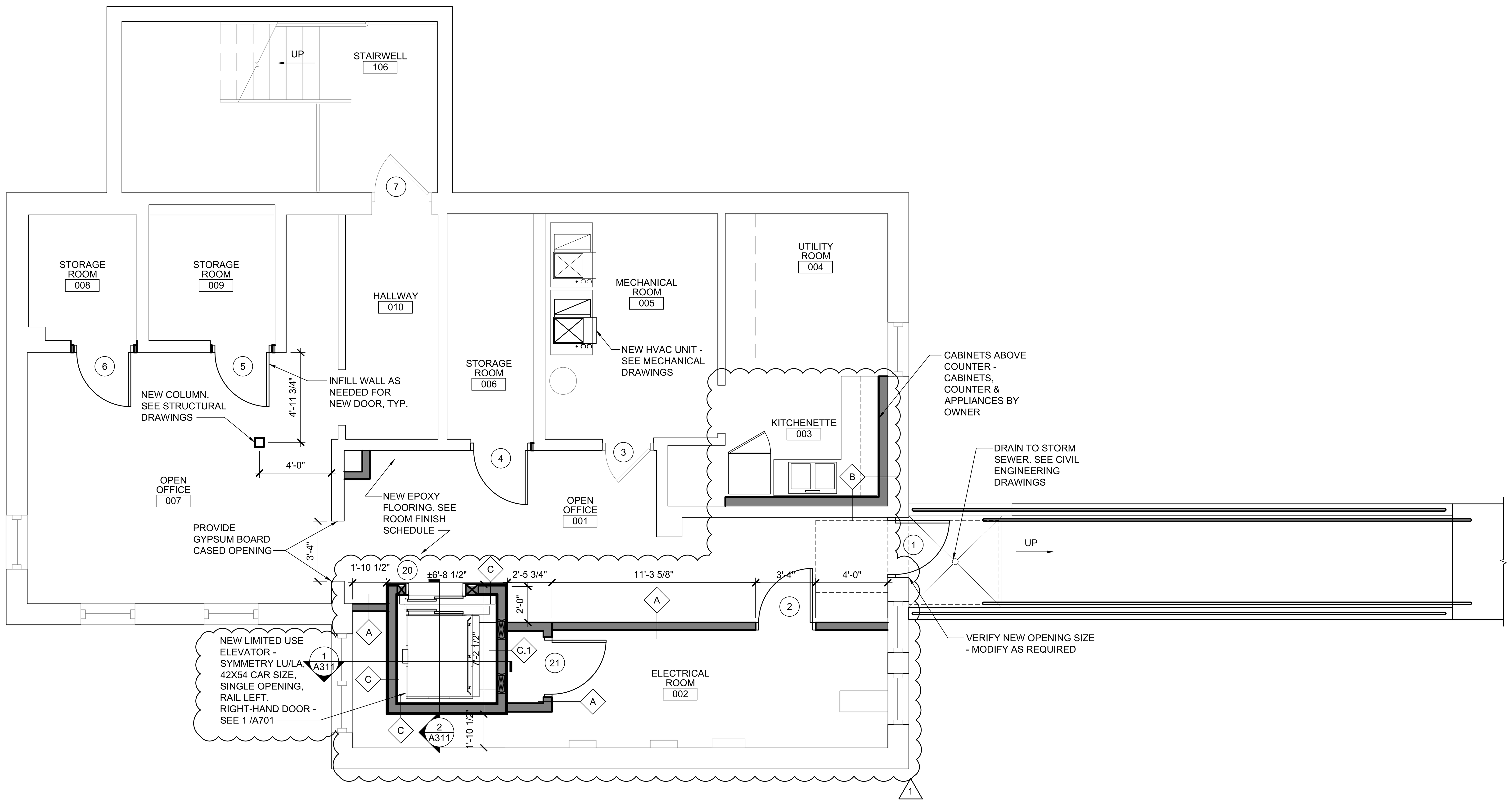
VOGELEI HOUSE REMODEL

ISSUE

TO	DATE
PERMIT	7/21/21
PERMIT 1	8/6/21
ADDENDUM 2	8/27/21

CHECK:SMD
DRAWN:DWK
JOB:D2100051

S-4.1
FRAMING DETAILS



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

N

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 & ACCESSIBILTY 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" FIRECODE GYPSUM BOARD EACH SIDE, TO BOTTOM OF FLOOR ABOVE.

1

B — 2X6 WOOD STUD WALL AGAINST EXISTING MASONRY WALL, 5/8" WATER RESISTANT GYPSUM BOARD FROM FLOOR TO BOTTOM OF FLOOR ABOVE.

C — 1 HOUR SHAFT WALL (BASED ON UL DESIGN U309 & U499) 2X6 WOOD STUDS AT 16" O.C. WITH 1" SHAFT LINER ON ONE SIDE AND (2) 5/8" FIRE RESISTANT GYPSUM BOARD ON OTHER SIDE.

C1 — SIMILAR TO C BUT WITH 3/4" PLYWOOD BEHIND GYPSUM BOARD.

1

ARCHITECTS
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
OFFICE: 312.505.1392

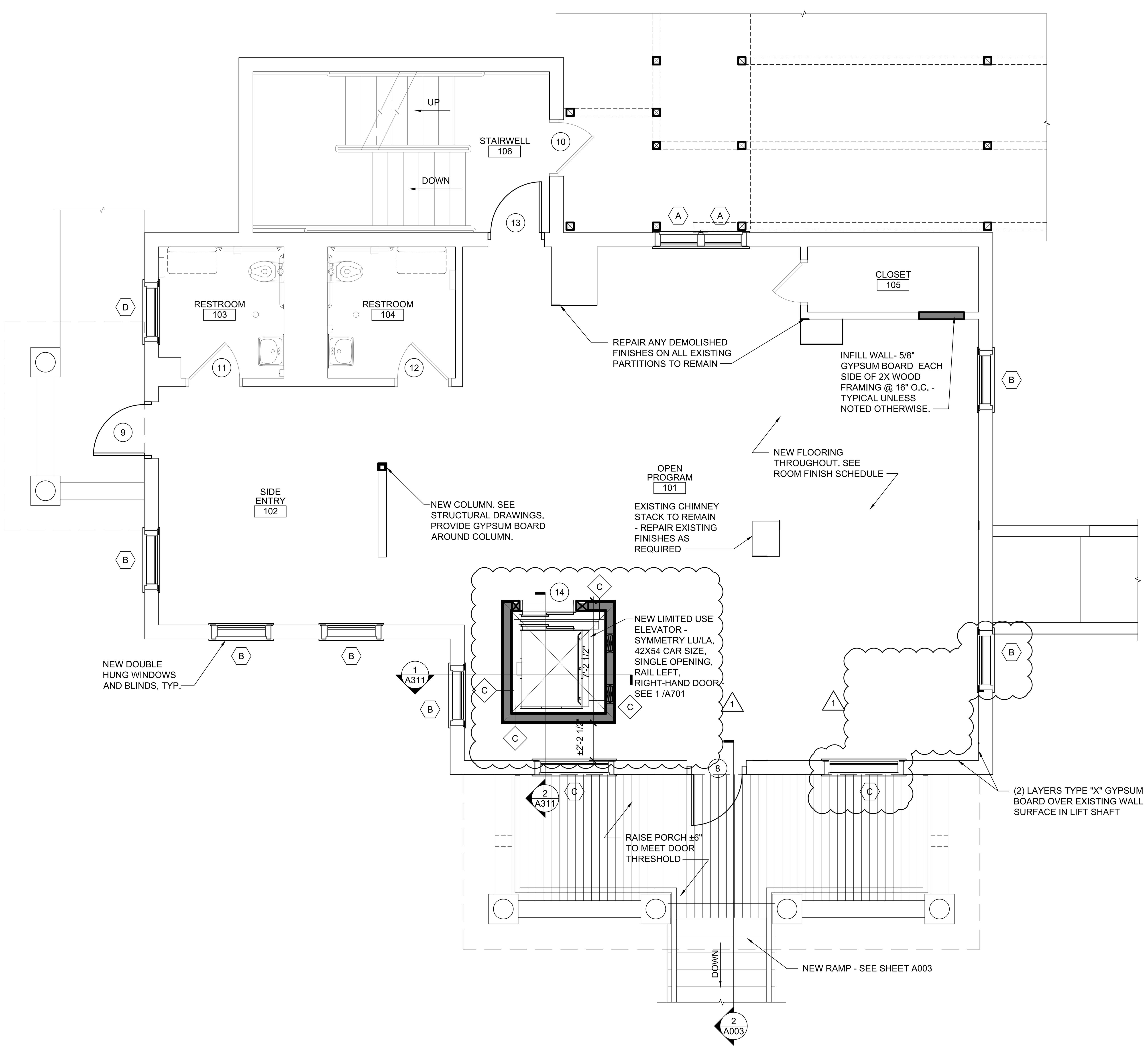
Signed: Expires: November 30, 2020

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

project no.	D2100051
date:	07.21.2021
revision 1:	08.27.2021
revision 2:	
revision 3:	
revision 4:	
checked:	CW
drawn:	JB

sheet title:
BASEMENT FLOOR PLAN

sheet number:
A101



1 FIRST 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 OWNER 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 & ACCESSIBILTY 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.

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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" FIRECODE GYPSUM BOARD EACH SIDE, TO BOTTOM OF FLOOR ABOVE.

1

B 2X6 WOOD STUD WALL AGAINST EXISTING MASONRY WALL, 5/8" WATER RESISTANT GYPSUM BOARD FROM FLOOR TO BOTTOM OF FLOOR ABOVE.

C 1 HOUR SHAFT WALL (BASED ON UL DESIGN U309 & U499) 2X6 WOOD STUDS AT 16" O.C. WITH 1" SHAFT LINER ON ONE SIDE AND (2) 5/8" FIRE RESISTANT GYPSUM BOARD ON OTHER SIDE.

1

API ARCHITECTS
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HOFFMAN ESTATES, IL 60192
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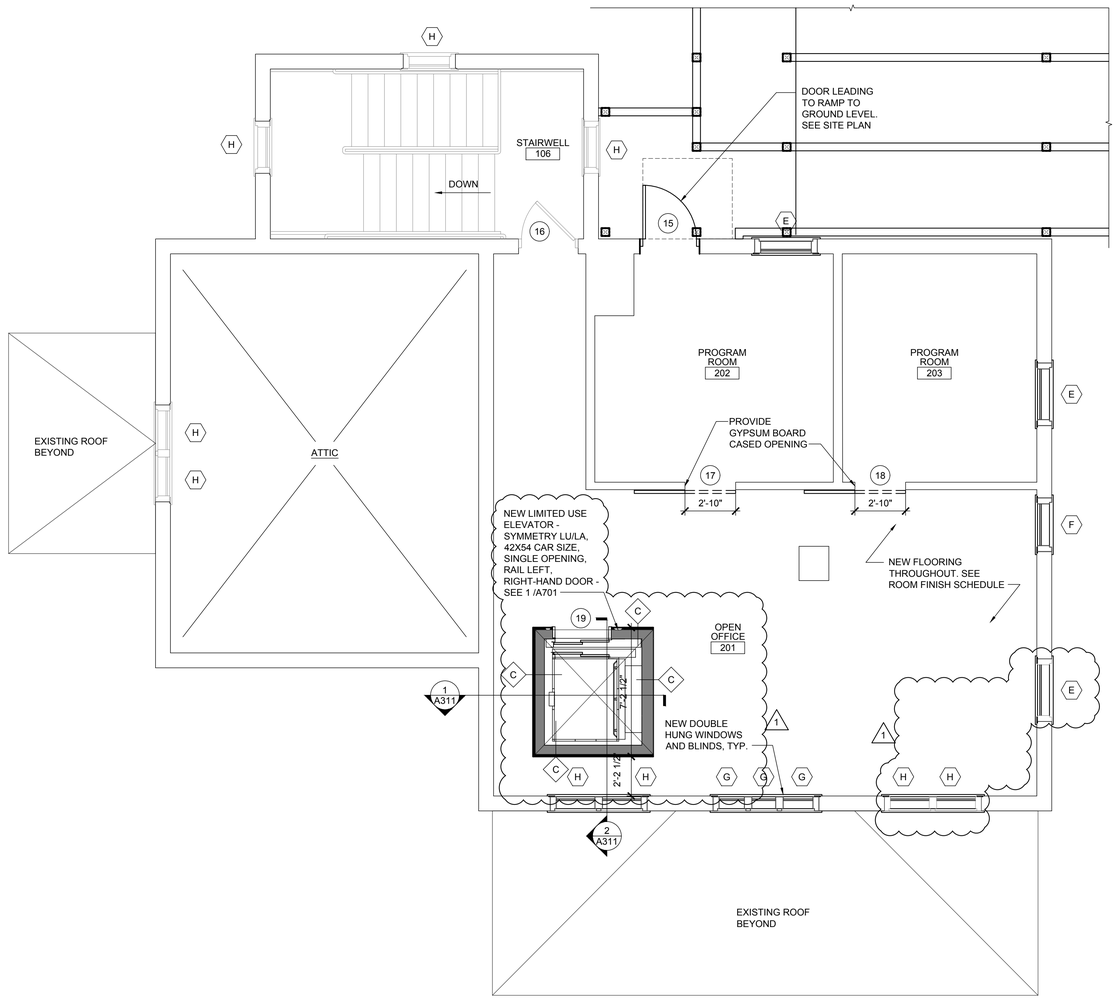
Signed: Expires: November 30, 2020

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

project no.	D2100051
date:	07.21.2021
revision 1:	08.27.2021
revision 2:	
revision 3:	
revision 4:	
checked:	CW
drawn:	JB

sheet title: FIRST FLOOR PLAN

sheet number: A102



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

N

FLOOR PLAN GENERAL NOTES

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

B. ALL WORK TO BE DONE IN ACCORDANCE WITH ALL GOVERNING STATE AND LOCAL CODES, ORDINANCES, AND AMENDMENTS.

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E. MOUNT ALL FIXTURES & ACCESSORIES AT HEIGHTS CONFORMING WITH ALL GOVERNING CODES & ACCESSIBILTY 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.

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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" FIRECODE GYPSUM BOARD EACH SIDE, TO BOTTOM OF FLOOR ABOVE.

1 B — 2X6 WOOD STUD WALL AGAINST EXISTING MASONRY WALL, 5/8" WATER RESISTANT GYPSUM BOARD FROM FLOOR TO BOTTOM OF FLOOR ABOVE.

C — 1 HOUR SHAFT WALL (BASED ON UL DESIGN U309 & U499) 2X6 WOOD STUDS AT 16" O.C. WITH 1" SHAFT LINER ON ONE SIDE AND (2) 5/8" FIRE RESISTANT GYPSUM BOARD ON OTHER SIDE.

1

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2615 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
OFFICE 224.293.3152

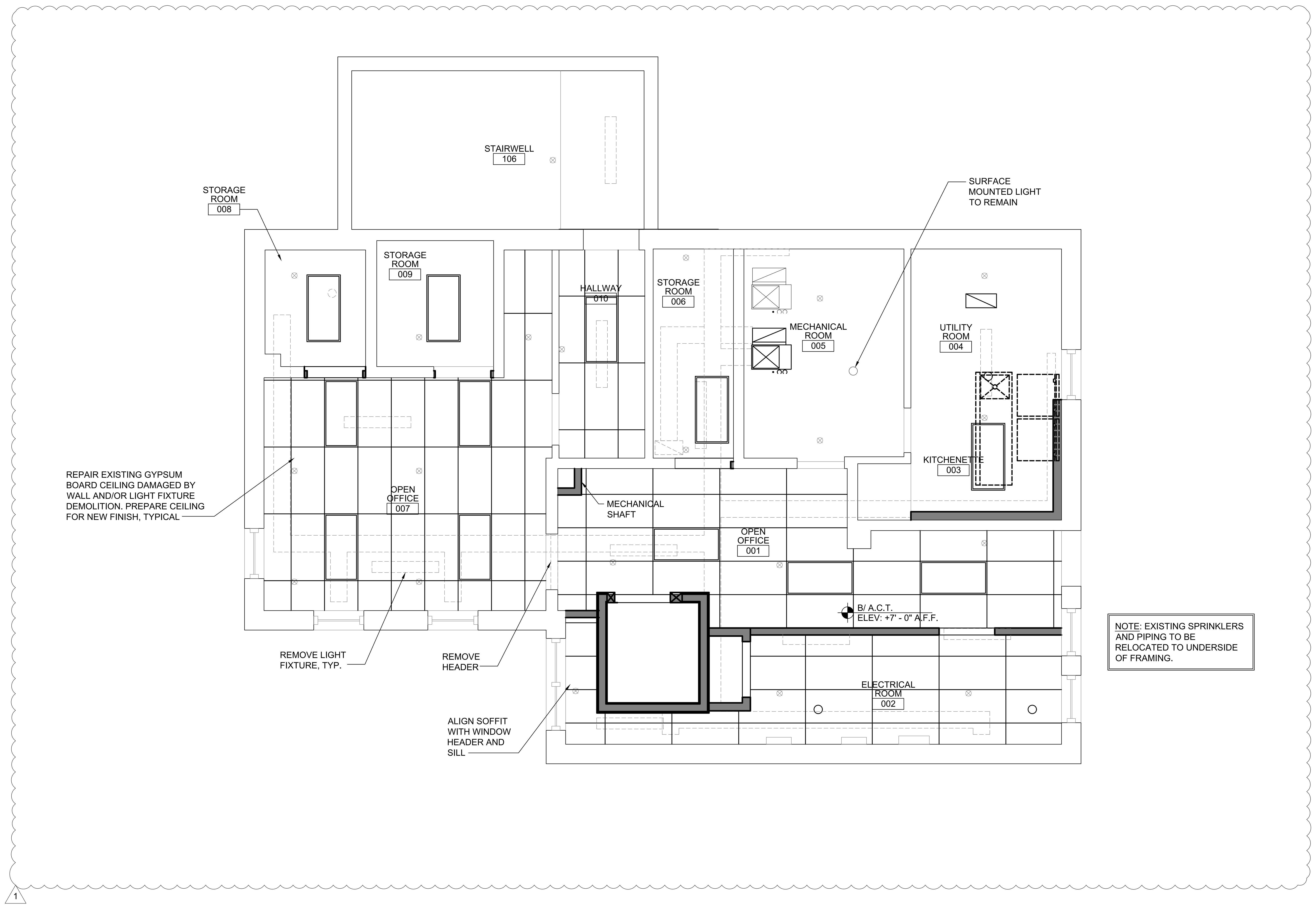
Signed: Expires: November 30, 2022

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

project no.	21.0005
date:	07.21.2021
revision 1:	08.27.2021
revision 2:	
revision 3:	
revision 4:	
checked:	CA
drawn:	JB

sheet title: SECOND FLOOR PLAN

sheet number: A103



NOTE: EXISTING SPRINKLERS AND PIPING TO BE RELOCATED TO UNDERSIDE OF FRAMING.

1 BASEMENT REFLECTED CEILING PLAN

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

N

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.

B. ALL WORK TO BE DONE IN ACCORDANCE WITH ALL GOVERNING STATE AND LOCAL CODES, ORDINANCES, AND AMENDMENTS.

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

Symbol	Description
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

API ARCHITECTS
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HOFFMAN ESTATES, IL 60192
OFFICE: 312.505.1392

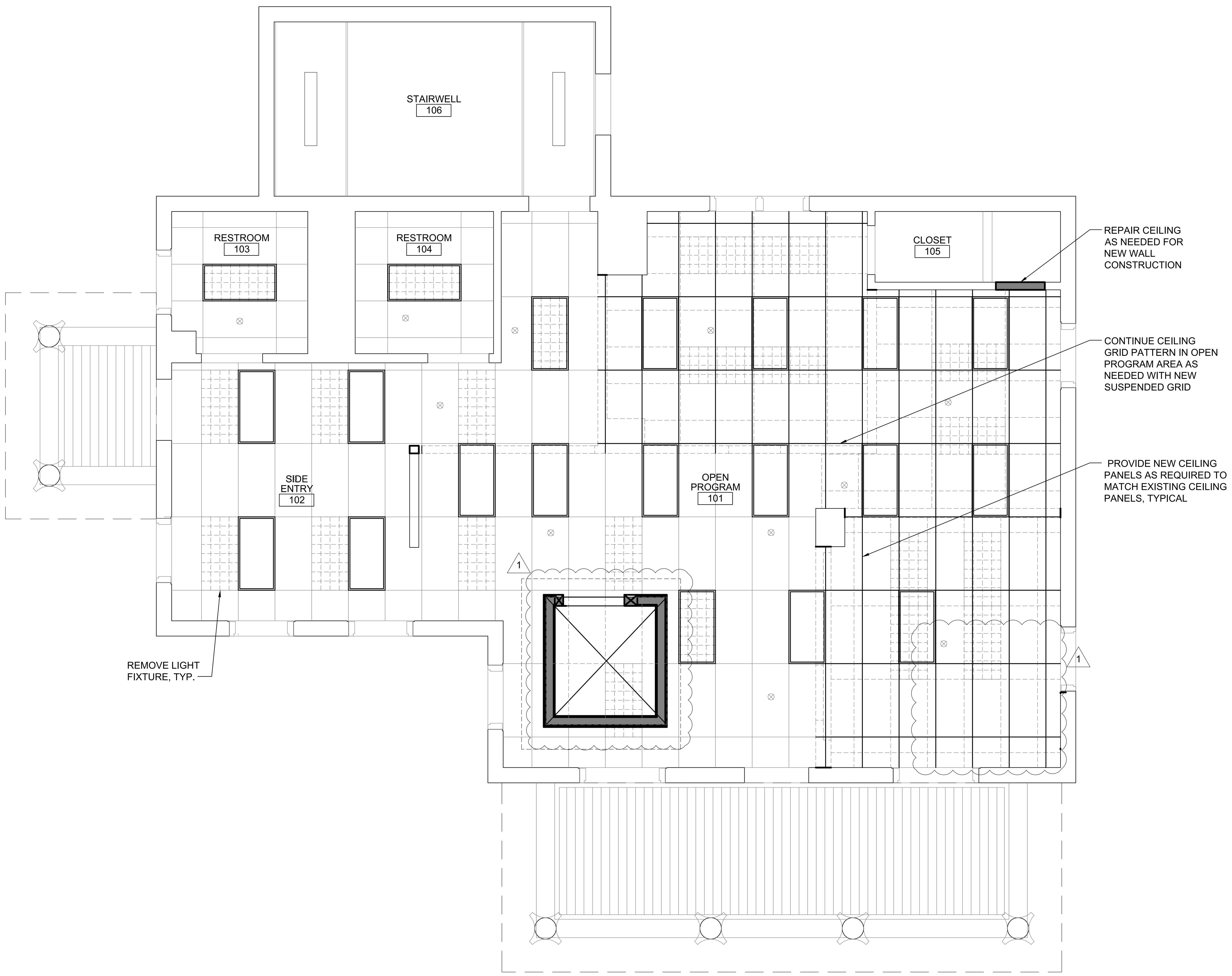
Signed: Expires: November 30, 2020

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

project no.	D2100051
date:	07.21.2021
revision 1:	08.27.2021
revision 2:	
revision 3:	
revision 4:	
checked:	CW
drawn:	JB

sheet title: BASEMENT REFLECTED CEILING PLAN

sheet number: A121



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

N

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.

B. ALL WORK TO BE DONE IN ACCORDANCE WITH ALL GOVERNING STATE AND LOCAL CODES, ORDINANCES, AND AMENDMENTS.

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.

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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

API ARCHITECTS
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
OFFICE: 312.505.1392

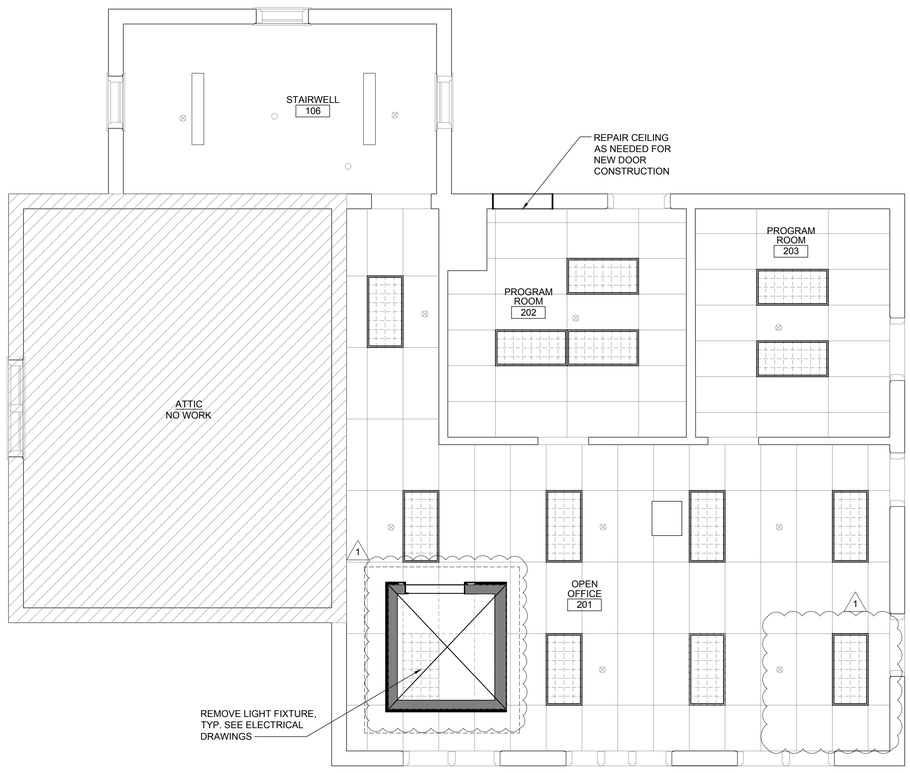
Signed: Expires: November 30, 2020

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

project no.	D2100051
date:	07.21.2021
revision 1:	08.27.2021
revision 2:	
revision 3:	
revision 4:	
checked:	CW
drawn:	JB

sheet title:
FIRST FLOOR REFLECTED CEILING PLAN

sheet number:
A122



1 SECOND FLOOR REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"

N

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.

B. ALL WORK TO BE DONE IN ACCORDANCE WITH ALL GOVERNING STATE AND LOCAL CODES, ORDINANCES, AND AMENDMENTS.

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.

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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

API ARCHITECTS
2619 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
OFFICE: 312.858.3162

Signed: Expires: November 30, 2022

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

project no. 21000051
date: 07.21.2021
revision 1: 08.27.2021
revision 2:
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revision 4:
checked: GA
drawn: JB

sheet title: 2ND FLOOR REFLECTED CEILING PLAN
sheet number: A123

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

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

ARCHITECTS
API
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
OFFICE: 312.505.1392

Signed: Expires: November 30, 2020

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

project no.	D2100051
date:	07.21.2021
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revision 4:	
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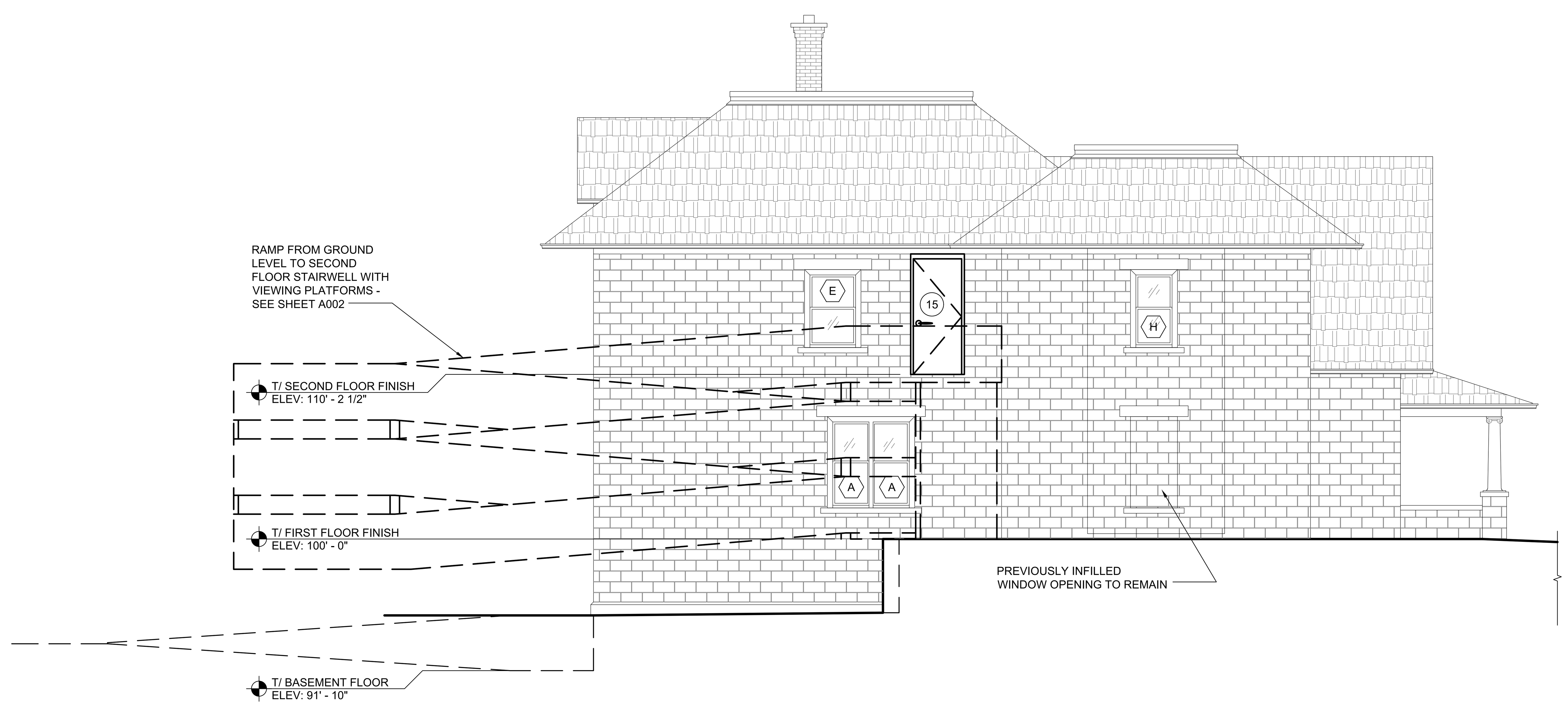
drawn:	JB

sheet title:
BUILDING ELEVATIONS

sheet number:
A201

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



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

API ARCHITECTS
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HOFFMAN ESTATES, IL 60192
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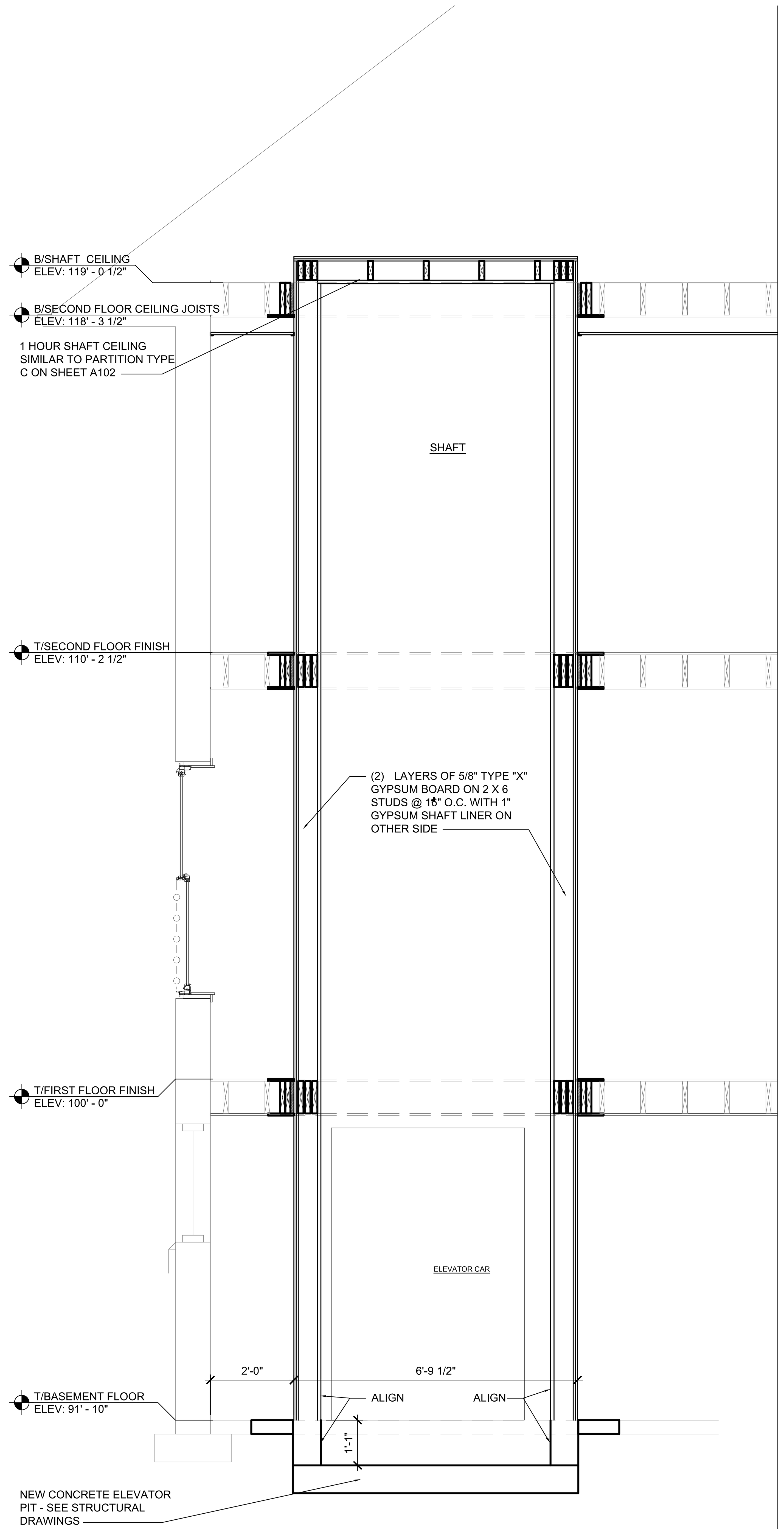
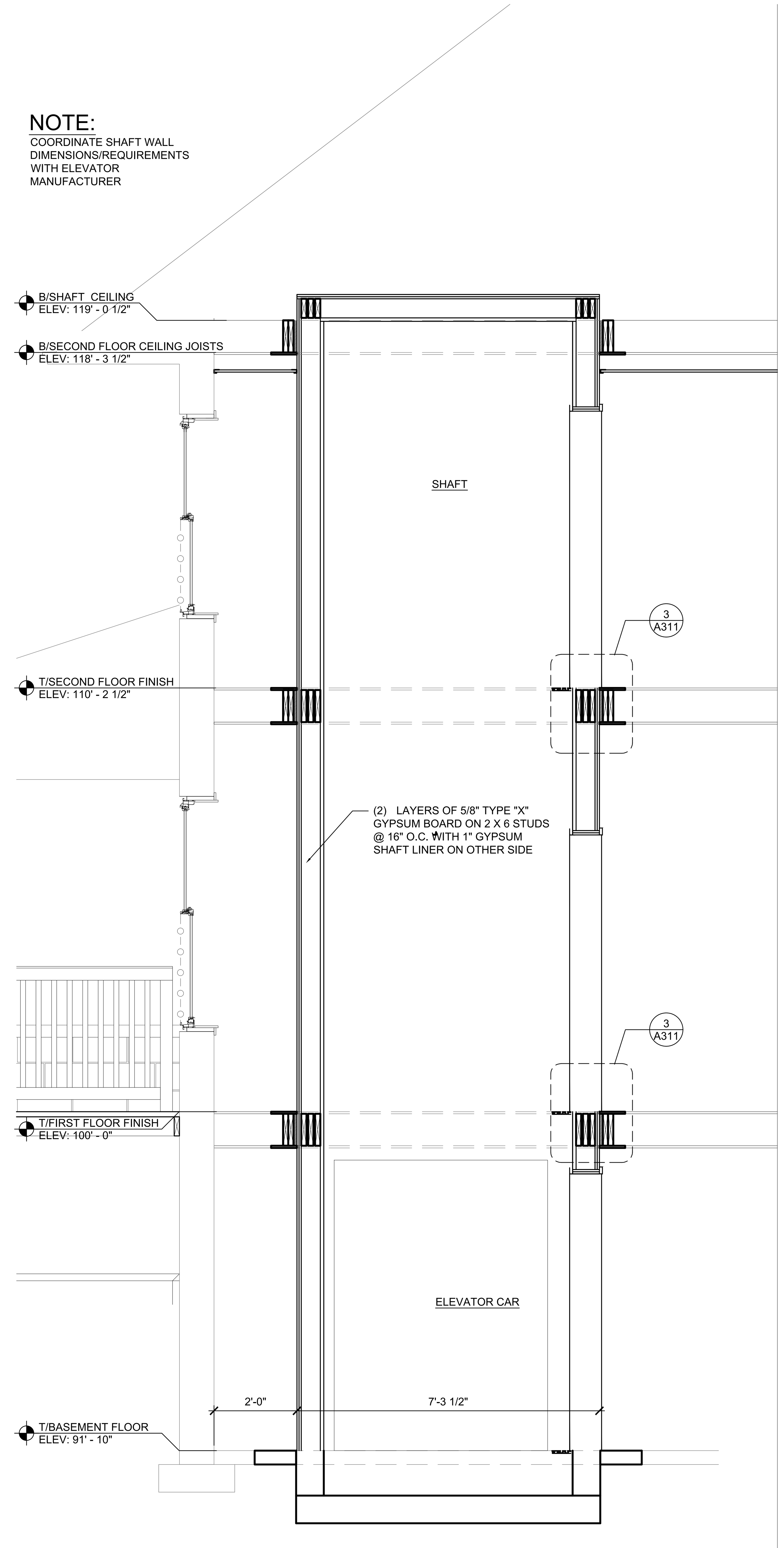
sheet number: A202

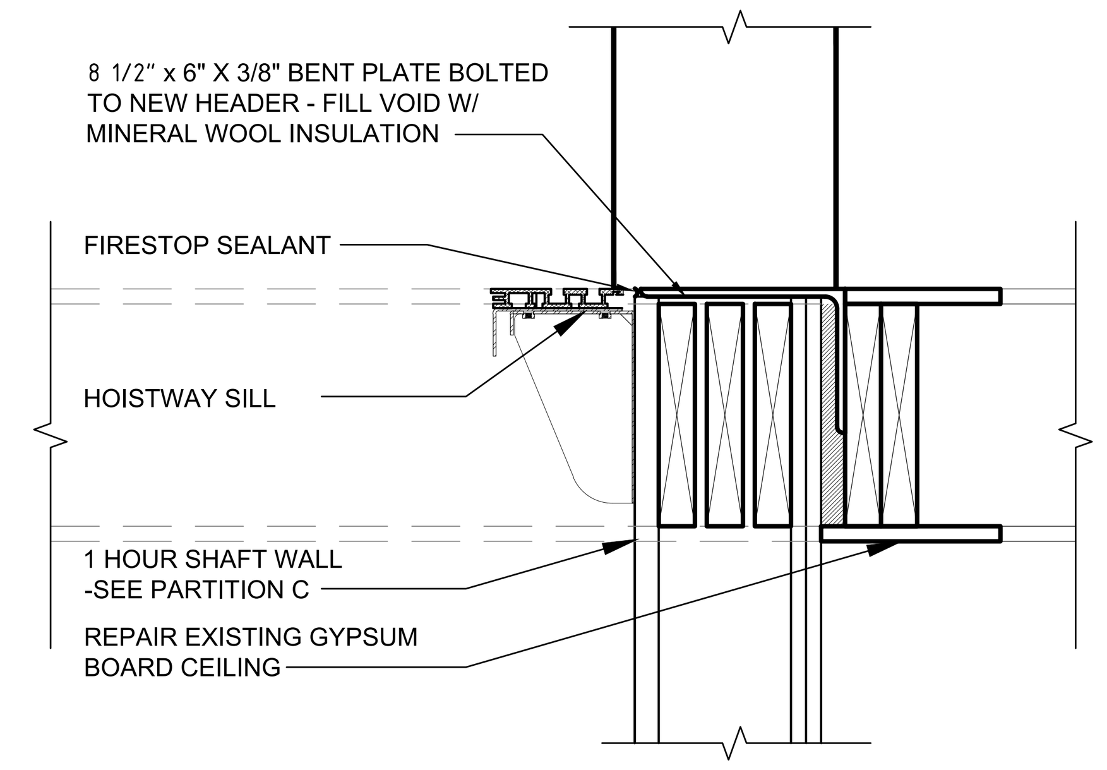
NOTE:
COORDINATE SHAFT WALL DIMENSIONS/REQUIREMENTS WITH ELEVATOR MANUFACTURER



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



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



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

1

API ARCHITECTS
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HOFFMAN ESTATES, IL 60192
OFFICE: 312.505.1392

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sheet title: **WALL SECTIONS**

sheet number: **A311**

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	ACT1.	MATCH EXIST.	7'-0"	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
002	ELECTRIC ROOM	EPOXY	-	MASON/G.B.	P1	ACT1.	MATCH EXIST.	7'-0"	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	ACT1.	MATCH EXIST.	7'-0"	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	ACT1.	MATCH EXIST.	7'-0"	PREPARE EXIST. SURFACES TO RECEIVE NEW FINSH
011	MECHANICAL ROOM	EPOXY	-	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

CB CEMENT BOARD - TO BE USED IN ALL WET AREAS (INCLUDING SHOWERS, MOP SINKS, ETC.)
GB GYPSUM BOARD
WRGB WATER-RESISTANT GYPSUM BOARD - TO BE USED IN ALL DAMP AND TILED AREAS (INCLUDING RESTROOMS, ETC.)
PLYWD PLYWOOD - TO BE USED IN WALL AREAS WITH EQUIPMENT MOUNTING (INCLUDING KITCHENS, ELECTRICAL ROOMS, ETC.)

ROOM FINISH NOTES:

- ALL FINISH SAMPLES TO BE APPROVED BY OWNER PRIOR TO ORDER AND INSTALLATION.
- INTERIOR FINISH AT EXIT WAYS TO BE MINIMUM CLASS II. (FLAME SPREAD 26-75, SMOKE DEVELOPED 0-450)
- INTERIOR FINISH AT ALL OTHER PUBLIC AREAS TO BE MINIMUM CLASS III. (FLAME SPREAD 76-200. SMOKE DEVELOPED 0-450)
- ALL PAINTED SURFACES TO RECEIVE (1) COAT PRIMER AND (2) FINISH COATS AS REQUIRED FOR FULL COVERAGE.
- ALL HOLLOW METAL DOORS AND FRAMES TO RECEIVE (1) COAT OF PRIMER AND (2) FINISH COATS OF SEMI-GLOSS PAINT.
- ALL GROUT JOINTS TO RECEIVE (2) COATS OF MANUFACTURER'S RECOMMENDED SEALER.

INTERIOR FINISH LEGEND (X)

TAG	ITEM DESCRIPTION	MANUFACTURER	PRODUCT NUMBER / COLOR	SIZE / SPECS	GROUT	COMMENTS
ACT1	SUSPENDED ACOUSTICAL CEILING SYSTEM	MATCH EXIST.	-	-	-	-
CARPET	TBD BY OWNER	-	-	-	-	-
EPOXY	TBD BY OWNER	-	-	-	-	-
P1	INTERIOR PAINT	SHERWIN WILLIAMS	WHITE - EXACT COLOR TBD BY OWNER	-	-	-
P2	INTERIOR PAINT	SHERWIN WILLIAMS	TBD BY OWNER	-	-	HOLLOW METAL DOOR & FRAME
P3	EXTERIOR PAINT	SHERWIN WILLIAMS	TBD BY OWNER	-	-	HOLLOW METAL DOOR & FRAME

Common Specifications
For LU/LA elevator equipment

symmetry ELEVATING SOLUTIONS

Standard Features
- Rated capacity: 1,400 lb. (635 kg)
- Lifting height: up to 25'0" standard
- Power supply: 208/230 VAC, 1 PH, 30 amp, 60 Hz
- Speed: 30 fpm (.15 M/S)
- Automatic self-leveling
- 2:1 roped hydraulic drive system
- Smooth start and stop
- Two-stop operation
- 36 inch doors, automatic horizontally sliding, two speed hoistway and car door; full-height light curtain
- Pit depth:
  - ASME A17.1 year 2013 & prior: standard 13 inches with elastomeric bumpers and alternative means (bottom car clearance device)
  - ASME A17.1 year 2016: standard 14 inches with buffer springs and alternative means (bottom car clearance device)
- Overhead: 11'0" standard or 8'10" (106 inches) with alternative means (top car clearance device)
- Selective Collective Programmable Logic Controller (PLC)
- Car-mounted directional indicator with audible signals
- 4 HP submersible pump and motor for quiet operation
- Two-speed control valve
- Low oil protection
- Single-stage hydraulic jack and two ¾ inch aircraft cables using wedge sockets
- 8 lb. T-rail
- Heavy-duty rollers and guides
- Homing timer
- Digital position indicator
- ADA hands-free phone
- Passing chime
- Single opening
- Three-year limited parts warranty

Safety Features
- Keyed in-car stop switch and alarm button
- Emergency lighting in car interior
- Uninterruptible Power Supply (UPS) for car lowering and operation of car and hoistway doors in the event of a power failure
- Emergency manual lowering
- Slack/broken cable safety brake device
- Overspeed valve
- ETL, UL or CSA certified components
- Tactile/braille characters
- Elastomeric bumpers (ASME A17.1 year 2013 & prior) or buffer springs (ASME A17.1 year 2016)

Car Features
- 7'0" interior car height
- Ivory powder coated painted steel ~~or Unfinished Red Oak Flat Panel car walls with matching ceiling~~*
- Brushed Stainless Steel car entrance on steel car (strike column, return column and transom)
- Matching entrance on wood car
- Ivory powder coat painted steel 3'0" x 6'8" Two Speed Doors
- Brushed Stainless Steel handrail
- Unfinished plywood floor with sill set for ¼ inch (flooring by others)
- Four recessed LED lights with Black trim rings

Optional Features
- Up to six stops
- Custom wood cars
- Stainless steel cars
- Laminate applied car panels
- Overspeed governor
- Speed: 40 fpm with variance
- 50'0" travel with variance and derated capacity
- Three-Phase motor and controller (208/230 VAC; 3 PH, 20 amp, 5 HP)
- Buffer springs (minimum 14 inch pit required)
- Landing position indicator
- Hoistway access
- Phase 1 and Phase 2 fire service
- Phone line monitoring system
- Green drive system by adding environmentally friendly hydraulic oil
- Ventilation system

Platform Sizes
(Custom sizes and designs available)
- ~~48"W x 54"D standard~~
- 42"W x 54"D standard
- ~~42"W x 60"D optional~~
- ~~51"W x 51"D 90° optional~~

Enter/Exit Configurations
- Enter/Exit same side standard
- ~~90° Adjacent optional~~
- ~~Straight Through optional~~

* Wood cars require fire coat to be added in commercial settings

Symmetry LU/LA elevators are designed to comply with ASME A17.1 Section 5.2 and the Americans with Disabilities Act (ADA).

All LU/LA elevators are limited by speed, travel and capacity in order to comply with applicable code.

1 LIMITED USE/LIMITED APPLICATION ELEVATOR
SCALE:

API ARCHITECTS
2675 PRATUM AVENUE
HOFFMAN ESTATES, IL 60192
OFFICE: 312.575.1312

Signed: Expires: November 30, 2020

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

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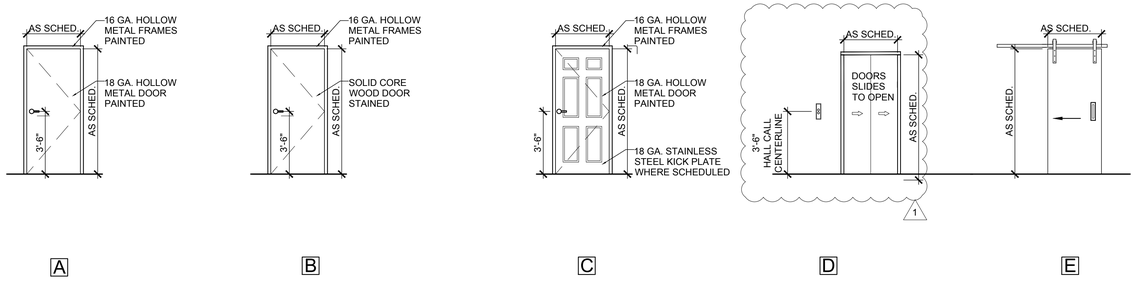
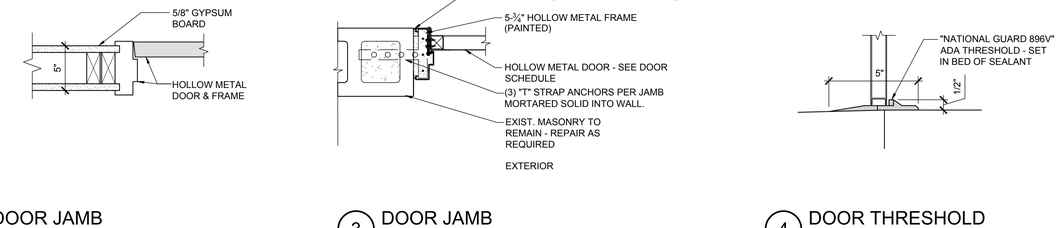
sheet title: ROOM FINISH SCHEDULE
sheet number: A701



1 DOOR ELEVATIONS

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



2 DOOR JAMB

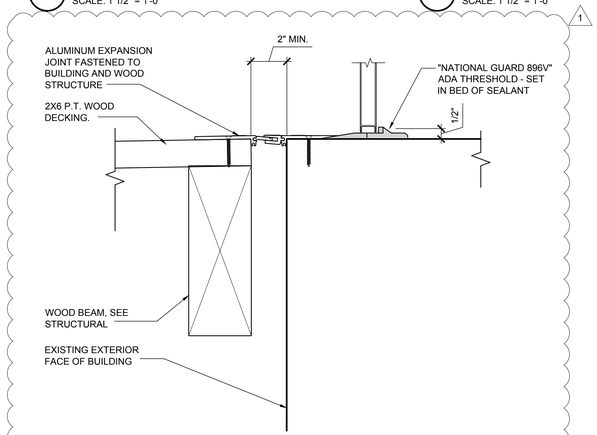
SCALE: 1 1/2" = 1'-0"

3 DOOR JAMB

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

4 DOOR THRESHOLD

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



5 DOOR THRESHOLD

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

DOOR SCHEDULE (X)

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" x7'-2"	A	H.M.	4/A702	3/A702	SET 1	-	EXTERIOR DOOR, INSULATED U=.10 MAX.
2	ELECTRICAL ROOM	3'-0" x 7'-0"	3'-4" x7'-2"	A	H.M.	- (1)	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" x7'-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.	4/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.	4/A702 (1)	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	(1)
14	HOISTWAY*	3'-0" x 6'-8"		D					1 1/2-HOUR	* PROVIDED & INSTALLED BY ELEVATOR MANUFACTURER
15	RAMP	3'-0" x 7'-0"	3'-4" x7'-2"	A	H.M.	4/A702	3/A702	SET 1	-	EXTERIOR DOOR, INSULATED U=.10 MAX.
16	STAIRWELL	3'-0" x 7'-0" EXIST. TO REMAIN				(1)				
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	HOISTWAY*	3'-0" x 6'-8"		D					1 1/2-HOUR	* PROVIDED & INSTALLED BY ELEVATOR MANUFACTURER
20	HOISTWAY*	3'-0" x 6'-8"		D					1 1/2-HOUR	* PROVIDED & INSTALLED BY ELEVATOR MANUFACTURER
21	MACHINE ROOM	3'-0" x 7'-0"	3'-4" x7'-2"	A	H.M.		2/A702	SET 6	1-HOUR	

(1)

DOOR HARDWARE

SET 1
- 1 1/2 PAIR BUTT HINGES (4 1/2"x4 1/2" NRP)
- LEVER HANDLE WITH KEY OUTSIDE LOCKSET (ANSI #F84-CLASS 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)
- WEATHERSTRIPING
- 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

(1)

SET 6
- 1 1/2 PAIR BUTT HINGES (4 1/2"x4 1/2")
- LEVER HANDLE WITH KEY OUTSIDE LOCKSET (ANSI #F86-STORE ROOM LOCK) (SCHLAGE #D50BD, RHODES LEVER, #626 FINISH) KNURLED HANDLE
- HEAVY DUTY OVERHEAD CLOSER (LCN 1461)

NOTES

- ALL DOORS ARE 1 3/4" THICK - UNLESS NOTED OTHERWISE.
- ALL INTERIOR AND EXTERIOR 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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HOFFMAN ESTATES, IL 60192
OFFICE: 815.525.1912

Signed: Expires: November 30, 2020

HOFFMAN ESTATES PARK DISTRICT - VOGELEI HOUSE REMODEL

650 WEST HIGGINS ROAD
HOFFMAN ESTATES, IL 60169

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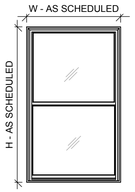
sheet title: **DOOR SCHEDULE AND ELEVATIONS**

sheet number: **A702**



A B C D E F G H

1 WINDOW ELEVATIONS

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

WINDOW SCHEDULE (X)

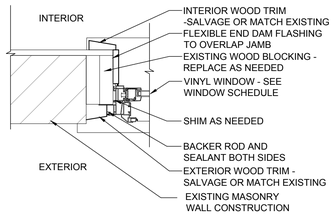
MARK	DIMENSION (W x H)	MANUFACTURER AND MODEL	FRAME	FINISH (EXTERIOR/INTERIOR)	JAMB	REMARKS
A	2'-2" x 5'-4"	PELLA 250 SERIES	VINYL	BROWN/WHITE	2/A703, 3/A703	-
B	2'-10" x 5'-4"	PELLA 250 SERIES	VINYL	BROWN/WHITE	2/A703	-
C	4'-0" x 5'-2"	PELLA 250 SERIES	VINYL	BROWN/WHITE	2/A703	-
D	2'-0" x 3'-3"	PELLA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

GENERAL NOTES:

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

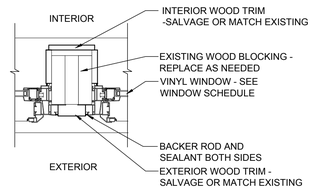
GLAZING:

- 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



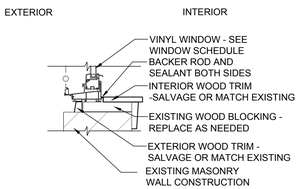
2 WINDOW JAMB

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



3 WINDOW JAMB

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



4 WINDOW SILL

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

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Signed: Expires: November 30, 2020

HOFFMAN ESTATES PARK DISTRICT - VOGELEI HOUSE REMODEL

650 WEST HIGGINS ROAD

HOFFMAN ESTATES, IL 60169

project no.	D2100051
date:	07.21.2021
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revision 2:	
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revision 4:	
checked:	GN
drawn:	JB

sheet title: WINDOW SCHEDULE AND ELEVATIONS

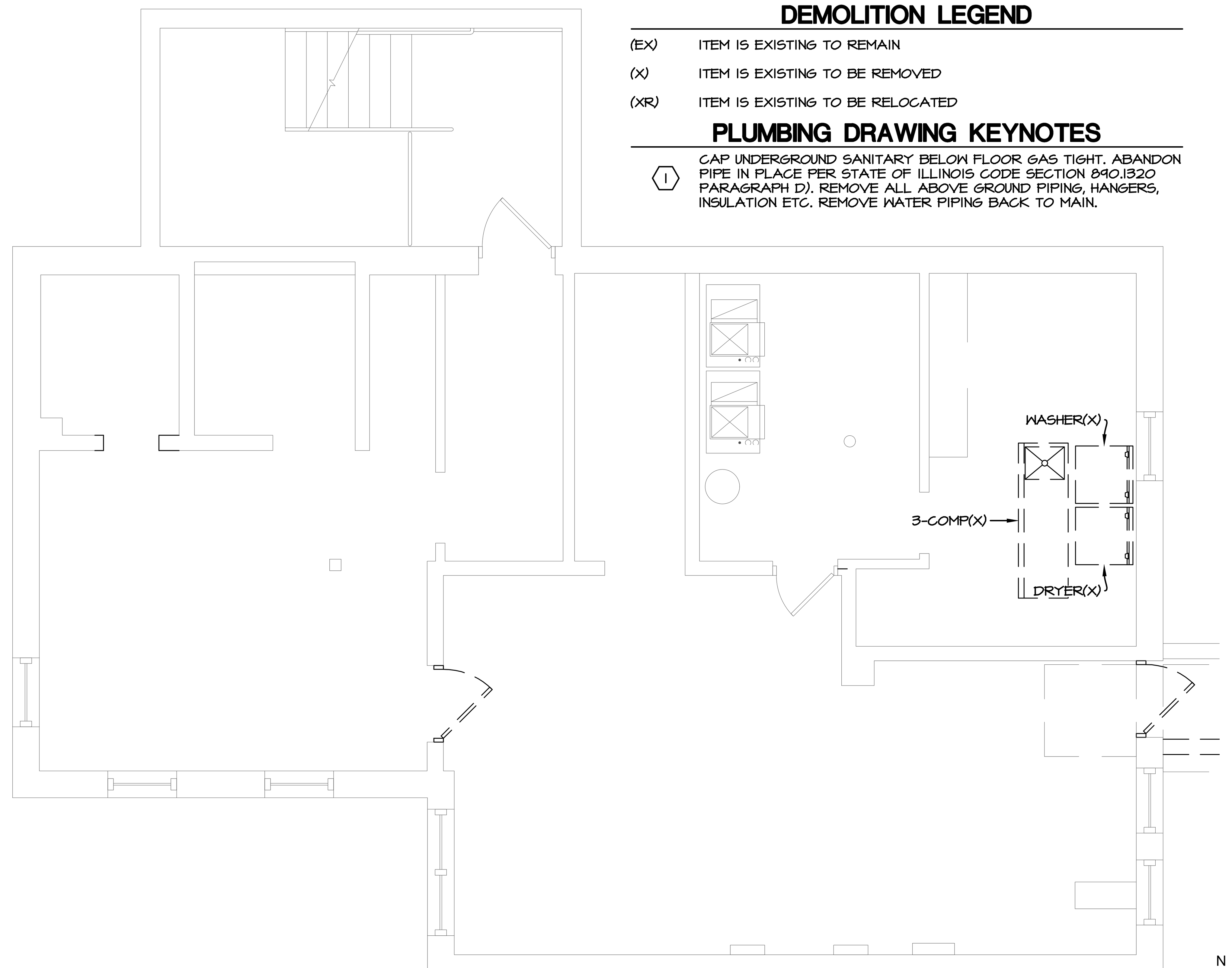
sheet number: A703

DEMOLITION LEGEND

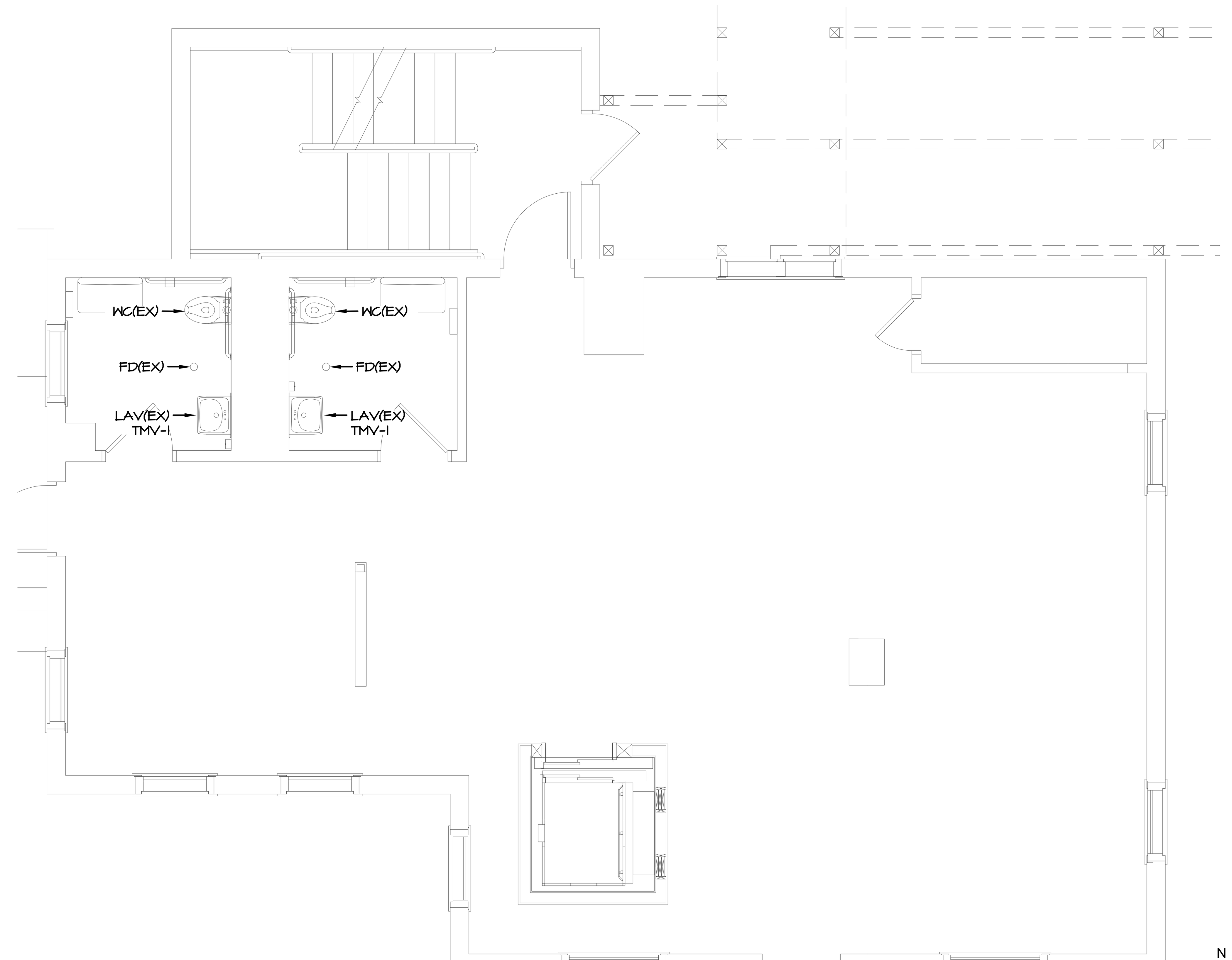
(EX)	ITEM IS EXISTING TO REMAIN
(X)	ITEM IS EXISTING TO BE REMOVED
(XR)	ITEM IS EXISTING TO BE RELOCATED

PLUMBING DRAWING KEYNOTES

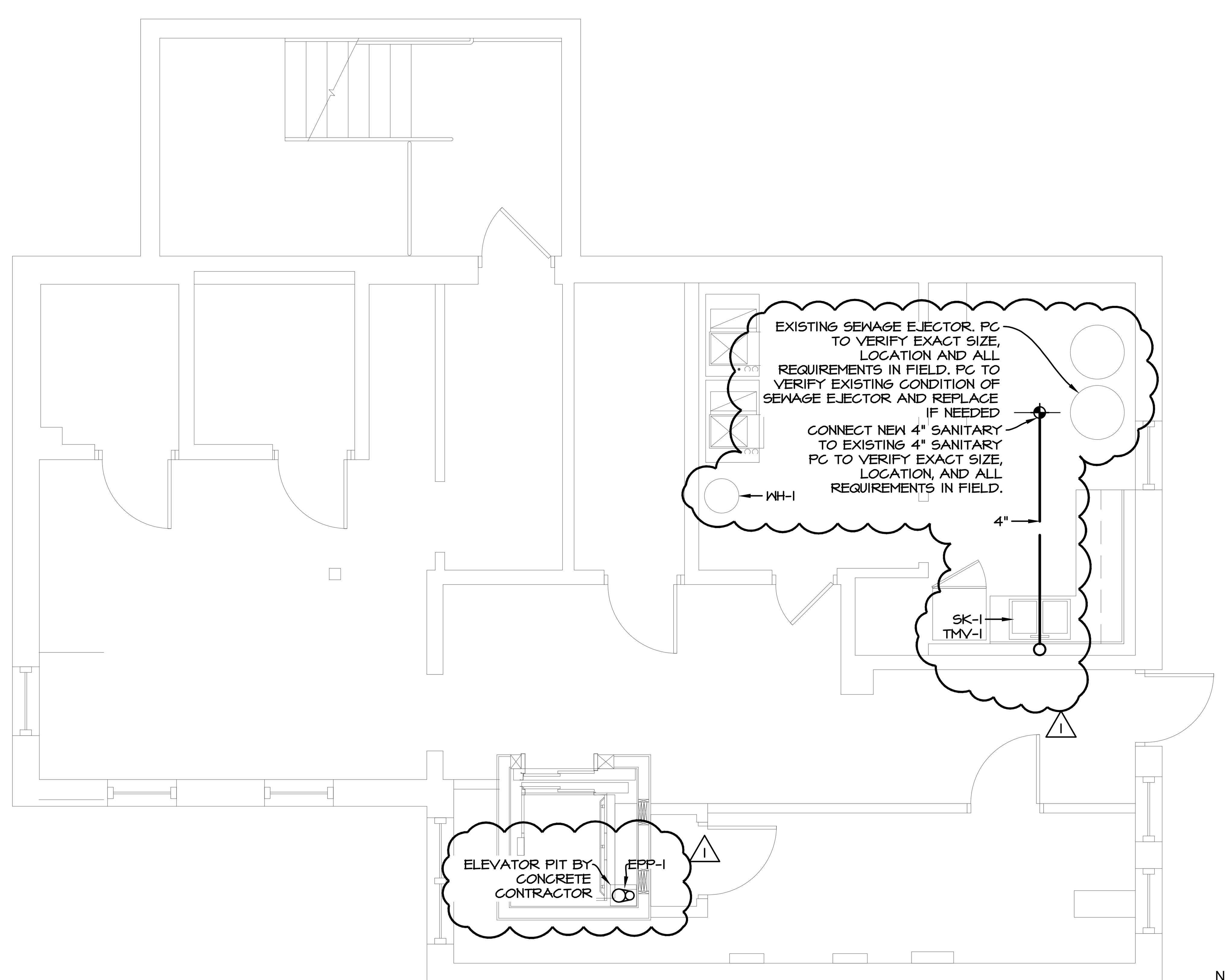
1. CAP UNDERGROUND SANITARY BELOW FLOOR GAS TIGHT. ABANDON PIPE IN PLACE PER STATE OF ILLINOIS CODE SECTION 890.1320 PARAGRAPH D). REMOVE ALL ABOVE GROUND PIPING, HANGERS, INSULATION ETC. REMOVE WATER PIPING BACK TO MAIN.



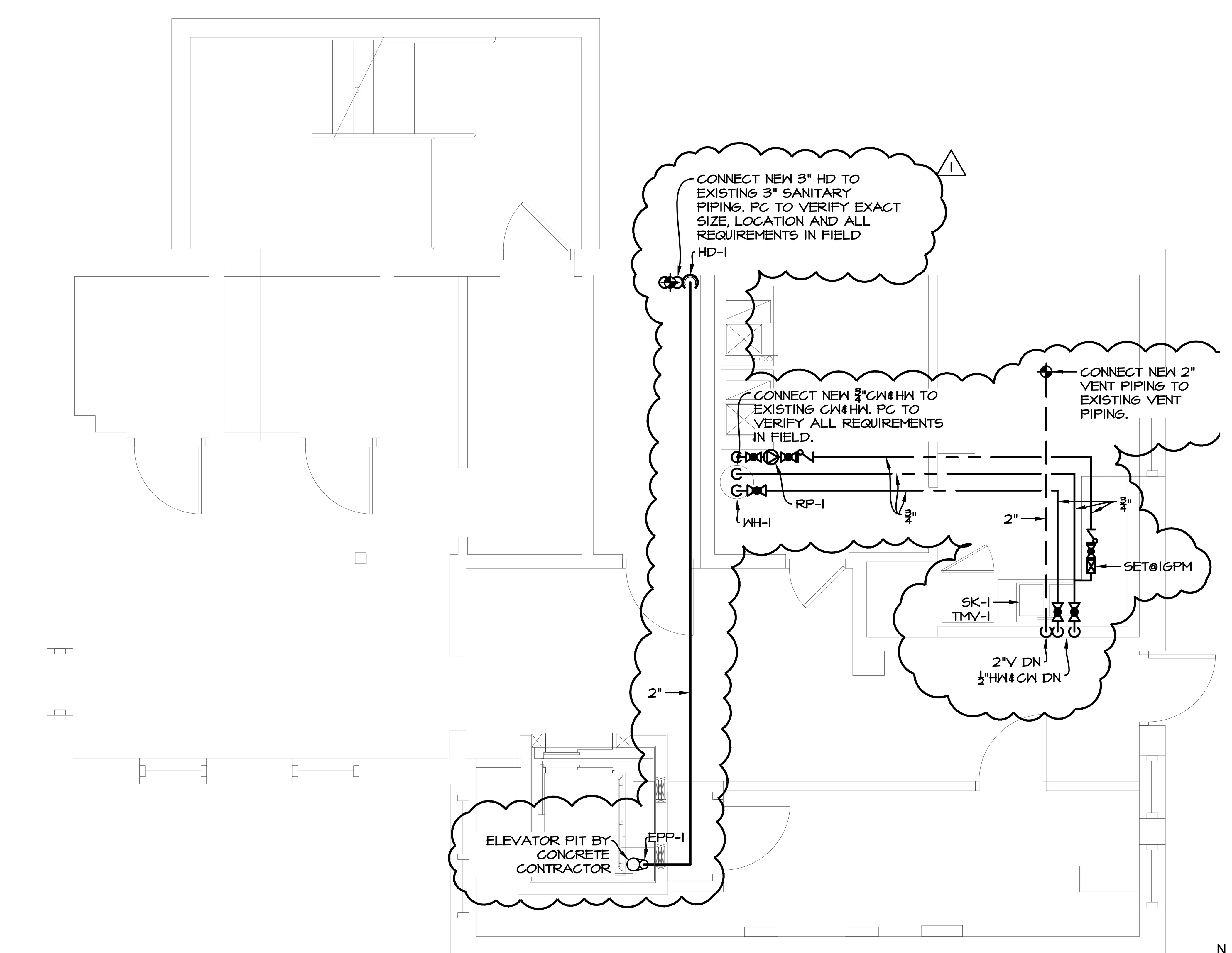
1 BASEMENT DEMO PLAN
SCALE: 1" = 1/4'



3 FIRST FLOOR PLUMBING PLAN
SCALE: 2



1 UNDERGROUND PLUMBING PLAN
SCALE: 3



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

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

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sheet number: P1.1

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" #S-134 OR T-134)
- BV BALL VALVE ("NIBCO" #S-585-70 OR T-585-70)
- BV BALANCING VALVE ("NIBCO" #S-1710 OR T-1710)
- NEW CONNECTION BETWEEN NEW AND EXISTING

CW - COLD WATER

DN - DOWN

HW - HOT WATER

HWR - HOT WATER RETURN

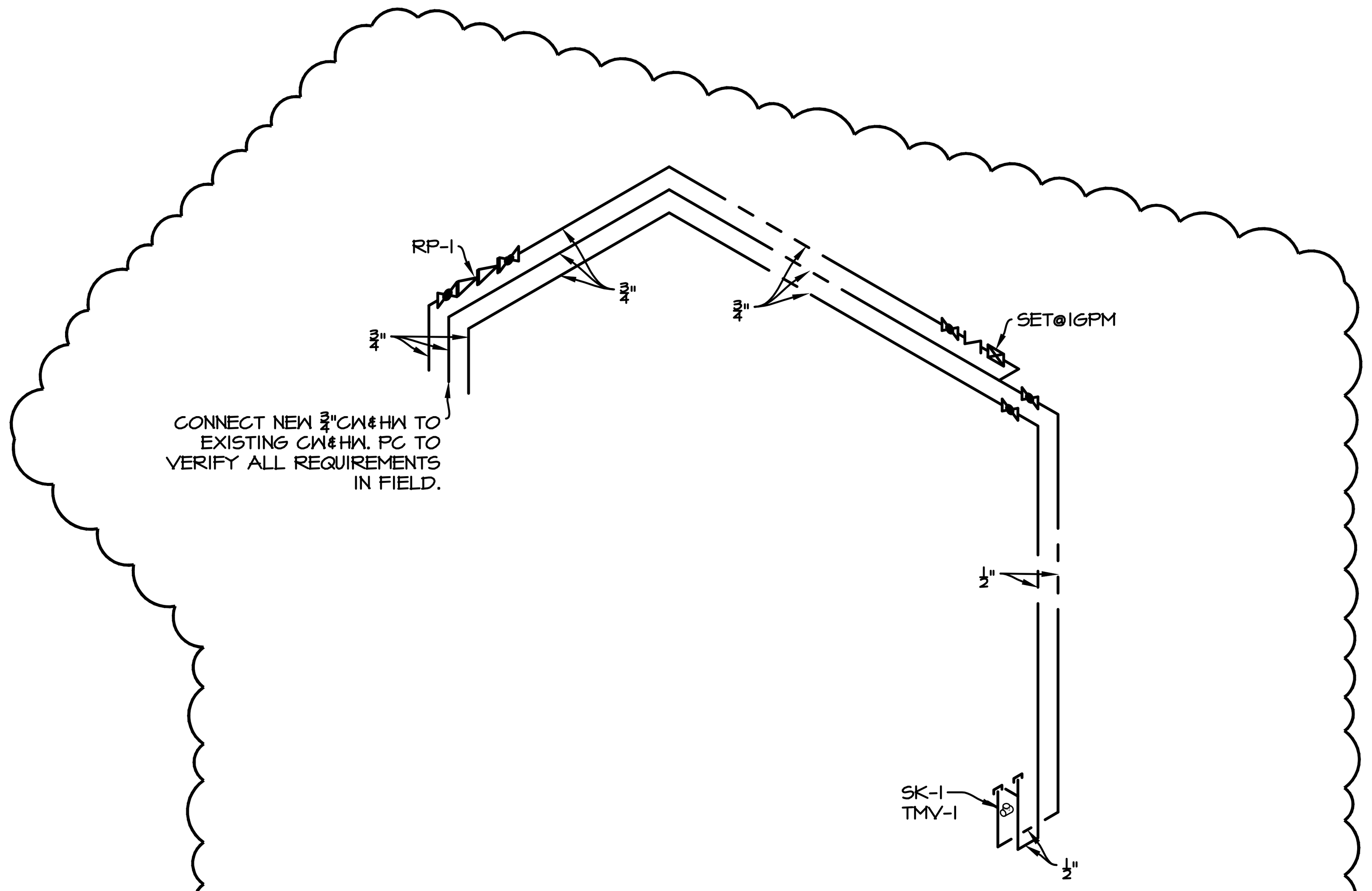
V - VENT

VIF - VERIFY IN FIELD

EQUIPMENT SCHEDULE

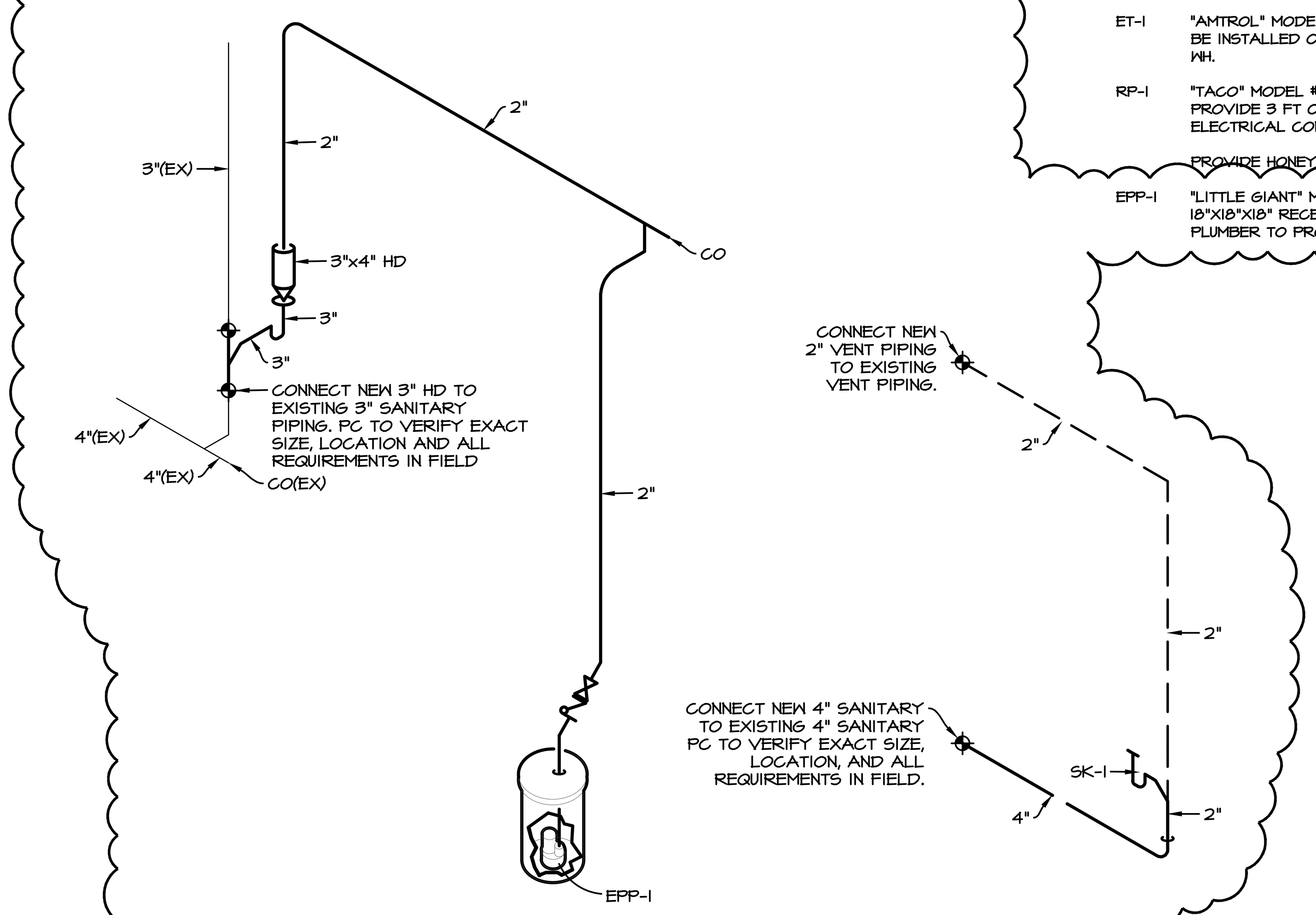
SE-1	"ZOELLER" MODEL #M264 SEWAGE PUMP. PUMP SHALL BE RATED FOR 60 GPM AT 10 FEET OF HEAD. 4/10 HP. WIRE WITH 115 VOLT POWER (9.4A). PROVIDE CHECK VALVE AND GATE VALVE ON 2" DISCHARGE. PROVIDE NEW GAS-TIGHT COVER. 18"x36" FIBERGLASS BASIN. 10-0126 WITH HIGHWATER ALARM.
SK-1	"ELKAY" MODEL #LRAD3322 LUSTERTONE 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-1	"SYMMONS" MODEL #8210CK POINT-OF-USE THERMOSTATIC MIXING VALVE WITH INTEGRAL CHECKS. (SET TEMPERATURE SHALL NOT EXCEED 110 DEGREES F)
WH-1	"AO SMITH" MODEL #GPDT 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 90 DEGREE TEMPERATURE RISE.
ET-1	"AMTROL" MODEL #ST-5 THERMAL EXPANSION TANK. EXPANSION TANK SHALL BE INSTALLED ON THE WATER HEATER SIDE OF THE SHUT-OFF VALVE TO THE WH.
RP-1	"TACO" MODEL #003-BC4-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~~
EPP-1	"LITTLE GIANT" MODEL #ESP50, ½ HP, 50 GPM@20' HEAD. 1-1/2" DISCHARGE. 18"X18"X18" RECESSED CONCRETE SUMP BY CONCRETE CONTRACTOR. PLUMBER TO PROVIDE GRATE.

1



WATER DIAGRAMS

SCALE: NONE



WASTE & VENT DIAGRAMS

SCALE: NONE

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 APPLIANCE.
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-REMOVEABLE/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 BARRIER. 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 SCREWED 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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HOFFMAN ESTATES, IL 60169

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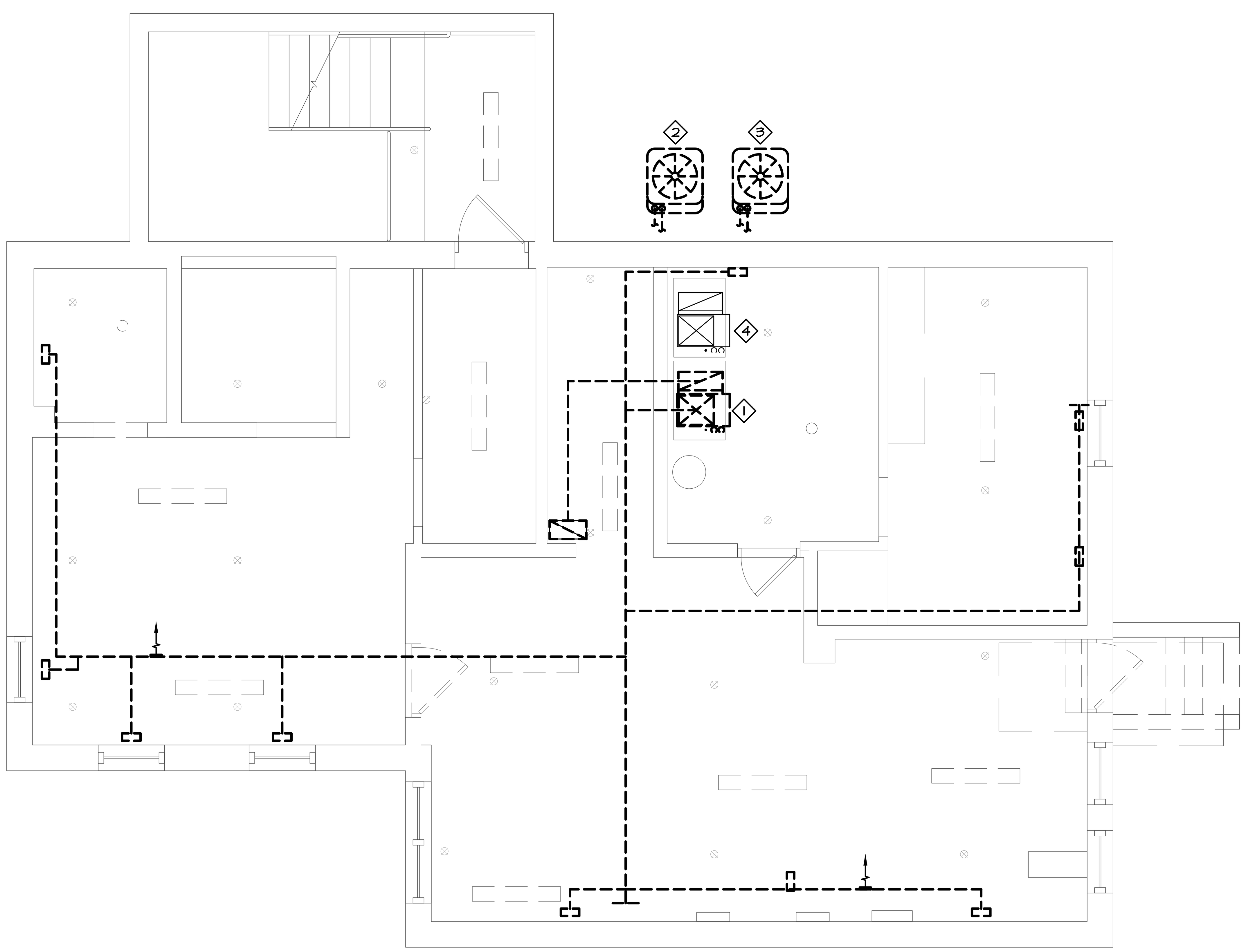
PLUMBING NOTES, SYMBOLS, SPECIFICATIONS, AND DIAGRAMS

sheet number:
P2.1



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.

1 MECHANICAL BASEMENT DEMOLITION PLAN

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

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MECH. DEMO PLAN BASEMENT

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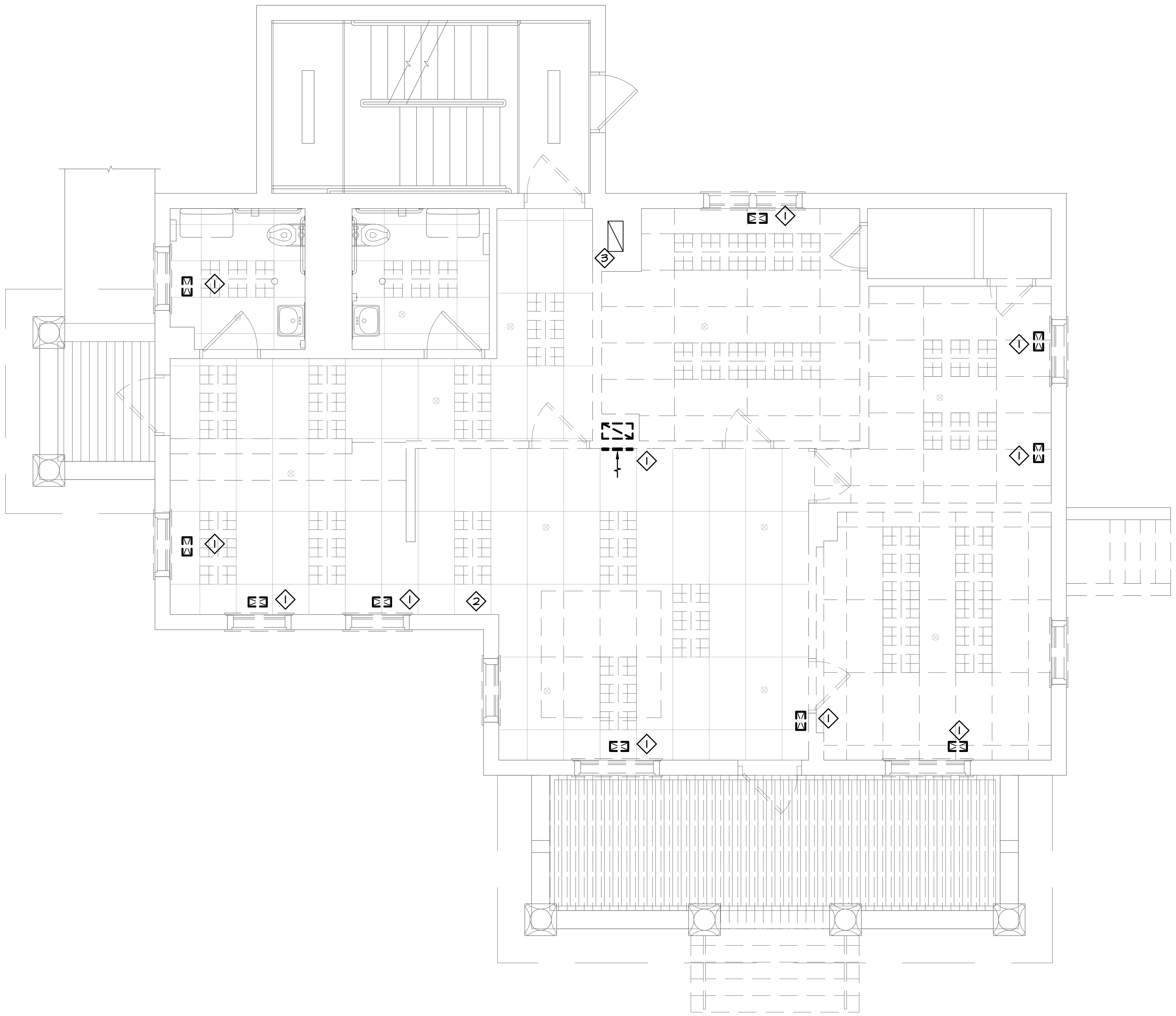

MECHANICAL KEY NOTES

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

1 MECHANICAL FIRST FLOOR DEMOLITION PLAN

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

WT GROUP

ARCHITECTS

REGISTERED PROFESSIONAL ENGINEER

HOFFMAN ESTATES PARK DISTRICT - VOGELEI HOUSE REMODEL

650 WEST HIGGINS ROAD

HOFFMAN ESTATES, IL 60169

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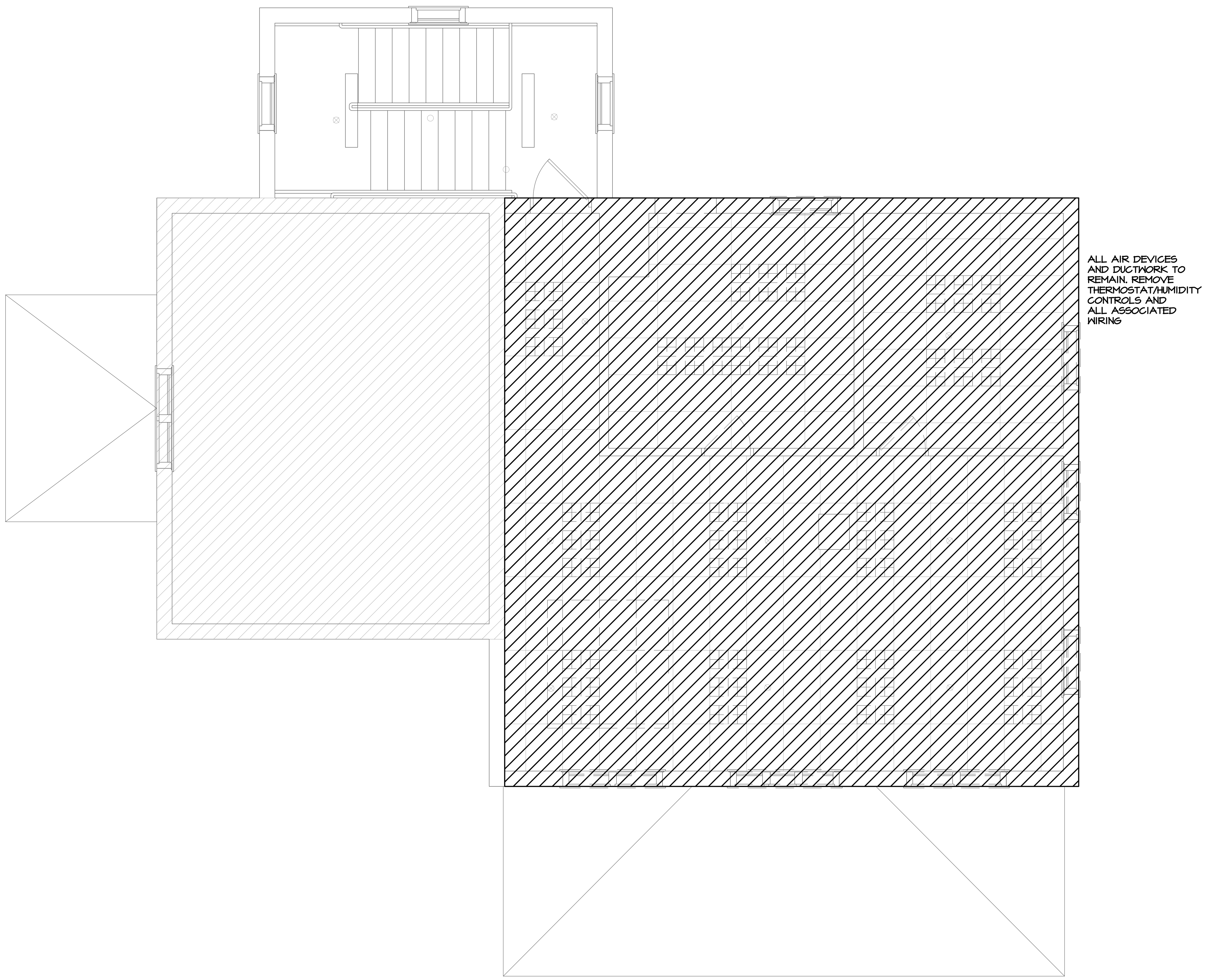

1 **MECHANICAL SECOND FLOOR DEMOLITION PLAN**
SCALE: 1/4" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER

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

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MECH. DEMO PLAN SECOND FLOOR

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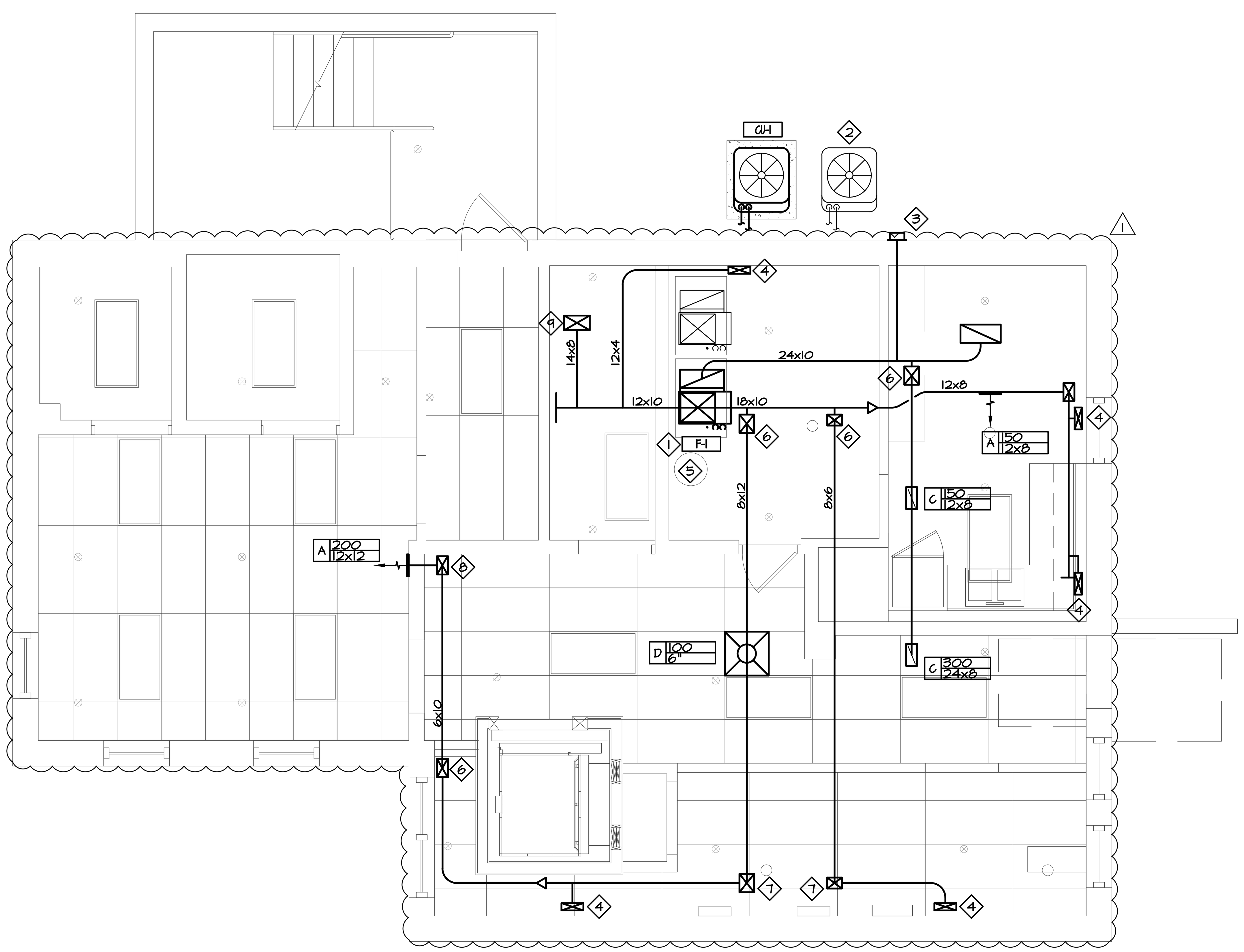
MD1.3



1 **MECHANICAL BASEMENT NEW WORK PLAN**
SCALE: 1/4" = 1'-0"

MECHANICAL KEY NOTES

1. 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.
2. NEW LOCATION FOR EXISTING CONDENSING UNIT. EXTEND/ADJUST ALL PIPING AS NEEDED.
3. ROUTE 10" OUTDOOR AIR INTAKE OUT WALL. PROVIDE PROPER CLEARANCES TO ALL EXHAUST. BALANCE TO 200 CFM.
4. ROUTE DUCT UP TO AIR DEVICE ON FIRST FLOOR.
5. RECONNECT EXISTING GAS PIPING TO NEW WATER HEATER. CONNECT NEW WATER HEATER VENTING TO EXISTING VENT.
6. ROUTE DUCTWORK UP IN BETWEEN JOISTS.
7. ROUTE DUCTWORK DOWN FROM JOIST SPACE. ROUTE DUCTWORK TIGHT TO CEILING.
8. ROUTE DUCTWORK DOWN IN SOFFIT AND TERMINATE AT AIR DEVICE ON WALL.
9. ROUTE DUCTWORK UP IN CHASE TO ABOVE FIRST FLOOR CEILING. SEE M1.2 FOR CONTINUATION.

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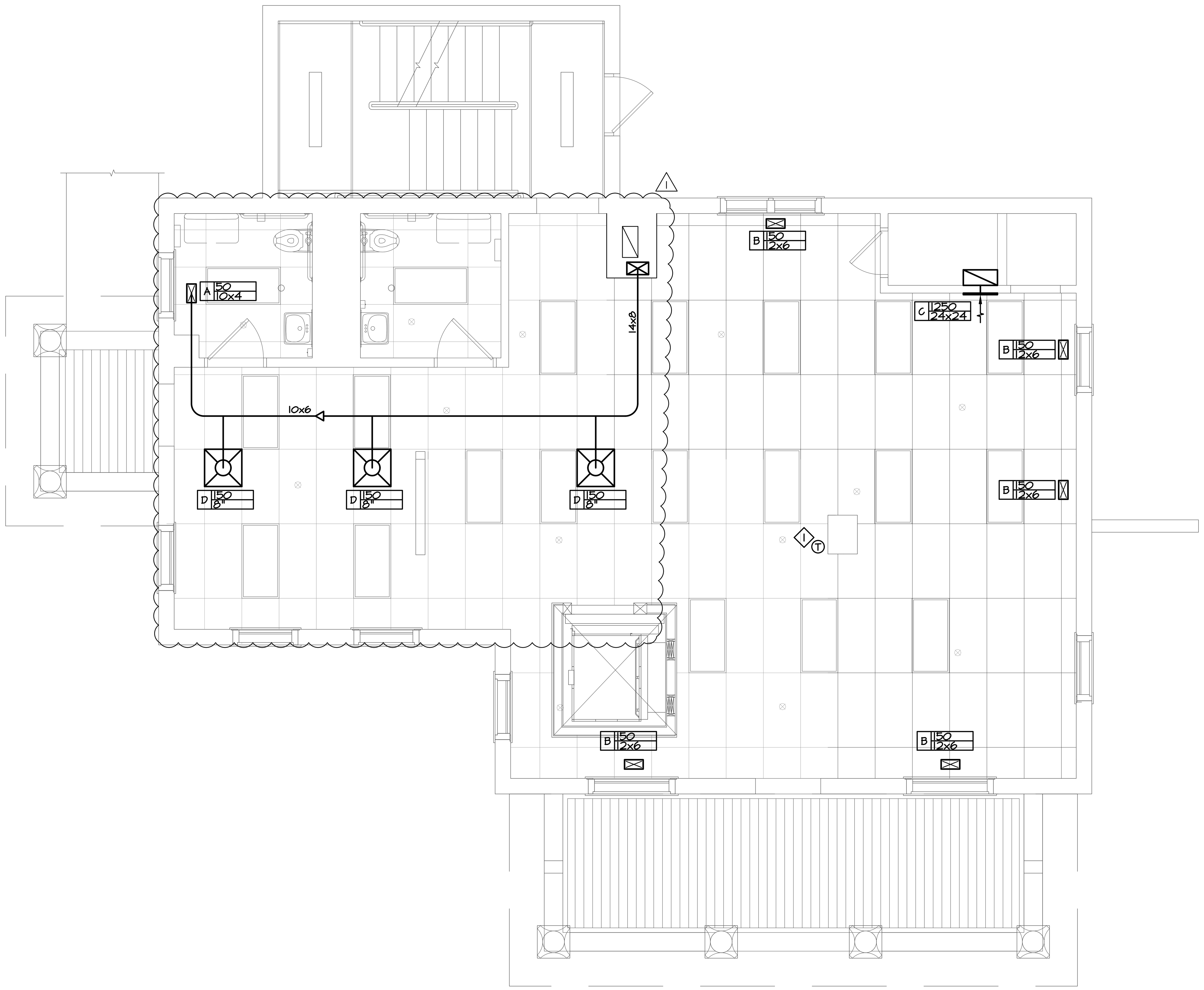

MECHANICAL FIRST FLOOR NEW WORK PLAN

1 — SCALE: 1/4" = 1'-0"

MECHANICAL KEY NOTES

1. LOCATION OF THERMOSTAT AND HUMIDITY CONTROLS.
2. 14x8 DUCT ROUTED UP FROM BASEMENT. ROUTE DUCTWORK ABOVE CEILING. (revision 1)

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REGISTERED PROFESSIONAL ENGINEER 062-05025

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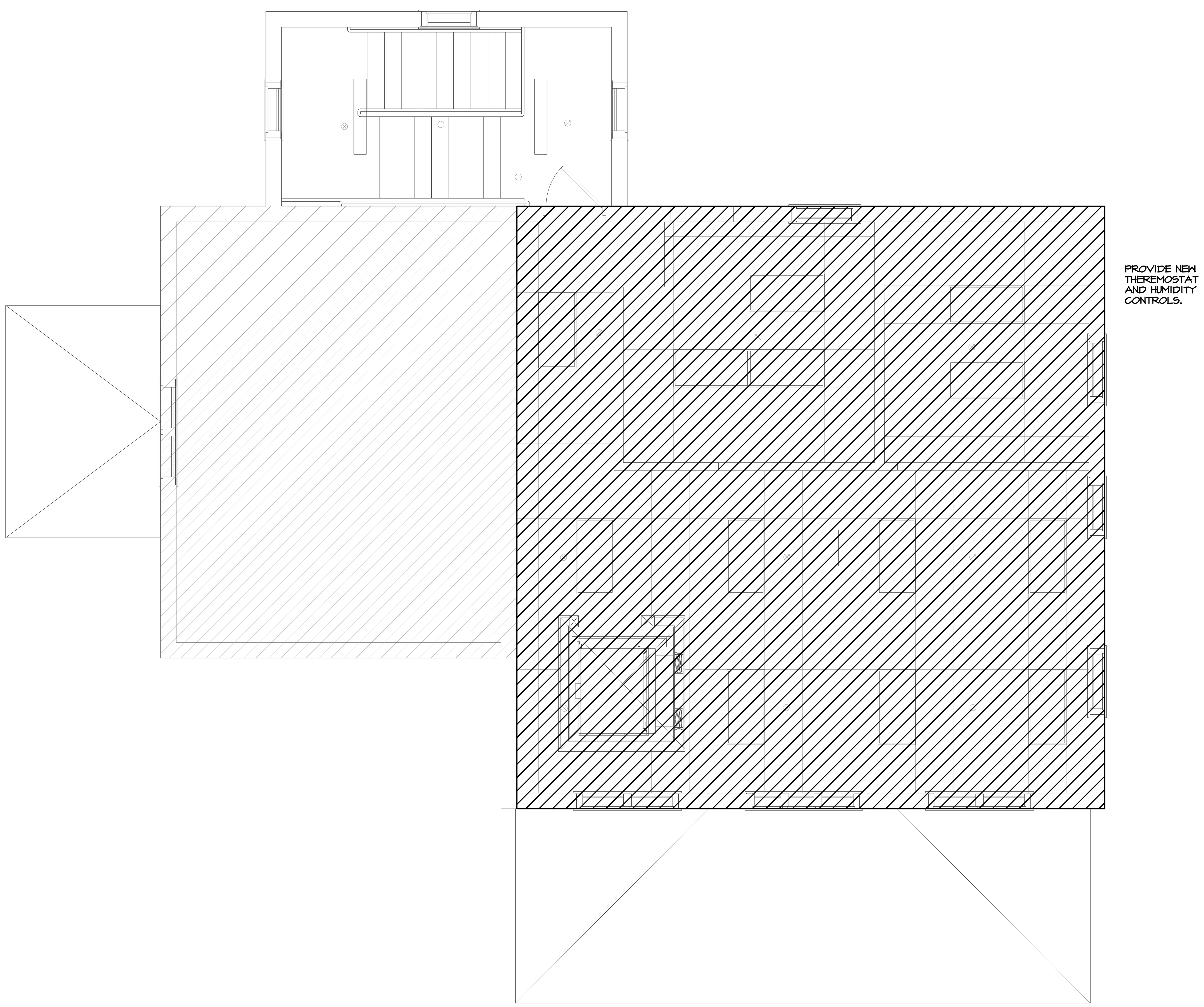

1 MECHANICAL SECOND FLOOR NEW WORK PLAN

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MECH. NEW WORK PLAN 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 WEIGHT (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	2½" V 2½" 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.

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 CONRACTOR 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	1
B	"HART & COOLEY" #421	SUPPLY	STEEL 2-WAY FLOOR REGISTER	1
C	"HART & COOLEY" #650	RETURN/ EXHAUST	STEEL CEILING RETURN AIR GRILLE	1
D	TITUS OMNI	SUPPLY	SQUARE ADJUSTABLE PLAQUE FACE CEILING DIFFUSER, OPPOSED BLADE DAMPER, BORDER TYPE 1, INSULATED BLANKET	1

1

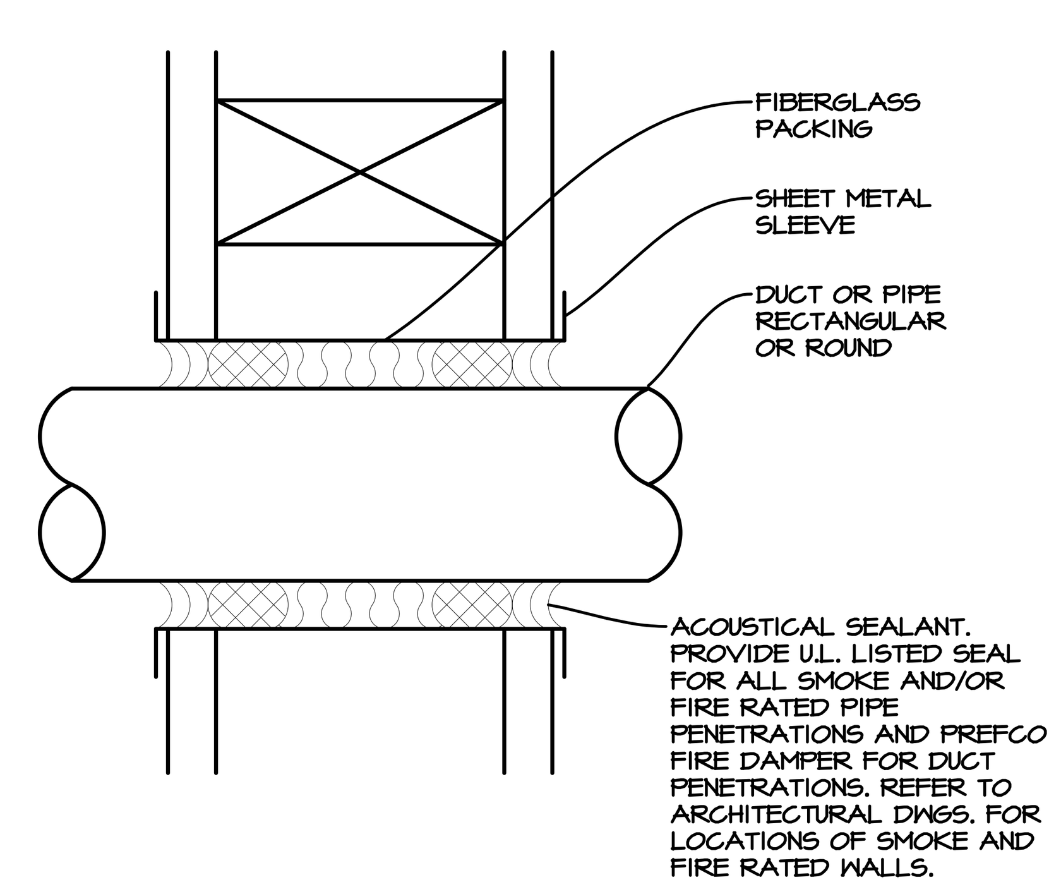
REMARKS:

1. COORDINATE COLOR AND FINISH WITH ARCHITECTURAL PLANS.

MECHANICAL GENERAL NOTES

1. 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.
2. 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 795
   CLOTHES DRYERS - ANSI Z21.5.1 OR ANSI Z21.5.2
   DUCT FURNACES - ANSI Z83.9 OR UL 795
   DIRECT FIRED MAKE-UP AIR HEATERS - ANSI Z83.4
   FORCED WARM AIR FURNACES - ANSI Z21.47 OR UL 795
   INFRARED RADIANT HEATERS - ANSI Z83.6
   UNIT HEATERS - Z83.8
   WATER HEATERS - ANSI Z21.10.1 AND ANSI Z21.10.3
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 NOT 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.
4. 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.
5. 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.
6. ALL DIRECT VENT APPLIANCES SHOWN SHALL BE INSTALLED IN ACCORDANCE WITH THEIR LISTING AND PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS. ALL TERMINATIONS MUST BE IN ACCORDANCE WITH SECTION 503.8 OF THE INTERNATIONAL FUEL GAS CODE.
7. 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 Z21.69 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.
8. 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.



DUCT OR PIPE THRU DETAIL - INTERIOR WALL SLEEVE

SCALE: NONE

MECHANICAL SPECIFICATIONS

1. 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.
2. THIS CONTRACTOR SHALL FURNISH AND INSTALL MATERIAL INDICATED ON DRAWINGS AND AS REQUIRED TO PROVIDE A COMPLETE AND SATISFACTORY OPERATING INSTALLATION.
3. 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.
4. 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.
5. 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:
   A. RUBBISH REMOVAL.
   B. COMPLIANCE WITH THE OWNER'S REQUIREMENTS.
   C. OBTAINING AND PAYING FOR REQUIRED LICENSES AND PERMITS.
   D. REPLACEMENT OF DAMAGED SYSTEM EQUIPMENT, AND/OR BUILDING DUE TO NEW INSTALLATIONS.
   E. COMPLIANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES.
   F. WORKMAN'S COMPENSATION INSURANCE, PUBLIC LIABILITY INSURANCE.
6. 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.
7. NEW DUCTWORK AND PIPING SHALL RUN IN STRAIGHT LINES PARALLEL AND/OR PERPENDICULAR TO THE BUILDING CONSTRUCTION, AS HIGH AS POSSIBLE.
8. 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.
9. ALL MATERIAL, WORKMANSHIP AND EQUIPMENT SHALL BE GUARANTEED FOR ONE YEAR AFTER SYSTEM ACCEPTANCE. PROVIDE TYPEWRITTEN OPERATING INSTRUCTIONS, AND EQUIPMENT WARRANTIES.
10. 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 SPACING 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.
11. 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.
12. 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".
13. ALL DUCTWORK SHALL BE INSULATED AS FOLLOWS UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS. 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. ALL DUCTWORK LOCATED WITHIN A SPACE THAT DOES NOT DIRECTLY COMMUNICATE WITH THE OUTDOORS, AND IS WITHIN THE BUILDING ENVELOPE SHALL BE CONSIDERED TO BE WITHIN A CONDITIONED SPACE.

   CONDITIONED SPACES (INCLUDING DUCT IN PLENUM RETURN CEILING)
   RECTANGULAR: GLASS FIBER LINING WITH R-4 INSTALLED VALUE
   ROUND: FOIL FACED DUCT WRAP WITH R-4 INSTALLED VALUE

   *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 "CERTAINTEED" COMMERCIAL BOARD WITH WEATHER PROOF ALUMINUM JACKET WRAP SIMILAR TO "VENTURE CLAD" #1577CW
14. ALL DUCTWORK DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.
15. 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.
16. THE EQUIPMENT SPECIFIED TO SET STANDARDS, INTENTION IS "OR EQUAL" IF APPROVED PRIOR TO BID DUE DATE.
17. 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.
18. 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.
19. 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.
20. 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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DEMOLITION LEGEND

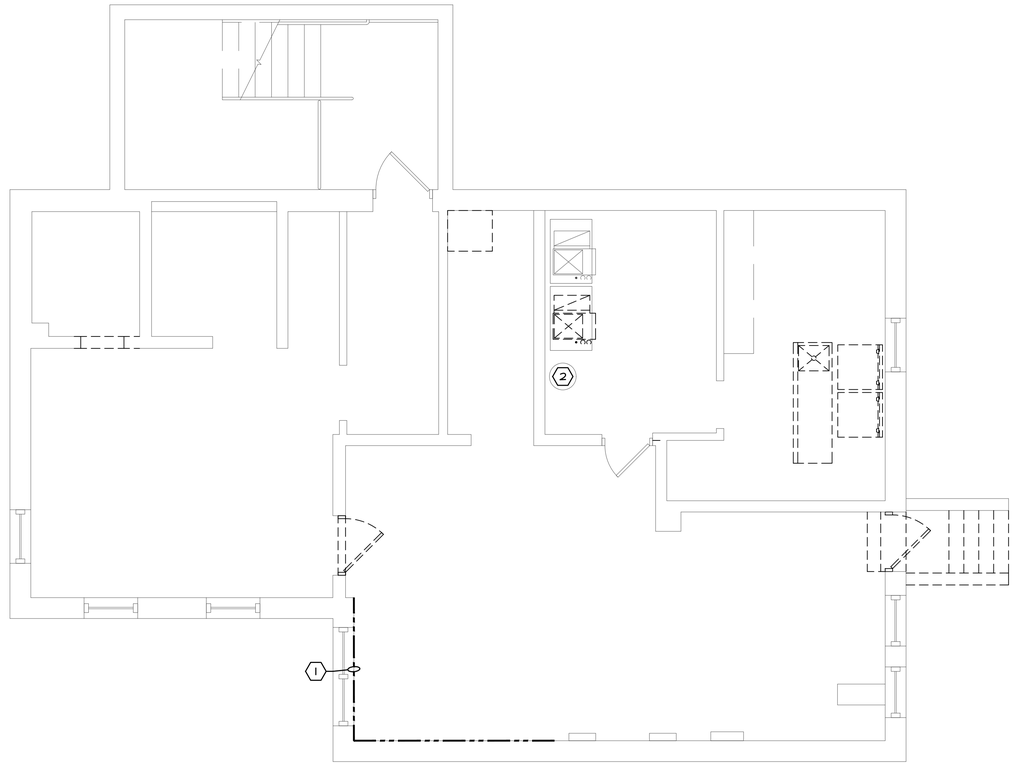
E - EXISTING TO REMAIN
X - EXISTING TO BE REMOVED
XR - EXISTING TO BE RELOCATED
XRN - EXISTING, RELOCATED TO NEW LOCATION
XN - EXISTING DEVICE REPLACED WITH NEW
XM - EXISTING DEVICE REWIRED WITH NEW CIRCUIT
XN/M - EXISTING DEVICE REPLACED WITH NEW, REWIRED TO NEW CIRCUIT

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. ALONG NOTED WALL SHALL BE COMPLETELY REMOVED BACK TO SOURCE.
2. POWER FOR EXISTING WATER HEATER SHALL BE COMPLETELY REMOVED BACK TO SOURCE.



1 ELECTRICAL DEMOLITION PLAN - BASMENT

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

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sheet title: ELEC. DEMO PLAN BASEMENT

sheet number: ED1.1

DEMOLITION LEGEND

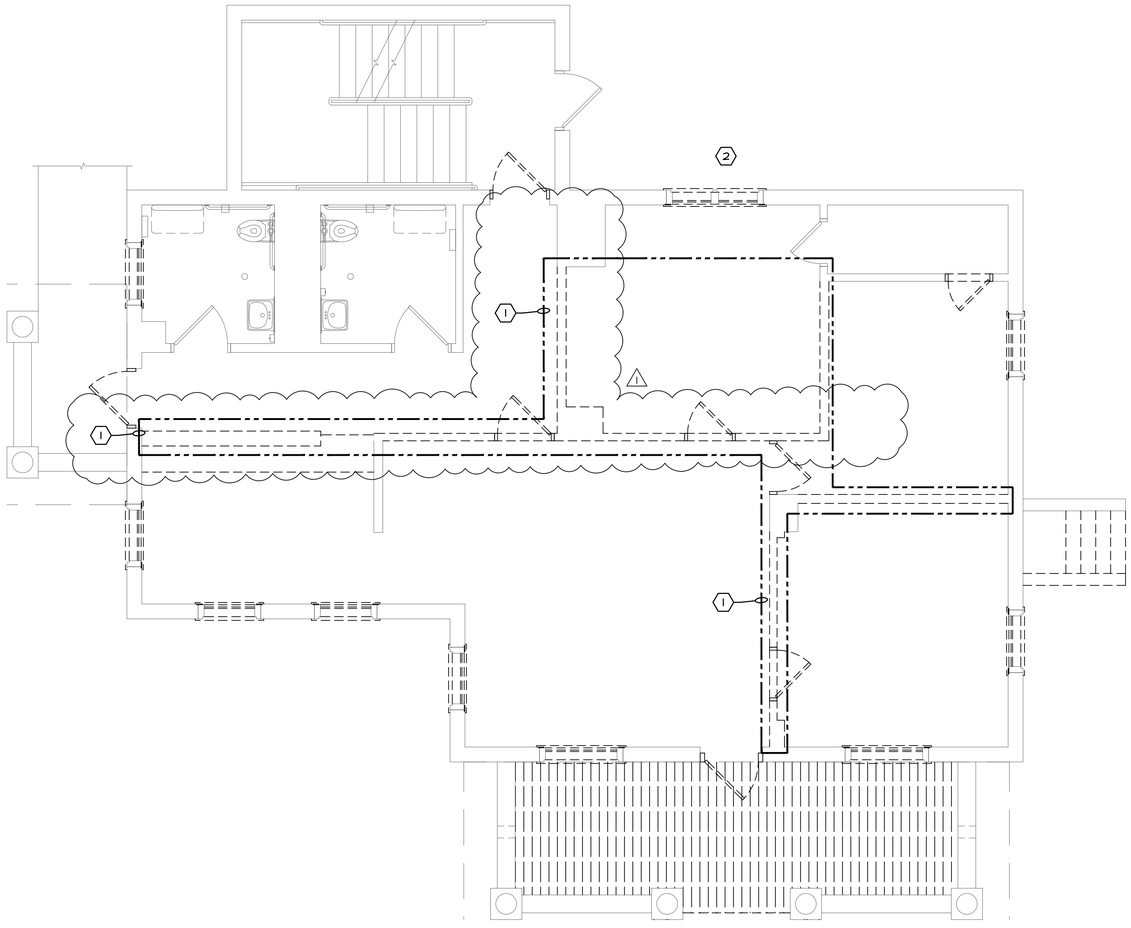
E - EXISTING TO REMAIN
X - EXISTING TO BE REMOVED
XR - EXISTING TO BE RELOCATED
XRN - EXISTING, RELOCATED TO NEW LOCATION
XN - EXISTING DEVICE REPLACED WITH NEW
XM - EXISTING DEVICE REWIRED WITH NEW CIRCUIT
XN/M - EXISTING DEVICE REPLACED WITH NEW, REWIRED TO NEW CIRCUIT

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.



1 ELECTRICAL DEMOLITION PLAN - 1ST LEVEL

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

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project no.	D2100051
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drawn:	WO, CS, KT

sheet title:
ELEC. DEMO PLAN
1ST LEVEL

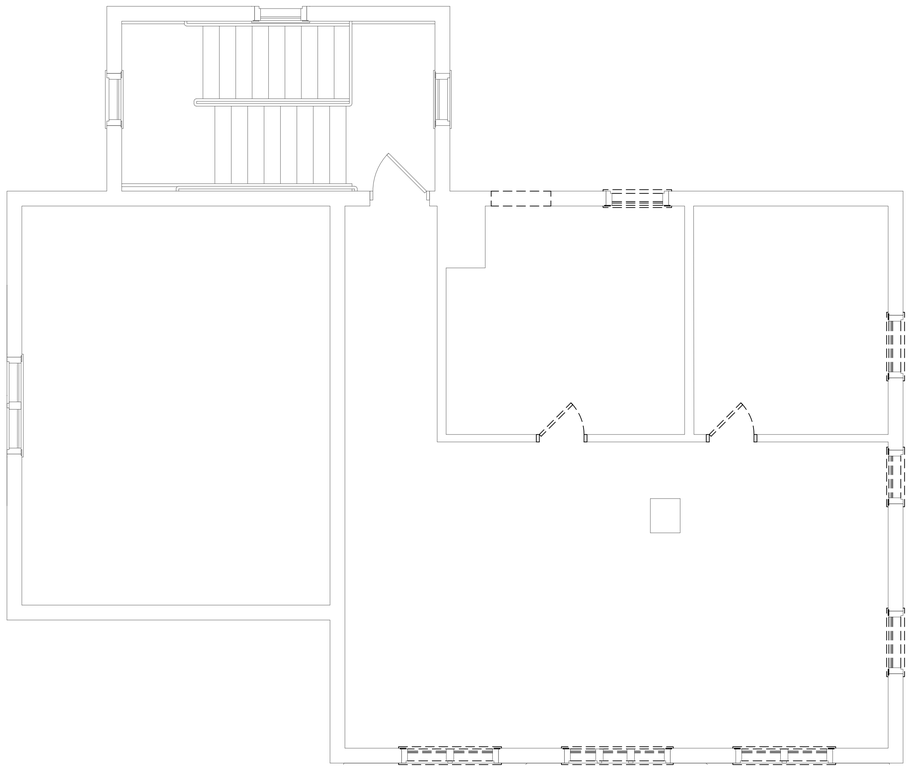
sheet number:
ED1.2

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
XM - EXISTING DEVICE REWIRED WITH NEW CIRCUIT
XN/M - 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 ELECTRICAL DEMOLITION PLAN - 2ND LEVEL
SCALE: 1/4" = 1'-0"

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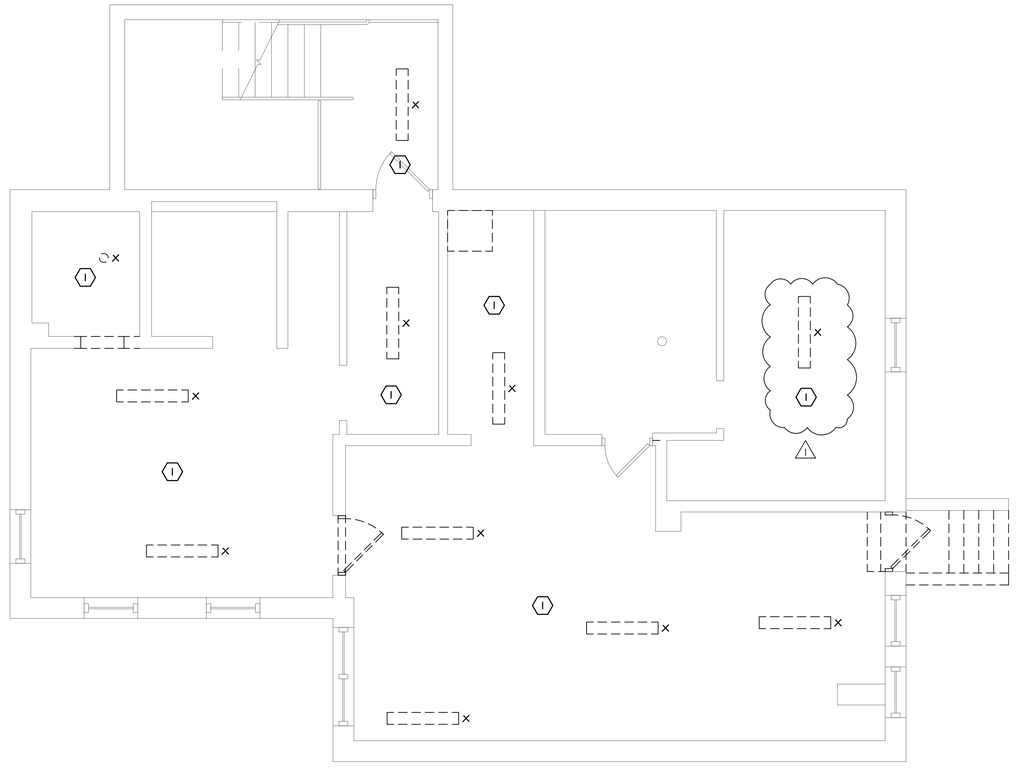
sheet title: ELEC. DEMO PLAN 2ND LEVEL

sheet number: ED1.3



1 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
XA - EXISTING DEVICE REWIRED WITH NEW CIRCUIT
XN/A - 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.

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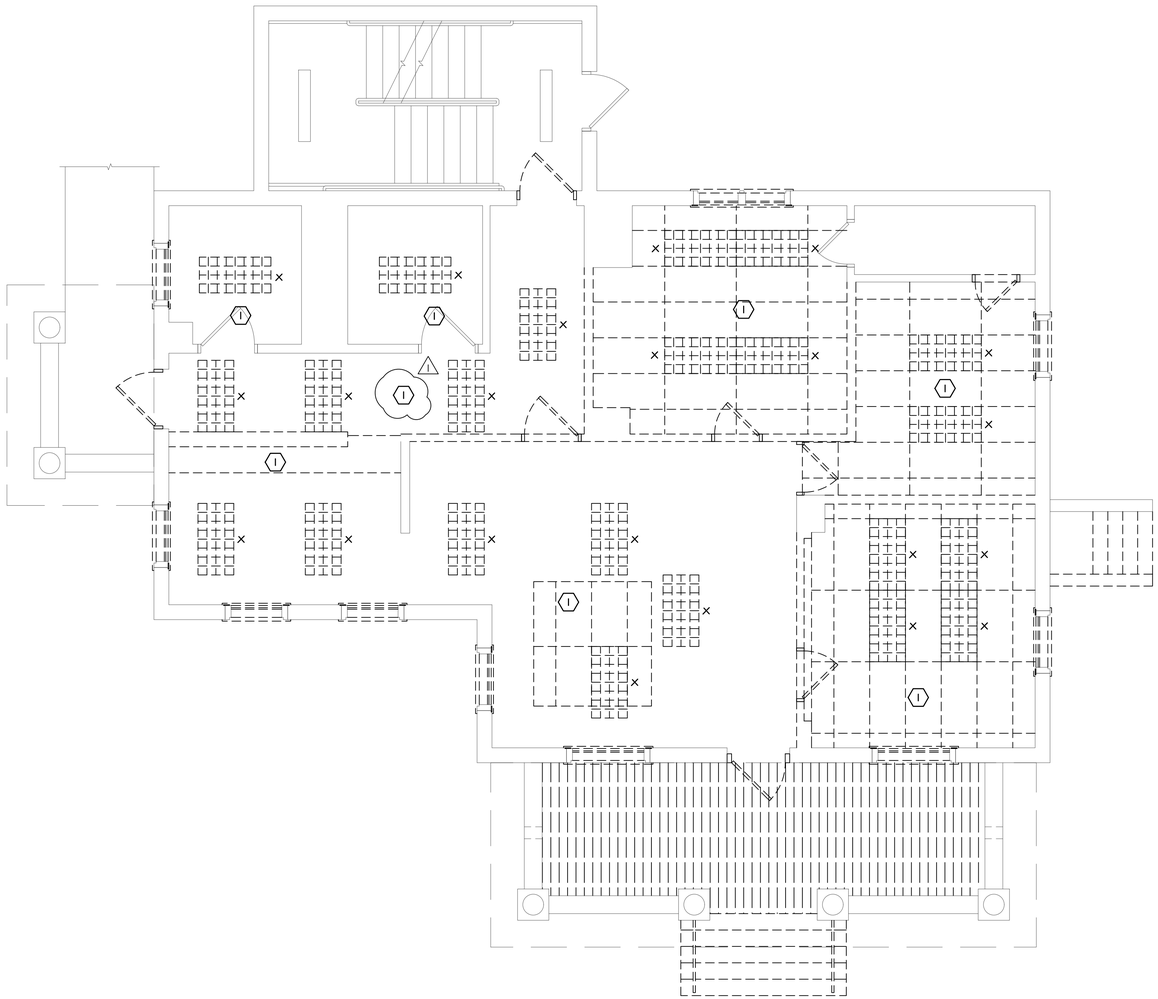
sheet title: ELEC. DEMO PLAN BASEMENT

sheet number: ED2.1



1 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
XM - EXISTING DEVICE REWIRED WITH NEW CIRCUIT
XN/M - 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.

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ELEC. DEMO PLAN
1ST LEVEL

sheet number:
ED2.2

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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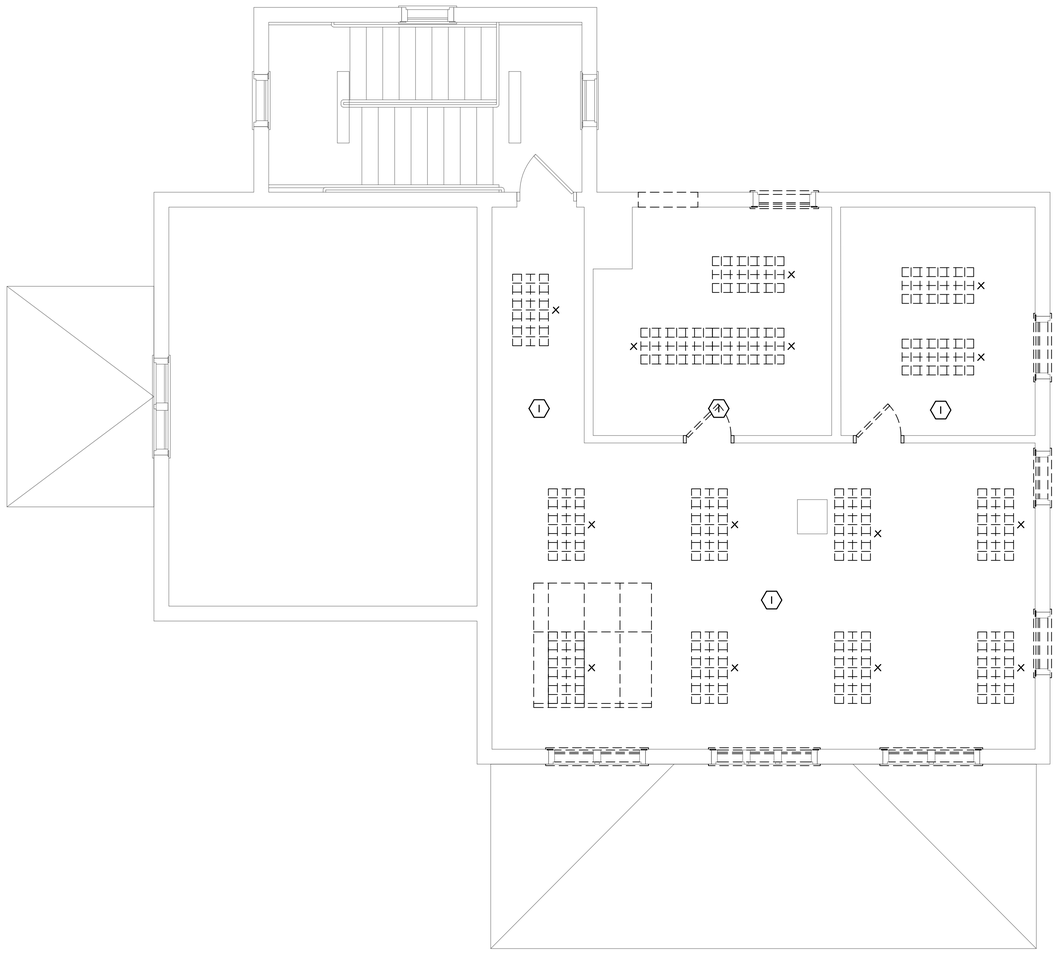
XM - EXISTING DEVICE REWIRED WITH NEW CIRCUIT
XN/M - EXISTING DEVICE REPLACED WITH NEW, REWIRED TO NEW CIRCUIT

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.



1 ELECTRICAL DEMOLITION PLAN - 2ND LEVEL

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

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ELEC. DEMO PLAN
2ND LEVEL

sheet number:
ED2.3

FIRE ALARM NOTES

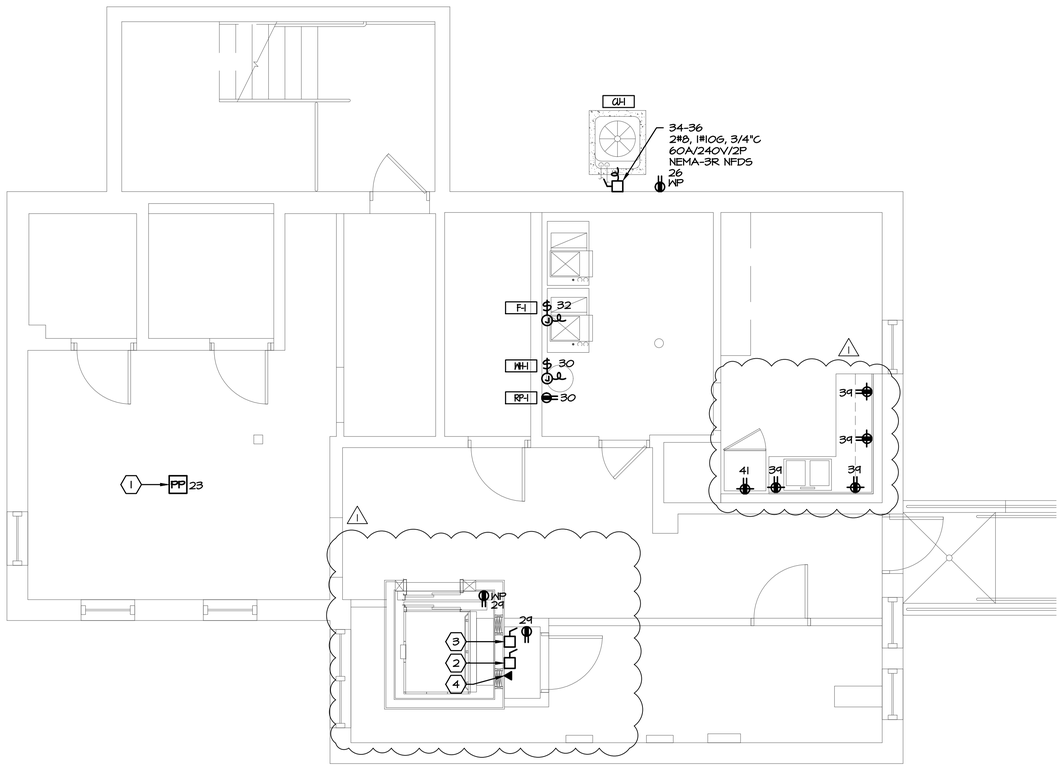
1. PROVIDE ALL ALARM DEVICES, NOTIFICATION DEVICES, PANELS, ETC. REQUIRED BY LOCAL CODES. PROVIDE NETWORK/TERMINATION PANELS AS REQUIRED.
2. PROVIDE COMPLETE FIRE ALARM PERMIT AND CONSTRUCTION DOCUMENTS. SUBMIT DOCUMENTS TO PERMITTING AUTHORITY AND RE-SUBMIT BASED ON COMMENTS. OBTAIN AGENCY APPROVAL 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
XRN - EXISTING, RELOCATED TO NEW LOCATION
XN - EXISTING DEVICE REPLACED WITH NEW
XM - EXISTING DEVICE REWIRED WITH NEW CIRCUIT
XN/M - EXISTING DEVICE REPLACED WITH NEW, REWIRED TO NEW CIRCUIT

(#) KEYED NOTES

1. NEW 2 CHANNEL POWER POLE FOR OFFICE POWER/ DATA. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION.
2. ELEVATOR CAR LIGHTING DISCONNECT SWITCH; 30A/240V/2P. NEMA-1 FDS @ 15A WITH SHUNT TRIP AND AUXILIARY CONTACT CAPABILITIES. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ELEVATOR SUPPLIER PRIOR TO START OF WORK. PROVIDE NEW 15A/1P C/B WITHIN ADJACENT ELECTRICAL PANEL.
3. ELEVATOR POWER DISCONNECT SWITCH; 30A/240V/3P, NEMA-1 FDS @ 20A WITH SHUNT TRIP AND AUXILIARY CONTACT CAPABILITIES. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ELEVATOR SUPPLIER PRIOR TO START OF WORK. PROVIDE NEW 20A/3P C/B WITHIN ADJACENT ELECTRICAL PANEL. ELECTRICAL CONTRACTOR SHALL VERIFY LOAD ON EXISTING ADJACENT PANELS PRIOR TO INSTALLATION OF ELEVATOR CIRCUIT BREAKER. 4#10, 1#10G, 3/4"C.
4. TELEPHONE CONNECTION FOR ELEVATOR; COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ELEVATOR SUPPLIER PRIOR TO START OF WORK.



1 ELECTRICAL POWER PLAN - BASMENT

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

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650 WEST HIGGINS ROAD
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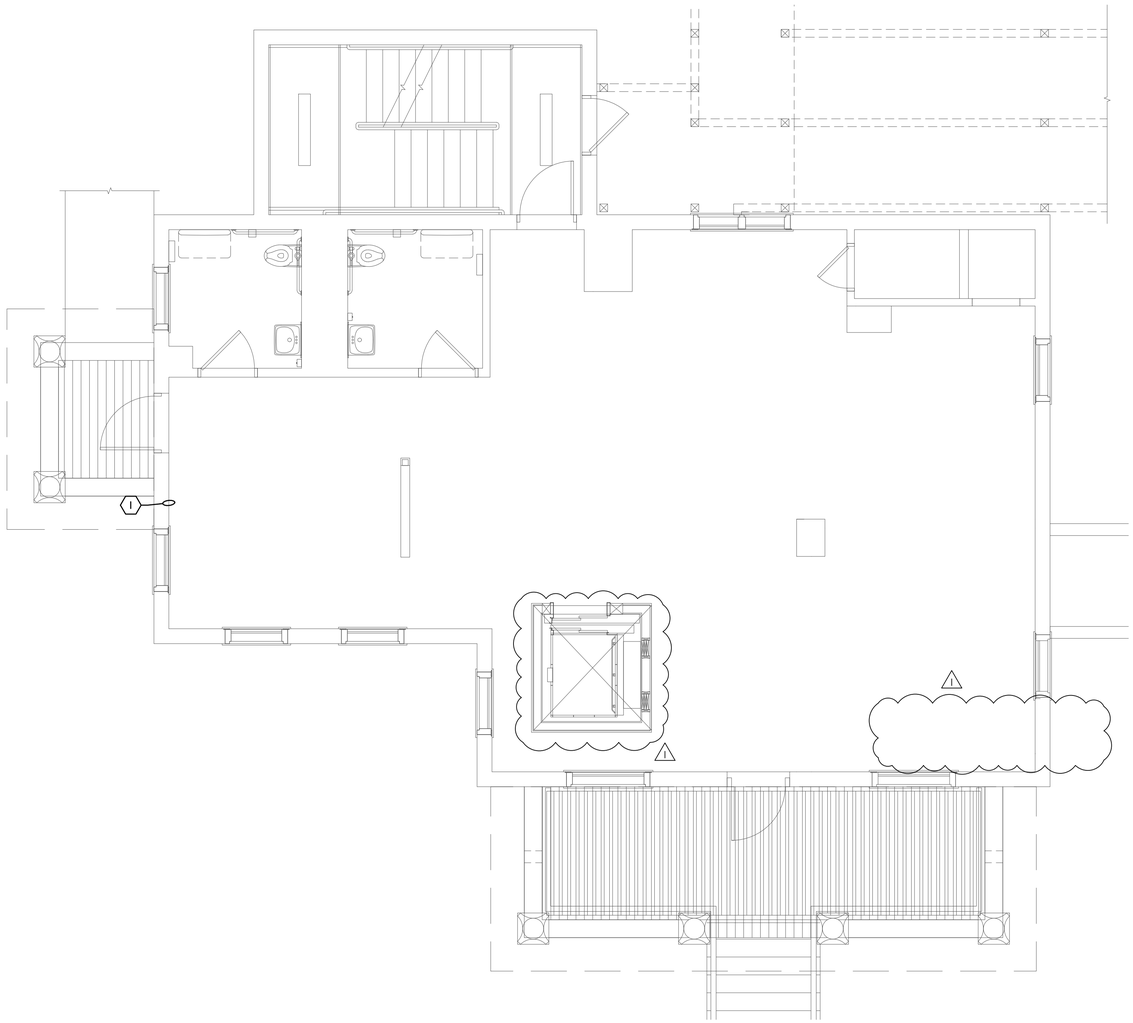

FIRE ALARM NOTES

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
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XM - EXISTING DEVICE REWIRED WITH NEW CIRCUIT
XN/M - 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.

1 ELECTRICAL POWER PLAN - 1ST LEVEL

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

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drawn:	WO, CS, WT

sheet title: 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

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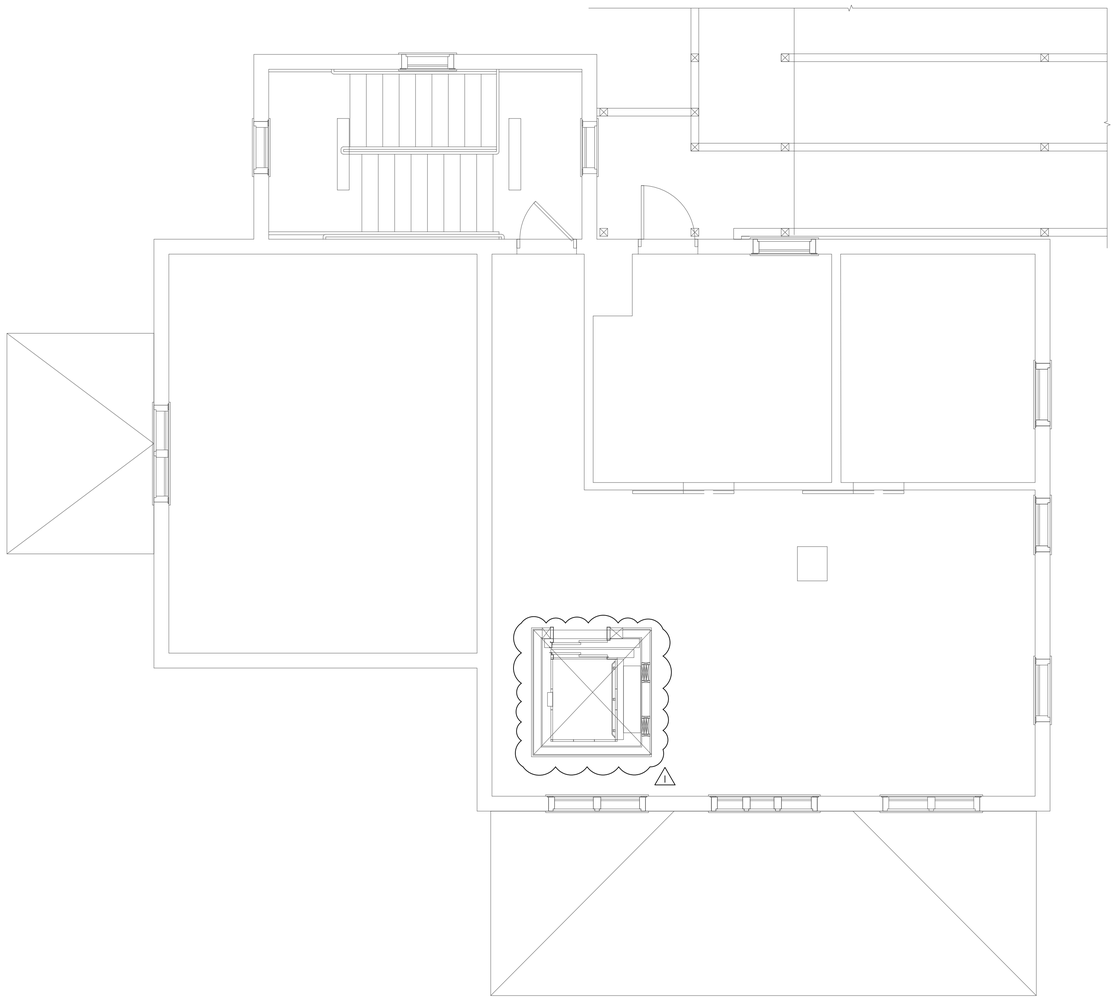

1 ELECTRICAL POWER PLAN - 2ND LEVEL
SCALE: 1/4" = 1'-0"

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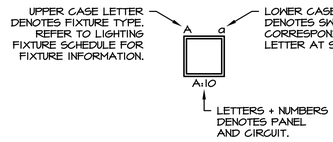
sheet number: E1.3

LIGHTING LEGEND



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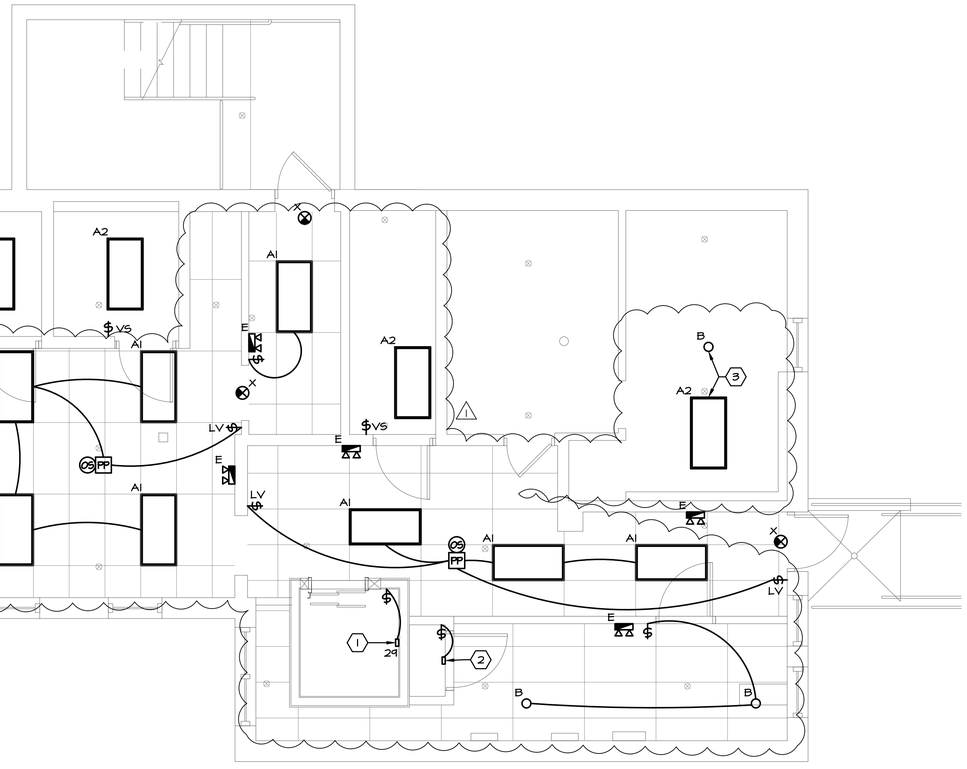
XM - EXISTING DEVICE REWIRED WITH NEW CIRCUIT
XN/M - EXISTING DEVICE REPLACED WITH NEW, REWIRED TO NEW CIRCUIT

GENERAL NOTES

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

KEYED NOTES

1. ELEVATOR SHAFT LIGHT; PROVIDE TWO (2) LEVITON #000-09850-LED FIXTURES, ONE (1) AT BOTTOM OF SHAFT AND ONE (1) AT TOP OF SHAFT.
2. PROVIDE ONE (1) NEW LEVITON #000-09850-LED LIGHTING FIXTURE WITHIN ELEVATOR MACHINE ROOM.
3. NEW LIGHTING FIXTURE SHALL BE CONNECTED TO EXISTING LOCAL LIGHTING CIRCUIT AND CONTROLS.



1 ELECTRICAL LIGHTING PLAN - BASMENT

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

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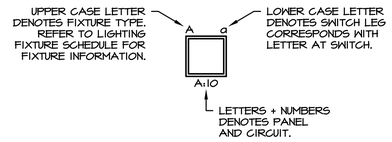
sheet number: E2.1

LIGHTING LEGEND



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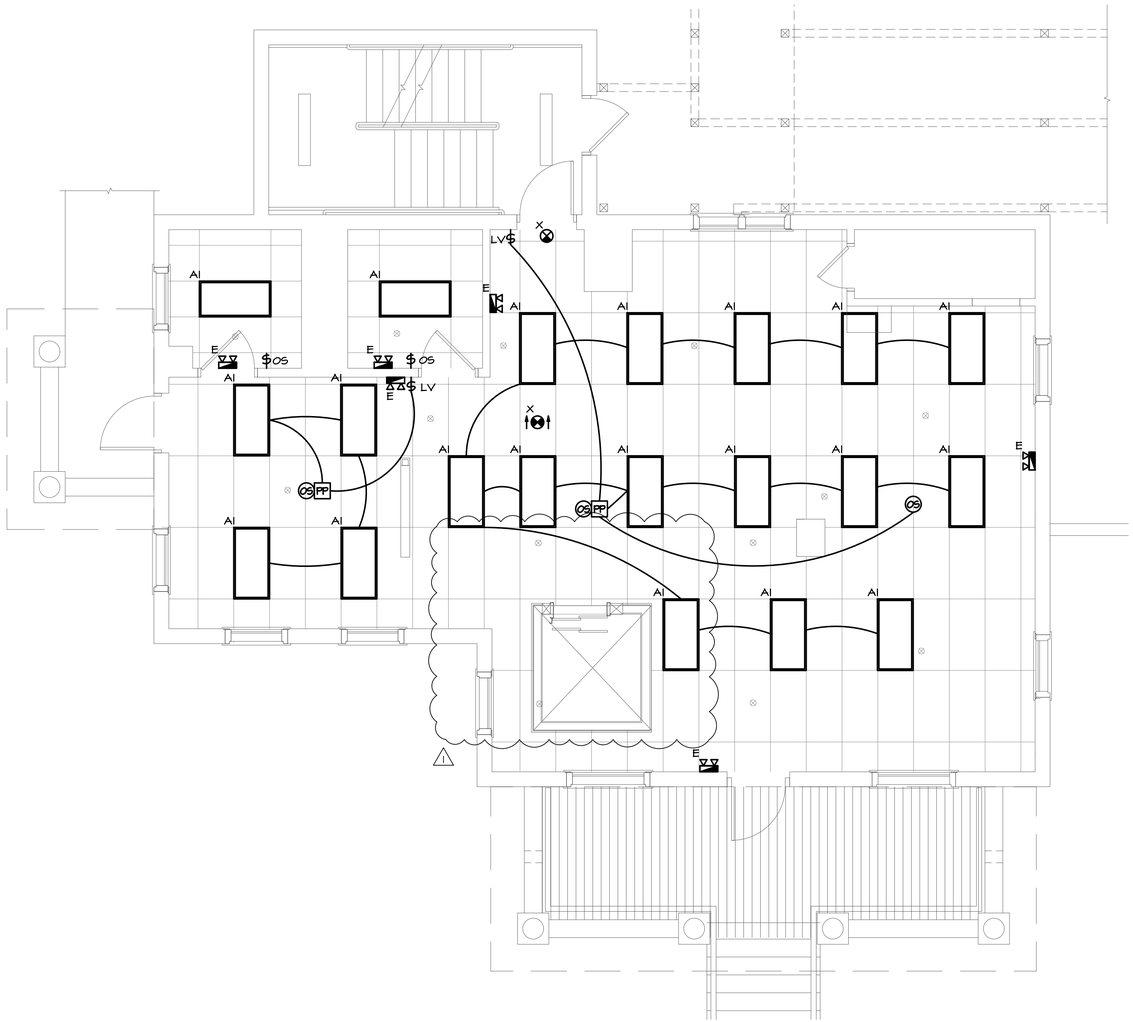
GENERAL NOTES

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



1 ELECTRICAL LIGHTING PLAN - 1ST LEVEL
SCALE: 1/4" = 1'-0"

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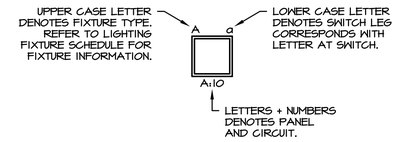
sheet title:
ELEC. LTG. PLAN
1ST LEVEL

sheet number:
E2.2

LIGHTING LEGEND



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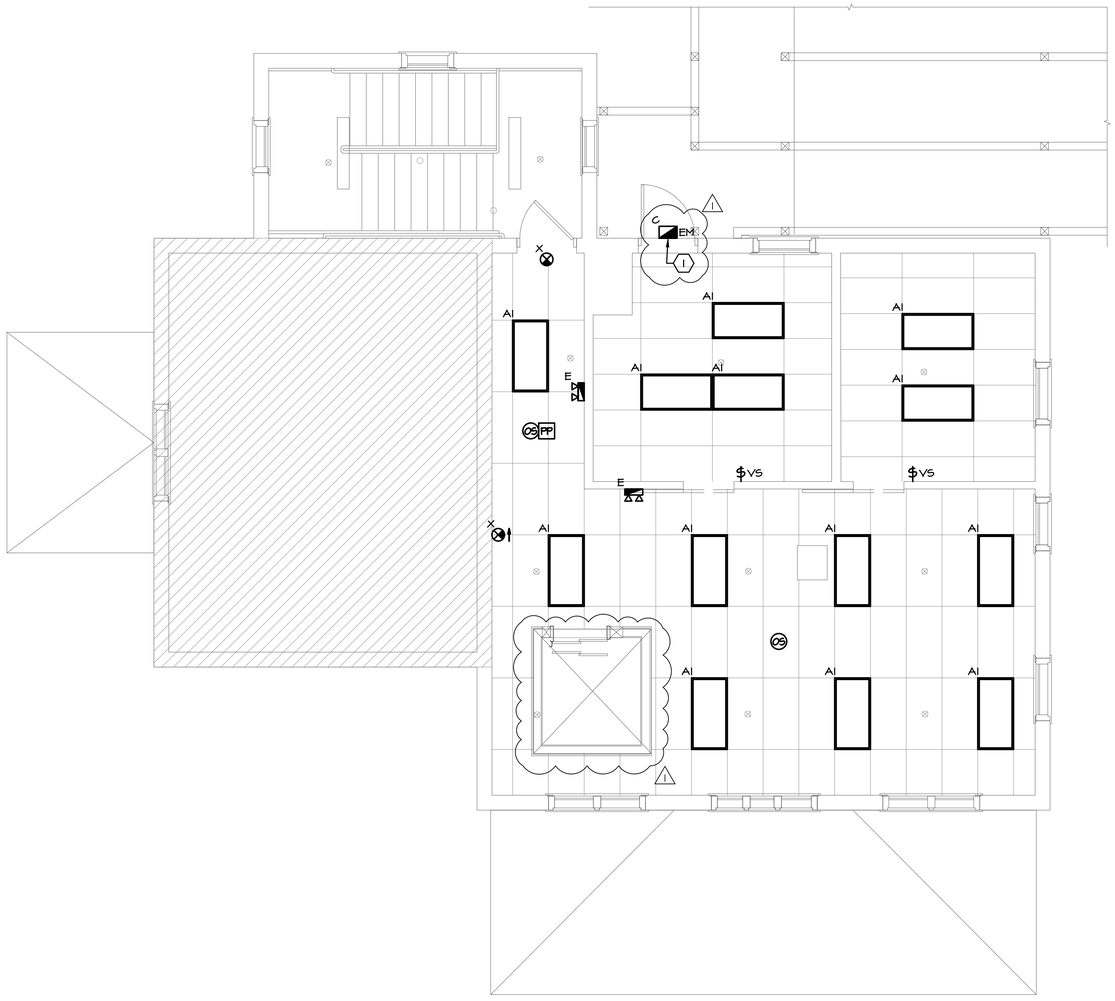
GENERAL NOTES

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

KEYED NOTES

1. EXTERIOR LIGHTING FIXTURE SHALL BE CONNECTED TO EXISTING ADJACENT LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.



1 ELECTRICAL LIGHTING PLAN - 2ND LEVEL
SCALE: 1/4" = 1'-0"

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LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION & FEATURES	LAMPS QUANTITY/TYPE	MOUNTING CLG./POLE-TYPE	VOLT	SPECIFIED MANUFACTURER AND CATALOG NUMBER
A1	2X4 TROFFER	32W LED	RECESSED/CEILING	120	LITHONIA #2BLT4 40L ADP EZI LP835
A2	2X4 TROFFER	32W LED	RECESSED/CEILING	120	LITHONIA #2BLT4 40L ADP EZI LP835
	W/ DRYWALL GRID ADAPTER				W/ #DGA24
B	6" DOWNLIGHT	30W LED	RECESSED/CEILING	120	GOTHAM #EV06 35/30 AR MD LSS MVOLT
					GZ10
C	EXTERIOR WALL SCONCE W/ INTEGRAL	30W LED	SURFACE/WALL	120	LITHONIA #ARC2 LED P4 40K MVOLT E82MG
	PHOTOCELL AND EM BATTERY BACK-UP				PE DDBXD
	EMERGENCY LIGHT	LED	HIGH WALL	120	LITHONIA #ELM2L
E	WITH BATTERY BACK-UP				
	EMERGENCY EXIT SIGN	LED	HIGH WALL	120	LITHONIA #LQM S 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 (G)
11. EMERGENCY LIGHTING TO BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.

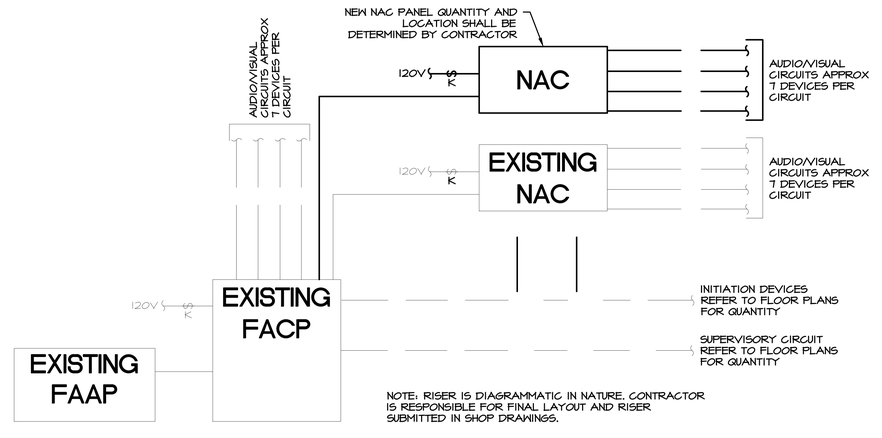
PANEL EXISTING PANEL '1-LP-1' VOLTS 120/208V PHASE 3PH/4W
AMPS 100A MAIN 100A/3P MCB A.I.C. 10,000
LOCATION BASEMENT ELECTRICAL ROOM MOUNTING SURFACE

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	20	ELEVATOR LIGHTS / RECEPTACLE	0.20	0.50	WATER HEATER/ RECIRC PUMP	20	1	30
31			HEATER 1ST FLOOR		0.50	FURNACE 'F-1'	20	1	32 *
33	1	20	HEATER 2ND FLOOR		5.45	CONDENSING UNIT 'CU-1'	40	2	34 *
35	2	30	DRYER						36
37						SECURITY	20	1	38
39	1	20	BASEMENT KITCHEN RECEPTACLES	1.50		BATTERY PACKS	20	1	40
41	1	20	BASEMENT KITCHEN REFRIGERATOR	1.00		BACK BASEMENT LIGHTING	20	1	42

NOTES:

1. ALL C/B'S SERVING HVAC EQUIPMENT SHALL BE HACR RATED.
2. ALL C/B'S SERVING EM/NL 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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FIRE ALARM SYMBOLS

FACP	ADDRESSABLE FIRE ALARM CONTROL PANEL WITH REMOTE 24 HOUR TELEPHONE MONITORING
FAAP	FIRE ALARM ANNUNCIATOR PANEL
S	FIRE ALARM SYSTEM DUAL ACTION PULL STATION (+48"AFF, MOUNT WITHIN 5 FT. OF DOOR)
AV	FIRE ALARM SYSTEM HORN & STROBE LIGHT (AUDIO-VISUAL ALARM, +80"AFF, CANDELA RATING BY OTHERS)
V	VISUAL STROBE LIGHT (+80"AFF, CANDELA RATING BY OTHERS)
AV	FIRE ALARM SYSTEM HORN & STROBE LIGHT (AUDIO-VISUAL ALARM, CEILING, CANDELA RATING BY OTHERS)
V	VISUAL STROBE LIGHT (CEILING, CANDELA RATING BY OTHERS)
SD	SMOKE DETECTOR, MINIMUM 3FT. FROM SUPPLY VENT
D	HEAT DETECTOR, 135° DEGREE FIXED TEMP/RATE OF RISE
DD	HVAC DUCT TYPE SMOKE DETECTOR
RTS	REMOTE INDICATING LIGHT WITH KEY-OPERATED TEST SWITCH. VERIFY LOCATION OF LIGHT AND KEY SWITCH WITH INSPECTOR.
R	FAN SHUT DOWN RELAY
K	KNOX BOX (WEATHER PROOF)
NAC	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.

ABBREVIATIONS

A, AMP - AMPERES	WH - ELECTRIC WATER HEATER	N/A - NOT APPLICABLE
AFF - ABOVE FINISHED FLOOR	FDS - FUSED DISCONNECT SWITCH	NEC - NATIONAL ELECTRICAL CODE
AFG - 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 GUAGE	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
EWC - ELECTRIC WATER COOLER	MLO - MAIN LUGS ONLY	
EWH - ELECTRIC WALL HEATER	MTD - MOUNTED	

ELECTRICAL SYMBOLS

- A / 2a — 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
- $a — SINGLE POLE TOGGLE SWITCH, 48"AFF, SUBSCRIPT LETTER DENOTES SWITCH LEG, 20 AMP, 120 VOLT
- $3 — THREE WAY TOGGLE SWITCH, 48"AFF, 20AMP, 120 VOLT
- $4 — FOUR WAY TOGGLE SWITCH, 48"AFF, 20AMP, 120 VOLT
- $T — MANUAL SINGLE PHASE MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION. 48"AFF UNLESS INDICATED OTHERWISE
- $D — DIMMER SWITCH, 48"AFF
- $FS — FAN SPEED SWITCH, 48"AFF
- $VS — WALL MOUNTED VACANCY SENSOR SWITCH "MANUAL ON / AUTO OFF" 48"AFF
- $OS — WALL MOUNTED OCCUPANCY SENSOR SWITCH "AUTO ON / AUTO OFF" 48"AFF
- $LV — LOW VOLTAGE MOMENTARY CONTACT SWITCH, 48"AFF
- $LVD — LOW VOLTAGE MOMENTARY CONTACT DIMMER SWITCH, 48"AFF
- $P — SWITCH FURNISHED WITH PILOT LIGHT.
- $K — KEY LOCK SWITCH, 48"AFF
- N — NON-FUSED DISCONNECT SWITCH (NFDS) RATED AS INDICATED
- F — 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 BACKSPLASH
- 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
- PE — 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.
- J — 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 — TV OUTLET, WITH 3/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING.
- OS — CEILING MOUNTED OCCUPANCY SENSOR "AUTO ON / AUTO OFF"
- VS — CEILING MOUNTED VACANCY SENSOR "MANUAL ON / AUTO OFF"
- DS — CEILING MOUNTED DAYLIGHT SENSOR
- PP — LIGHTING POWER PACK
- P — 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 THHN OR THWN SIZES #12 THROUGH #10. SIZES #8 THROUGH 750 KCMIL SHALL BE STRANDED TYPE THHN OR THWN 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 U/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, AMPACITY 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 THWN OR XHHW.

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 277 VOLT 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).

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