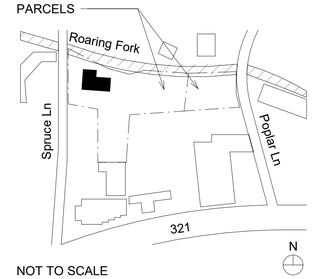
STREET VIEW, NOT TO SCALE

Reviewed for Compliance
By:
Josh McKinney
Building Official
05/04/2023

APPROVED FOR A BUILDING PERMIT
Approval of the submitted documents does not relieve the owner, designer, or contractor from their individual or collective responsibility to comply with the applicable provisions of the International Building or Residential Code. The issuance of a permit shall not prevent the building official from requiring the correction of errors in the construction documents and is not to be construed as an approval of any violations of the provisions of the code or of any other ordinances of this jurisdiction.

LOCATION MAP:

PARCELS



NOT TO SCALE

SUMMARY OF WORK:

THIS PROJECT SCOPE INCLUDES THE INTERIOR RENOVATION FOR A RESTAURANT, ADDED ACCESSIBLE ENTRANCE, RESTROOMS, SITE CIRCULATION AND PARKING.

PROJECT INFORMATION:

1. ZONING DISTRICT CLASSIFICATION: C-2
2. PARCEL INFORMATION: 126L B 008.00 & 126L B 005.00
3. ACREAGE OF PROPERTY: 2.03 ACRES
4. EXISTING GROSS INTERIOR FLOOR AREA: 900 SF
5. PROPOSED GROSS INTERIOR FLOOR AREA: 2,642 SF
6. FAR: 0.029
7. PROPOSED OCCUPANCY CLASSIFICATION: A-2 (IBC 2018, SECTION 303.3)
8. CONSTRUCTION TYPE: TYPE V-B (IBC 2018, TABLE 601)
9. FIRE-RATING: 0 (IBC 2018, TABLE 601)
10. FIRE SEPARATION: 0 (IBC 2018, TABLE 602)

APPLICABLE CODES:

ADOPTED CODES - GATLINBURG CITY COMMISSION

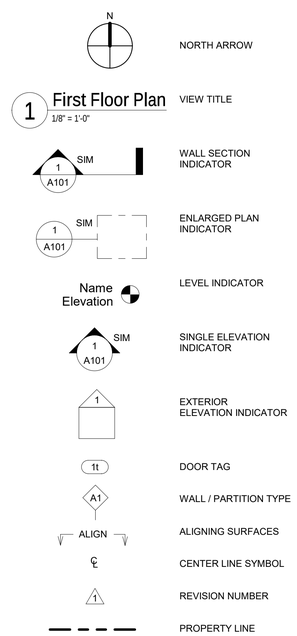
THE 2018 EDITION OF THE INTERNATIONAL FIRE CODE
THE 2018 EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NEPA 101) LIFE SAFETY CODE
THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE
THE 2018 EDITION OF THE INTERNATIONAL PLUMBING CODE
THE 2018 EDITION OF THE INTERNATIONAL FUEL GAS CODE
THE 2018 EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE
THE 2018 EDITION OF THE INTERNATIONAL MECHANICAL CODE
THE 2018 EDITION OF THE INTERNATIONAL PROPERTY MAINTENANCE CODE
THE 2018 EDITION OF THE EXISTING BUILDING CODE
2009 ICC / ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

DRAWING LIST:

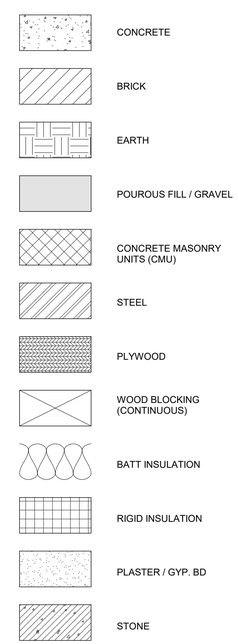
DRAWING LIST

Sheet Number	Sheet Name	Sheet Issue Date
A0.0	Cover Sheet	04/18/2023
A0.1	Life Safety Plan	04/18/2023
A0.2	Existing Site Plan	04/18/2023
A0.3	Proposed Site Plan	04/18/2023
A0.4	Erosion Control Plan	04/18/2023
A0.5	General Project Notes	04/18/2023
A1.1	Demolition Plan	04/18/2023
A1.2	Floor Plan	04/18/2023
A2.1	Existing Exterior Elevations	04/18/2023
A2.2	Existing Exterior Elevations	04/18/2023
A2.3	Exterior Elevations	04/18/2023
A2.4	Exterior Elevations	04/18/2023
A3.1	Exterior Wall Details	04/18/2023
A3.2	Door & Storefront Elevations	04/18/2023
A4.1	Accessibility Details	04/18/2023
A4.2	Stair & Ramp Details	04/18/2023
A4.3	Site Details	04/18/2023
E.1	Electrical Notes	11/30/2022
E.2	Power Floor Plan	11/30/2022
E.3	Lighting Floor Plan	11/30/2022
E.4	Roof Electrical Plan	11/30/2022
M-0.0	HVAC General Notes	11/30/2022
M-1.0	Mechanical Specifications	11/30/2022
M-2.0	HVAC Floor Plan Proposed	11/30/2022
M-3.0	HVAC Roof Plan	11/30/2022
M-4.0	Product Specifications	11/30/2022
M-5.0	Mechanical Details	11/30/2022
P-0.0	Plumbing General Notes	11/30/2022
P-1.0	Plumbing Site Plan	11/30/2022
P-2.0	Plumbing Floor Plan Proposed	11/30/2022
P-3.0	Plumbing Details	11/30/2022
P-4.0	Plumbing Specifications	11/30/2022

SYMBOLS LEGEND:



MATERIALS LEGEND:



GENERAL PROJECT NOTES:

1. COORDINATE WITH APPLICABLE DIMENSIONS AND DETAILS ON OTHER SHEETS.
2. COORDINATE WITH REQUIREMENTS OF OWNER SUPPLIED EQUIPMENT AS REQUIRED.
3. DIMENSIONS ARE TO FACE OF STUD OR OUTSIDE EDGE STRUCTURE.
4. THE CONTRACTOR SHALL LAYOUT ALL PARTITIONS AND VERIFY ACCEPTABILITY OF LAYOUT WITH OWNER PRIOR TO START OF THIS WORK.
5. DO NOT SCALE DRAWINGS, IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL OBTAIN WRITTEN CLARIFICATION FROM OWNER BEFORE CONTINUING WITH CONSTRUCTION

CLIENT INFORMATION:

GATLINBURG VITTALES, LLC
122 SPRUCE LN,
GATLINBURG, TN 37738
PHONE: 865-507-5897
EMAIL: LANCE@GCWORKSINC.COM

OWNER: BEVILLE REAGAN
REAGANS BROOKSIDE II LTD PARTNERSHIP
PHONE: 865-567-0828
ADDRESS: 121 SILVERBELL LN
GATLINBURG, TN 37738
CONTACT: BEVILLE REAGAN

ARCHITECT:

TWO OAKS ARCHITECTURE, LLC
1809 N. HILLS BLVD
KNOXVILLE, TN 37917
PHONE: 615-972-6179
EMAIL: TAYLOR@TWOOAKSARCH.COM
CONTACT: TAYLOR HEIM EISENHOWER

2204 | Spruce Lane

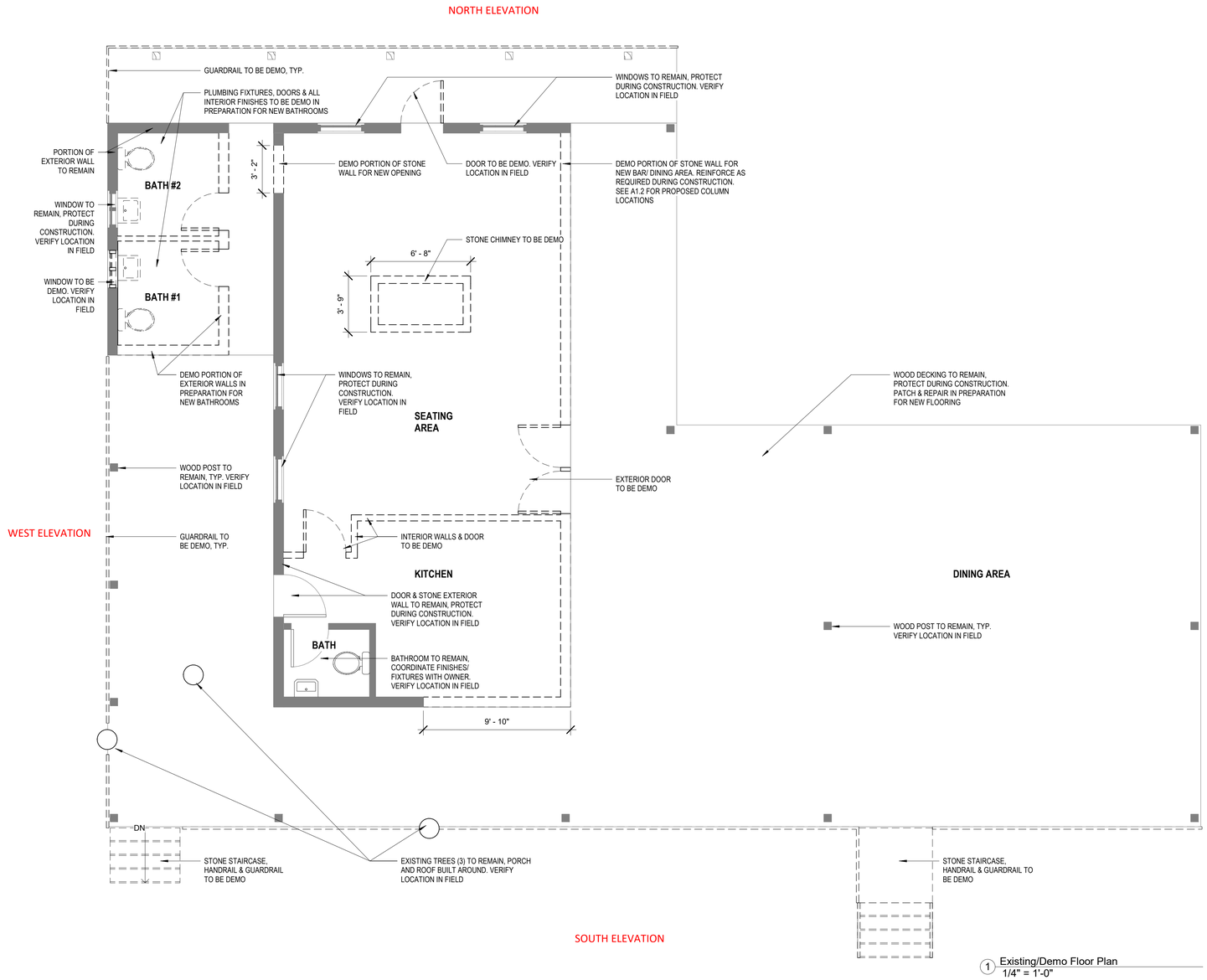
PERMIT SET 122 Spruce Lane | Gatlinburg, TN 37738

04/18/2023

two | oaks architecture + planning

Reviewed for Compliance
By:
Josh McKinney
Building Official
01/13/2023

Approval for Demo Permit



1 Existing/Demo Floor Plan
1/4" = 1'-0"

DEMOLITION GENERAL NOTES:

- INTERIOR PARTITIONS SHALL BE REMOVED AND DISPOSED AS INDICATED ON THIS PLAN & LEGEND.
- CONTRACTOR SHALL PATCH AND REPAIR DRYWALL CEILING THAT IS EXISTING TO REMAIN.
- EXISTING DOORS, DOOR FRAMES & HARDWARE SHALL BE REMOVED. (UNLESS OTHERWISE NOTED)
- THE CONTRACTOR SHALL FURNISH ALL LABOR MATERIALS & EQUIPMENT TO DISCONNECT, DISMANTLE, REMOVE & SALVAGE IN THE DISPOSITION OF DEMOLITION IN EXISTING SPACE.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO EXISTING STRUCTURE OR EQUIPMENT CAUSED BY THIS OPERATION AND SHALL NOT INTERFERE WITH EXISTING STRUCTURE SYSTEM.
- UPON COMPLETION OF DEMOLITION, THE ENTIRE AREA SHALL BE CLEANED OF ALL DEBRIS AND PREPARED FOR NEW CONSTRUCTION.
- EXISTING CONDITIONS NOT SHOWN ON THIS PLAN SHALL BE REVIEWED WITH OWNER PRIOR TO REMOVAL
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES AND SAFETY BARRIERS AS REQUIRED BY WORK, CONTRACTOR TO PROVIDE DUST CONTROL MEASURES.
- WHERE EXISTING TILE FLOOR IS TO BE REMOVED, CONTRACTOR SHALL PREPARE SLAB TO BE LEVEL & SMOOTH, READY TO RECEIVE NEW FINISH.
- CONTRACTOR SHALL LOCATE, IDENTIFY, STUB-OFF AND DISCONNECT UTILITY SERVICES THAT ARE NOT INDICATED TO REMAIN. FILL SLAB WITH SAME FIRE RATED INTEGRITY. REMOVE ALL ELECTRICAL WIRE, J-BOXES, HOOKUPS, ETC., IN EXISTING PARTITIONS AND TIE-OFF AT SOURCE. REMOVE AND PLUG WATER LINES AT SOURCE. (ONLY IF SO DENOTED)
- ALL ITEMS OF SALVAGEABLE VALUE, AS DETERMINED BY THE OWNER, SHALL BE CAREFULLY REMOVED, CLEANED, STORED AND TURNED OVER TO THE BUILDING MANAGER, CONTRACTOR TO OBTAIN A RECEIPT. THESE ITEMS SHALL BE STORED FOR THE BUILDING IN AN AREA DESIGNATED BY THE BUILDING MANAGER.
- CONTRACTOR SHALL VISIT AND INSPECT SITE PRIOR TO BID.
- ALL CEILING FIRE ALARM DEVICES (SPEAKERS, SMOKE DETECTORS) SHALL REMAIN, CONNECTED TO EXISTING SYSTEMS. (REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION)
- ALL EXISTING A/C DUCTWORK, DIFFUSERS (RETURN/SUPPLY) AIR DISTRIBUTION CONTRACTOR SHALL REMAIN. (REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION)
- CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AND SHALL PROTECT THE BUILDING STRUCTURE AND ALL EXISTING MATERIAL AND EQUIPMENT NOT SCHEDULED FOR DEMOLITION.
- CONTRACTOR SHALL COORDINATE TO ENSURE UTILITY SYSTEMS REMAIN IN OPERATION AS NEEDED TO ACCOMMODATE DEMOLITION ACTIVITIES. COORDINATE INTERRUPTIONS TO UTILITIES WITH THE OWNER.
- CONTRACTOR SHALL PRACTICE ALL PRACTICAL CARE TO PROVIDE DUST AND NOISE CONTROL PROTECTION. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, COMPLY WITH APPLICABLE REGULATIONS, LAWS AND ORDINANCES CONCERNING REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING (FURNISHING AND INSTALLING) ALL ITEMS DESCRIBED IN THE DRAWINGS FOR A COMPLETE INSTALLATION REGARDLESS OF WHERE OR HOW IT IS SHOWN, UNLESS THEY ARE MARKED N.I.C. (NOT IN CONTRACT). CONTRACTOR SHALL COORDINATE AND FACILITATE INSTALLATION OF ALL ITEMS FOR WORK MARKED N.I.C. REFER TO DRAWINGS.
- CONTRACTOR SHALL OBTAIN ALL PERMITS WITH APPLICABLE BUILDING DEPARTMENTS AND SHALL OBSERVE AND FOLLOW ALL APPLICABLE ORDINANCES AND CODES.
- THE LATEST VERSION OF THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION BY THE AMERICAN INSTITUTE OF ARCHITECTS SHALL APPLY.
- CONTRACTOR SHALL REMOVE, CUT AND PATCH ALL EXISTING CONSTRUCTION AND FINISHES AS REQUIRED TO PREPARE THE PREMISES FOR NEW WORK AND ALTERED WORK.
- FOR ALL DEMOLITION WORK AND REMOVAL OF CONSTRUCTION DEBRIS, THE CONTRACTOR IS TO COORDINATE WITH THE BUILDING ENGINEER IN ORDER THAT IT WILL NOT INTERFERE WITH THE EXISTING TENANTS.
- ALL EXISTING SURFACES THAT ARE WITHIN THE SCOPE OF NEW WORK SHALL BE EXAMINED FOR CRACKS, WAVES, IMPERFECTIONS AND IRREGULARITIES: ALL SURFACES SHALL BE EITHER PATCHED OR PLASTERED AND MADE READY TO RECEIVE NEW FINISHES OR MADE TO MATCH OR ALIGN WITH ALL EXISTING MATERIALS AND FINISHES.
- REPAIR AND RESTORE, TO MATCH AND ALIGN WITH ALL EXISTING MATERIAL AND FINISH, ALL WORK BEYOND LIMITS OF NEW WORK THAT IS DAMAGED OR ALTERED DURING THE EXECUTION OF THE WORK IN THIS CONTRACT.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE THAT OCCURS TO THE EXISTING BUILDING, OTHER FLOOR AREAS AND TENANT SPACE CAUSED BY THE NEW CONSTRUCTION.
- ALL SPRINKLER HEADS, DOWNLIGHTS, SPEAKERS, SMOKE DETECTORS AND ALL OTHER DEVICES, UNLESS OTHERWISE NOTED SHALL REMAIN AND OR BE REUSED/RELOCATED. (REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION)
- ALL PENETRATION FIRESTOPS FOR METAL PIPE AND INSULATED PIPE SHALL BE IN ACCORDANCE WITH UNDERWRITERS LABORATORY TEST ASSEMBLY UL 1479.
- CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE FIRE ENVELOPE DURING DEMOLITION AND CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY DESIGNER OR CLIENT OF ANY EXISTING CONDITIONS NOT SHOWN ON THIS PLAN AND SHALL REVIEW THESE PRIOR TO PROCEEDING WITH WORK.
- ANY ELECTRICAL & PLUMBING LINES WHICH REQUIRE REMOVAL AND/OR ALTERATION CONTRACTOR SHALL CAP & FILL SLAB/PARTITION WITH SAME FIRE RATED INTEGRITY.
- ALL EXISTING FIRE EXTINGUISHERS SHALL REMAIN, UNLESS IMPACTED BY DEMOLITION. STORE EXTINGUISHERS IN IMPACTED AREA SHALL BE STORED FOR REUSE IN TENANT SPACE.

EXISTING/DEMO PLAN LEGEND:

- AREA NOT IN SCOPE - EXISTING TO REMAIN
- WALL TO REMAIN
- WALL TO BE DEMOLISHED
- DOOR TO REMAIN
- DOOR TO BE REMOVED

Spruce Lane

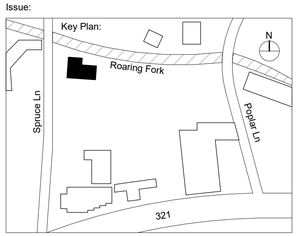
122 Spruce Lane | Gatlinburg, TN
37738

Client:
Lance Wayne, GC Works Inc.

two|oaks architecture + planning

Revisions:

Issue:



Key Plan

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Demolition Plan

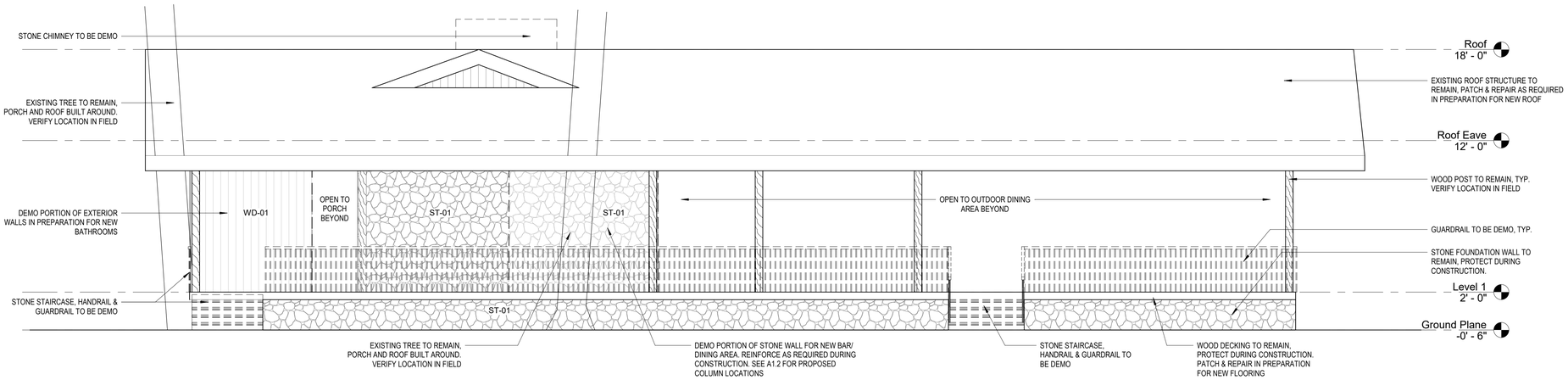
Date	11/30/2022
Scale	As indicated
Drawn By	GN
Checked By	THE
Project No.	2204

Seal

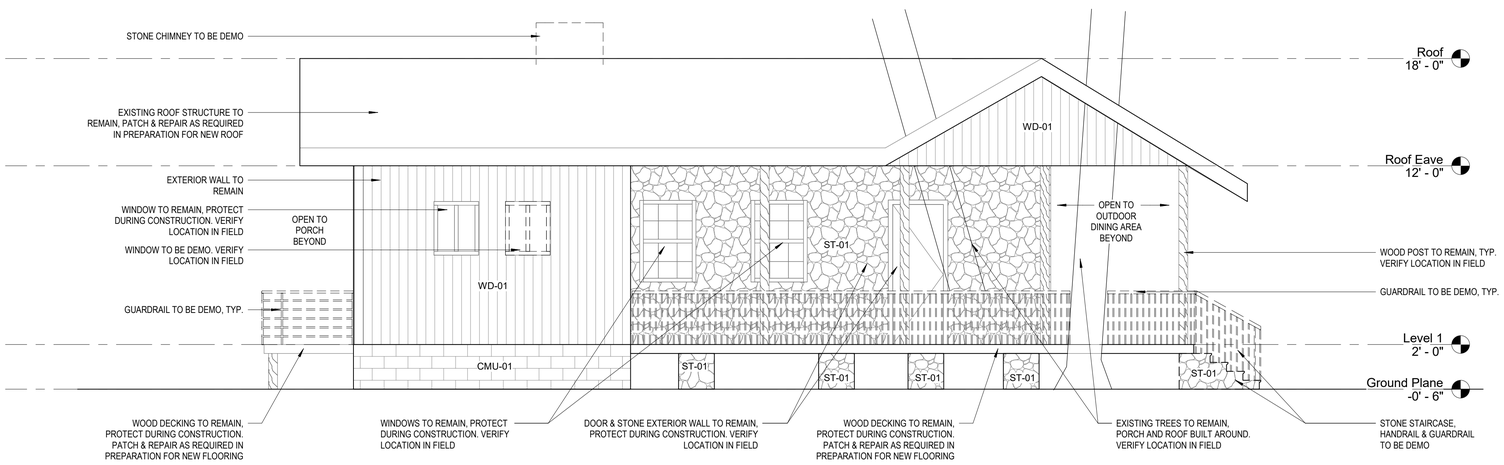
TAYLOR HEIM REGISTERED ARCHITECT No. 107603 STATE OF TENNESSEE
11-30-22

Sheet No.:

A1.1



1 South Elevation Existing
1/4" = 1'-0"



2 West Elevation Existing
1/4" = 1'-0"

EXISTING MATERIALS LEGEND:

- WD-01 , WOOD SIDING
- ST-01, STONE
- WOOD POST
- CMU-01, CONCRETE MASONRY

Spruce Lane

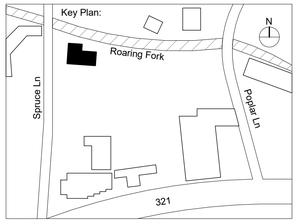
122 Spruce Lane | Gatlinburg, TN
37738

Client:
Lance Wayne, GC Works Inc.

two|oaks architecture + planning

Revisions:

Issue:



Key Plan

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Existing Exterior Elevations

Date	11/30/2022
Scale	1/4" = 1'-0"
Drawn By	GN
Checked By	THE
Project No.	2204

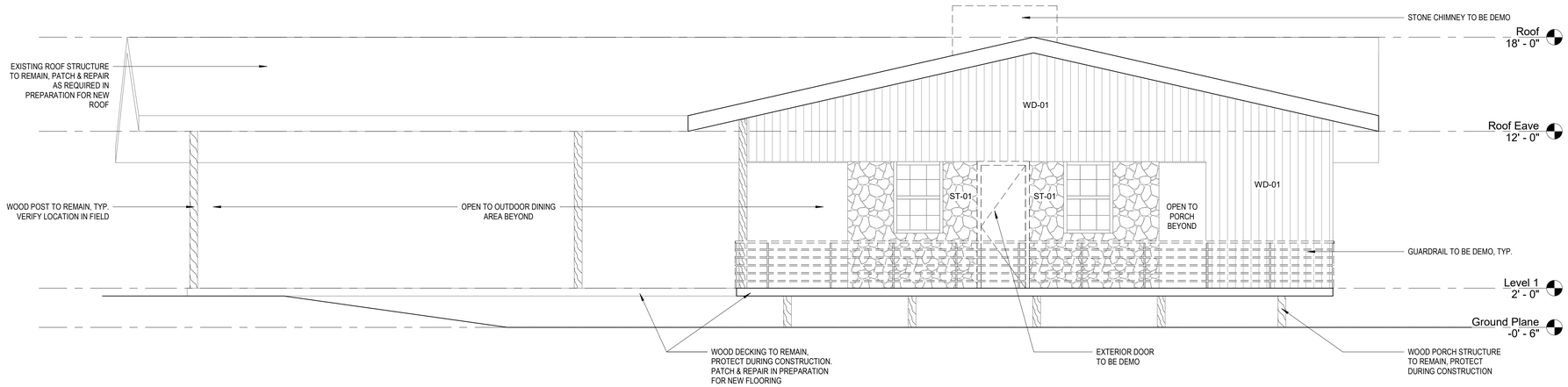
Seal

TAYLOR HEIM REGISTERED ARCHITECT No. 107860 STATE OF TENNESSEE COMMISSION

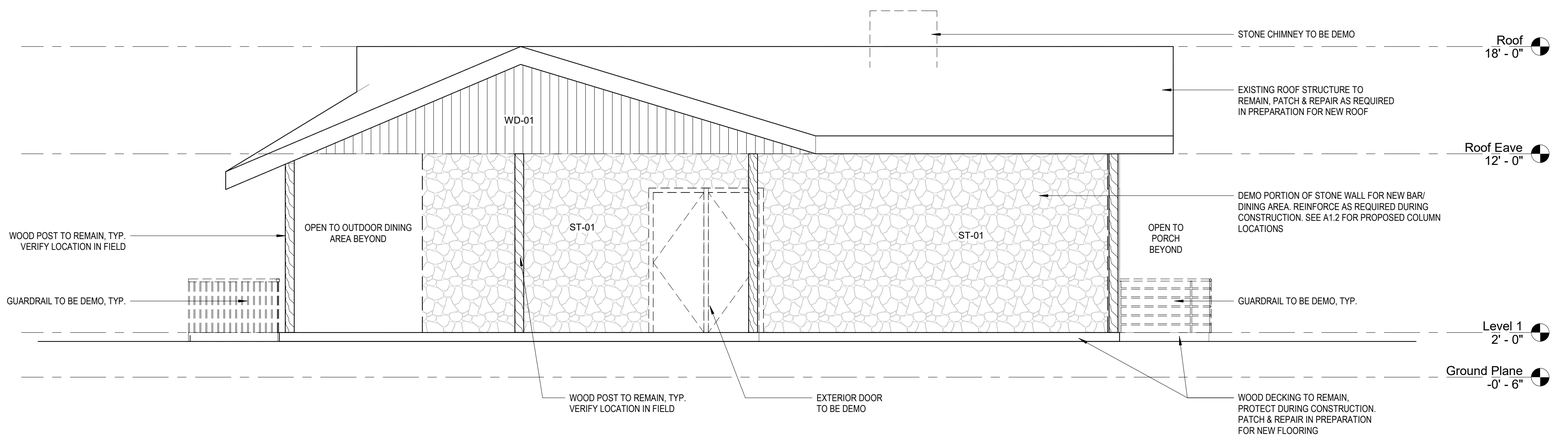
11-30-22

Sheet No.:

A2.1



1 North Elevation Existing
1/4" = 1'-0"



2 East Elevation Existing
1/4" = 1'-0"

EXISTING MATERIALS LEGEND:

- WD-01 , WOOD SIDING
- ST-01, STONE
- WOOD POST
- CMU-01, CONCRETE MASONRY

Spruce Lane

122 Spruce Lane | Gatlinburg, TN
37738

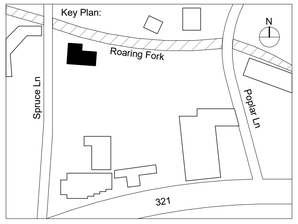
Client:
Lance Wayne, GC Works Inc.

two|oaks architecture + planning

Revisions:

Issue:

Key Plan:



Key Plan

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Existing Exterior Elevations

Date	11/30/2022
Scale	1/4" = 1'-0"
Drawn By	GN
Checked By	THE
Project No.	2204

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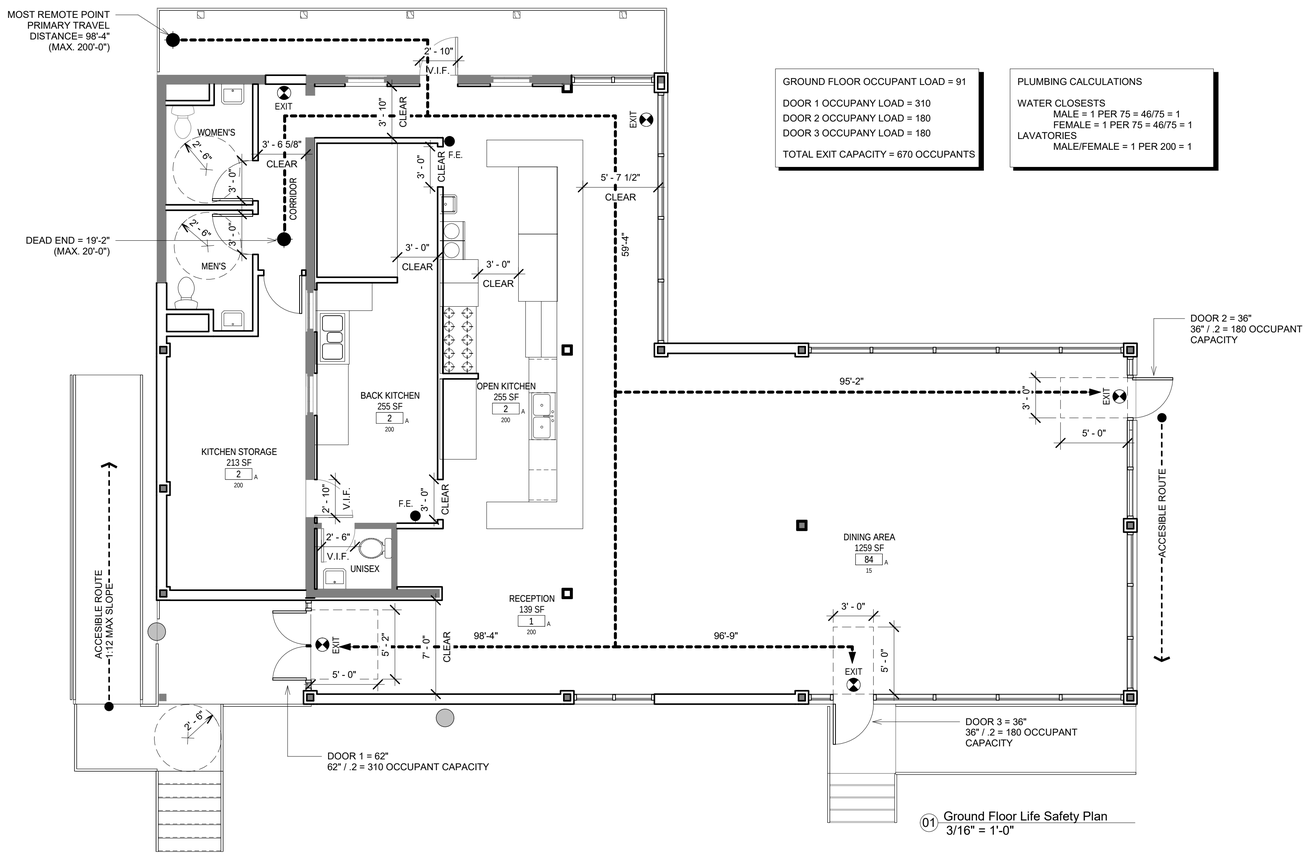
TAYLOR HEIM REGISTERED ARCHITECT No. 107860 STATE OF TENNESSEE
11-30-22

Sheet No.:

A2.2



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

GROUND FLOOR OCCUPANT LOAD = 91

DOOR 1 OCCUPANY LOAD = 310
DOOR 2 OCCUPANY LOAD = 180
DOOR 3 OCCUPANY LOAD = 180

TOTAL EXIT CAPACITY = 670 OCCUPANTS

PLUMBING CALCULATIONS

WATER CLOSESTS
MALE = 1 PER 75 = 46/75 = 1
FEMALE = 1 PER 75 = 46/75 = 1
LAVATORIES
MALE/FEMALE = 1 PER 200 = 1

Spruce Lane

122 Spruce Lane | Gatlinburg, TN
37738

Client:
Gatlinburg Vittales, LLC
122 Spruce Ln,
Gatlinburg, TN 37738

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BUILDING OCCUPANCY LOAD / EXIT REQUIREMENTS

EGRESS ANAYLSIS:

OCCUPANT LOAD: 91 OCCUPANTS

EGRESS COMPONENT	CAPACITY FACTOR	REQUIRED WIDTH (INCHES) = (FLOOR OCCUPANT LOAD * CAPACITY FACTORS)	PROVIDED WIDTH (INCHES)			TOTAL PROVIDED EXIT CAPACITY	COMPLIES
DOOR WIDTH	0.2"	91 * 0.2" = 18.2" REQUIRED	DOOR 1 = 62"	DOOR 2 = 36"	DOOR 3 = 36"	134" / 0.2 = 670 OCCUPANTS	YES

NOTES
1. DOOR WIDTHS LISTED ARE ACTUAL LEAF WIDTH. CALCULATED EXIT CAPACITY ASSUMES 4" LESS CLEAR WIDTH TYPICALLY.
2. EGRESS MEASUREMENT FACTORS BASED ON 2018 IBC SECTION 1005.
3. ALL EXIT DOORS DISCHARGE TO A PUBLIC WAY.

OCCUPANT LOAD SCHEDULE:

ROOM NAME	AREA	OCCUPANCY GROUP	OCCUPANCY LOAD FACTOR	OCCUPANT LOAD
DINING AREA	1259 SF	A-2	15 SF	84
BACK KITCHEN	255 SF	A-2	200 SF	2
OPEN KITCHEN	255 SF	A-2	200 SF	2
RECEPTION	139 SF	A-2	200 SF	1
KITCHEN STORAGE	213 SF	A-2	200 SF	2
TOTAL OCCUPANT LOAD				91

PLUMBING CALCULATIONS:

CLASSIFICATION	WATER CLOSET		LAVATORY		DRINKING FOUNTAIN*	OTHER
ASSEMBLY = 91	MALE = 1 PER 75 FEMALE = 1 PER 75	3 PROVIDED	1 PER 75	3 PROVIDED	1 PER 500 *PROVIDED BY ACCESS TO DRINKING WATER	1 SERVICE SINK

NOTES
1. MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES BASED OFF TABLE 2902.1 (IBC 2018)

MEANS OF EGRESS:

	MAX. ALLOWABLE (IBC 1004.2.4)	ACTUAL
TRAVEL DISTANCE	200'-0" (NO SPRINKLER)	98'-4"
DEAD END CORRIDOR	≤ 20'	19'-2"
COMMON PATH	≤ 75'	59'-4"

LIFE SAFETY AREA TAG SYMBOL

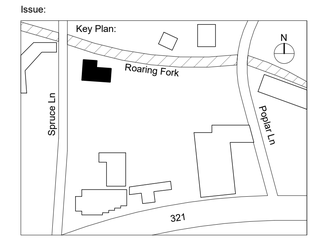
Area Name — AREA NAME
000 SF — ACTUAL FLOOR AREA
000 / XX/XXX — OCCUPANT LOAD
XXX.XXX — FUNCTION OF SPACE
CODE FLOOR AREA PER OCCUPANT
F.E. — FIRE EXTINGUISHER (WALL MOUNTED)

LIFE SAFETY SYMBOLS

EXIT WALL MTD. / EXIT CEILING MTD. — EXIT SIGNAGE
PATH OF TRAVEL
EXIT SEPERATION
ACCESSIBLE ROUTE

Revisions:

Issue:



Key Plan

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Life Safety Plan

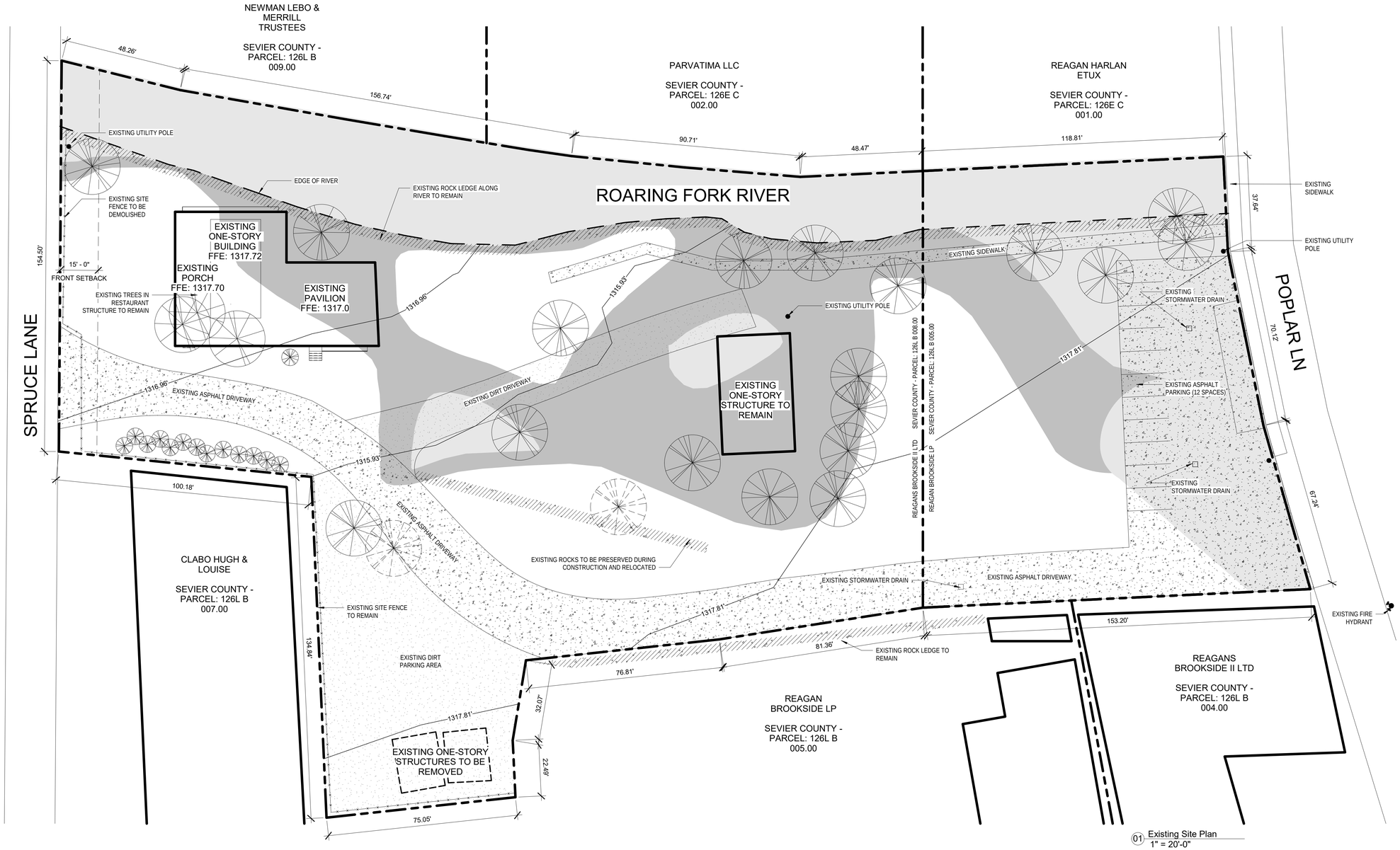
Date	04/18/2023
Scale	As indicated
Drawn By	GN
Checked By	THE
Project No.	2204

Seal

TAYLOR HEIM REGISTERED ARCHITECT AGENCY NO. 2204 04-18-23 No. 107601 STATE OF TENNESSEE

Sheet No.:

A0.1



01 Existing Site Plan
1" = 20'-0"

EXISTING SITE PLAN GENERAL NOTES:

1. THE TOPOGRAPHIC DATA WAS TAKEN FROM SEVIER COUNTY GIS & BOUNDARY DATA WAS TAKEN FROM OWNER PROVIDED SURVEY. VERIFY ALL DIMESIONS AND CONDITIONS IN FIELD PRIOR TO COMMENCING THE WORK.
2. PROPERTY CONCERNED IS REFLECTED IN THE CITY TAX MAP AS: MAP: 126L GROUP: B PARCEL 008.00
3. ZONING FOR THE PROPERTY IS C-2
4. TOTAL PARCEL AREA = 1.51 ACRES
   TOTAL DISTURBED AREA = 0.56 ACRES
5. OWNER: BEVILLE REAGAN
   REAGANS BROOKSIDE II LTD PARTNERSHIP
   121 SILVERBELL LN GATLINBURG, TN 37738
6. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS TO NOTIFY THEM OF WORK IN THE AREA AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY. NOTIFICATION SHALL BE GIVEN AT LEAST THREE BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.
7. LOCATE EXISTING UTILITIES. CALL THE TENNESSEE ONE CALL SYSTEM AT 1-800-351-1111.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGAURD THE EXISTING UTILITIES WHICH ARE TO REMAIN AND FURNISH ANY SPECIAL EQUIPMENT REQUIRED TO WORK OVER AND AROUND THE UTILITIES.
9. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. ALL DIMENSIONS MARKED "V.I.F." SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. REPORT ALL DISCREPANCIES TO THE OWNER.
10. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONDUCT ONSITE MEETING TO IDENTIFY AND MARK LOCATIONS/METHODS OF TREE PROTECTION AND TO IDENTIFY SPECIFIC TREES TO BE REMOVED.
11. UNLESS NOTED OTHERWISE, DIMENSIONS ARE TAKEN FROM THE FENCE LINE, PROPERTY LINE, FACE OF CURB, EDGE OF PAVEMENT OR OUTSIDE FACE OF BUILDING. IN THE EVENT DIMENSIONS ARE IN QUESTION OR IF ANY DISCREPANCIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK.
12. THE MINERAL AGGREGATE BASE AND ASPHALTIC SURFACE COURSES SHALL MEET THE MATERIALS, EQUIPMENT CONSTRUCTION, AND TESTING REQUIREMENTS OF THE CITY OF GATLINBURG STANDARD SPECIFICATIONS.
13. BUILDING SETBACKS ARE 15-FT IN FRONT, 0-FT ON SIDE AND 0-FT IN REAR PER ARTICLE VIII OF THE CITY OF GATLINBURG MUNICIPAL ZONING ORDINANCE
14. REFER TO ARCHITECTURAL PLANS FOR ACTUAL BUILDING DIMENSIONS AND DETAILS.
15. FEMA PANEL:
    THE SUBJECT PROPERTY LIES WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO COMMUNITY PANEL NO. 47155C0334E, 05/18/2009, CITY OF GATLINBURG.

FLOODPLAIN BOUNDARY:

- ZONE AE, SPECIAL FLOOD HAZARD AREA
- ZONE X, 0.2% ANNUAL CHANCE FLOOD HAZARD

EXISTING SITE PLAN LEGEND

- PROPERTY LINE
- EDGE OF ROARING FORK RIVER
- SETBACK LINE
- XXX' - X" EXISTING CONTOURS
- EXISTING BUILDING TO REMAIN
- EXISTING BUILDING TO BE DEMOLISHED
- EXISTING CONCRETE/ ASPHALT SIDEWALK, PARKING & DRIVEWAY
- EXISTING DIRT/ GRAVEL DRIVEWAY
- EXISTING FENCE TO BE DEMOLISHED
- EXISTING FENCE TO REMAIN
- EXISTING ROCKS / ROCK LEDGE
- EXISTING UTILITY POLE
- EXISTING FIRE HYDRANT
- EXISTING STORMWATER DRAIN
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED

Spruce Lane

122 Spruce Lane | Gatlinburg, TN 37738

Client:
Gatlinburg Vittales, LLC
122 Spruce Ln,
Gatlinburg, TN 37738

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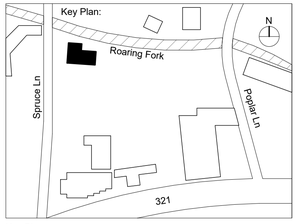

Key Plan

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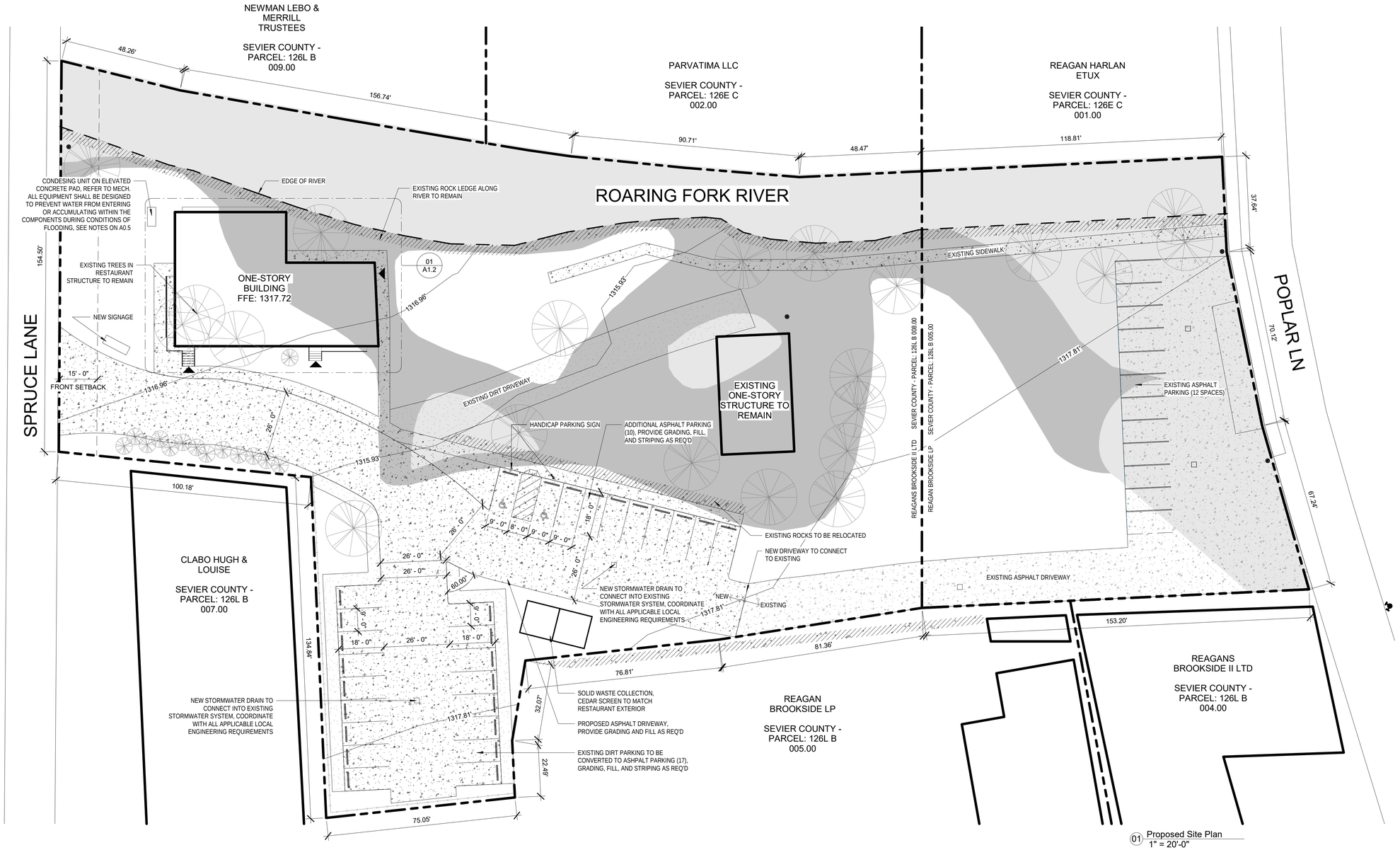
Existing Site Plan

Date	04/18/2023
Scale	As indicated
Drawn By	THE
Checked By	JE
Project No.	2204

Seal: TAYLOR HEIM, REGISTERED ARCHITECT, STATE OF TENNESSEE, No. 107601, 04-18-23

Sheet No.: A0.2



01 Proposed Site Plan
1" = 20'-0"

IMPERVIOUS AREA SUMMARY:

EXISTING IMPERVIOUS BUILDINGS SURFACE AREA: 5,650 SF
PROPOSED IMPERVIOUS BUILDINGS SURFACE AREA: 4,925 SF

EXISTING IMPERVIOUS DRIVES/SIDEWALKS SURFACE AREA: 8,840 SF
PROPOSED IMPERVIOUS DRIVES/SIDEWALKS SURFACE AREA: 19,360 SF

TOTAL PROPOSED IMPERVIOUS AREA: 0.56 AC. (24,285 SF)
PROPOSED LOT COVERAGE: 0.37

PARKING ANALYSIS:

REQUIRED PARKING SPACES: 1 PER 4 OCCUPANTS
90 OCCUPANTS / 4 = 22.5 OR 23 SPACES REQUIRED
PROPOSED PARKING SPACES: 27 SPACES

REQUIRED ADA PARKING SPACES: 1 PER 25 SPACES
27 SPACES / 25 = 1.1 OR 2 ADA SPACES REQUIRED
PROPOSED ADA PARKING SPACES: 2 SPACES

SITE PLAN GENERAL NOTES:

1. CONTRACTORS AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES. FAILURE TO FAMILIARIZE THEMSELVES WITH OTHER TRADES SHALL RESULT IN CORRECTING AND/OR PROVIDING THESE SERVICES AT NO ADDITIONAL COST TO THE OWNER.
2. CONTRACTOR SHALL NOT SCALE THIS OR ANY OTHER DRAWING IN CONTRACT DOCUMENTS. DIMENSIONS SHALL ALWAYS BE USED FOR REFERENCE. CONTACT OWNER FOR ADDITIONAL DIMENSIONAL INFORMATION OR FOR CLARIFICATION CONCERNING ANY DISCREPANCIES.
3. HANDLE AND DISPOSE OF DEBRIS, MATERIALS AND TRASH IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND REGULATIONS. PROVIDE OWNER WITH STAGING PLAN FOR DUMPSTER & OTHER EQUIPMENT.
4. PROVIDE POSITIVE STORMWATER DRAINAGE AWAY FROM BUILDING AND DIRECT WATER AROUND THE BUILDING. ALL SWALES TO DIRECT STORMWATER AWAY FROM BUILDING
5. PROVIDE TREE PROTECTION BARRIER AT DRIPLINE OF ALL TREES DESIGNATED TO BE PRESERVED THROUGHOUT CONSTRUCTION. ALL CONSTRUCTION STAGING PROHIBITED IN THESE AREAS.
6. TREE LOCATIONS SHOWN ARE APPROXIMATE. VERIFY ALL DIMESIONS AND CONDITIONS IN FIELD PRIOR TO COMMENCING THE WORK.
7. COORDINATE DAYLIGHT LOCATIONS OF SITE DRAINAGE COMPONENTS WITH OWNER. PROVIDE RIVER ROCK AT DAYLIGHT LOCATION.
8. AT COMPLETION OF PROJECT LEAVE DISTURBED LANDSCAPE STRAWED & SEEDED FOR OWNER REPAIR.
9. EXISTING LANDSCAPE FEATURES TO BE USED TO MEET LANDSCAPE PLAN REQUIREMENTS PER SECTION 407.3.4.1 OF THE CITY OF GATLINBURG MUNICIPAL ZONING ORDINANCE.

FLOODPLAIN BOUNDARY:

ZONE AE, SPECIAL FLOOD HAZARD AREA
ZONE X, 0.2% ANNUAL CHANCE FLOOD HAZARD

EXISTING SITE PLAN LEGEND

PROPERTY LINE
EDGE OF ROARING FORK RIVER
SETBACK LINE
XXX' - X" EXISTING CONTOURS
EXISTING BUILDING TO REMAIN
CONCRETE/ ASPHALT SIDEWALK, PARKING & DRIVEWAY
DIRT/ GRAVEL DRIVEWAY OR PATH
BUILDING ENTRANCE / EXIT
EXISTING FENCE TO REMAIN
EXISTING ROCKS / ROCK LEDGE
EXISTING UTILITY POLE
EXISTING FIRE HYDRANT
EXISTING STORMWATER DRAIN
EXISTING TREE TO REMAIN

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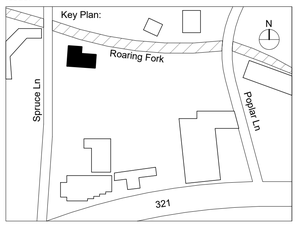

Key Plan

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Proposed Site Plan

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04-18-23

Sheet No.:

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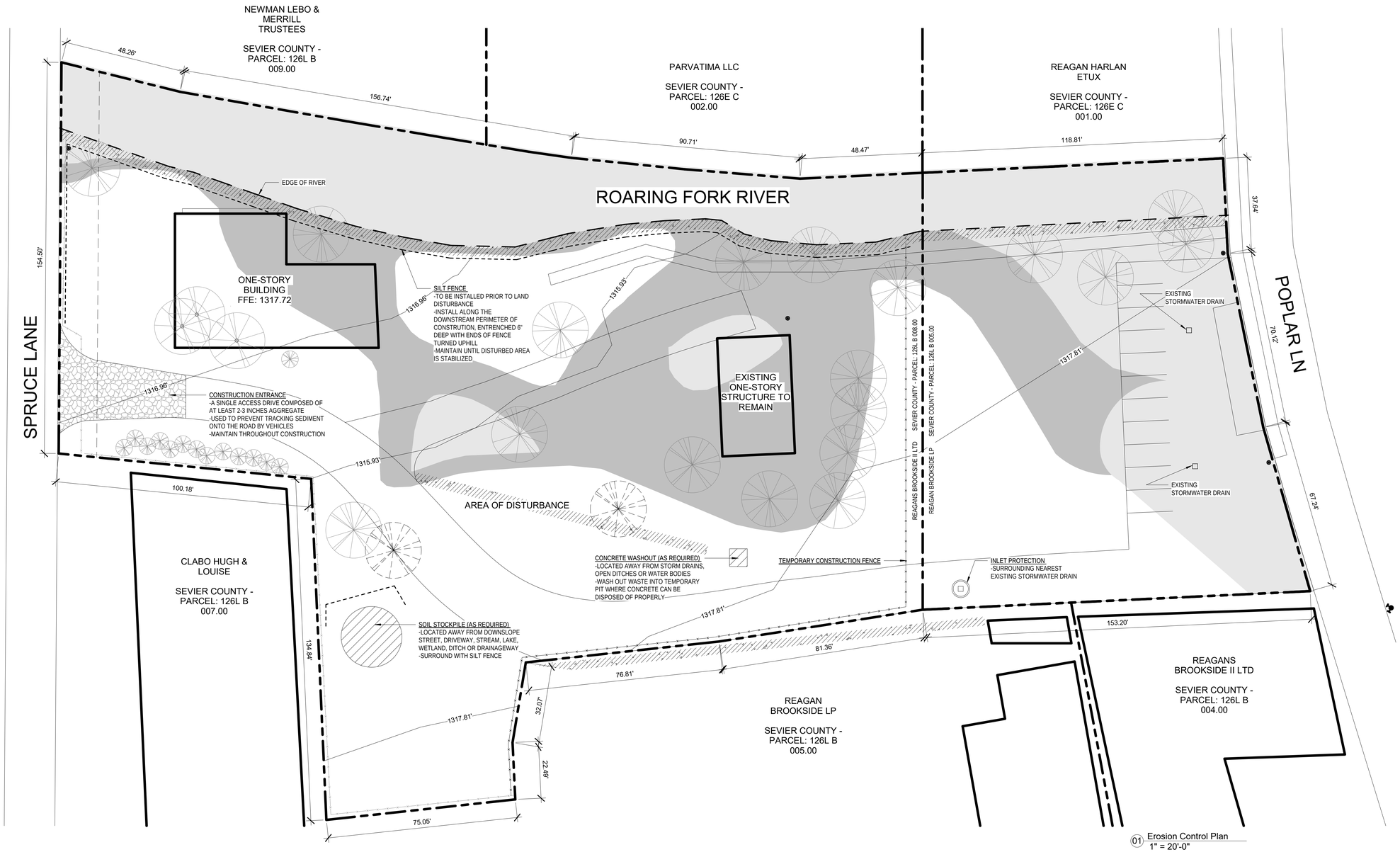

01 Erosion Control Plan
1" = 20'-0"

EROSION CONTROL GENERAL NOTES:

1. EROSION CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE TDEC'S EROSION AND SEDIMENT CONTROL HANDBOOK AND TDEC'S CONSTRUCTION ACTIVITY PERMIT REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL DEVICES AS NEEDED.
2. APPLY TEMPORARY SEEDING WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND FINAL GRADING OF EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY SEEDING TO SOIL STOCKPILES.
3. APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. APPLY PERMANENT SEEDING TO ALL NON-CONSTRUCTION AREAS, WHICH SHOW SIGNS OF EXCESSIVE EROSION.
4. PERMANENT SEEDING SHALL BE DROUGHT TOLERANT, HYBRID KENTUCKY 31 (JAGUAR, LANCER, REBEL II, FALCON II, ETC.). SEED AT A RATE OF 6-8 LBS./1000 S.F. USE A SLOW RELEASE STARTER FERTILIZER WITH 1 LBS./1000 S.F. NITROGEN. IF GRADING IS PERFORMED DURING THE WINTER MONTHS, SEED MIXTURE SHALL BE SUPPLEMENTED WITH A WINTER RYE OR OTHER APPROPRIATE MIXTURE TO ASSURE STABILIZATION DURING THE WINTER SEASON.
5. MULCH WITH STRAW AT A RATE OF 100 LBS./1000 S.F. OVER THE SEEDED AREAS.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF SITE CONSTRUCTION POLLUTION PREVENTION CONTROLS THROUGHOUT THE LIFE OF THE PROJECT.
7. ADEQUATE DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES, BEST MANAGEMENT PRACTICES, AND/OR OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR'S FAILURE TO PROVIDE AND MAINTAIN ADEQUATE DRAINAGE, EROSION PREVENTION AND SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

GRADING NOTES:

1. THE GRADES SHOWN ON THESE DRAWINGS ARE APPROXIMATE BASED ON THE DATA PROVIDED BY THE OWNER. EXISTING GRADING IS TO REMAIN UNCHANGED AS POSSIBLE WITH NEW DESIGN.
2. THE ACCURACY OF THE GRADES ARE DEPENDANT ON THE DATA PROVIDED BY THE OWNER. FIELD VERIFY PRIOR TO CONSTRUCTION.
3. ALL TREES STUMPS AND OTHER OBSTRUCTIONS TO BE REMOVED SHALL BE REMOVED TO A DEPTH OF 2 FT BELOW THE SUBGRADE.
4. STRIP TOPSOIL FULL DEPTH (6-IN. MIN.) AND TEMPORARILY STOCKPILE EXCAVATED MATERIALS. INSTALL SILT FENCE OR OTHER APPROPRIATE EROSION CONTROL STRUCTURES ON THE DOWN HILL SIDE OF THE STOCKPILE.
5. AREAS THAT EXHIBIT WEAK SOIL OR OTHERWISE UNSUITABLE CONDITIONS SHALL BE UNDERCUT TO A FIRM LEVEL OF SOIL FOLLOWED BY BACKFILLING THE UNDERCUT AREAS USING AN ENGINEERED FILL. TDOT NO. 57, OR TDOT NO. 67 STONE.
6. FILL MATERIAL SHALL BE SATISFACTORY MATERIAL FREE FROM ROOTS AND OTHER ORGANIC MATERIAL, FROZEN MATERIAL, AND TRASH. FILL MATERIAL SHALL ALSO BE FREE OF STONE OR OTHER MATERIAL LARGER THAN 6 IN. AND LARGER THAN 4 IN. IN THE TOP 6 IN. OF AN EMBANKMENT.
7. FILL SOILS SHALL HAVE A PI LESS THAN 30 & A MAXIMUM DRY DENSITY OF 90 PCF OR GREATER.
8. UNSATISFACTORY SOILS INCLUDE MATERIALS THAT ARE TOO WET OR TOO SOFT, EXPANSIVE SOILS AND SOILS CLASSIFIED PT. OH. AND OL. LEGALLY DISPOSE OF UNSATISFACTORY SOILS OFF-SITE UNLESS OTHERWISE APPROVED BY THE OWNER OR GEOTECHNICAL ENGINEER.
9. FILL MATERIAL SHALL BE PLACED IN LOOSE. HORIZONTAL LIFTS NOT EXCEEDING 8 IN. THICKNESS. COMPACT EACH LAYER TO AT LEAST 98% MAXIMUM DRY DENSITY. COMPACT THE UPPER 24 IN. OF FILL BENEATH PAVEMENTS TO 100% MAXIMUM DRY DENSITY. MAINTAIN THE MOISTURE CONTENT TO WITHIN -1 TO +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
10. A 6 IN. (MIN.) LAYER OF TOPSOIL SHALL BE PLACED OVER THE AREAS TO BE SEEDED AND TO THE FINISH GRADE ELEVATIONS AS SHOWN ON THE DRAWINGS.
11. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS OR POND ON-SITE. PROVIDE NECESSARY MEASURES TO KEEP THE SITE FREE -DRAINING.
12. PROTECT AND MAINTAIN SUBGRADES UNTIL PLACEMENT OF THE FINAL SURFACE IS ACHIEVED.
13. VERIFY GRADES WHEREVER NECESSARY TO BRING THE PROPOSED LINES, ELEVATIONS, SLOPES, AND CROSS-SECTIONS OF THE GRADING WORK TO WITHIN THE FOLLOWING TOLERANCES ABOVE OR BELOW THAT AS SHOWN ON THE PLANS: UNPAVED AREAS 0.1 ', SIDEWALKS 0.10', PAVEMENTS 0.04
14. DISTURBED AREAS SHALL BE STABILIZED IN AN EXPEDIENT MANNER TO MINIMIZE TIME OF EXPOSURE TO WEATHER.

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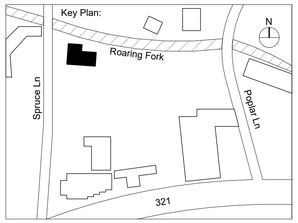

Key Plan

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Erosion Control Plan

Date	04/18/2023
Scale	As indicated
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Checked By	JE
Project No.	2204
Sheet No.:	A0.4

Seal: TAYLOR HEIM REGISTERED ARCHITECT AGENCY No. 10760 STATE OF TENNESSEE 04-18-23

APPLIANCE NOTES:

COORDINATE ROUGH-IN AND INSTALLATION PER MFG. REQUIREMENTS.

COORDINATE APPLIANCES WITH THE CASEWORK PROVIDER.

ALL APPLIANCES ARE TO BE CONTRACTOR-PROVIDED AND CONTRACTOR INSTALLED.

COORDINATE POWER & DATA REQUIREMENTS FOR OWNER-PROVIDED EQUIPMENT WITH CASEWORK & ELECTRICAL DRAWINGS.

MECHANICAL & PLUMBING NOTES:

ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR IS TO PROVIDE ALL MATERIALS AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS INDICATED ON THE DRAWINGS AS SPECIFIED AND AS REQUIRED BY ALL APPLICABLE CODES, ORDINANCES, AND AHJ.

INSTALL ALL EQUIPMENT AND APPLIANCES IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS AND RECOMMENDATIONS, AND ALL APPLICABLE CODES AND ORDINANCES.

THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE FINAL INSTALLATION OF ALL EQUIPMENT AND SYSTEMS. COORDINATE ALL EQUIPMENT CONNECTIONS WITH THE MANUFACTURER'S DRAWINGS AND SPECIFICATIONS. COORDINATE AND PORIVED ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT.

COORDINATE ALL MECHANICAL WORK WITH ANY ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL SCOPE, ETC. SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS. MODIFICATIONS AND OFFSETS NECESSARY TO AVOID CONFLICTS AND INTERFERENCE WITH STRUCTURAL CONDITIONS AS WELL AS ALL OTHER DISCIPLINES AND TRADES SHALL BE PERFORMED AT NO COST TO THE OWNER.

BUILD ALL CHASES, RECESSES, SLEEVES, AND OTHER OPENINGS IN MASONRY, CONCRETE, OR OTHER MATERIALS AS THE CONSTRUCTION WORK PROGRESSES. IT SHALL BE THE SUBCONTRACTOR'S RESPONSIBILITY TO SEE SUCH CHASES, RECESSES, SLEEVES, AND OTHER OPENINGS ARE PROPERTY LOCATED AND INSTALLED. IF THIS IS NOT DONE, ANY CUTTING, PATCHING, OR BOTH, SHALL BE DONE AT THE SUBCONTRACTOR'S EXPENSE WHOSE WORK REQUIRED SUCH AN ACCOMMODATION.

WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.

ALL CONTROL WIRING SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND AHJ.

FIRE STOP ALL OPENINGS IN FIRE-RATED ASSEMBLIES DUE TO DUCTWORK, PIPING, CONDUIT, ETC. WITH A UL-LISTED FIRE STOP SYSTEM. INSTALL IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, AND AHJ.

UNLESS INDICATED OTHERWISE ON DRAWINGS, INTERNAL WATER PIPING IS TO BE ROUTED IN CEILING SPACES, ATTICS, CRAWL SPACES AND IN BETWEEN WALL STUDS, ETC, AND INSTALLED ON THE INSIDE OF THE BUILDING THERMAL ENVELOPE. INSTALLED IN ACCORDANCE WITH THE 2018 INTERNATIONAL PLUMBING CODE AND AHJ.

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING ITEMS:
FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO INSTALL MECHANICAL SYSTEMS AS SHOWN ON THE DRAWINGS AND SPECIFIED BELOW. THE MECHANICAL LAYOUT SHOWN IS FOR DIAGRAMMATIC PURPOSES ONLY. COMPLETE MECHANICAL SYSTEM LOAD CALCULATIONS, DESIGN, AND INSTALLATION TO BE PERFORMED BY A LICENSED MECHANICAL CONTRACTOR.

OBTAIN AND PURCHASE ALL PERMITS AND INSPECTIONS THAT ARE REQUIRED. RETAIN CERTIFICATES OF INSPECTION AND SUBMIT WHEN WORK IS COMPLETE.

GUARANTEE THAT ALL WORK IS IN ACCORDANCE WITH CONTRACT REQUIREMENTS AND FREE OF DEFECTS OR INFERIAL MATERIALS, EQUIPMENT, AND WORKMANSHIP FOR A PERIOD OF ONE YEAR. GUARANTEE THAT ALL EQUIPMENT IS OF PROPER SIZE AND DESIGN SO INSTALLED AS TO PRODUCE THE CAPACITIES AND RESULTS REQUIRED. PROVIDE A FIVE-YEAR WARRANTY ON ALL AIR-CONDITIONING COMPRESSORS. WARRANTIES SHALL COMMENCE UPON SUBSTANTIAL COMPLETION AND OCCUPANCY BY THE OWNER. PROVIDE A ONE-YEAR PARTS AND LABOR WARRANTY ON ALL HVAC WORK AND EQUIPMENT.

PROVIDE THE OWNER WITH ONE PRINT OCPY AND AN ELECTRONIC COPY OF OPERATION AND MAINTENANCE MANUALS FOR ALL MECHANICAL EQUIPMENT.

MECHANICAL CONTRACTOR TO PROVIDE AIR SYSTEM BALANCE REPORT.

PROVIDE AIR SEALING BETWEEN ALL CONDITIONED AND UNCONDITIONED SPACES.

AT CONDITIONED CRAWL SPACE PROVIDE SPRAY APPLIED CONT. INSULATION W/ VAPOR BARRIER

ELECTRICAL NOTES:

ALL WORK MUST BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
THE CONTRACTOR SHALL REVIEW THE FINAL LOCATIONS OF ALL DEVICES WITH THE OWNER AND ARCHITECT PRIOR TO ROUGH-IN OR BEFORE THE WALL BOARD IS INSTALLED.

THE CONTRACTOR SHALL COORDINATE ALL POWER REQUIREMENTS WITH LIGHTING AND EQUIPMENT.

PROVIDE ELECTRICAL DISCONNECT AS REQUIRED BY CODE.

MOUNT OUTLETS AND OTHER DEVICES AT 18" A.F.F. UNLESS NOTED OTHERWISE.

MOUNT SWITCHES AT 48" A.F.F. UNLESS NOTED OTHERWISE.

PRIOR TO BEGINNING CONDUIT INSTALLATION FOR HVAC/PLUMBING EQUIPMENT ELECTRICAL CONTRACTOR SHALL CONFIRM WITH THE HVAC/PLUMBING CONTRACTOR THE VOLTAGES FOR ALL HVAC/PLUMBING EQUIPMENT REQUIRING ELECTRICAL SERVICE

WHERE APPLICABLE ALIGN LIGHT SWITCHES OVER RECEPTACLES.

ALL ELECTRICAL FIXTURES LOCATED IN AN EXTERIOR LOCATION OR IN WET/DAMP LOCATIONS SHOULD BE APPROPRIATE RATED FIXTURES OR HAVE WET LOCATION TRIM KITS.

FLOOD DAMAGE PREVENTION NOTES:

(AS OUTLINED IN THE FLOOD DAMAGE PREVENTION ORDINANCE, 14-305. FOR THE CITY OF GATLINBURG, TENNESSEE.)

A DEVELOPMENT PERMIT SHALL BE REQUIRED IN CONFORMITY WITH THIS ORDINANCE PRIOR TO THE COMMENCEMENT OF ANY DEVELOPMENT ACTIVITIES.

NO LAND, STRUCTURE OR USE SHALL HEREAFTER BE LOCATED, EXTENDED, CONVERTED OR STRUCTURALLY ALTERED WITHOUT FULL COMPLIANCE WITH THE TERMS OF THIS ORDINANCE AND OTHER APPLICABLE REGULATIONS.

NON-RESIDENTIAL STRUCTURES. WITHIN ALL FLOOD HAZARD AREAS WHERE FLOOD ELEVATION DATA IS AVAILABLE, NEW CONSTRUCTION AND SUBSTANTIAL IMPROVEMENT OF ANY COMMERCIAL, INDUSTRIAL, OR NON-RESIDENTIAL BUILDING, SHALL HAVE THE LOWEST FLOOR, INCLUDING BASEMENT, ELEVATED OR FLOODPROOFED TO NO LOWER THAN ONE FOOT (1') ABOVE THE LEVEL OF THE BASE FLOOD ELEVATION (100-YEAR FLOOD ELEVATION).

SHOULD SOLID FOUNDATION PERIMETER WALLS BE USED TO ELEVATE A STRUCTURE, OPENINGS SUFFICIENT TO FACILITATE EQUALIZATION OF FLOOD HYDROSTATIC FORCES ON BOTH SIDES OF EXTERIOR WALLS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARDS OF THIS SECTION: "ENCLOSURES.

A REGISTERED ENGINEER OR LAND SURVEYOR SHALL CERTIFY THE FINISHED FLOOR ELEVATION.

ALL NEW CONSTRUCTION AND SUBSTANTIAL IMPROVEMENTS THAT INCLUDE FULLY ENCLOSED AREAS FORMED BY FOUNDATION AND OTHER EXTERIOR WALLS BELOW THE LOWEST FLOOR THAT ARE SUBJECT TO FLOODING, SHALL BE DESIGNED TO PRECLUDE FINISHED LIVING SPACE AND DESIGNED TO ALLOW FOR THE ENTRY AND EXIT OF FLOODWATERS TO AUTOMATICALLY EQUALIZE HYDROSTATIC FLOOD FORCES ON EXTERIOR WALLS.

DESIGNS FOR COMPLYING WITH THIS REQUIREMENT MUST EITHER BE CERTIFIED BY A TENNESSEE PROFESSIONAL ENGINEER OR ARCHITECT OR MEET OR EXCEED THE FOLLOWING MINIMUM CRITERIA:
(A) PROVIDE A MINIMUM OF TWO (2) OPENINGS HAVING A TOTAL NET AREA OF NOT LESS THAN ONE (1) SQUARE INCH FOR EVERY SQUARE FOOT OF ENCLOSED AREA SUBJECT TO FLOODING;
(B) THE BOTTOM OF ALL OPENINGS SHALL BE NO HIGHER THAN ONE FOOT (1') ABOVE THE FINISHED GRADE;
(C) OPENINGS MAY BE EQUIPPED WITH SCREENS, LOUVERS, VALVES OR OTHER COVERINGS OR DEVICES PROVIDED THEY PERMIT THE AUTOMATIC FLOW OF FLOODWATERS IN BOTH DIRECTIONS.

THE ENCLOSED AREA SHALL BE THE MINIMUM NECESSARY TO ALLOW FOR PARKING OF VEHICLES, STORAGE OR BUILDING ACCESS.

THE INTERIOR PORTION OF SUCH ENCLOSED AREA SHALL NOT BE FINISHED OR PARTITIONED INTO SEPARATE ROOMS IN SUCH A WAY AS TO IMPEDE THE MOVEMENT OF FLOODWATERS AND ALL SUCH PARTITIONS SHALL COMPLY WITH THE PROVISIONS OF 14-307(2)

FLOOD HAZARD REDUCTION NOTES:

(AS OUTLINED IN THE FLOOD DAMAGE PREVENTION ORDINANCE, 14-307. FOR THE CITY OF GATLINBURG, TENNESSEE.)

IN ALL FLOOD HAZARD AREAS, THE FOLLOWING PROVISIONS ARE REQUIRED:

(A) NEW CONSTRUCTION AND SUBSTANTIAL IMPROVEMENTS SHALL BE ANCHORED TO PREVENT FLOTATION, COLLAPSE AND LATERAL MOVEMENT OF THE STRUCTURE

(B) NOT APPLICABLE

(C) NEW CONSTRUCTION AND SUBSTANTIAL IMPROVEMENTS SHALL BE CONSTRUCTED WITH MATERIALS AND UTILITY EQUIPMENT RESISTANT TO FLOOD DAMAGE;

(D) NEW CONSTRUCTION AND SUBSTANTIAL IMPROVEMENTS SHALL BE CONSTRUCTED BY METHODS AND PRACTICES THAT MINIMIZE FLOOD DAMAGE;

(E) ALL ELECTRICAL, HEATING, VENTILATION, PLUMBING, AIR CONDITIONING EQUIPMENT, AND OTHER SERVICE FACILITIES SHALL BE DESIGNED AND/OR LOCATED SO AS TO PREVENT WATER FROM ENTERING OR ACCUMULATING WITHIN THE COMPONENTS DURING CONDITIONS OF FLOODING;

(F) NEW AND REPLACEMENT WATER SUPPLY SYSTEMS SHALL BE DESIGNED TO MINIMIZE OR ELIMINATE INFILTRATION OF FLOODWATERS INTO THE SYSTEM;

(G) NEW AND REPLACEMENT SANITARY SEWAGE SYSTEMS SHALL BE DESIGNED TO MINIMIZE OR ELIMINATE INFILTRATION OF FLOODWATERS INTO THE SYSTEMS AND DISCHARGES FROM THE SYSTEMS INTO FLOODWATERS;

(H) ON-SITE WASTE DISPOSAL SYSTEMS SHALL BE LOCATED AND CONSTRUCTED TO AVOID IMPAIRMENT TO THEM OR CONTAMINATION FROM THEM DURING FLOODING;

(I) ANY ALTERATION, REPAIR, RECONSTRUCTION OR IMPROVEMENTS TO A BUILDING THAT IS IN COMPLIANCE WITH THE PROVISIONS OF THIS ORDINANCE, SHALL MEET THE REQUIREMENTS OF "NEW CONSTRUCTION" AS CONTAINED IN THIS ORDINANCE;

(J) ANY ALTERATION, REPAIR, RECONSTRUCTION OR IMPROVEMENTS TO A BUILDING THAT IS NOT IN COMPLIANCE WITH THE PROVISION OF THIS ORDINANCE, SHALL BE UNDERTAKEN ONLY IF SAID NON-CONFORMITY IS NOT FURTHER EXTENDED OR REPLACED;

(K) ALL NEW CONSTRUCTION AND SUBSTANTIAL IMPROVEMENT PROPOSALS SHALL PROVIDE COPIES OF ALL NECESSARY FEDERAL AND STATE PERMITS, INCLUDING SECTION 404 OF THE FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS OF 1972, 33 USC 1334;

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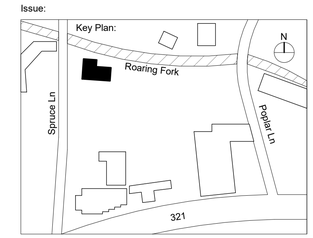

Key Plan

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General Project Notes

Date	04/18/2023
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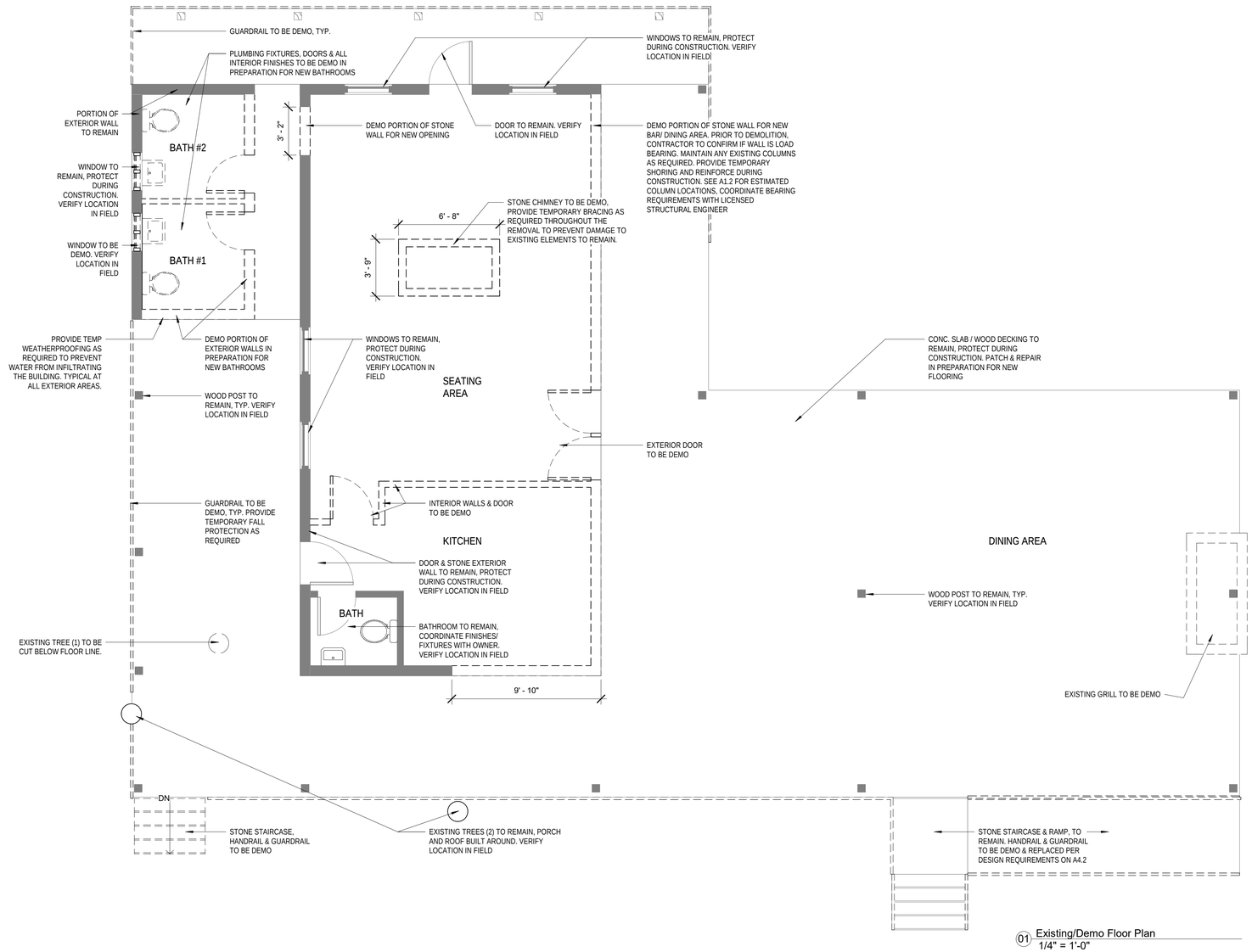

01 Existing/Demo Floor Plan
1/4" = 1'-0"

DEMOLITION GENERAL NOTES:

- INTERIOR PARTITIONS SHALL BE REMOVED AND DISPOSED AS INDICATED ON THIS PLAN & LEGEND.
- CONTRACTOR SHALL PATCH AND REPAIR DRYWALL CEILING THAT IS EXISTING TO REMAIN.
- EXISTING DOORS, DOOR FRAMES & HARDWARE SHALL BE REMOVED. (UNLESS OTHERWISE NOTED)
- THE CONTRACTOR SHALL FURNISH ALL LABOR MATERIALS & EQUIPMENT TO DISCONNECT, DISMANTLE, REMOVE & SALVAGE IN THE DISPOSITION OF DEMOLITION IN EXISTING SPACE.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO EXISTING STRUCTURE OR EQUIPMENT CAUSED BY THIS OPERATION AND SHALL NOT INTERFERE WITH EXISTING STRUCTURE SYSTEM.
- UPON COMPLETION OF DEMOLITION, THE ENTIRE AREA SHALL BE CLEANED OF ALL DEBRIS AND PREPARED FOR NEW CONSTRUCTION.
- EXISTING CONDITIONS NOT SHOWN ON THIS PLAN SHALL BE REVIEWED WITH OWNER PRIOR TO REMOVAL
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES AND SAFETY BARRIERS AS REQUIRED BY WORK, CONTRACTOR TO PROVIDE DUST CONTROL MEASURES.
- WHERE EXISTING TILE FLOOR IS TO BE REMOVED, CONTRACTOR SHALL PREPARE SLAB TO BE LEVEL & SMOOTH, READY TO RECEIVE NEW FINISH.
- CONTRACTOR SHALL LOCATE, IDENTIFY, STUB-OFF AND DISCONNECT UTILITY SERVICES THAT ARE NOT INDICATED TO REMAIN. FILL SLAB WITH SAME FIRE RATED INTEGRITY. REMOVE ALL ELECTRICAL WIRE, J-BOXES, HOOKUPS, ETC., IN EXISTING PARTITIONS AND TIE-OFF AT SOURCE. REMOVE AND PLUG WATER LINES AT SOURCE. (ONLY IF SO DENOTED)
- ALL ITEMS OF SALVAGEABLE VALUE, AS DETERMINED BY THE OWNER, SHALL BE CAREFULLY REMOVED, CLEANED, STORED AND TURNED OVER TO THE BUILDING MANAGER, CONTRACTOR TO OBTAIN A RECEIPT. THESE ITEMS SHALL BE STORED FOR THE BUILDING IN AN AREA DESIGNATED BY THE BUILDING MANAGER.
- CONTRACTOR SHALL VISIT AND INSPECT SITE PRIOR TO BID.
- ALL CEILING FIRE ALARM DEVICES (SPEAKERS, SMOKE DETECTORS) SHALL REMAIN, CONNECTED TO EXISTING SYSTEMS. (REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION)
- ALL EXISTING A/C DUCTWORK, DIFFUSERS (RETURN/SUPPLY) AIR DISTRIBUTION CONTRACTOR SHALL REMAIN. (REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION)
- CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AND SHALL PROTECT THE BUILDING STRUCTURE AND ALL EXISTING MATERIAL AND EQUIPMENT NOT SCHEDULED FOR DEMOLITION.
- CONTRACTOR SHALL COORDINATE TO ENSURE UTILITY SYSTEMS REMAIN IN OPERATION AS NEEDED TO ACCOMMODATE DEMOLITION ACTIVITIES. COORDINATE INTERRUPTIONS TO UTILITIES WITH THE OWNER.
- CONTRACTOR SHALL PRACTICE ALL PRACTICAL CARE TO PROVIDE DUST AND NOISE CONTROL PROTECTION. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION
- IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, COMPLY WITH APPLICABLE REGULATIONS, LAWS AND ORDINANCES CONCERNING REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING (FURNISHING AND INSTALLING) ALL ITEMS DESCRIBED IN THE DRAWINGS FOR A COMPLETE INSTALLATION REGARDLESS OF WHERE OR HOW IT IS SHOWN, UNLESS THEY ARE MARKED N.I.C. (NOT IN CONTRACT). CONTRACTOR SHALL COORDINATE AND FACILITATE INSTALLATION OF ALL ITEMS FOR WORK MARKED N.I.C. REFER TO DRAWINGS.
- CONTRACTOR SHALL OBTAIN ALL PERMITS WITH APPLICABLE BUILDING DEPARTMENTS AND SHALL OBSERVE AND FOLLOW ALL APPLICABLE ORDINANCES AND CODES.
- THE LATEST VERSION OF THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION BY THE AMERICAN INSTITUTE OF ARCHITECTS SHALL APPLY.
- CONTRACTOR SHALL REMOVE, CUT AND PATCH ALL EXISTING CONSTRUCTION AND FINISHES AS REQUIRED TO PREPARE THE PREMISES FOR NEW WORK AND ALTERED WORK.
- FOR ALL DEMOLITION WORK AND REMOVAL OF CONSTRUCTION DEBRIS, THE CONTRACTOR IS TO COORDINATE WITH THE BUILDING ENGINEER IN ORDER THAT IT WILL NOT INTERFERE WITH THE EXISTING TENANTS.
- ALL EXISTING SURFACES THAT ARE WITHIN THE SCOPE OF NEW WORK SHALL BE EXAMINED FOR CRACKS, WAVES, IMPERFECTIONS AND IRREGULARITIES: ALL SURFACES SHALL BE EITHER PATCHED OR PLASTERED AND MADE READY TO RECEIVE NEW FINISHES OR MADE TO MATCH OR ALIGN WITH ALL EXISTING MATERIALS AND FINISHES.
- REPAIR AND RESTORE, TO MATCH AND ALIGN WITH ALL EXISTING MATERIAL AND FINISH, ALL WORK BEYOND LIMITS OF NEW WORK THAT IS DAMAGED OR ALTERED DURING THE EXECUTION OF THE WORK IN THIS CONTRACT.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE THAT OCCURS TO THE EXISTING BUILDING, OTHER FLOOR AREAS AND TENANT SPACE CAUSED BY THE NEW CONSTRUCTION.
- ALL SPRINKLER HEADS, DOWNLIGHTS, SPEAKERS, SMOKE DETECTORS AND ALL OTHER DEVICES, UNLESS OTHERWISE NOTED SHALL REMAIN AND OR BE REUSED/RELOCATED. (REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION)
- ALL PENETRATION FIRESTOPS FOR METAL PIPE AND INSULATED PIPE SHALL BE IN ACCORDANCE WITH UNDERWRITERS LABORATORY TEST ASSEMBLY UL 1479.
- CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE FIRE ENVELOPE DURING DEMOLITION AND CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY DESIGNER OR CLIENT OF ANY EXISTING CONDITIONS NOT SHOWN ON THIS PLAN AND SHALL REVIEW THESE PRIOR TO PROCEEDING WITH WORK.
- ANY ELECTRICAL & PLUMBING LINES WHICH REQUIRE REMOVAL AND/OR ALTERATION CONTRACTOR SHALL CAP & FILL SLAB/PARTITION WITH SAME FIRE RATED INTEGRITY.
- ALL EXISTING FIRE EXTINGUISHERS SHALL REMAIN, UNLESS IMPACTED BY DEMOLITION. STORE EXTINGUISHERS IN IMPACTED AREA SHALL BE STORED FOR REUSE IN TENANT SPACE.

EXISTING/DEMO PLAN LEGEND:

- AREA NOT IN SCOPE - EXISTING TO REMAIN
- WALL TO REMAIN
- WALL TO BE DEMOLISHED
- DOOR TO REMAIN
- DOOR TO BE REMOVED

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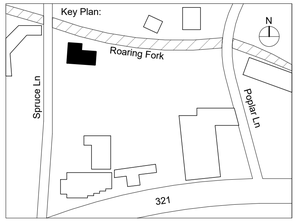

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Demolition Plan

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TAYLOR HEIM REGISTERED ARCHITECT No. 107601 STATE OF TENNESSEE 04-18-23

Sheet No.:

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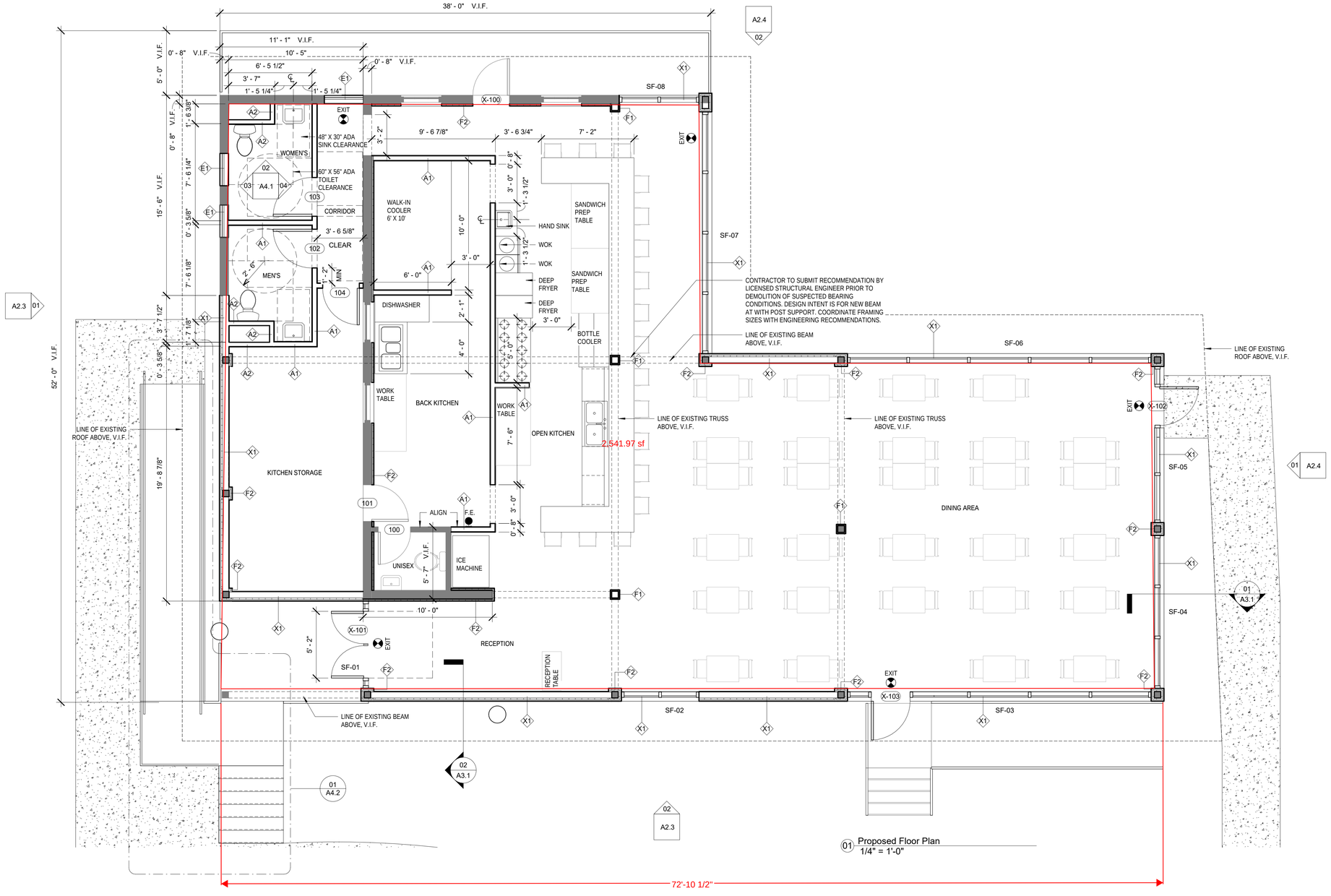


FLOOR PLAN GENERAL NOTES:

1. DESIGN SCOPE INCLUDES MODIFICATION OF EXISTING SUSPECTED BEARING CONDITIONS. NEW STRUCTURAL MEMBERS AND CONNECTIONS SHALL COMPLY WITH THE DETAILING PROVISIONS OF THE INTERNATIONAL BUILDING CODE. LICENSED SUB-CONTRACTOR TO PROVIDE STRUCTURAL FRAMING DETAILS AS REQUIRED.
2. PROVIDE ADEQUATE BRACING AND SHORING OF MODIFIED BEARING CONDITIONS PRIOR TO WORK. COORD. ANY ADDITIONAL FOUNDATION REQUIREMENTS FOR NEW BEARING CONDITIONS AS NECESSARY.
3. FIELD VERIFY EXISTING CONDITIONS. COORDINATE NEW WORK WITH CONFIRMED CONDITIONS.
4. COORDINATE MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS AS RQD. FOR CONSTRUCTION. REFER TO LOCAL CODE COMPLIANCE AUTHORITIES.
5. FIXTURES, FINISHES, APPLIANCES, AND EQUIPMENT ARE TO BE COORDINATED WITH THE OWNER.

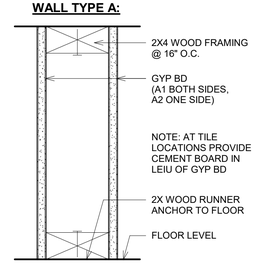
WALL CONSTRUCTION GENERAL NOTES:

1. REFER TO FLOOR PLAN FOR THE LOCATION OF PARTITION AND WALL TYPES. WALL TYPES TO BE AS FOLLOWS U.N.O:

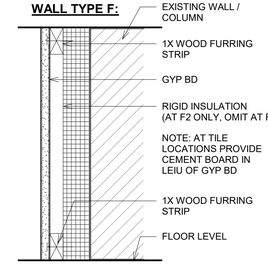
   A1 - INTERIOR WALLS - 2X4 STUDS AT 16" O.C. W/ GYP BD AT BOTH SIDES
   A2 - INTERIOR WALLS - 2X4 STUDS AT 16" O.C. W/ GYP BD AT ONE SIDE
   F1 - INTERIOR WALL FURRING - 1X2 FURRING STRIPS W/ GYP BD FINISH
   F2 - EXTERIOR WALL FURRING - RIGID INSULATION, 1X2 FURRING W/ GYP BD FINISH AT INTERIOR
   X1 - EXTERIOR WALLS - 2X6 STUDS AT 24" O.C. W/ GYP BD AT INTERIOR AND FIBER CEMENT SIDING AT EXTERIOR
   E1 - EXISTING EXTERIOR INFILL WALL - INFILL EXISTING WALL WITH SIDING TO MATCH, VERIFY CONDITIONS IN FIELD.
   E2 - EXISTING EXTERIOR INFILL WALL - INFILL EXISTING WALL WITH STONE TO MATCH, VERIFY CONDITIONS IN FIELD.

2. CONTRACTOR SHALL INSTITUTE ALL MEASURES NECESSARY TO ACHIEVE WEATHER-TIGHTNESS OF EXTERIOR WALLS BY ALLOWING POSITIVE DRAINAGE OF WATER TO THE EXTERIOR TO OCCUR WHERE THROUGH-WALL FLASHING IS INDICATED OR RQD.
3. AT CAVITY WALL CONSTRUCTION, ADHESIVE INSTALL THROUGH-WALL FLASHING ON CMU/CONCRETE OR SHEATHING OVER STUDS, UPWARD MIN. 6" AND PANUP THROUGH-WALL FLASHING AT ENDS MINIMUM 6". DO NOT MECHANICALLY FASTEN, PENETRATE, OR PUNCTURE THROUGH-WALL FLASHING. THROUGHWALL FLASHING TO DIRECT ALL MOISTURE TO EXTERIOR FACE OF WALL.
4. PROVIDE CAULKED CONTROL JOINTS WHERE LOAD BEARING ABUTS NON-LOAD BEARING CONDITIONS OR WHERE WALLS OF DIFFERENT HEIGHTS ABUT.
5. EXPOSED EARTH IN CRAWLSPACE TO BE COVERED W/ CLASS I VAPOR BARRIER RETARDER. SEAL, TAPE, AND OVERLAP JOINTS MIN. 6"

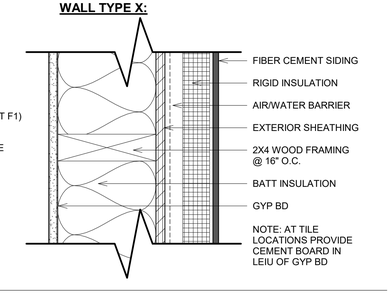
WALL TYPE A:



WALL TYPE F:



WALL TYPE X:



Spruce Lane

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122 Spruce Ln,
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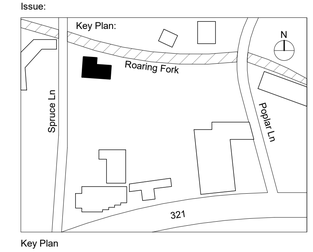

Key Plan

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Floor Plan

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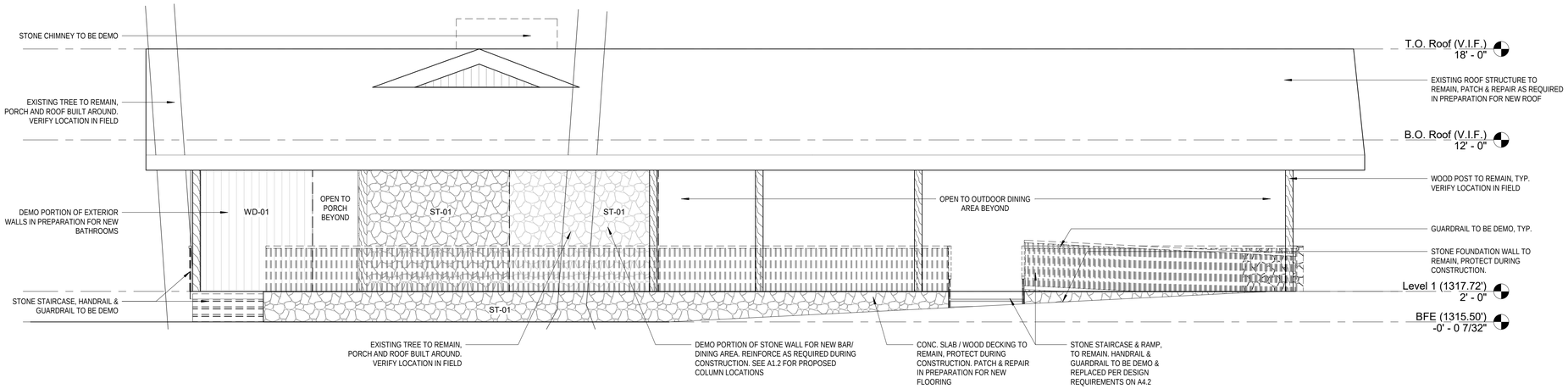
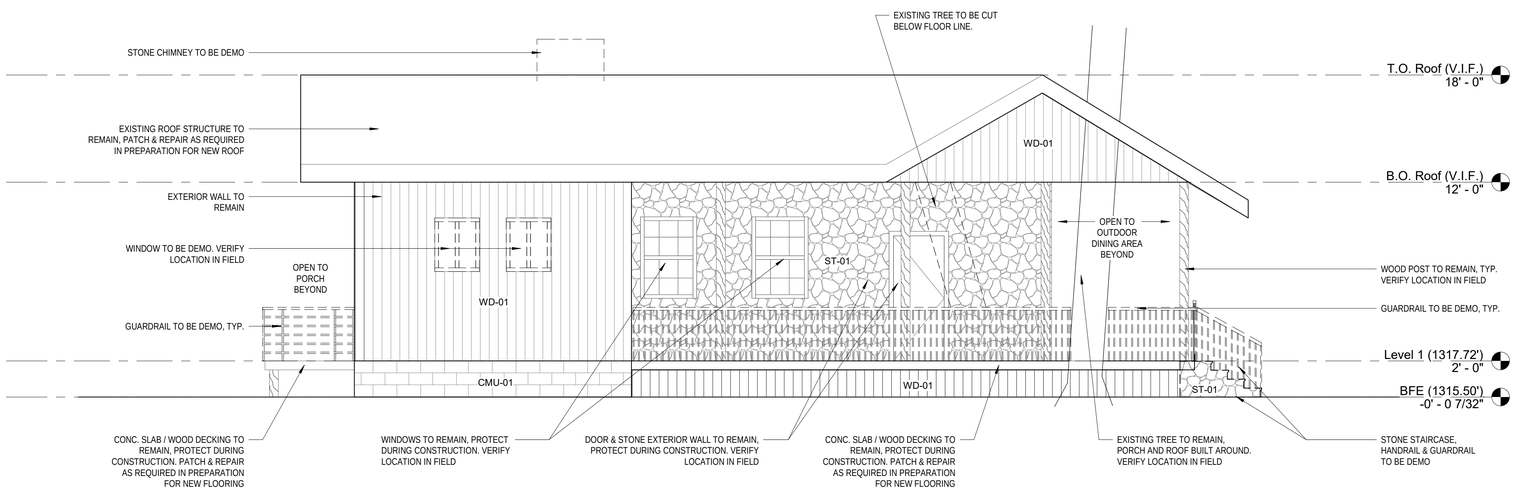


02 South Elevation Existing
1/4" = 1'-0"



01 West Elevation Existing
1/4" = 1'-0"

EXISTING MATERIALS LEGEND:

- WD-01 , WOOD SIDING
- ST-01, STONE
- WOOD POST
- CMU-01, CONCRETE MASONRY

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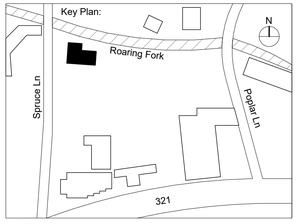

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Existing Exterior Elevations

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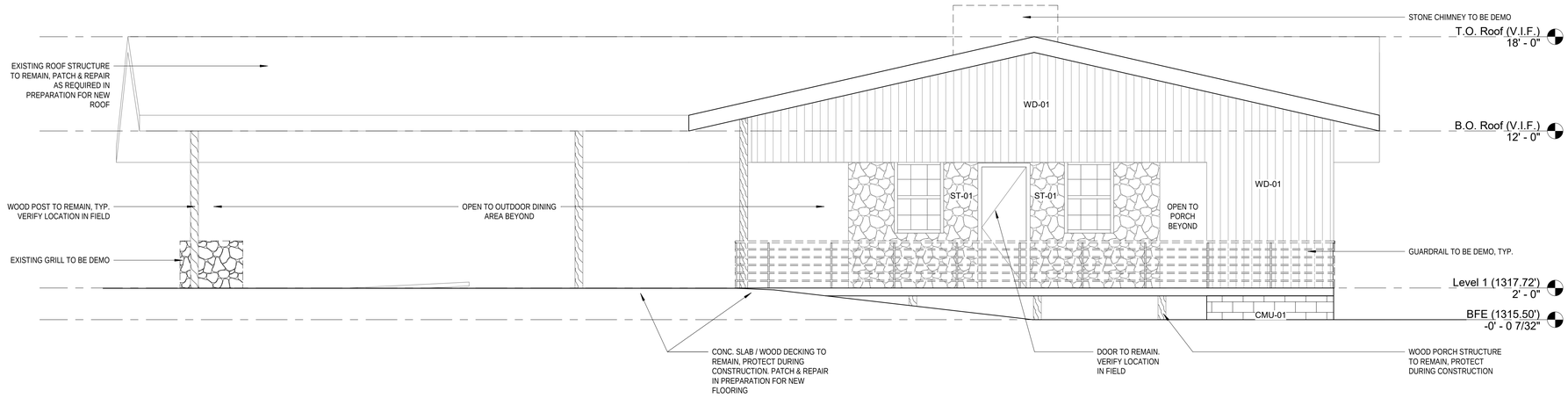

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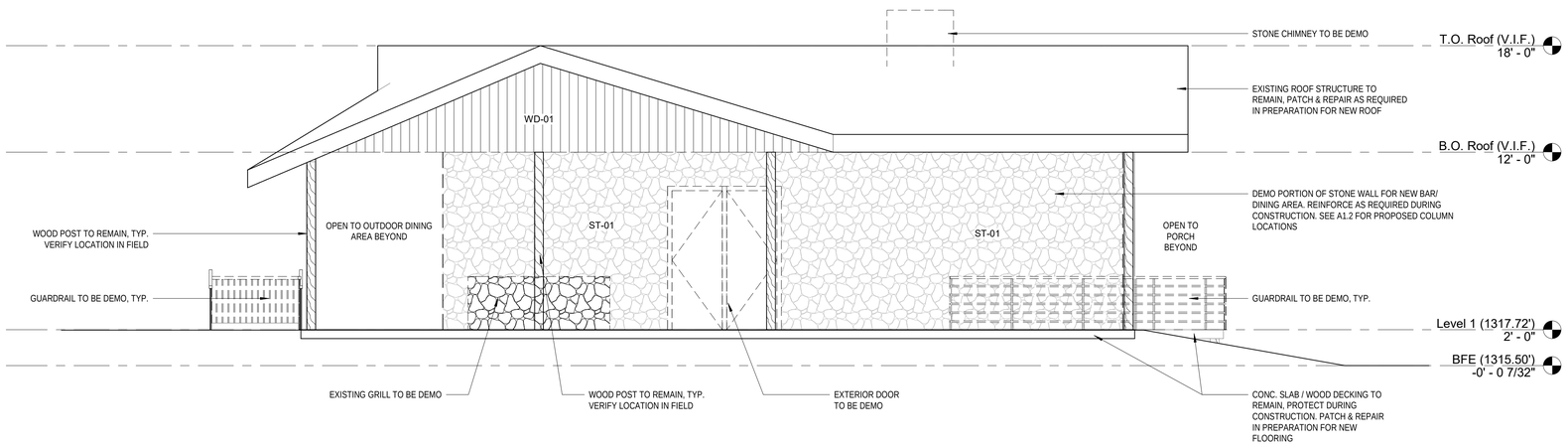
1/4" = 1'-0"



01 East Elevation Existing
1/4" = 1'-0"

EXISTING MATERIALS LEGEND:

- WD-01 , WOOD SIDING
- ST-01, STONE
- WOOD POST
- CMU-01, CONCRETE MASONRY

Spruce Lane

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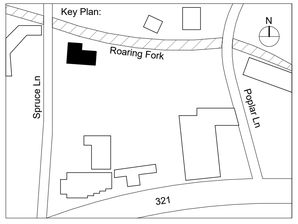

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Existing Exterior Elevations

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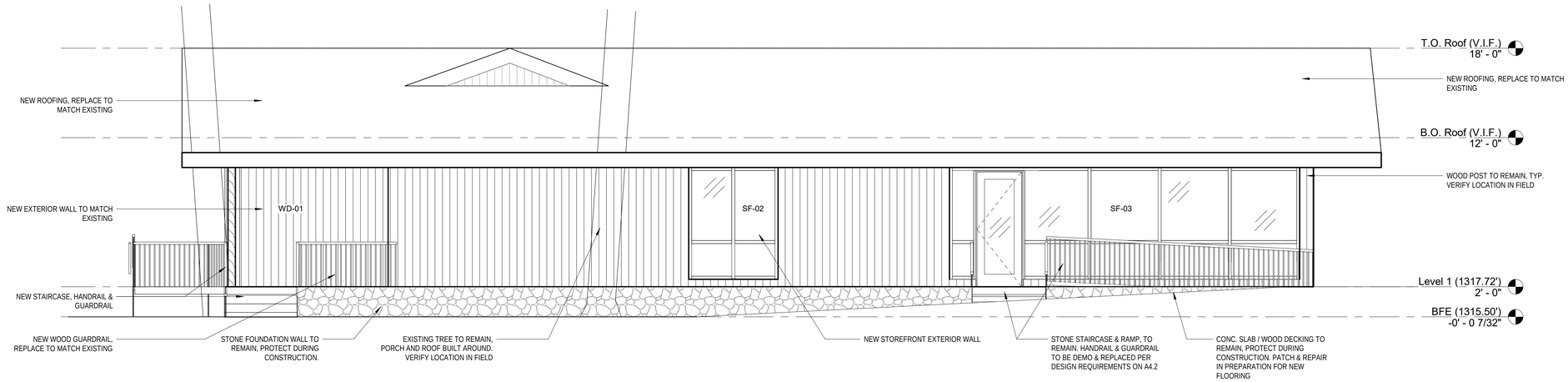
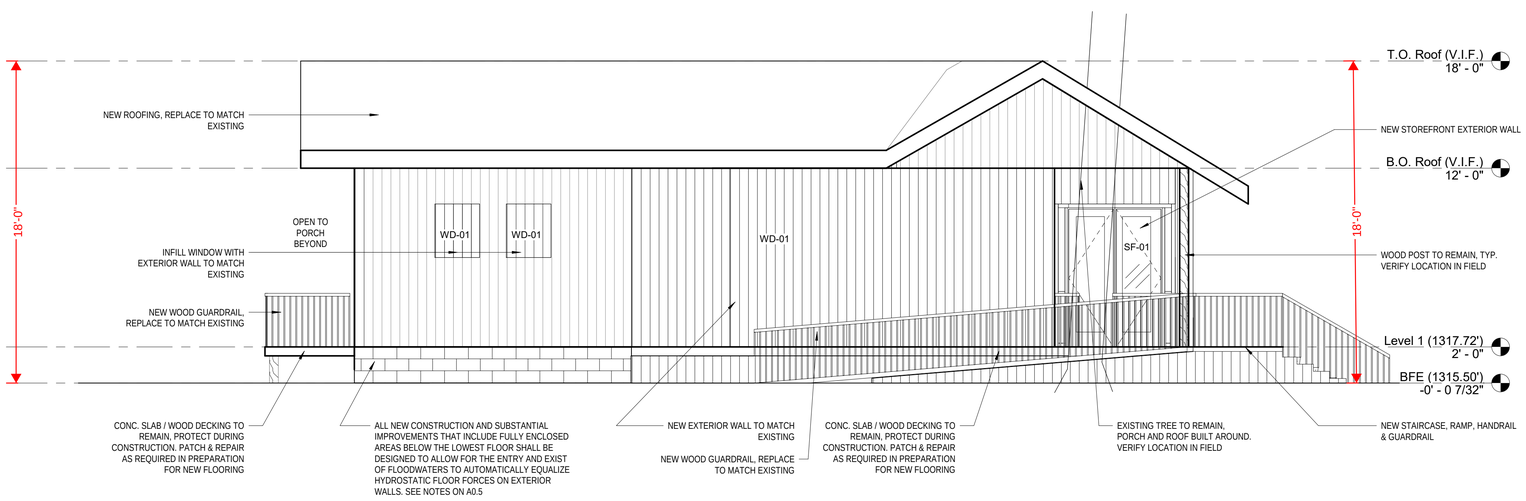


02 South Elevation Proposed
1/4" = 1'-0"



01 West Elevation Proposed
1/4" = 1'-0"

PROPOSED MATERIALS LEGEND:

- WD-01 , WOOD SIDING TO MATCH EXISTING
- ST-01, STONE TO MATCH EXISTING
- CMU-01, CONCRETE MASONRY TO MATCH EXISTING
- SF-0X, NEW STOREFRONT WALL

ENERGY CODE REQUIREMENTS

Alterations to existing buildings or structures are permitted without requiring the entire building or structure to comply with the energy requirements of the INTERNATIONAL ENERGY CONSERVATION CODE (2018 IECC). Alterations to the existing building have been designed to meet the requirements of the 2018 IECC Climate Zone 4.

SECTION C402.4.1

The vertical fenestration area, not including opaque doors and opaque spandrel panels, shall not be greater than 30 percent of the gross above-grade wall area.

TOTAL EXTERIOR WALL AREA PROPOSED:	2,724	SF
OPAQUE EXTERIOR WALL AREA:	1,952	SF
PROPOSED FENESTRATION AREA:	772	SF

2,724 * 0.30 = 817 SF ALLOWABLE FENESTRATION, *COMPLIES*

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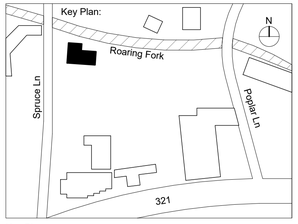

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Exterior Elevations

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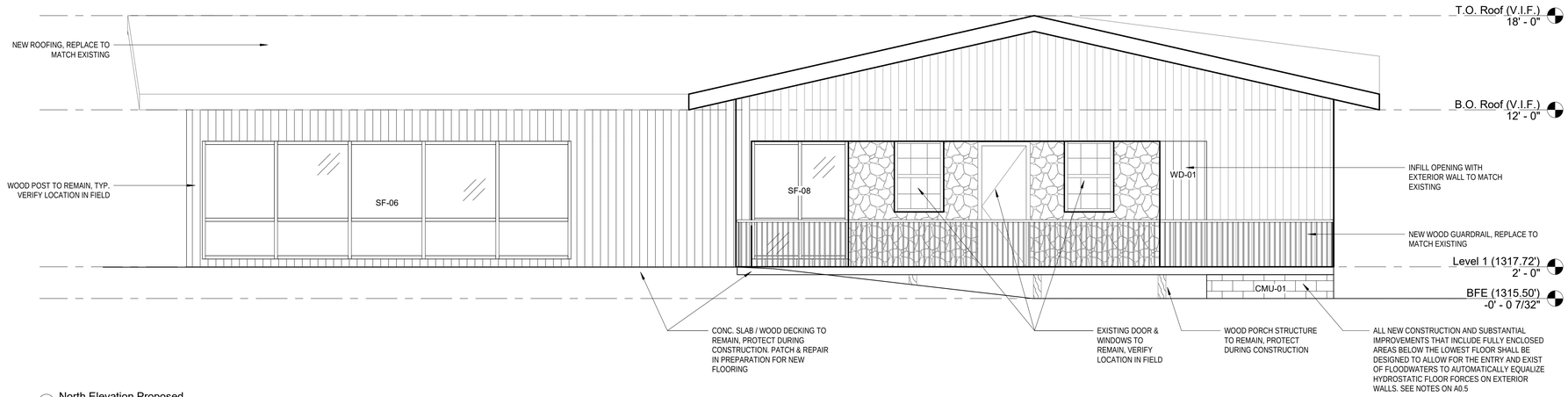

02 North Elevation Proposed
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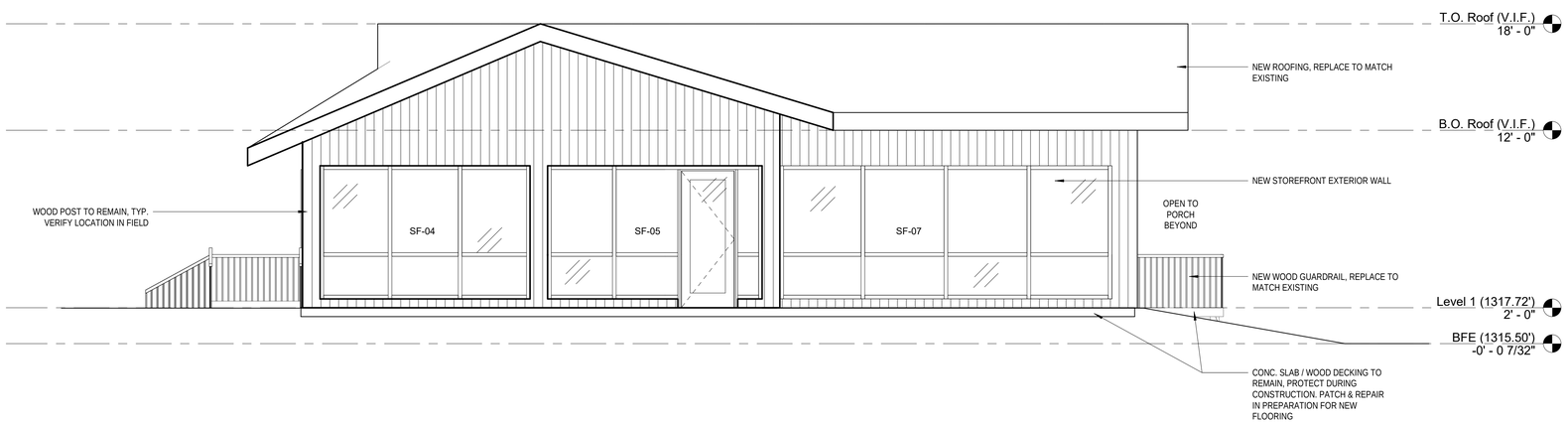

01 East Elevation Proposed
1/4" = 1'-0"

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- WD-01 , WOOD SIDING TO MATCH EXISTING
- ST-01, STONE TO MATCH EXISTING
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- SF-0X, NEW STOREFRONT WALL

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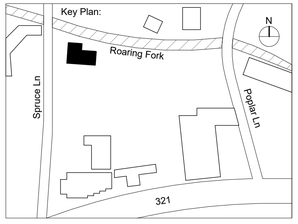

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04-18-23

Sheet No.:

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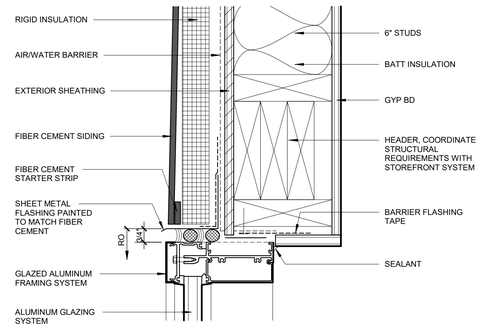
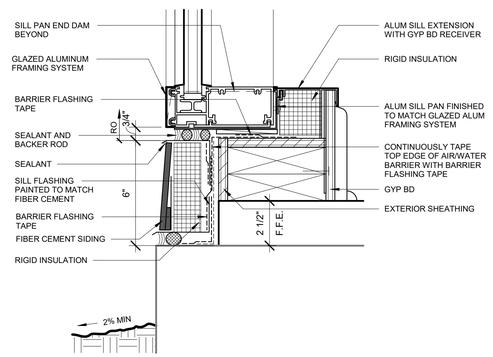
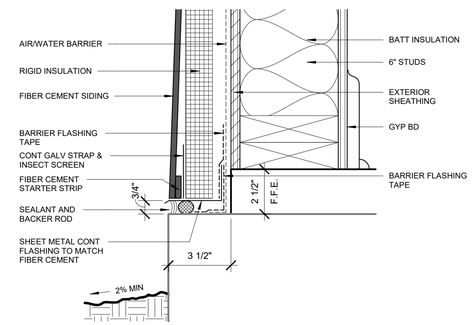


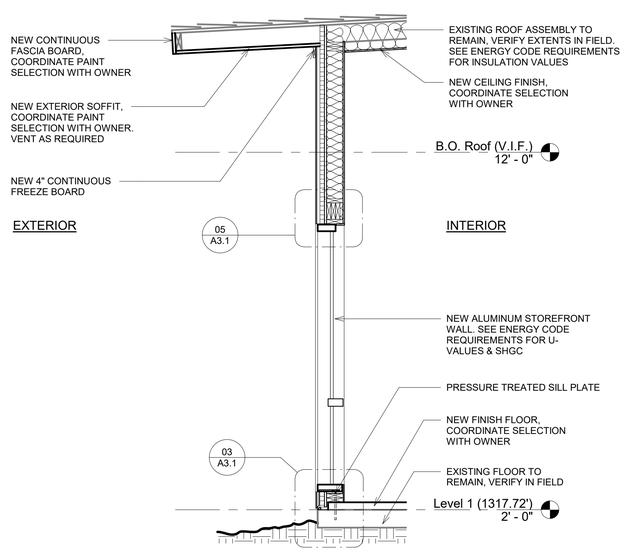
05 STOREFRONT WALL HEAD DETAIL
3" = 1'-0"



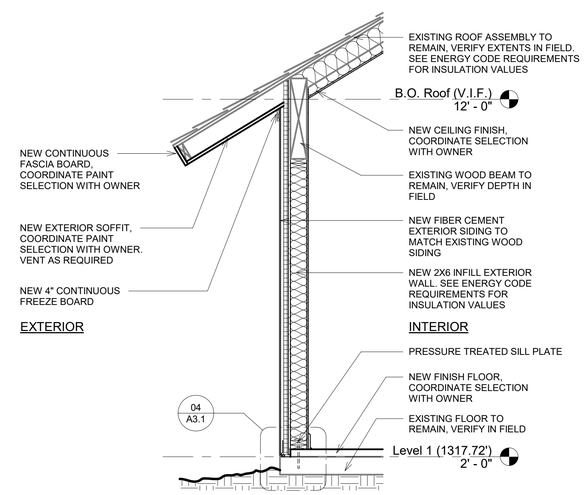
03 STOREFRONT WALL BASE DETAIL
3" = 1'-0"



04 EXTERIOR WALL BASE DETAIL
3" = 1'-0"



01 X1 - WALL SECTION 02
1/2" = 1'-0"



02 X1 - WALL SECTION 01
1/2" = 1'-0"

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TABLE C402.1.3

BUILDING COMPONENT	R-VALUE REQUIRED
ROOFS	
INSULATION ENTIRELY ABOVE ROOF DECK	R-30ci
ATTIC & OTHER	R-38
WALLS, ABOVE GRADE	
MASS	R-9.5ci
METAL FRAMED	R-13 + R-7.5ci
WOOD FRAMED & OTHER	R-13 + R-3.8ci or R-20
WALLS, BELOW GRADE	
BELOW GRADE WALLS	R-7.5ci
FLOORS	
MASS	R-10ci
JOISTS/FRAMING	R-30
SLAB ON GRADE FLOORS	
UNHEATED SLABS	R-10 for 24" below
OPAQUE DOORS	
NONSWINGING	R-4.75

TABLE C402.4

BUILDING COMPONENT		U-FACTOR REQUIRED
VERTICAL FENESTRATION		
FIXED FENESTRATION		0.38
OPERABLE FENESTRATION		0.45
ENTRANCE DOORS		0.77
ORIENTATION		SHGC REQUIRED
VERTICAL FENESTRATION		
PF < 0.2	SEW	0.36
	N	0.48
0.2 ≤ PF < 0.5	SEW	0.43
	N	0.53
PF ≥ 0.5	SEW	0.58
	N	0.58

NOTE TO CONTRACTOR: Prior to the issuance of a Certificate of Occupancy, the Mechanical Subcontractor must provide proof of air system balancing capabilities, hydronic system balancing capabilities (if present) and an operating and maintenance manual to the Owner.

Spruce Lane

122 Spruce Lane | Gatlinburg, TN
37738

Client:
Gatlinburg Vittales, LLC
122 Spruce Ln,
Gatlinburg, TN 37738

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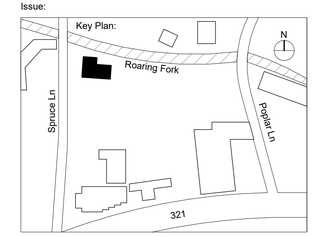
Revisions:

Issue:



Key Plan

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Exterior Wall Details

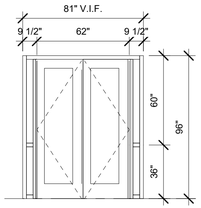
Date	04/18/2023
Scale	As indicated
Drawn By	THE
Checked By	JE
Project No.	2204

Seal

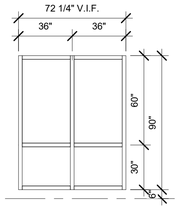
TAYLOR HEIM REGISTERED ARCHITECT AGENT OF RECORD No. 107601 STATE OF TENNESSEE
04-18-23

Sheet No.:

A3.1



01 SF-01
1/4" = 1'-0"



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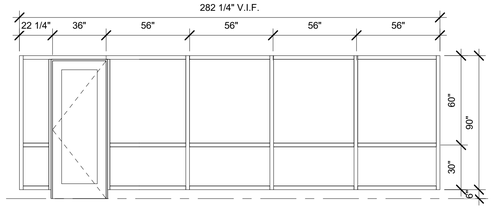

03 SF-03
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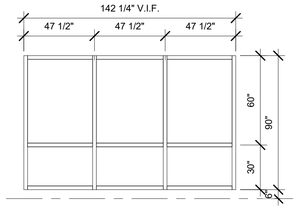

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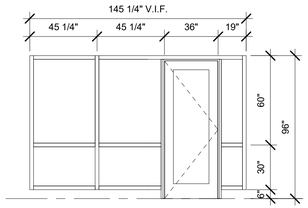

05 SF-05
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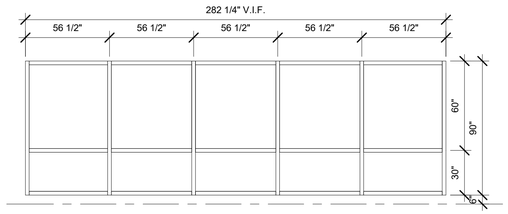
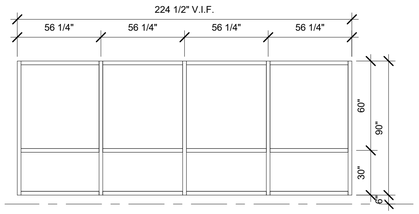
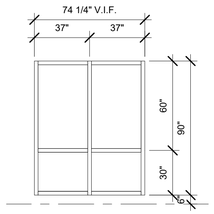


06 SF-06
1/4" = 1'-0"



07 SF-07
1/4" = 1'-0"



08 SF-08
1/4" = 1'-0"

Door Schedule					
Mark	Comments	Width	Height	Construction Type	Frame Type
100	Existing Interior Door	2' - 6"	7' - 0"	VERIFY EXISTING CONDITIONS IN FIELD	V.I.F.
101	Existing Interior Door	2' - 10"	7' - 0"	VERIFY EXISTING CONDITIONS IN FIELD	V.I.F.
102	Interior Door, ADA Hardware Required	3' - 0"	7' - 0"	TYPE A, HOLLOW METAL - FLUSH SINGLE	TYPE 1
103	Interior Door, ADA Hardware Required	3' - 0"	7' - 0"	TYPE A, HOLLOW METAL - FLUSH SINGLE	TYPE 1
104	Interior Door	2' - 10"	7' - 0"	TYPE A, HOLLOW METAL - FLUSH SINGLE	TYPE 1
X-100	Existing Exterior Door	2' - 10"	7' - 8 1/2"	VERIFY EXISTING CONDITIONS IN FIELD	V.I.F.
X-101	Exterior Storefront Double Door, ADA Hardware Required	5' - 2"	7' - 8 1/2"	TYPE C2, ALUMINUM STOREFRONT	TYPE 3
X-102	Exterior Storefront Door, ADA Hardware Required	3' - 0"	7' - 8 1/2"	TYPE C1, ALUMINUM STOREFRONT	TYPE 3
X-103	Exterior Storefront Door, ADA Hardware Required	3' - 0"	7' - 8 1/2"	TYPE C1, ALUMINUM STOREFRONT	TYPE 3

SAFETY GLASS LOCATIONS

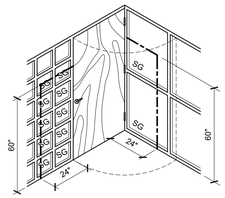
NOTE:
NOT ALL CONDITIONS SHOWN BELOW ARE APPLICABLE TO THE SCOPE OF WORK.

GLASS SCHEDULE

GLASS PRODUCT SCHEDULE FOR WALLS AND DOORS						
NP - NOT PERMITTED A - ACCEPTABLE NR - NOT RECOMMENDED	* - NOT ALLOWED AT SHOWER ENCLOSURES	ANNEALED	WIRED	TEMPERED	LAMINATED	FIRE-RATED
FIRE -RATED	SAFETY NOT REQUIRED	NP	A	NP	NP	A
	SAFETY REQUIRED	NP	NP	NP	NP	A
NON-FIRE -RATED	SAFETY NOT REQUIRED	A	A	A	A	NR
	SAFETY REQUIRED	NP	NP	*	A	NR

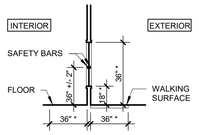
SAFETY GLAZING (SG) IS REQUIRED FOR

CLOSE PROXIMITY TO DOORS



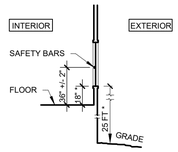
GLAZED OPENINGS IN DOORS

GLAZED OPENINGS IN PARTITIONS



SAFETY GLASS IS REQUIRED WHEN ALL OF THE FOLLOWING CONDITIONS ARE PRESENT
* TOP OF GLAZING IS GREATER THAN / EQUAL 36" AFF
* AREA OF SINGLE PANE > 9 SF
* BOTTOM OF GLAZING IS LESS THAN / EQUAL 18" AFF
* WALKING SURFACE IS LOCATED WITHIN 36" OF ONE OR BOTH SIDES

EXCEPTION:
GLASS DOES NOT NEED TO BE SAFETY GLASS WHEN 1 1/2" SAFETY BAR IS INSTALLED WHERE WALKING SURFACE IS WITHIN 36" OF GLASS

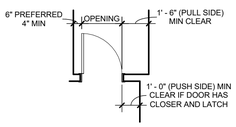


SAFETY GLASS IS REQUIRED AT INTERIOR LITE WHEN BOTTOM OF GLAZING IS LESS THAN / EQUAL 18" AFF

EXCEPTION:
INTERIOR LITE DOES NOT NEED TO BE SAFETY GLASS WHEN 1 1/2" SAFETY BAR IS INSTALLED

SAFETY GLASS IS REQUIRED FOR EXTERIOR LITE EXCEPT WHEN THE BOTTOM OF THE GLAZING IS GREATER THAN / EQUAL 25 FT ABOVE GRADE

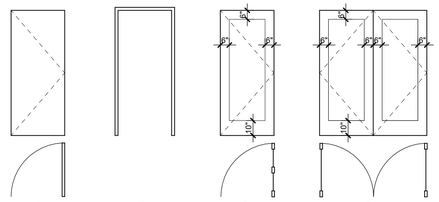
DOOR LOCATION



A. DOORS SHOWN ADJACENT TO A FLANKING WALL OR OTHER FIXED OBSTRUCTION, SHALL BE LOCATED AS SHOWN ABOVE.

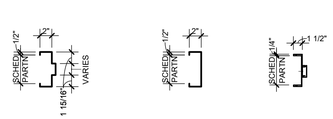
B. OTHER LOCATIONS SHALL BE ON CENTERLINE OF ROOM OR AS SPECIFICALLY DIMENSIONED.

DOOR LEGEND



A — FLUSH SINGLE
B — CASED OPENING
C1 — ALUMINUM SINGLE
C2 — ALUMINUM DOUBLE

DOOR FRAME TYPES

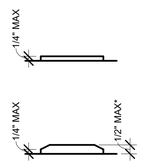


TYPICAL - HOLLOW METAL **1**

CASE OPENING **2**

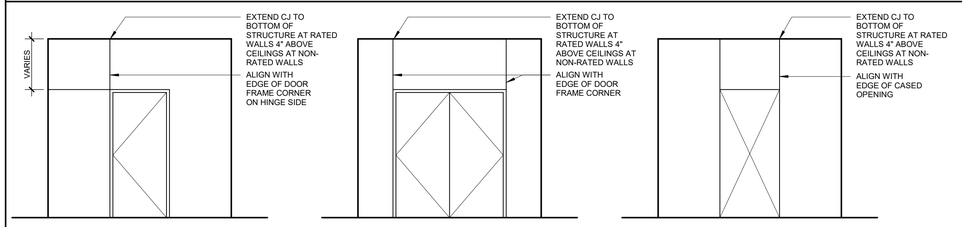
TYPICAL - ALUMINUM **3**

THRESHOLD



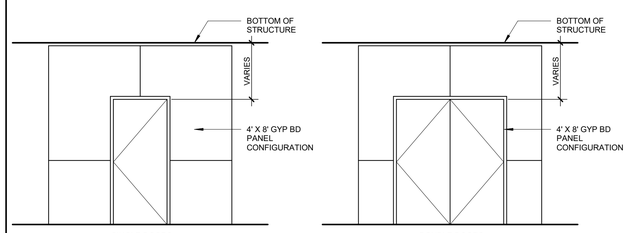
*(3/4" MAX FOR EXISTING ALTERED THRESHOLDS)

CONTROL JOINT AT DOOR FRAMES



SINGLE DOORS — DOUBLE DOORS — CASED OPENING

GYPSUM BD CONFIGURATION AT DOORS



SINGLE DOORS — DOUBLE DOORS

DOOR CONSTRUCTION GENERAL NOTES:

-SUBCONTRACTOR TO CONSULT WITH OWNER FOR KEYING AND HARDWARE REQUIREMENTS.

-VEFIRY FIELD MEASUREMENTS & R.O. DIMENSIONS PRIOR TO FABRICATION.

-CONTRACTOR TO UNDERCUT DOORS AS REQUIRED TO ACHIEVE PROPER AIRFLOW AND MEET VENTILATION REQUIREMENTS.

-HINGES TO MATCH DOOR HARDWARE. HINGE SIZE AND QUANTITY PER DOOR SIZE AND WEIGHT REQUIREMENTS. SEE HARDWARE MFG REQUIREMENTS.

-ALL GLAZING TO BE CLEAR GLASS U.N.O. INSULATED UNITS TO BE GLAZED WITH LOW 'E' GLAZING AND ARGON-FILLED.

-CONTRACTOR TO VERIFY R.O. SIZES FOR WINDOWS & DOORS AND COORDINATE WITH FRAMING.

-DOORS TO MATCH FRAMES AT ALL LOCATIONS.

-ALL GLAZING IN WINDOWS AND DOORS TO COMPLY WITH SAFETY GLAZING REQUIREMENTS AS REQUIRED BY BUILDING CODE AND MFG. RECOMMENDATIONS.

-PROVIDE FULL-TEMPERED GLAZING UNITS AT ALL WINDOW LOCATIONS ADJACENT TO DOORS.

-FLASH ALL OPENINGS TO ACCEPTABLE INDUSTRY AND APPLICABLE BUILDING CODE STANDARDS.

-PROVIDE INSECT SCREENS AT ALL OPERABLE PANELS.

Spruce Lane

122 Spruce Lane | Gatlinburg, TN
37738

Client:
Gatlinburg Vittales, LLC
122 Spruce Ln,
Gatlinburg, TN 37738

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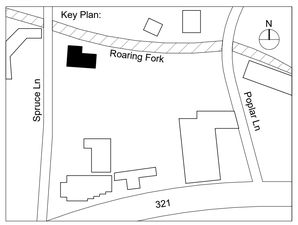
Revisions:

Issue:



Key Plan

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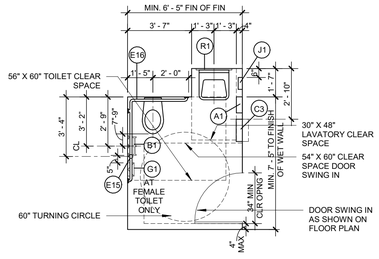
Door & Storefront Elevations

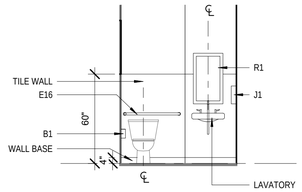
Date	04/18/2023
Scale	As indicated
Drawn By	GN
Checked By	THE
Project No.	2204
Sheet No.:	A3.2

Seal

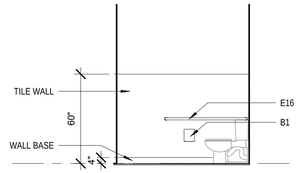
TAYLOR HEIM REGISTERED ARCHITECT No. 10760 STATE OF TENNESSEE 04-18-23



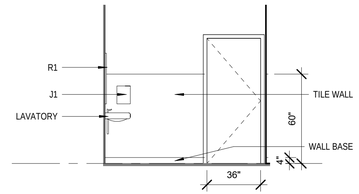
01 ACCESSIBLE BATHROOM PLAN
1/4" = 1'-0"



02 ACCESSIBLE BATHROOM ELEVATION 1
1/4" = 1'-0"



03 ACCESSIBLE BATHROOM ELEVATION 2
1/4" = 1'-0"



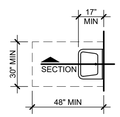
04 ACCESSIBLE BATHROOM ELEVATION 3
1/4" = 1'-0"

TILE INSTALLATION NOTES:

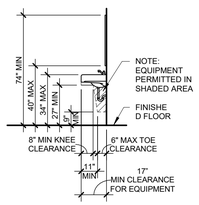
ALL TILE TO BE INSTALLED USING APPROPRIATE METHODS AS DETAILED IN THE 2009 TCA HANDBOOK FOR CERAMIC TILE INSTALLATION. COORDINATE TILE PATTERN WITH EXPANSION JOINTS AS REQ'D.

INSTALL WALL TILE OVER TILE BACKER W/ MOISTURE BARRIER.

AT WALL BASE, PROVIDE RUBBER GUARD AS PER IBC



ACCESSIBLE WALL MOUNTED
LAVATORY FRONT APPROACH



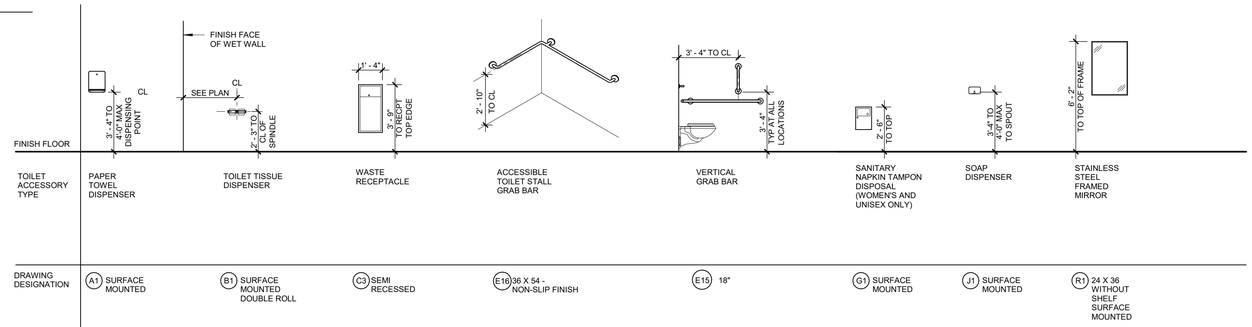
ACCESSIBLE WALL MOUNTED
LAVATORY FRONT APPROACH SECTION

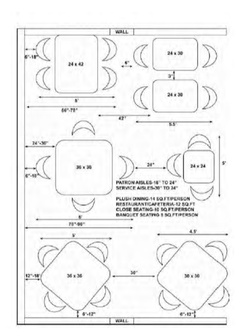
TOILET ACCESSORY MOUNTING DIAGRAM

NOTE:

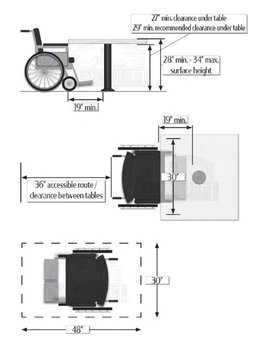
1. ACCESSORIES LISTED MAY HAVE GAPS IN ALPHABETICAL LISTING.

2. ACCESSORIES CAN APPEAR ON FLOOR PLANS OR INTERIOR ELEVATIONS.





TYPICAL TABLE DIMENSIONS AND CLERANCES



TYPICAL TABLE DIMENSIONS AND CLERANCES FOR ACCESIBLE TABLES

Spruce Lane

122 Spruce Lane | Gatlinburg, TN 37738

Client:
Gatlinburg Vittales, LLC
122 Spruce Ln,
Gatlinburg, TN 37738

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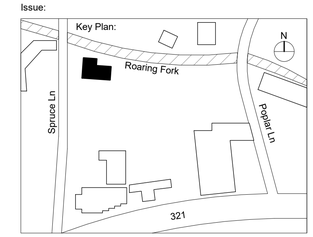
Issue:



Key Plan

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Accessibility Details

Date	04/18/2023
Scale	1/4" = 1'-0"
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Checked By	JE
Project No.	2204

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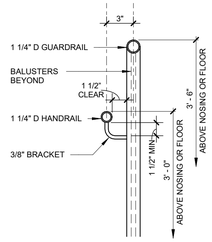
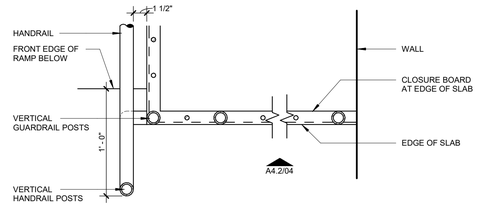
Sheet No.:

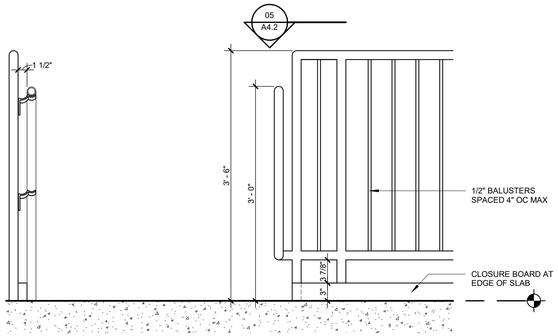
A4.1



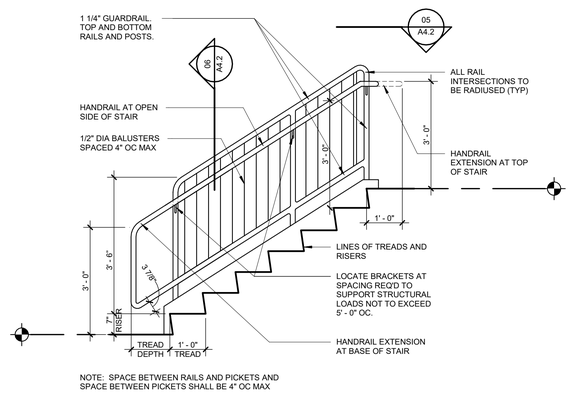
06 HANDRAIL AND GUARDRAIL SECTION
1 1/2" = 1'-0"



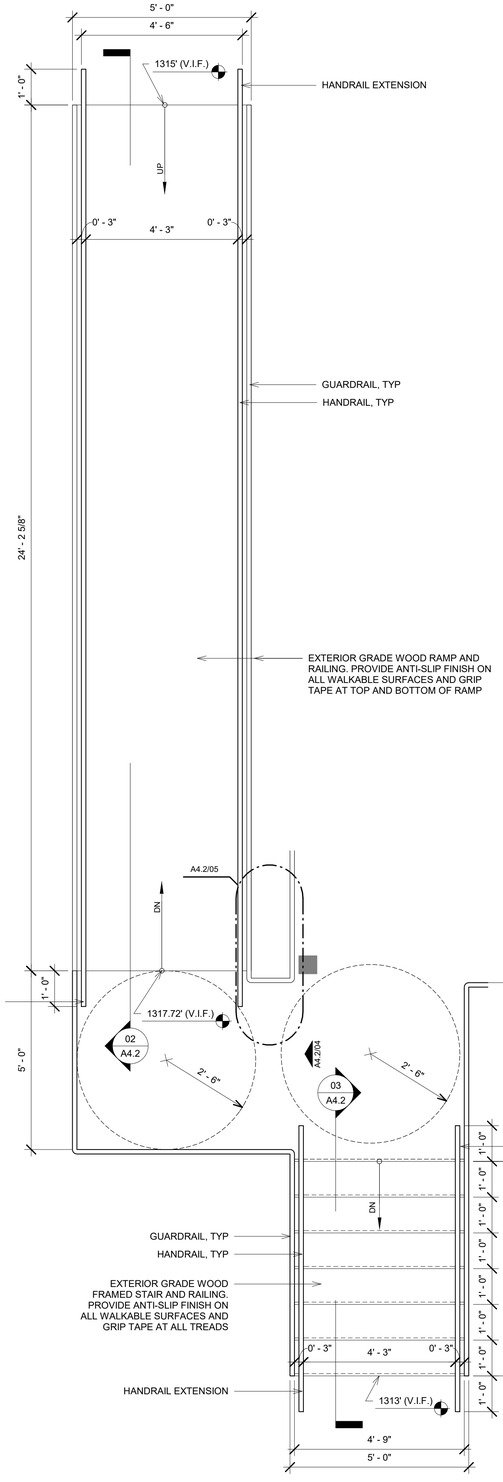
05 HANDRAIL AND GUARDRAIL PLAN AT TOP LANDING
1 1/2" = 1'-0"



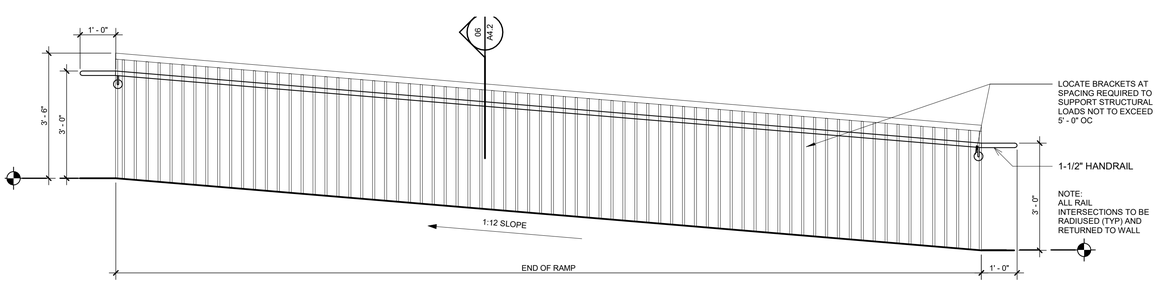
04 RAILING AND GUARDRAIL ELEVATION AT TOP LANDING
1" = 1'-0"



03 EGRESS STAIR SECTION
1/2" = 1'-0"



01 Egress Stair & ADA Ramp Plan
1/2" = 1'-0"



02 ADA RAMP SECTION
1/2" = 1'-0"

Spruce Lane

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37738

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122 Spruce Ln,
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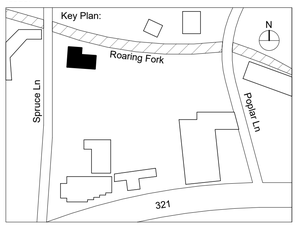

Key Plan

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Stair & Ramp Details

Date	04/18/2023
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Sheet No.:

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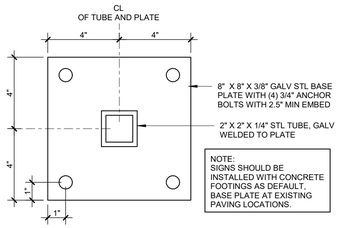
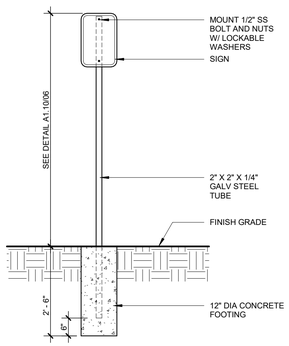
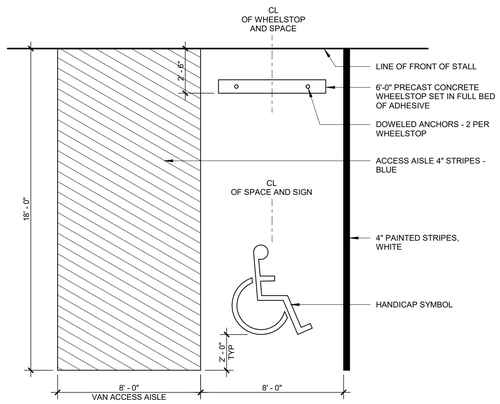


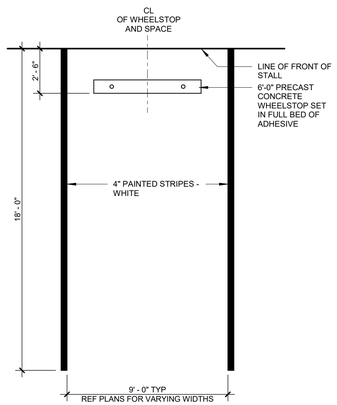
10 SIGNAGE BASE PLATE DETAIL
3" = 1'-0"



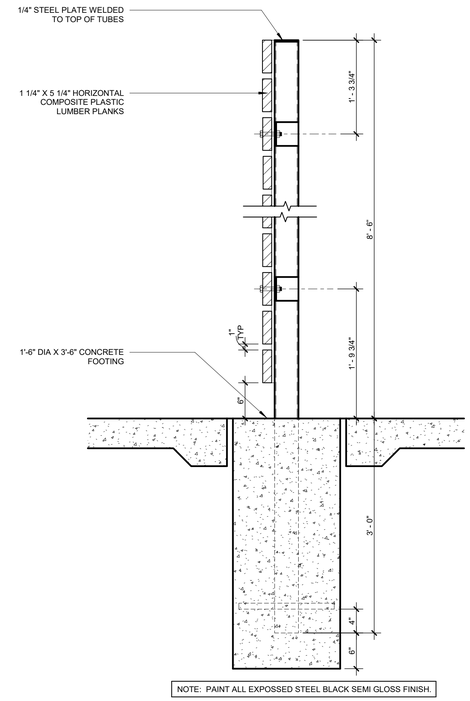
09 ACCESSIBLE PARKING SPACE SIGNAGE DETAIL
1/2" = 1'-0"



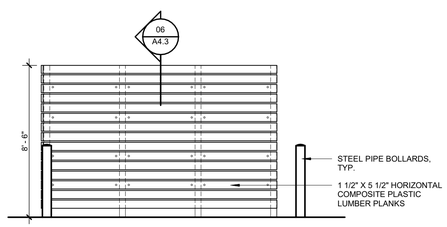
08 ADA VAN ACCESSIBLE PARKING SPACE LAYOUT
1/4" = 1'-0"



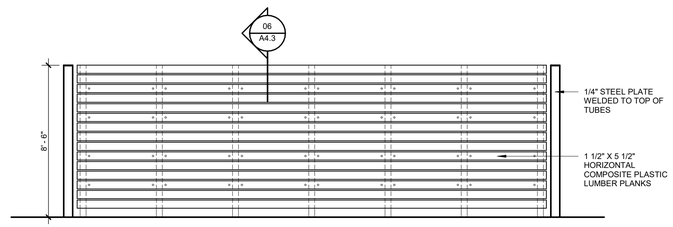
07 STANDARD PARKING SPACE LAYOUT
1/4" = 1'-0"



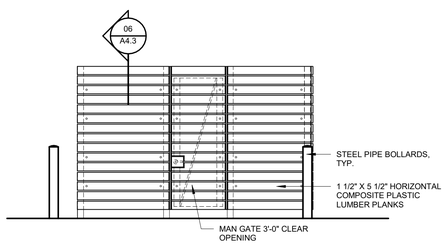
06 DUMPSTER ENCLOSURE WALL
1" = 1'-0"



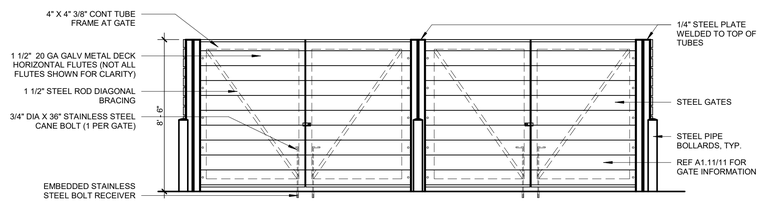
05 SIDE ELEVATION
1/4" = 1'-0"



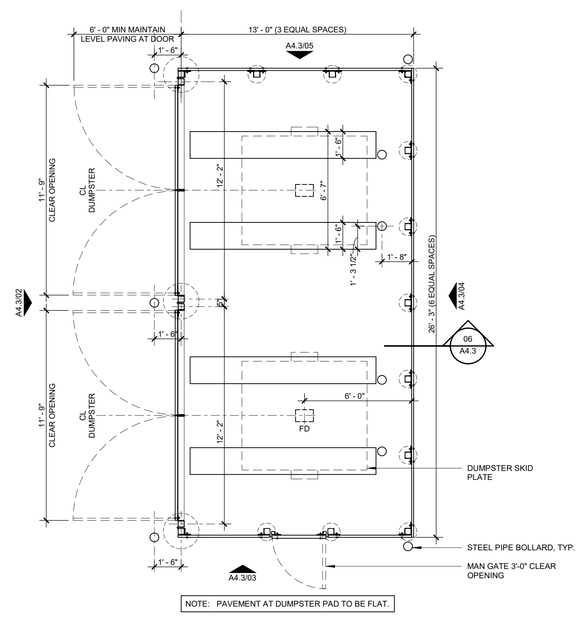
04 REAR ELEVATION
1/4" = 1'-0"



03 SIDE ELEVATION
1/4" = 1'-0"



02 FRONT ELEVATION
1/4" = 1'-0"



01 DUMPSTER ENCLOSURE
1/4" = 1'-0"

Spruce Lane

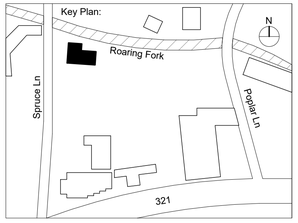
122 Spruce Lane | Gatlinburg, TN
37738

Client:
Gatlinburg Vittales, LLC
122 Spruce Ln,
Gatlinburg, TN 37738

two|oaks architecture + planning

Revisions:

Issue:



Key Plan

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Site Details

Date	04/18/2023
Scale	As indicated
Drawn By	THE
Checked By	JE
Project No.	2204
Sheet No.:	A4.3

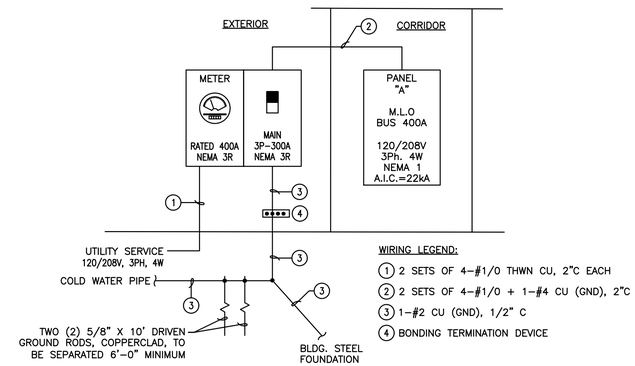
Seal

GENERAL ELECTRICAL NOTES

1. ALL WORK SHALL BE PERFORMED TO MEET THE REQUIREMENTS OF THE NFPA 70, NATIONAL ELECTRICAL CODE (2020 EDITION), NFPA 72 NATIONAL FIRE ALARM CODE (2016 EDITION), NFPA 101, LIFE SAFETY CODE (2018 EDITION), LOCAL AND STATE CODES AND ANY OTHER APPLICABLE CODES AND STANDARDS.
2. THE ELECTRICAL DESIGN IS BASED UPON THE AVAILABLE INFORMATION AT DESIGN TIME. CONTRACTOR TO REVIEW NAMEPLATE DATA AND MANUFACTURER SUPPLIED LITERATURE FOR ALL PIECES OF EQUIPMENT PRIOR TO ROUGH ELECTRICAL WIRING. THE CONTRACTOR SHALL CHECK NAMEPLATE DATA OF ALL EQUIPMENT FOR REQUIRED VOLTAGES, MINIMUM CIRCUIT AMPACITY AND OVERCURRENT PROTECTION. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO ANY FIELD ADJUSTMENT.
3. THE CONTRACTOR SHALL ENSURE THAT NEUTRAL WIRES AND EQUIPMENT GROUND WIRES ARE INSTALLED WHERE EVER APPLICABLE.
4. THESE DRAWINGS ARE DIAGRAMMATIC AND NOT INTENDED TO SHOW EVERY MINOR DETAIL. CIRCUITS ARE SYMBOLICALLY SHOWN TO DETERMINE LOAD DATA AND EQUIPMENT SIZES, AND THEY ARE ONLY A GUIDE FOR THE INSTALLATION OF ELECTRICAL SERVICE. DO NOT SCALE DRAWINGS FOR EXACT LOCATION OF EQUIPMENT. CONTRACTOR SHALL PHYSICALLY PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION PER CODE. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE A FUNCTIONING SYSTEM AND SHALL COORDINATE WITH ARCHITECT/OWNER TO FIELD VERIFY INSTALLATION FOR OUTLETS, LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.
5. ALL MATERIAL SHALL BEAR UL LABEL WHERE APPLICABLE. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT FOR A COMPLETE INSTALLATION. ALL MOUNTING HARDWARE AND WIRING HARDWARE SHALL BE FURNISHED BY THE CONTRACTOR.
6. ALL WIRING SHALL BE COPPER (CU), THWN INSULATION, 75°C. WHERE IT DOES NOT SPECIFIED, THE CONDUCTOR MATERIAL AND SIZES GIVEN IN THE PROJECT SHALL BE APPLIED TO COPPER WIRES. IF OTHER MATERIALS WILL BE USED, THE SIZE SHALL BE ADJUSTED ACCORDINGLY.
7. ALL CIRCUIT BREAKERS SHALL BE RATED MINIMUM 10,000 A.I.C.
8. ALL CONDUCTORS SHALL BE RUN IN CONDUITS UNLESS OTHER TYPES CAN BE USED AS PER NEC:
   - A) PVC SCH-40 WHEN INSTALLED 12" UNDER SLABS ON GRADE OR WHEN EMBEDDED IN CONCRETE WALLS OR SLABS.
   - B) MC-CABLE CAN BE INSTALLED ACCORDING TO NEC 330.10 AND 330.12.
   - C) IMC WHEN INSTALLED CONCEALED IN MASONRY WALLS, DRY WALLS OR SUSPENDED CEILINGS, ALSO WHEN INSTALLED IN INTERIORS EXPOSED UP TO 8' AFF.
   - D) EMT INTERIORS EXPOSED ABOVE 8' AFF AND AT ANY HEIGHT IN ELECTRICAL, MECHANICAL AND TELECOMMUNICATION ROOMS.
   - E) NM-CABLE CAN BE INSTALLED WHEN PERMITTED BY 334.10.
9. IF PVC CONDUITS ARE USED FOR UNDERGROUND FEEDERS, AN EQUIPMENT GROUND CONDUCTOR SIZED PER NEC 250.122 MUST BE INSTALLED AND CONDUIT SIZE INCREASED AS REQUIRED.
10. CONTRACTOR TO VERIFY ADJUSTMENT FACTORS FOR MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A CONDUIT ACCORDING TO TABLE 310.15(b)(2)(a).
11. ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS, THAT ARE IN OTHER THAN DWELLING UNITS, AND ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED, SHALL BE FIELD OR FACTORY MARKED TO WARN QUALIFIED PERSONS OF "POTENTIAL ELECTRIC ARC FLASH HAZARDS". THE MARKING SHALL MEET THE REQUIREMENTS IN 110.21(B) AND SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT (AS PER NEC 110.16).
12. SERVICE EQUIPMENT IN OTHER THAN DWELLING UNITS SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED, AS PER NEC 110.24(A)
13. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED ABOVE FLOOD ELEVATION LEVEL. VERIFY NGVD IN ARCH. PLANS PRIOR INSTALLATION.
14. WITH 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE OWNER, INCLUDING A SINGLE LINE DIAGRAM OF BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION. ALSO, AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED, INCLUDING SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
15. A MINIMUM OF 90% OF THE LAMPS IN PERMANENTLY INSTALLED LIGHT FIXTURES SHALL BE HIGH-EFFICACY LAMPS (AT LEAST 45 LUMENS-PER-WATT). PROVIDE FIXTURES WITH LAMPS. ALL RECESSED LIGHT FIXTURES IN CONTACT WITH INSULATION SHALL BE RATED FOR SUCH USE.
16. THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL BE NOT LESS THAN 1 FC (11 LUX) AT THE WALKING SURFACE.

ELECTRICAL SYMBOL LEGEND

- STRIP LED LIGHT FIXTURE
- PENDANT MOUNTED LED LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE (SCONCE)
- RECESSED MOUNTED LIGHT FIXTURE
- EMERGENCY BATTERY BACKUP (90 MIN) LIGHT FIXTURE
- EMERGENCY BATTERY BACKUP (90 MIN) EXIT SIGN FIXTURE
- EXHAUST FAN (BY OTHERS)
- SINGLE LIGHTING SWITCH AT 48" AFF
- SINGLE LIGHTING SWITCH, DIMMERABLE, AT 48" AFF
- OCCUPANCY SENSOR, WALL MOUNTED
- DUPLEX RECEPTACLE 20A, 125V, AT 18" AFF
- DUPLEX RECEPTACLE 20A, 125V, AT 44" AFF
- DUPLEX RECEPTACLE 20A, 125V, FLOOR MOUNTED
- SINGLE RECEPTACLE 20A, 125V, AT 18" AFF
- QUADPLEX RECEPTACLE 20A, 125V, AT 18" AFF
- DUPLEX RECEPTACLE 20A, 125V, CEILING MOUNTED
- TELEPHONE/DATA OUTLET AT 18" AFF
- TV OUTLET AT 18" AFF
- DISCONNECT SWITCH
- ELECTRICAL PANEL
- (D) DENOTE DIMMER
- GFI GROUND FAULT CURRENT INTERRUPTER
- WP DENOTE "WEATHERPROOF" FIXTURE



RISER DIAGRAM

(N.T.S.)

PANEL "A"

TYPE: SIEMENS OR EQUAL APPROVED
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: UTILITY COMPANY

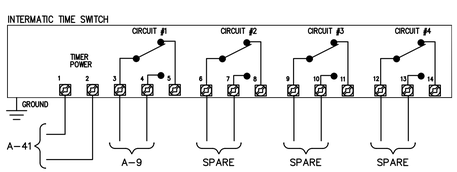
RATED VOLTAGE: 120/208V, 3Ph, 4W
BUS RATING: 400 AMPS
A.I.C. RATING: 22 KAIC
BRANCH POLES: 42 CIRCUITS

MAINS: M.L.O.
FEED LOCATION: TOP
SYSTEM: NORMAL
LOCATION: SEE FLOOR PLAN

ID	LOAD SERVED	COND.	EQ. GND.	WIRE AWG	TYPE	TRIP [A]	CKT	Phase A [kVA]		Phase B [kVA]		Phase C [kVA]		CKT	TRIP [A]	TYPE	WIRE AWG	EQ. GND.	COND.	LOAD SERVED	ID
L	LTG. SALON	1/2"	12	12	-	20	1	0.6	0.9					2	20/2	-	12	12	3/4"	WALK-IN COOLER EVAP. UNIT	C
L	LTG. SALON	1/2"	12	12	-	20	3			0.4	0.9			4							C
L	LTG. CORRIDOR	1/2"	12	12	-	20	5					0.8	1.6	6	30/2	-	10	10	3/4"	WALK-IN COOLER COND. UNIT	C
L	LTG. BATH.	1/2"	12	12	-	20	7	0.2	1.6					8							C
L	LTG. EXTERIOR	1/2"	12	12	TS	20	9			0.2	1.2			10	20	-	12	12	1/2"	WALK-IN COOLER DOOR DEFROST	K
L	LTG. BAR	1/2"	12	12	-	20	11					0.9	0.9	12	20/2	-	12	12	3/4"	KEF-1	O
L	LTG. DISHWASHER AREA	1/2"	12	12	-	20	13	0.3	0.9					14							O
R	RECEP. BATH	3/4"	12	12	-	20	15			0.5	0.9			16	20/2	-	12	12	3/4"	KSF-1	O
R	RECEP. SALON	3/4"	12	12	-	20	17					0.7	0.9	18							O
R	RECEP. SALON	3/4"	12	12	-	20	19	0.7	0.5					20	20	GF	12	12	1/2"	GAS WATER HEATER	K
R	RECEP. BAR	3/4"	12	12	-	20	21			1.1	0.5			22	20	GF	12	12	1/2"	GAS WATER HEATER	K
K	ICE MACHINE	3/4"	12	12	GF	20	23					0.7	7.1	24	100/3	-	3	8	1-1/4"	CU-1	N
R	RECEP. BAR	3/4"	12	12	-	20	25	0.2	7.1					26							N
R	RECEP. COUNTER TOP BAR	3/4"	12	12	-	20	27			1.5	7.1			28							N
O	BOITTLE COOLER	3/4"	12	12	GF	20	29					0.7	0.9	30	20	-	12	12	1/2"	RECEP. GEN. CONV.	R
O	TABLE SANDWICH	3/4"	12	12	GF	20	31	0.9	0.5					32	20	GF	12	12	1/2"	RECEP. IGNITION GAS EQUIPMENT	K
O	TABLE SANDWICH	3/4"	12	12	GF	20	33			0.9	0.5			34	20	-	12	12	1/2"	RECEP. GEN. CONV.	R
K	DISHWASHER	3/4"	12	12	GF	30	35					2.7	0.4	36	20	-	12	12	1/2"	RECEP. RECEPTION	R
N	HAND DRYER	1/2"	12	12	GF	20	37	(NC)	1.2					38	20	-	12	12	1/2"	RECEP. SHOW WINDOWS	R
N	HAND DRYER	1/2"	12	12	GF	20	39			(NC)	1.2			40	20	-	12	12	1/2"	RECEP. SHOW WINDOWS	R
O	TIME SWITCH CONTROLLER	1/2"	12	12	-	20	41					0.1	1.2	42	20	-	12	12	1/2"	RECEP. SHOW WINDOWS	R
R	RECEP. ON THE ROOF	1/2"	12	12	-	20	43	1.5	1.5					44	20	-	12	12	1/2"	RECEP. EXTERIOR	R
	SPACE	-	-	-	-	-	45			-	-			46	-	-	-	-	-	SPACE	
	SPACE	-	-	-	-	-	47					-	-	48	-	-	-	-	-	SPACE	
	SPACE	-	-	-	-	-	49	-	-					50	-	-	-	-	-	SPACE	
	SPACE	-	-	-	-	-	51			-	-			52	-	-	-	-	-	SPACE	
	SPACE	-	-	-	-	-	53					-	-	54	-	-	-	-	-	SPACE	
							79	-	14.2					56							C
							81			-	14.2			58	150/3	-	1/0	6	2"	AHU-1	C
							83					-	14.2	60							C
								32.8		31.1		33.8									

ID:
(R) RECEPTACLE LOAD
(L) LIGHTING LOAD
(O) OTHER LOAD
(C) A/C (COLD OR HEAT)

DEMAND LOAD CALCULATION:			
TOTAL CONNECTED LOAD:		=	97.7 KVA
RECEP. LOAD		=	13.1 KVA
1ST 10 KVA @	100%	=	10.0 KVA
REMAINING @	50%	=	1.6 KVA
KITCHEN LOADS @	65%	=	4.0 KVA
LIGHTING LOADS @	125%	=	4.3 KVA
OTHER LOADS @	100%	=	6.2 KVA
TOTAL KVA A/C LOADS @	100%	=	47.6 KVA
TOTAL NON CONCURENT LOADS		=	21.3 KVA
TOTAL DEMAND LOAD:		=	73.6 KVA
DEMAND AMPERES:		=	**204 AMPS**



INTERMATIC TIME CLOCK WITH ASTRONOMICAL TIME SWITCH AND RESERVE POWER. CONTACT ARRANGEMENT AS INDICATED. PROVIDE OVERRIDE CAPABILITIES FOR EACH PROGRAMMABLE CHANNEL AS INDICATED.

1 / E-1 TIME SWITCH "T/S" DETAIL

SCALE: N.T.S.

KEYNOTES

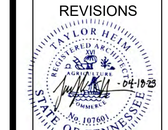
1. CONNECT ALL EXIT SIGNS AND BATTERY PACKS IN EMERGENCY LIGHT FIXTURES AHEAD OF ANY LIGHTING CONTROL DEVICE FOR CONTINUOUS OPERATION OF THE BATTERY CHARGER. LIGHT FIXTURES WITH BATTERY BACKUP SHALL BE EASILY IDENTIFIABLE BY MEANS APPROVED BY FIRE INSPECTOR.
2. ADJUST FOCUS OF ALL RECESSED DIRECTIONAL LIGHTING TO FULLY ILLUMINATE MENU BOARDS, MERCHANDISE BAYS AND ARTWORK.
3. ALL FIXTURES IN AREAS WHERE EXPOSED FOOD, CLEAN EQUIPMENT OR UTENSILS, OR UNWRAPPED SINGLE SERVICE ITEMS WILL BE EXPOSED, SHALL HAVE SHATTERPROOF LAMPS IF THE FIXTURE IS NOT LENSED. ARCHITECT TO INCLUDE APPROPRIATE LAMPS/FIXTURES ON DRAWINGS AND SCHEDULES AND COMPLY WITH ANY ADDITIONAL JURISDICTIONAL LIGHTING REQUIREMENT.
4. WHEN REQUIRED, BALLAST BOXES, TRANSFORMERS, JUNCTION BOXES AND ASSOCIATED WIRING FOR LIGHT FIXTURES SHALL BE INSTALLED HIDDEN FROM VIEW.
5. PROVIDE NEMA 3R ENCLOSURE FOR ELECTRICAL EQUIPMENT LOCATED IN EXTERIORS. PROVIDE FUSES IF REQUIRED.
6. ALL DATA AND TELEPHONE DEVICES TO BE LOCATED AT 18" AFF UNLESS OTHERWISE NOTED. PROVIDE WALL BOX AND 3/4" EMPTY CONDUIT WITH PULL STRING TO 6" ABOVE CEILING. CABLING, JACK AND TERMINATION BY CLIENT'S IT-VENDOR (TYP.)
7. OUTDOOR RECEPTACLES TO BE GFCI/WR/WP WHILE IN-USE. PROVIDE COVER APPROVED FOR THE LOCATION.
8. PROVIDE SHUNT TRIP BREAKERS IN PANEL FOR CIRCUITS OF EQUIPMENT UNDER HOOD (IF ANY). SHUNT TRIP OPERATION TO BE CONTROLLED BY ANSUL SYSTEM.

ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR IS TO PROVIDE ALL MATERIALS AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS INDICATED ON THE DRAWINGS AS SPECIFIED AND AS REQUIRED BY ALL APPLICABLE CODES, ORDINANCES, AND AHJ.

RESTAURANT RENOVATION

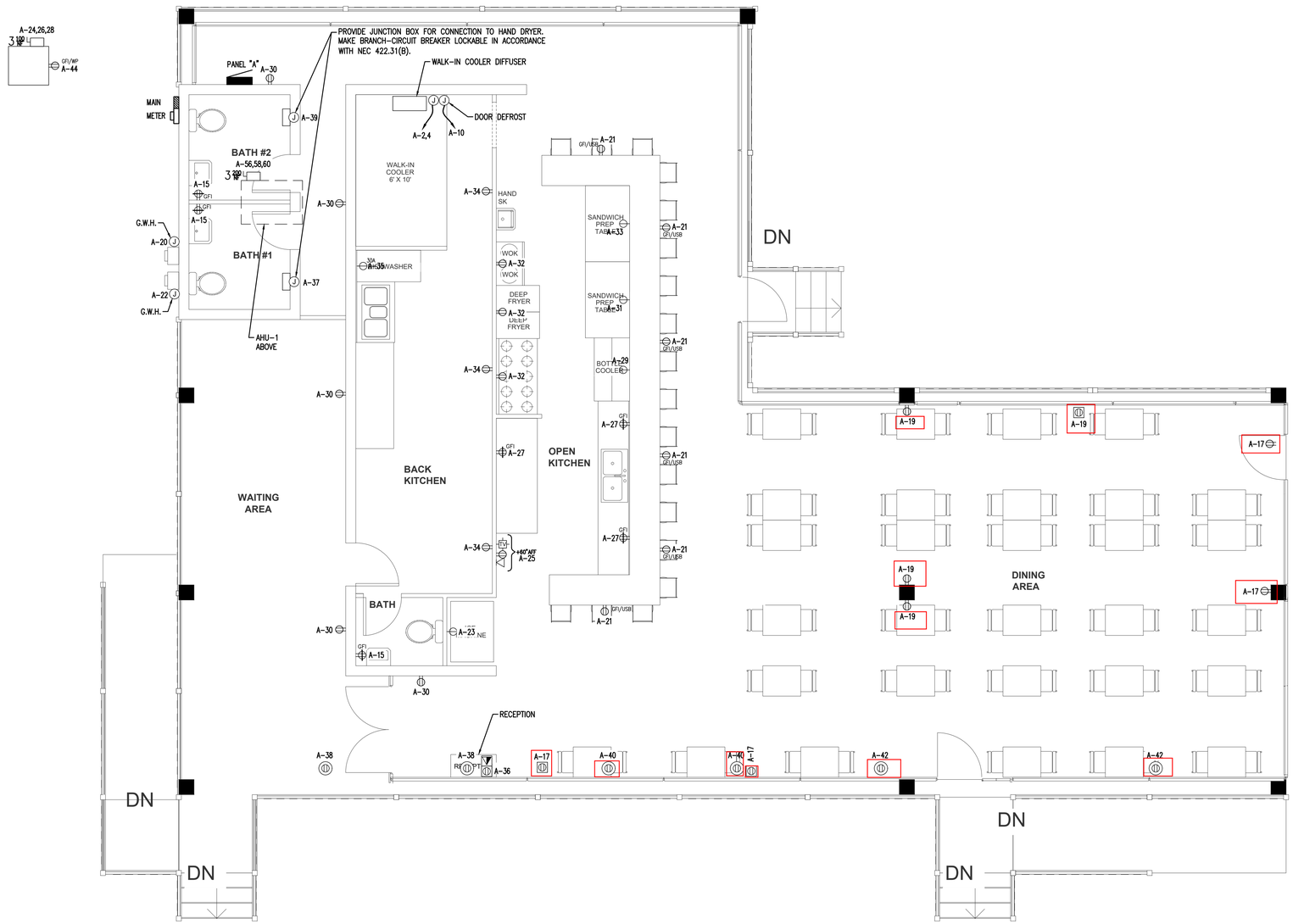
Address: 190 Spruce Ln
Gatlinburg , Tennessee

PROJECT NO.
02222
DATE
08/22/2022
REVISIONS



SHEET NO

E-1



Power Floor Plan

Scale: 1/4" = 1"-0"

ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR IS TO PROVIDE ALL MATERIALS AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS INDICATED ON THE DRAWINGS AS SPECIFIED AND AS REQUIRED BY ALL APPLICABLE CODES, ORDINANCES, AND AHJ.

RESTAURANT RENOVATION

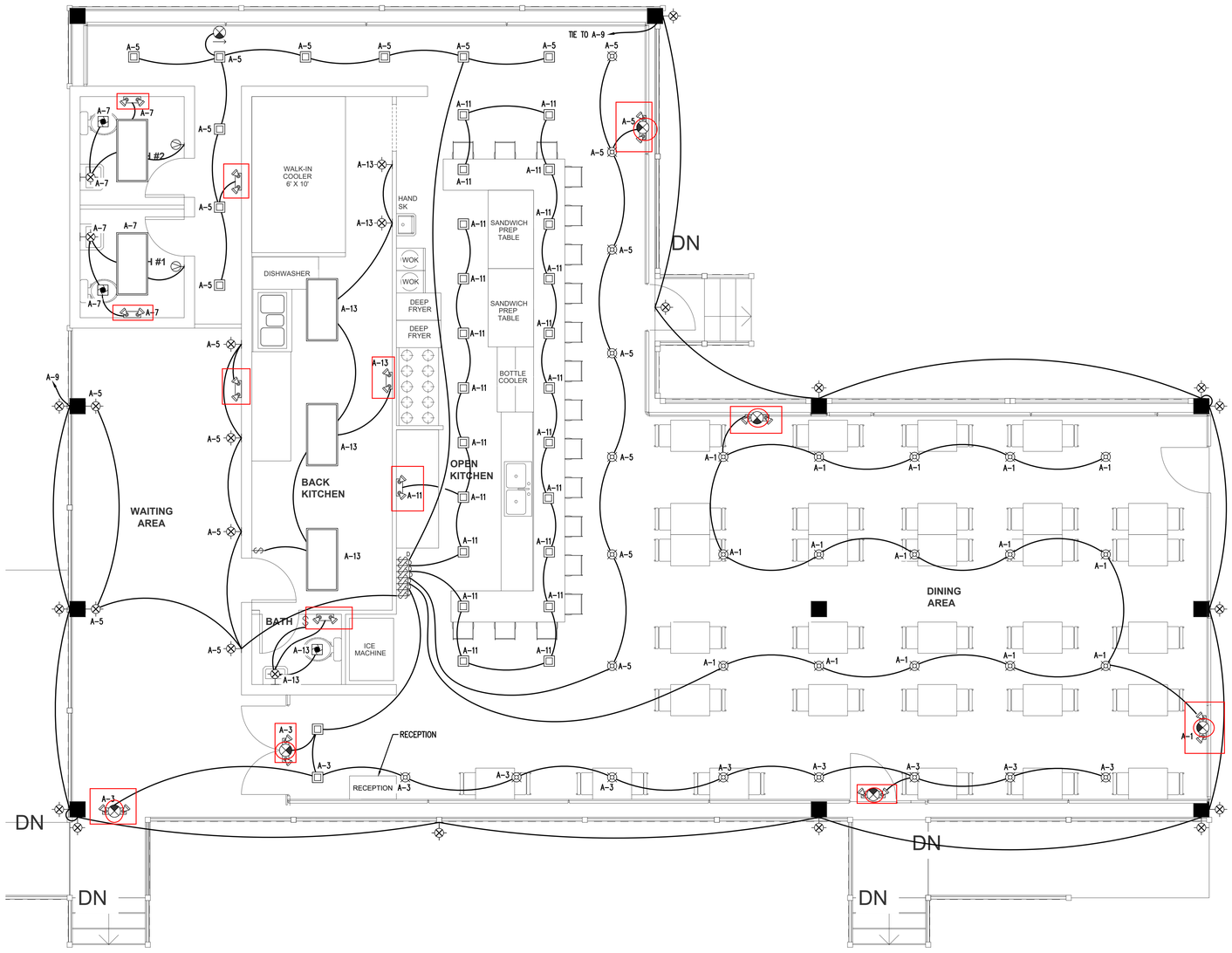
Address: 190 Spruce Ln
Gatlinburg , Tennessee

PROJECT NO.
02222
DATE
08/22/2022
REVISIONS

TAYLOR HEIM
REGISTERED ARCHITECT
No. 107681
STATE OF TENNESSEE
08-19-23

SHEET NO

E-2



Lighting Floor Plan

Scale: 1/4" = 1"-0"

ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR IS TO PROVIDE ALL MATERIALS AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS INDICATED ON THE DRAWINGS AS SPECIFIED AND AS REQUIRED BY ALL APPLICABLE CODES, ORDINANCES, AND AHJ.

RESTAURANT RENOVATION

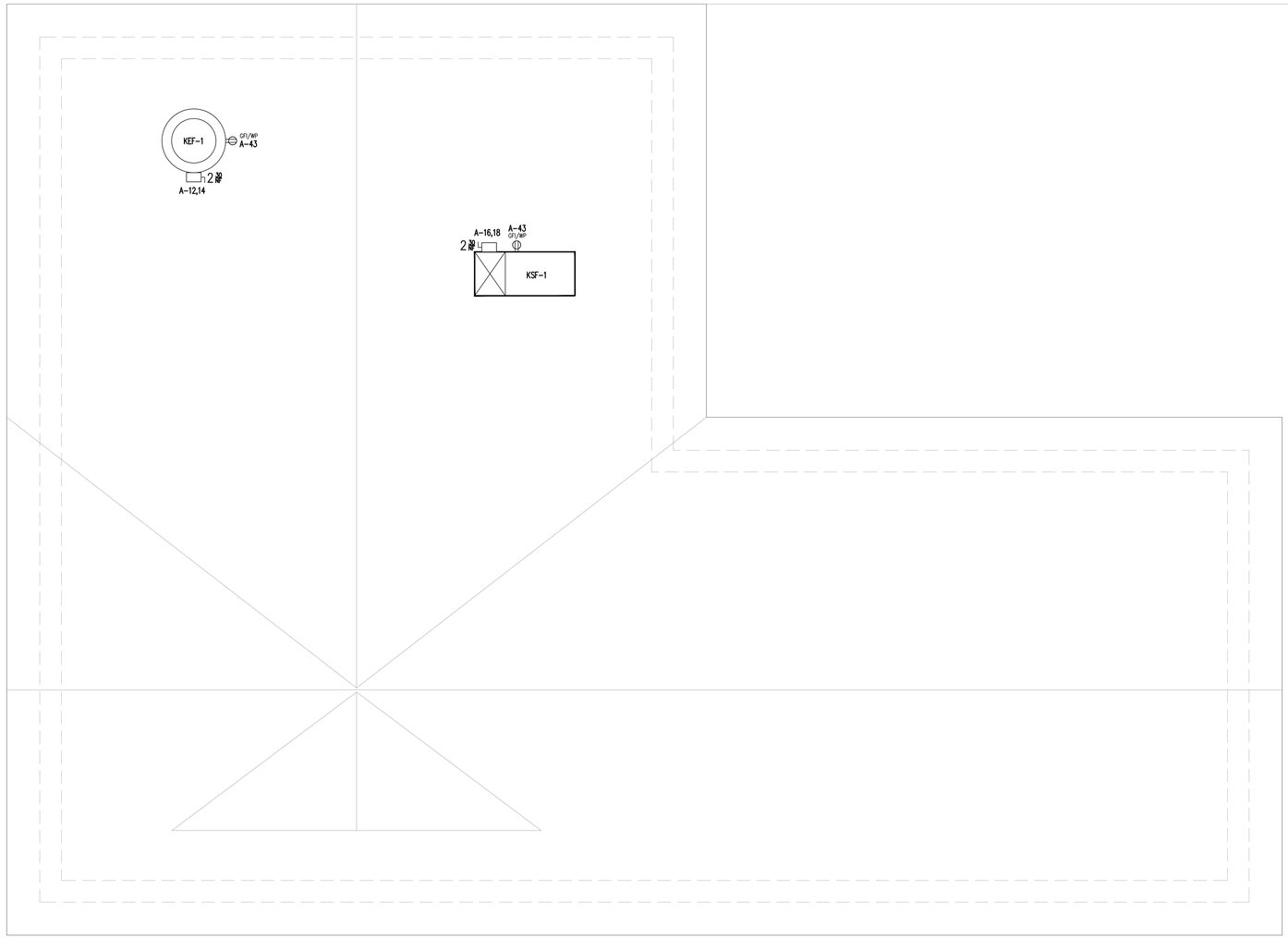
Address: 190 Spruce Ln
Gatlinburg , Tennessee

PROJECT NO.
02222
DATE
08/22/2022
REVISIONS

TAYLOR HEIM REGISTERED ARCHITECT No. 10760 STATE OF TENNESSEE
04-10-23

SHEET NO

E-3



Roof Electrical Plan

Scale: 1/4" = 1"-0"

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RESTAURANT RENOVATION

Address: 190 Spruce Ln
Gatlinburg , Tennessee

PROJECT NO.
02222
DATE
08/22/2022
REVISIONS

TAYLOR HEIM
REGISTERED ARCHITECT
AGNES KAY
TAYLOR HEIM
No. 10760
STATE OF TENNESSEE
04-10-23

SHEET NO

E-4

HVAC GENERAL NOTES

1. GENERAL

1.1. INSTALL IN ACCORDANCE WITH THE 2020 FBC 7TH EDITION, BUILDING, ENERGY CONSERVATION AND MECHANICAL, ASHRAE, SMACNA, NFPA AND LOCAL ORDINANCES.

1.2. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE OF THE WORK AND BECOMING FAMILIAR WITH THE CONDITIONS OF THE WORK PRIOR TO SUBMITTING A BID. THE CONTRACTOR IS REQUIRED TO BECOME FAMILIAR WITH ALL THE CONTRACT DOCUMENTS PERTAINING TO THE PROPOSED WORK. THE SUBMISSION OF A BID SHALL BE SUFFICIENT TO ESTABLISH THAT THE CONTRACTOR HAS INVESTIGATED THE SITE OF THE WORK AND IS SATISFIED TO ALL REASONABLE CONDITIONS BE ENCOUNTERED, THE WORK TO BE PERFORMED AND THE MATERIALS TO BE PROVIDED IN THE COMPLETION OF THE PROJECT.

1.3. THE CONTRACTOR MUST BE FAMILIAR WITH THIS TYPE OF INSTALLATION AND THOROUGHLY UNDERSTAND ALL THE REQUIREMENTS FOR THE INSTALLATION OF EACH PIECE OF EQUIPMENT HEREIN SHOWN. ITS PROPER OPERATION REQUIREMENTS AND TESTING PROCEDURES FOR CITY APPROVALS.

1.4. PROVIDE (FURNISH AND INSTALL) ALL NECESSARY MATERIALS AND LABOR FOR A COMPLETELY OPERATIONAL AIR CONDITIONING, HEATING AND VENTILATING SYSTEM AS SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED.

1.5. PAY FOR ALL FEES, INSPECTIONS AND CONNECTION CHARGES REQUIRED.

1.6. VERIFY AT JOB SITE ALL SPACE CONDITIONS, DIMENSIONS AND EQUIPMENT SIZES PRIOR TO DUCT FABRICATION OR INSTALLATION. COORDINATE REQUIREMENTS TO AVOID INTERFERENCE WITH OTHER TRADES.

1.7. NATURE OF DESIGN DRAWINGS: DESIGN DRAWINGS ARE DIAGRAMMATIC AND DO NOT INTEND TO SHOW EVERY FITTING, ELBOW, TRANSITION, ETC. THAT WILL BE NECESSARY FOR A COMPLETE OPERATIONAL SYSTEM AS REQUIRED BY THESE SPECIFICATIONS.

1.8. COORDINATION DRAWINGS: PREPARE 1/4" SCALE COORDINATION DRAWINGS SHOWING MAJOR SYSTEM COMPONENTS FOR A/E APPROVAL. SUBMIT SHOP DRAWINGS FOR ARCHITECT/ENGINEER APPROVAL BEFORE PROCEEDING WITH THE PURCHASE OR INSTALLATION OF EQUIPMENT AND MATERIALS. SUBMIT ALL AT ONCE IN A BINDER WITH AN INDEX AND DIVIDERS AS REQUIRED TO SEPARATE ALL DIFFERENT MATERIALS AND EQUIPMENT.

1.9. GUARANTEE ALL WORK FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.

2. MATERIALS

2.1. DUCTWORK: ALL JOINTS SEALED WITH HIGH PRESSURE MASTIC.

2.1.1. GENERAL: ALL DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.

2.1.2. DUCTWORK MATERIALS:
A. ALL AIR CONDITIONING DUCTWORK INCLUDING OUTDOOR AIR INTAKE SHALL BE 1-1/2" STANDARD DUTY FOIL REINFORCED FIBERGLASS (R-6.0) MANUFACTURED LOGO PRINTED ON THE VAPOR BARRIER WHEN IN UNCONDITIONED SPACE, AND 1" STANDARD DUTY FOIL REINFORCED FIBERGLASS (R-4.2) MANUFACTURED LOGO PRINTED ON THE VAPOR BARRIER IN CONDITIONED SPACE OR RETURN PLENUM SPACE. DESIGNED, CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SMACNA'S LOW PRESSURE DUCT MANUAL. DUCTS SHALL BE CONSTRUCTED WITH CLASS 0 OR CLASS 1 DUCT MATERIAL. DUCTS SHALL COMPLY WITH UL 181. FIBROUS DUCT CONSTRUCTION SHALL CONFORM TO THE SMACNA FIBROUS GLASS DUCT CONSTRCTION STANDARDS OR NAIMA FIBROUS GLASS DUCT CONTRUCTION STANDARDS. ALL DUCT JOINTS SHALL BE SEALED AND TAPED.
B. ROUND INSULATED FLEXIBLE DUCT: PROVIDE AS SHOWN ON PLANS, VIREMOLD WCK W/ 1-1/2" INSULATION & REINFORCED ALUM. VAPOR OR APPROVED EQUAL.
C. VENTILATION DUCTWORK (EXHAUST): GALVANIZED SHEET METAL, CONSTRUCTED, AND INSTALLED ACCORDING TO LATEST EDITION OF SMACNA'S. LOW PRESSURE CONSTRUCTION STD. (0.5" W.G.). SEAL ALL JOINTS WITH APPROVED FIRE RATED MASTIC. (30 GAUGE MINIMUM).
D. KITCHEN VENTILATION DUCTWORK: REFER TO CAPTIVEAIRE PLANS.
E. FLEXIBLE DUCTWORK SHALL NOT BE USED IN RETURN OR EXHAUST AIR SYSTEMS. FLEXIBLE DUCT MAY BE USED FOR SUPPLY AIR SYSTEMS, ONLY WHERE SPECIFIED. ALL FLEX DUCTING SHOULD BE SUPPORTED AT THE MANUFACTURER'S RECOMMENDED INTERVALS, BUT THE SUPPORTS SHOULD BE NO GREATER THAN 4 FEET APART AND THERE SHOULD BE NO MORE THAN ½ INCH SAG PER FOOT BETWEEN THE SUPPORTS. A CONNECTION TO RIGID DUCT OR EQUIPMENT IS CONSIDERED A SUPPORT JOINT.
F. GREASE DUCT SPECIFICATIONS: ALL DUCTWORK SHALL BE DESIGNED, CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH FBCM SECTIONS 506.3.1 THROUGH 506.3.13.3. AS PER CAPTIVE AIRE RECOMMENDATION: PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK, MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURER INSTALLATION GUIDE. ACCESS DOORS/CLEANOUTS AS SHOWN ON PLANS ARE PROPOSED TO COMPLY WITH MINIMUM CODE REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR FINAL COMPLIANCE AND THE ONES PROVIDED MUST BE RATED AND COMPLY WITH ALL REQUIREMENTS AS PER FBCM 506.3.8. AS PER FBCM 506.3.7. DUCT SYSTEMS SERVING TYPE I HOOD SHALL BE CONSTRUCTED AND INSTALLED SO THAT GREASE CANNOT COLLECT IN ANY PORTION THEREOF, AND THE SYSTEM SHALL SLOPE NOT LESS THAN ONE-FOURTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE) TOWARD THE HOOD OR TOWARD A GREASE RESERVOIR DESIGNED AND INSTALLED IN ACCORDANCE WITH SECTION 506.3.7.1. DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OE GREASE ACCUMULATION IN HORIZONTAL RUNS. IF THE DUCT IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 LISTED DOUBLE WALL GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

2.0.1. DUCTWORK ACCESSORIES:
A. PROVIDE DOUBLE THICKNESS TURNING VANES AT ALL SQUARE ELBOWS. WHERE THE ELBOWS ARE RECTANGULAR INSTALL SINGLE THICKNESS INSTEAD.
A1. ALTERNATE A: PROVIDE 3-PIECE ELBOWS IN LIEU OF TURNING VANES FOR GLASS FIBER DUCTS ONLY.
A2. ALTERNATE B: PROVIDE FULL RADIUS ELBOWS IN LIEU OF TURNING VANES.
B. PROVIDE VOLUME EXTRACTORS BEHIND EACH SUPPLY OUTLET AND AT EACH DUCT BRANCH.
C. PROVIDE VIBRATION-ISOLATION CONNECTORS BETWEEN DUCTWORK AND ALL FANS.

2.2. AIR DISTRIBUTION PRODUCTS:
2.2.1. PROVIDE SUPPLY AND RETURN GRILLES AND DIFFUSERS AS INDICATED ON THE DRAWINGS.
2.2.2. PROVIDE EXTRUDED ALL ALUMINUM AIR DISTRIBUTION PRODUCTS.
2.2.3. PROVIDE FINISHES AND TYPES OF MOUNTS IN COORDINATION WITH THE CEILING TYPES AS SHOWN ON ARCHITECTURAL DRAWINGS.
2.2.4. PROVIDE OPPOSED BLADE, KEY OPERATED DAMPERS BEHIND ALL AIR SUPPLY OUTLETS.

2.3. PIPING
2.3.1. REFRIGERANT PIPING. SEAMLESS COPPER TYPE "L" AND HARD OR SOFT DRAWN OC ACR COPPER TUBING WITH WROUGHT COPPER BRAZED JOINT FITTINGS, WITH SILVER BRAZING CONTAINING NOT LESS THAT 49% SILVER.
2.3.2. INSULTATION: INSULATE ALL REFRIGERANT SUCTION PIPING WITH 3/4" CLOSED CELL POLYETHYLENE PRE MOLDED INSULATION, WITH AND APPROVED PIPE AND SMOKE JACKET, PAINT ALL EXPOSED INSULATION WITH TWO COATS OF WHITE LATEX PAINT.

2.4. CONTROLS
2.4.1. GENERAL: PROVIDE THE NECESSARY AUTOMATIC CONTROLS FOR PROPER OPERATION OF ALL EQUIPMENT SPECIFIED HEREIN. FURNISH MAGNETIC STARTERS AND INTERLOCK WIRING INDICATED FOR EACH PIECE OF EQUIPMENT.
2.4.2. PROVIDE AIR CONDITIONING UNITS WITH PROGRAMMABLE MATCHING LOW VOLTAGE HEAT-COOL THERMOSTATS WITH ON-OFF AUTO SUB-BASE SWITCH, FURNISHED BY THE EQUIPMENT MANUFACTURER WITH HEAT-COOL STEPS AS REQUIRED. THERMOSTATS SHALL BE A COMBINATION COOLING/HEATING WITH SYSTEM COOL/AUTO/HEAT/OFF AND FAN ON/AUTO SELECTOR SWITCHES.
2.4.3. ALL THERMOSTATS SHALL HAVE HEATING MODE MAXIMUM SETTING OF 75ºF, AND COOLING MODE MINIMUM SETTING OF 70ºF. THE THERMOSTAT SHALL BE ARRANGED TO PREVENT THE SIMULTANEOUS OPERATION OF HEATING AND COOLING.
2.4.4. CONTROL WIRING: INCLUDE STARTERS, DISCONNECTS AND REQUIRED ELECTRICAL DEVICES, INTERLOCK WIRING, RACEWAY, CONDUITS, PULL WIRES AND EXPOSED CONDUITS FOR TEMPERATURE CONTROL SYSTEM. ALL WIRING SHALL RUN IN CONDUITS, NO EXCEPTION.

2.5. IDENTIFICATION: LABEL ALL EQUIPMENT WITH ENGRAVED BLACK PLASTIC PLAQUES 12"x4" HIGH WITH 1.5" LETTERS.

3. EXECUTION

3.1. INSTALL ALL EQUIPMENT AND MATERIALS IN STRICT ACCORDANCE WITH THE MANUFACTURES MANUAL AND RECOMMENDATIONS, FOR INSTALLATION, OPERATION AND SERVICE. VERIFY APPLIANCES CLEARANCE PER FBC RESIDENTIAL M1306.1 AND M1306.2. EQUIPMENT AND APPLIANCES INSTALLED OUTDOORS SHALL BE LISTED AND LABELED FOR OUTDOOR INSTALLATION. SUPPORT AND FOUNDATIONS SHALL PREVENT EXCESSIVE VIBRATION, SETTLEMENT OR MOVEMENT OF THE EQUIPMENT PER FBC M1401.4. SUPPORT AND FOUNDATIONS SHALL BE IN ACCORDANCE WITH SECTION M1305.1.4.1. IN FLOOD HAZARD AREAS PER TABLE R301.2(1), EQUIPMENT AND APPLIANCES SHALL BE LOCATED IN ACCORDANCE WITH SECTION R322.1.6.

3.2. SEAL ALL DUCT JOINTS WITH APPROVED FIRE AND SMOKE RATED HIGH PRESSURE MASTIC.

3.3. THERMOSTAT LOCATION IS CRITICAL TO PROPER EQUIPMENT OPERATION. INSTALL THERMOSTAT AT LOCATIONS SHOWN ON PLANS. RELOCATE ONLY WHEN APPROVED BY THE ARCHITECT/ENGINEER IN WRITING. SENSORS MUST BE BETWEEN 3 AND 6 FEET (BETWEEN 1 AND 2 METERS) ABOVE THE FLOOR.

3.4. WHERE RETURN AIR IS PROPOSED BY WAY OF DOOR UNDERCUTS, PROVIDE A MINIMUM 1" CLEAR SPACE BETWEEN THE BOTTOM OF THE DOOR AND THE FLOOR FINISH CARPET OR TILE.

3.5. EQUIPMENT MUST OPERATE FREE OF OBJECTIONABLE NOISE AND VIBRATION REPAIR AND/OR REPLACE ALL SOURCES OF NOISE AND VIBRATION FOUND TO BE OBJECTIONABLE, TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.

3.6. BALANCE ALL SYSTEMS TO PROVIDE AIR QUANTITIES AND CAPACITIES TO MATCH SPECIFIED FLOWS AND CAPACITIES. NOTIFY A/E OF ANY DEFICIENCIES NOTED DURING TESTING & BALANCING CALIBRATE FLOWS TO NEW EQUIPMENT PER MANUFACTURES REQUIREMENTS. BEFORE COMPLETING TEST & BALANCE PROCEDURES. ALLOW NECESSARY TIME FOR IMPLEMENTING PROPOSED SOLUTIONS BEFORE CONTINUING WITH TEST & BALANCE. AT END OF TEST AND BALANCE ISSUE A COMPLETE REPORT FOR A/E APPROVAL AND ALLOW TIME AND PROVIDE NECESSARY INSTRUMENTS FOR SPOT CHECKING WITH ARCHITECT/ENGINEER. SUBMIT FINAL TEST AND BALANCE REPORT TO A/E FOR ACCEPTANCE. AIR QUANTITIES SHOWN ARE TO BE ADJUSTED AS REQUIRED TO MEET SPECIFIC JOB CONDITIONS.

3.7. PROVIDE NEW FILTERS FOR AHUs BEFORE STARTING. THESE FILTERS MUST ALSO BE REPLACED PRIOR TO FINAL ACCEPTANCE BY OWNER.

3.8. ALL OUTSIDE EQUIPMENT SHALL BE SECURED TO WITHSTAND 175 MPH WINDS.

3.9. STRICTLY FOLLOW ALL MANUFACTURERS INSTALLATION MANUALS AND INSTRUCTIONS IN THE INSTALLATION OF ALL EQUIPMENT. OBTAIN, FROM EACH MANUFACTURER, PROPER CERTIFICATION FOR THE ADEQUACY OF THE INSTALLATION OF ALL PIECES OF EQUIPMENT BEFORE PLACING SYSTEM IN OPERATION.

3.10. PROVIDE MAINTENANCE AND OPERATION MANUAL.

3.11. PROVIDE AS-BUILT REPRODUCIBLE DRAWINGS.

3.12. PROVIDE INSTRUCTION TO OWNERS DESIGNATED PERSONNEL.

3.13. PROVIDE ACCESS PANELS TO ALL VOLUME DAMPERS, FIRE DAMPERS & FIRE/SMOKE DAMPERS.

CLIMATE ZONE	7A
SUMMER INDOOR DESIGN CONDITIONS	75.0ºF DB/55.0% RH
WINTER INDOOR DESIGN CONDITIONS	70.0ºF DB
SUMMER OUTDOOR DESIGN CONDITIONS	92ºF DB/74ºF WB
WINTER OUTDOOR DESIGN CONDITIONS	13ºF DB/10.3ºF WB
GLASS U-VALUE/SHGC (MAX)	0.87/0.25
WALLS U-VALUE, Btu/h/ft*ft²*ºf	0.11
ROOF U-VALUE, Btu/h/ft*ft²*ºF	0.25

HVAC DESIGN REQUIRES:	YES	NO
DUCT SMOKE DETECTOR	X	--
FIRE DAMPER(S)	--	X
SMOKE DAMPER(S)	--	X
FIRE RATED ENCLOSURE	--	X
FIRE RATED ROOF/ FLOOR CEILING ASSEMBLY	--	X
FIRE STOPPING/FIRE WRAP	X	--
SMOKE CONTROL	--	X

ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR IS TO PROVIDE ALL MATERIALS AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS INDICATED ON THE DRAWINGS AS SPECIFIED AND AS REQUIRED BY ALL APPLICABLE CODES, ORDINANCES, AND AHJ.

O/A CALCULATIONS BASED ON TENNESSEE 2012 MECHANICAL CODE, TABLE 403.3

ROOM NAME	SPACE TYPE	AREA (SQFT)	ACTUAL OCCUPANCY	OCCUPANT DENSITY (#/1000 SQFT)	PEOPLE OUTDOOR AIR RATE (CFM/ PERSON)	AREA OUTDOOR AIR RATE (CFM/ SQFT)	BREATHING ZONE OUTDOOR AIRFLOW, Vbz (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS, Ez	ZONE OUTDOOR AIRFLOW, Voz (CFM)	SYSTEM OUTDOOR AIRFLOW, Vot (CFM)	TOTAL OUTDOOR AIRFLOW PROVIDED (CFM)	A/C UNIT	MEETS STANDARDS
ENTIRE RESTAURANT	DINING ROOMS	2,343	88	-	7.5	0.18	1082	1.0	1082	1082	1100	AHU-1	YES

NOTES:
1. OCCUPANT DENSITY AS PER TBCM 2012 TABLE 403.3

BUILDING AIR BALANCE

EQUIPMENT TAG	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	RETURN AIR (CFM)	EXHAUST AIR (CFM)	PRESSURE (CFM)
AHU-1	+6,000	+1,100	+4,900	--	+1,100
KSF-1	--	+2,912	--	--	+4,012
KEF-1	--	--	--	-3,640	+372
EF-1	--	--	--	-50	+322
			TOTAL PROJECT PRESSURIZATION		+322

-KITCHEN HOOD SHALL BE INTERLOCK WITH AHU-1. WHEN KITCHEN HOOD IS ON, AHU-1 SHALL BE IN OPERATION
-AHU-1 CAN BE IN OPERATION WITHOUT KITCHEN HOOD TO BE IN OPERATION
- EF-1 IS INTERMITTANT.
-. KEF-1 AND KSF-1 SHALL BE INTERLOCKED

AIR DISTRIBUTION SCHEDULE

MARK	CFM	NECK SIZE (IN)	FACE SIZE	DESCRIPTION	ADDITIONAL ACCESSORIES
A	000–110	6 Ø	11 ⅛"	BASIS OF DESIGN: TITUS TMR–AA	
	111–240	8 Ø	14 ¾"	COLOR: NONE	
	241–420	10 Ø	18 ¼"	MATERIAL: ALUMINUM	
	421–620	12 Ø	22	OPPOSED BLADE DAMPERS: NO	
	621–800	14 Ø	26		
	801–950	16 Ø	29		
B	000–110	6x6		BASIS OF DESIGN: TITUS 250–AA	
	111–220	8x8		COLOR: WHITE	
	221–350	10x10		MATERIAL: ALUMINUM	
	351–530	12x12		OPPOSED BLADE DAMPERS: NO	
	531–730	14x14		1/2"x1/2"x1/2" GRID	
	731–970	16x16			
	971–1240	18x18			
	1241–1540	20x20			
	1541–1880	22x22			

Manufacturer	Trane
Nominal Tons	15.0
EER / IEER	11.2 / 12.4
Condenser Model	**TTA1803D**
Total Capacity - MBH	183.9
Sensible Capacity - MBH	137.0
Compressor - Qty-Type	2-Scroll
Compressor - RLA-LRA	25.0 - 164
Condenser Fan - HP-FLA	1.0 - 5.0
Voltage	208-230/3/60
MCA	74.0
MOCP	100
Dimensions - W x D x H (in.)	95.44x46x45.13
Approximate Weight - lbs	691
Circuits	2
Liquid Line	1/2
Suction Line	1 - 3/8
AHU Model	**TWE1804B**
Entering Air - DB/WB	80/67
CFM	6000
Outside Air	1100
ESP	1.0"
Leaving Air - DB/WB	58.57/57.01
Blower Motor - HP/FLA	5.0 - 14.0
Electric Heater kW	37.4
Voltage	208/3/60
MCA	148.0
MOCP	150
Filters - Qty-Size	8-15x20x2
Dimensions - W x D x H (in.)	79.56x29.06x69.06

Basis of design is Trane. Alternate manufactuer must meet the above scheduled perfromance and the below listed accessories in order to be considered.

Split System Notes
1. Unit controller to include a 2 x 16 LCD backlit screen with tachtile buttons. Messages must display in real language, no flash co
2. Unit control shall be capable of configuration via bluetooth connection to mobile device.
3. Provide factory installed belt driven blower motor and forward curved indoor fan.
4. Provide factory installed noncorrosive composite drain pan.
5. Provide factory installed thermal expansion valve.
6. Provide OEM programmable thermostat.
7. Factory installed Frostat shall protect the indoor coil from icing by a capillary buld embedded in the face of the evaporator.
8. Casing to be galvanized sheet metal with baked enamel finish and shall be tested to withstand 500 hour salt spray.
9. Wires to be color coded and numbered for easy tracing and diagnosing
10. Insulation to be foil faced with captured or sealed edges.
11. Access to low voltage connections shall be separate from line voltage.
12. Insulation to be foil faced with captured or sealed edges.
13. Provide factory installed crank case heater.
14. Provide factory installed phase monitor.
15. Provide factory installed anti-short cycle timer
16. Provide factory installed discharge line high temperature cut off
17. Provide factory head pressure control
18. Condenser shall be **dual compressors and dual circuits**.
19. Provide unit with **hot gas reheat coil** with integral face and bypass dampers to modulate leaving air temperature.
20. Provide unit with factory installed **APR valve** for capacity modulation (variable capacity system)
21. Provide unit with **high/low static motor** (depending on your ESP)

HVAC DRAWING INDEX

SHEET	DESCRIPTION	ISSUED
M–0.0	HVAC LEGEND, NOTES & SCHEDULES	YES
M–1.0	HVAC SPECIFICATIONS	YES
M–2.0	HVAC FLOOR PLAN	YES
M–3.0	HVAC ROOF PLAN	YES
M–4.0	KITCHEN HOOD SPECIFICATIONS	YES
M–5.0	HVAC DETAILS	YES

RESTAURANT RENOVATION

Address: 190 Spruce Ln
Gatlinburg , Tennessee

PROJECT NO.
02222
DATE
09/16/2022
REVISIONS

TAYLOR HELM
REGISTERED ARCHITECT
NORTH CAROLINA
No. 10760
STATE OF TENNESSEE
04-18-23

SHEET NO

M-0.0

MECHANICAL SPECIFICATIONS

1.0 GENERAL

1.1 SCOPE OF WORK

A. THE WORK UNDER THIS SECTION OF THE SPECIFICATIONS INCLUDES ALL RELATED LABOR, MATERIALS, AND EQUIPMENT AS DELINEATED ON THESE CONTRACT DRAWINGS AND RELATED DOCUMENTS. WORK SHALL BE IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE CONTRACT DRAWINGS AND SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT.

THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE WITH COORDINATING WITH GC AND OTHER TRADES FOR MECHANICAL EQUIPMENT CONNECTIONS. CONTROLS WORK SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. PROVIDING A CRANE FOR THE REMOVAL OF ROOF TOP EXISTING EQUIPMENT AND INSTALLATION OF NEW HVAC EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.

B. THE GENERAL SCOPE OF WORK CONSISTS OF, BUT IS NOT LIMITED TO, THE FOLLOWING:

1. DEVELOPMENT OF DETAILED PROJECT CONSTRUCTION SCHEDULE AND COORDINATION OF WORK WITHIN THREE WEEKS OF BEING AWARDED THE CONTRACT.
2. RIGGING INTO PLACE RTUs, FANS AND OTHER EQUIPMENT. THIS INCLUDES ANY NECESSARY GAS PIPING AS WELL AS ANY G.C. WORK NECESSARY TO OPEN AND CLOSE UP WALLS OR ROOFS. RIGGING SHALL BE SUBCONTRACTED TO THE BUILDING'S PREFERRED RIGGING COMPANY.
3. INSTALLING SCHEDULED AC EQUIPMENT.
4. FURNISH AND INSTALL NEW DUCTS AND DISTRIBUTION WITH SUPPLY OUTLETS.
5. INSTALLATION OF SPLIT SYSTEM WITH ASSOCIATED REFRIGERANT PIPING.
6. PROCURING AND INSTALLING NEW PIPING, VALVES AND APPURTENANCES.
7. PREPARING AND SUBMITTING RECORD AS-BUILT DRAWINGS AND OPERATING AND MAINTENANCE MANUALS FOR EQUIPMENT PROVIDED BY THIS CONTRACTOR.
8. CONDUCTING AIR SYSTEMS BALANCING AND SUBMITTING REPORTS.
9. INSULATION OF ALL PIPING AS REQUIRED.
10. SUBCONTRACTING THE BUILDING CONTROLS CONTRACTOR FOR INSTALLATION OF NEW CONTROLS
11. OTHER WORK AS DELINEATED IN THE CONTRACT DRAWINGS, INCLUDING ALL ELECTRICAL WORK FOR 15 TON AC SYSTEM AND ALL OTHER PROPOSED MECH EQUIPMENTS.

1.2 BIDDING

A. CONTRACTOR SHALL VISIT THE JOB AND FULLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS PRIOR TO SUBMISSION OF BIDS.

B. CONTRACTOR SHALL COORDINATE THE REQUIREMENTS OF ANY AND ALL DRAWINGS INCLUDING MECHANICAL, ELECTRICAL AND CONTROLS. ANY CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER DURING THE BIDDING PERIOD.

C. CONTRACTOR TO OBTAIN A COPY OF THE BUILDING RULES AND REGULATIONS PRIOR TO BID SUBMISSION TO DETERMINE THE REQUIREMENTS AND THE EXTENT OF PREMIUM TIME WORK REQUIRED BY THE BUILDING.

1.3 GENERAL REQUIREMENTS

A. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE OF TENNESSEE BUILDING CODES.

B. CONTRACTOR SHALL PAY ALL FEES AND TAXES, OBTAIN ALL PERMITS AND APPROVALS, FILE THE REQUIRED DOCUMENTS. SCHEDULE AND PAY ALL FEES FOR ALL BUILDING INSPECTIONS AND FINAL SIGN-OFF INSPECTIONS.

C. CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS INCLUDING, ELECTRICAL.

D. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY WALL OR ROOF PENETRATIONS FOR NEW DUCT OR PIPING WORK AND SHALL PATCH AND REPAIR, TO MATCH EXISTING, ALL HOLES, ACCESS OPENINGS, ETC. DUE TO NEW WORK. ALL PENETRATIONS SHALL BE PATCHED AND FIRESTOPPED AS REQUIRED TO MAINTAIN THE INTENDED FIRE RATING. UNLESS NOTED OTHERWISE ALL FLOORS AND MECHANICAL ROOM WALLS SHALL BE CONSIDERED TO BE 2-HOUR RATED.

E. CONTRACTOR SHALL INFORM ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ASBESTOS OR OTHER HAZARDOUS MATERIAL THAT WILL BE DISTURBED DUE TO THIS WORK.

F. DEMOLITION AND OTHER WORK WHICH MAY CREATE A DISTURBANCE MUST BE COORDINATED WITH THE GC. THE DELIVERY, HANDLING AND INSTALLATION OF MATERIALS, EQUIPMENT AND REMOVAL OF DEBRIS MUST BE ARRANGED TO AVOID ANY INCONVENIENCE AND ANNOYANCE TO OWNER.THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION AND UNUSED MATERIALS.

G. THOROUGHLY BRUSH AND CLEAN UP WORK AT THE END OF EACH DAY. REMOVE ALL DEBRIS FROM INSIDE AND OUTSIDE OF ALL DUCTWORK, PIPING AND EQUIPMENT.

H. SUBSTITUTIONS FOR THE SPECIFIED EQUIPMENT SHALL NOT BE PERMITTED WITHOUT APPROVAL FROM THE ENGINEER. THE ASSOCIATED CHANGE IN THE CONTRACT PRICE SHALL BE INCLUDED WITH ANY PROPOSED SUBSTITUTIONS.

I. SEISMIC MOUNTING AND BRACING OF ALL EQUIPMENT, PIPING ETC. SHALL BE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. THE SEISMIC REQUIREMENTS SHALL BE BASED ON SEISMIC ZONE

J. THE CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURER'S SERVICE REPRESENTATIVE TO ENSURE PROPER INSTALLATION, PIPING AND SERVICE CLEARANCE REQUIREMENTS ARE MET.

K. LAYOUT SYSTEMS TO MAINTAIN ACCESS AND SERVICE CLEARANCES FOR INSTALLED EQUIPMENT, VALVES, CONTROLS, VOLUME DAMPERS AND ALL COMPONENTS REQUIRING ACCESS. SERVICE ACCESS SHALL BE AS RECOMMENDED BY MANUFACTURER OR AS REQUIRED BY CODE WHICHEVER IS GREATER.

L. MAINTAIN OPERATION OF BUILDING SYSTEMS DURING CONSTRUCTION. ANY REQUIRED SHUTDOWNS OF BUILDING SYSTEMS MUST BE COORDINATED WITH THE OWNER.

M. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF ALL SYSTEMS UNTIL THE FINAL ACCEPTANCE OF THE WORK.

N. UNLESS OTHERWISE SPECIFIED, THE MOST RECENT VERSIONS OF THE FOLLOWING CODES AND STANDARDS APPLY AND ARE MADE A PART OF THIS SPECIFICATION

1. STATE OF TENNESSEE BUILDING CODES
2. UNDERWRITER'S LABORATORIES, INC. (UL).
3. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
4. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).
5. AMERICAN NATIONAL STANDARD INSTITUTE (ANSI).
6. OSHA – FEDERAL STANDARDS
7. AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS, INC. (ASHRAE).
8. AIR CONDITIONING & REFRIGERATION INSTITUTE (ARI).
9. AMERICAN WELDING SOCIETY (AWS).
10. AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM).

O. PATCH, FILL AND REPAIR, INCLUDING PAINTING OR RECOVERING ALL SURFACES DISTURBED, CUT, DAMAGED, IN NEED OF REPAIR OR MADE IMPERFECT BY ALTERATIONS OR REMOVAL WORK AND AS REQUIRED.

1.4 COORDINATION WITH BUILDING MANAGEMENT

A. THIS CONTRACTOR IS RESPONSIBLE FOR ADHERING TO THE BUILDING OWNER'S RULES AND REGULATIONS. ANY DISCREPANCIES BETWEEN THE CONTRACTOR DOCUMENTS AND THE BUILDING RULES AND REGULATIONS SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT/ENGINEER FOR REVIEW, WITH BID SUBMISSION.

B. COORDINATE WITH BUILDING OWNER FOR ANY SERVICE INTERRUPTION OF EXISTING SYSTEMS AND GIVE NOTICE AS REQUIRED BY BUILDING RULES AND REGULATIONS OR A MINIMUM OF TWO (2) DAYS PRIOR TO ANY WORK, WHICHEVER IS MORE STRINGENT. CONTRACTOR IS TO PERFORM WORK ON PREMIUM TIME, IF SO DIRECTED BY BUILDING OWNER, SO AS NOT TO INTERRUPT BUILDING SERVICES DURING OCCUPIED PERIODS.

1.5 SUBMITTALS

A. SHOP DRAWINGS OF THE FOLLOWING SHALL BE SUBMITTED FOR REVIEW PRIOR TO PURCHASE AND INSTALLATION.

1. MANUFACTURER'S SUBMITTAL DATA FOR ALL EQUIPMENT SUPPLIED. SUBMITTALS SHALL CLEARLY INDICATE SPECIFIC ITEMS PROPOSED AND WHERE EACH ITEM IS TO BE APPLIED.
2. EQUIPMENT SOUND POWER DATA BROKEN INTO OCTAVE BANDS.
3. DIMENSIONED AND DETAILED PIPING, EQUIPMENT AND DUCTWORK LAYOUT.
4. SHOP STANDARDS AND INSTALLATION DETAILS FOR DUCTWORK, PIPING, INSULATION, STRUCTURAL SUPPORTS, VIBRATION ISOLATION,
5. PIPE CLEANING AND FLUSHING PROCEDURE.
6. AIR BALANCING REPORTS.
7. TEMPERATURE CONTROLS SUBMITTAL INCLUDING FLOW DIAGRAMS, WIRING DIAGRAMS, PRODUCT DATA, SEQUENCE OF OPERATION AND ALL CONTROL POINTS.
8. OTHER SUBMITTAL DATA NOTED ELSEWHERE.

B. SUBMITTALS SHALL BE IN "PDF" FORMAT AND SUBMITTED TO THE PROJECT TEAM (TO BE ISSUED AT CONTRACT AWARD).

C. SUBMIT DETAILED PROJECT SCHEDULE, WITHIN TWO (2) WEEKS OF CONTRACT AWARD.

1.6 RECORD DRAWINGS

A. SUBMIT INFORMATION FOR ALL INSTALLED EQUIPMENT INCLUDING: OPERATING AND MAINTENANCE MANUALS, START-UP REPORTS, SPARE PARTS LISTS.

B. AS-BUILT DRAWINGS SHOWING ALL DUCTWORK, PIPING AND EQUIPMENT AND TEST AND BALANCING REPORTS SHALL BE SUBMITTED TO THE OWNER AT THE COMPLETION OF THE WORK. THE AS-BUILT DRAWINGS SHALL ALSO SHOW EXISTING WORK WITHIN THE WORK AREA INCLUDING DUCTS AND PIPING THAT WAS CAPPED, REROUTED AND REMAINING IN WORK AREA.

C. CONTROL SYSTEM AS-BUILT AND OPERATING MANUAL.

D. RECORD DOCUMENTS TO BE ISSUED IN "PDF" AND TWO PRINTED COPIES.

1.7 MECHANICAL CONTRACTOR COMMISSIONING RESPONSIBILITIES

THE MECHANICAL CONTRACTOR SHALL:

1. FACILITATE THE COORDINATION OF THE COMMISSIONING WORK BY THE CXA WITH ALL SUB-CONTRACTORS AND THE OWNER.
2. INCLUDE THE COST OF COMMISSIONING IN THE TOTAL CONTRACT PRICE.
3. FURNISH A COPY OF ALL CONSTRUCTION DOCUMENTS, ADDENDA, CHANGE ORDERS AND APPROVED SUBMITTALS AND SHOP DRAWINGS (IF APPLICABLE) RELATED TO COMMISSIONED EQUIPMENT TO THE CXA.
4. IN EACH PURCHASE ORDER OR SUBCONTRACT WRITTEN, INCLUDE REQUIREMENTS FOR COMMISSIONING TASKS.
5. PROVIDE ALL NECESSARY STAFF, TOOLS AND INSTRUMENTATION AND COORDINATION REQUIRED FOR THE COMMISSIONING WORK.
6. ENSURE THAT ALL SUBS EXECUTE THEIR COMMISSIONING RESPONSIBILITIES ACCORDING TO THE CONTRACT DOCUMENTS AND SCHEDULE.
7. A REPRESENTATIVE SHALL ATTEND A COMMISSIONING SCOPING MEETING AND OTHER NECESSARY MEETINGS SCHEDULED BY THE CXA TO FACILITATE THE CXA PROCESS.
8. COMPLETE ALL CONSTRUCTION CHECKLISTS INCLUDING MANUFACTURER'S CHECK, TEST AND START-UP DOCUMENTATION.

1.8 START-UP AND TRAINING

A. CONTRACTOR TO PROVIDE OWNER TRAINING IN THE OVERALL OPERATION AND MAINTENANCE OF ALL INSTALLED SYSTEMS.

B. ENGAGE THE SERVICES OF MANUFACTURERS SUPPLYING THE EQUIPMENT FOR THE EQUIPMENT STARTUP AND TO INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER OPERATION AND SERVICING OF THE SYSTEM.

1.9 GUARANTEE

A. ALL MATERIALS AND WORKSMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF THIS WORK. FINAL ACCEPTANCE SHALL BE DEFINED AS THE TIME AT WHICH THE MECHANICAL WORK IS TAKEN OVER AND ACCEPTED BY THE OWNER, AND IS UNDER CARE, CUSTODY, AND CONTROL OF THE OWNER. ENGAGE THE SERVICES OF VARIOUS MANUFACTURERS SUPPLYING THE EQUIPMENT FOR THE PROPER STARTUP AND OPERATION OF ALL SYSTEMS INSTALLED. INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER OPERATION AND SERVICING OF THE SYSTEM.

B. THE CONTRACTOR SHALL GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN THE GUARANTEE PERIOD. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL INCLUDE RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS, IN EQUIPMENT SUPPLIED BY THIS CONTRACTOR.

C. ALL EQUIPMENT WARRANTIES SHALL BE TRANSFERRED TO OWNER AND SERVICED BY CONTRACTOR AS PART OF THIS CONTRACT.

D. ALL AIR CONDITIONING UNIT COMPRESSORS AND REFRIGERATION COMPONENTS SHALL HAVE A 5-YEAR WARRANTY.

2.0 DUCTWORK MATERIALS AND INSTALLATIONS

2.1 DUCTWORK

A. ALL DUCTWORK SHALL BE LOCK FORMING QUALITY GALVANIZED STEEL SHEETS UNLESS OTHERWISE NOTED ON DRAWINGS. ALL DUCTWORK SHALL CONFORM TO THE CONSTRUCTION DETAILS AND RECOMMENDATIONS IN THE LATEST ISSUES OF THE ASHRAE GUIDE, NFPA BULLETINS 90A, B & C AND THE SMACNA DUCT MANUAL. INSTALLATION OF DUCTWORK SHALL BE AS RECOMMENDED BY THE ABOVE. ALL DUCT SEAMS SHALL BE SEALED WITH DUCT SEALANT. DUCT LEAKAGE SHALL NOT EXCEED VALUES SET BY THE SMACNA STANDARDS, AND RECOMMENDATIONS BY ASHRAE, AND IN NO CASE SHALL BE MORE THAN 5 PERCENT.

C. PRESSURE CLASSIFICATIONS SHALL BE MINIMUM OF 2" W.G. EXCEPT AS INDICATED BELOW AND AS INDICATED ON DRAWINGS. ALL SYSTEM COMPONENETS SHALL BE SELECTED AND INSTALLED TO ACHIEVE THE PRESSURE RATINGS.

SERVICE	PRESSURE RATING
DUCTWORK BETWEEN THE AIR HANDLING UNIT DISCHARGE AND ISOLATION AND SMOKE/FIRE DAMPERS.	3" IN. W.G
DUCTWORK DOWNSTREAM OF VAV BOX, BRANCH DUCTS TO SINGLE DIFFUSERS	1" IN. W.G

D. THE CONTRACTOR SHALL PROVIDE BALANCING DAMPERS, AS SHOWN ON THE PLANS AND AS REQUIRED TO ACHIEVE SMOOTH AIR FLOW.

E. ALL 90 DEGREE MITER ELBOWS SHALL HAVE DOUBLE THICKNESS AIR FOIL TYPE TURNING VANES AS DETAILED IN THE SMACNA STANDARDS. ALL OTHER ELBOWS SHALL HAVE A MINIMUM TURNING RADIUS OF ONE DUCT WIDTH AS MEASURED FROM THE CENTER LINE. ALL DUCT SUPPORTS SHALL CONFORM TO SMACNA STANDARDS.

F. DUCT DIMENSIONS SHOWN ON DRAWINGS SHALL BE CLEAR INSIDE DIMENSIONS.

2.2 AUTOMATIC DAMPERS

A. PROVIDE AUTOMATIC DAMPERS AS INDICATED ON CONTRACT DRAWINGS.

B. DAMPERS TO BE LOW LEAKAGE TYPE, WITH PUBLISHED LEAKAGE DATA CERTIFIED UNDER THE AMCA CERTIFIED RATING PROGRAM SHOWING LEAKAGE THOUGH A 48 INCH BY 48 INCH DAMPER AT 4 INCH WATER GAUGE PRESSURE DIFFERENCE TO BE LESS THAN 10 CFM PER SQUARE FOOT.

C. AUTOMATIC DAMPERS SHALL BE THE PARALLEL OR OPPOSED BLADE TYPE AS SPECIFIED BELOW OR AS NOTED ON THE DRAWINGS.

1. OTHER MODULATING AND MIXING DAMPERS SHALL BE OPPOSED BLADE CONFIGURATION.
2. TWO-POSITION SHUTOFF DAMPERS MAY BE PARALLEL OR OPPOSED BLADE.

D. DAMPER FRAMES SHALL BE 13 GAUGE GALVANIZED STEEL CHANNEL OR 1/8 INCH EXTRUDED ALUMINUM WITH REINFORCED CORNER BRACING. DAMPER BLADES SHALL BE NOT LESS THAN 16 GAUGE.

E. DAMPERS TO HAVE A MAXIMUM BLADE LENGTH OF 48 INCHES AND A MAXIMUM BLADE WIDTH OF 8 INCHES. THE MAXIMUM HEIGHT OF EACH DAMPER SECTION SHALL BE 72 INCHES. WHERE GREATER LENGTH OR HEIGHT IS REQUIRED, USE MULTIPLE DAMPER SECTIONS. DAMPERS TO HAVE EXTERNAL SHAFT TYPE UNLESS NOTED OR APPROVED OTHERWISE. DAMPERS SHALL HAVE EXPOSED LINKAGES.

F. DAMPER SHAFT BEARINGS SHALL BE AS RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATION, OIL IMPREGNATED SINTERED BRONZE OR BETTER.

G. ALL BLADE EDGES AND TOP AND BOTTOM OF THE FRAME SHALL BE PROVIDED WITH REPLACEABLE BUTYL RUBBER OR NEOPRENE SEALS. SIDE SEALS SHALL BE SPRING LOADED STAINLESS STEEL. BLADES AND SEALS SHALL BE SUITABLE FOR WIDE OPEN FACE VELOCITY OF UP TO 2000 FPM.

H. INSTALL DAMPER ACTUATORS OF SUFFICIENT QUANTITY AND SIZE TO LIMIT LEAKAGE TO SPECIFIED RATE AND BE SUITABLE FOR DESIGN FLOW AND PRESSURE CONDITIONS. DAMPER ASSEMBLIES CONSISTING OF MULTIPLE DAMPER SECTIONS TO BE PROVIDED WITH AT LEAST ONE DAMPER ACTUATOR PER SECTION OR BE CONNECTED WITH AN APPROVED JACK SHAFTING ARRANGEMENT.

2.3 FIRE AND FIRE SMOKE DAMPERS

A. COMBINATION FIRE SMOKE DAMPERS SHALL BE UL 5555, AIRFOIL BLADE RUSKIN FSD-60 OR APPROVED EQUAL. 120VAC ELECTRIC ACTUATOR. LOCATE ACTUATOR TO MAINTAIN 24" MINIMUM ACCESS. USE OUT OF WALL TYPE AS SHOWN ON PLANS OR REQUIRED FOR ACCESS.

2.4 DUCT AND AIR SYSTEMS INSULATION

A. DUCTWORK INSULATION SHALL CONFORM TO MAXIMUM FLAME SPREAD/SMOKE DEVELOPMENT/FUEL CONTRIBUTION RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED AND 50 FUEL CONTRIBUTED IN ACCORDANCE WITH ASTM E84, WITH "K" VALUE OF 0.29 AT 75 DEGREES F. INSULATION SHALL PROVIDE CONTINUOUS, VAPOR BARRIER AND JOINTS SHALL BE SECURED WITH PRESSURE SENSITIVE TAPE. MOISTURE VAPOR TRANSMISSION PER ASTM E96, 1.3 PERM. MINIMUM DUCTWORK INSULATION R VALUES SHALL BE AS FOLLOWS:

B. SCHEDULE

SERVICE	R-VALUE/THICKNESS
CONDITIONED SUPPLY DUCTS WITHIN CONDITIONED SPACE	1-1/2"
DUCTS LOCATED OUTDOORS OR SUBJECT TO OUTSIDE CONDITIONS	2"

C. PROVIDE 1-1/2", 3.0 LBS/CF RIGID GLASS FIBER BOARD ON ALL OUTSIDE AIR DUCTS AND PLENUMS, MIXED AIR PLENUMS, AND SUPPLY DUCTS WITHIN MECHANICAL ROOMS AND OTHER EXPOSED LOCATIONS. PROVIDE 1-1/2", 1.5 LBS/CF FLEXIBLE GLASS FIBER WRAP ON ALL SUPPLY DUCTS IN CONCEALED BUT ACCESSIBLE LOCATIONS.

D. PROVIDE 1" CLOSED CELL ELASTOMERIC INTERNAL RIGID DUCT LINER FOR A MINIMUM OF 20 FEET DOWN STREAM OF AIR HANDLING UNITS AND OTHER LOCATIONS WHERE INDICATED ON THE DRAWINGS. LINED SUPPLY DUCTWORK DOES NOT REQUIRE EXTERNAL DUCT INSULATION. AP/ARMAFLEX "GRAY" INSTALLED PER SMACNA STANDARDS.

E. PROVIDE 1", 1-1/2 LBS/CF, INTERNAL RIGID DUCT LINER FOR A MINIMUM OF 15 FEET UPSTREAM (RETURN) OF RETURN FANS AND AIR HANDLING UNITS AND OTHER LOCATIONS WHERE INDICATED ON THE DRAWINGS.

F. INSULATION SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SMACNA GUIDELINES.

2.5 AIR SYSTEM – VIBRATION ISOLATION

A. PROVIDE VIBRATION ISOLATION FOR ALL FANS WHERE NOT INTERNALLY ISOLATED.

B. WHERE FANS ARE NOT PROVIDED WITH INTERNALLY ISOLATED FANS –APROVIDE NEOPRENE FLEXIBLE CONNECTIONS IN DUCTWORK AT FAN CONNECTIONS TO DUCTWORK.

C. AHUS SHALL BE SET ON NEOPRENE VIBRATION ISOLATION PADS.

2.6 LOUVERS

A. PROVIDE HIGH PERFORMANCE LOUVERS FOR INTAKE AND EXHAUST. 0.081 INCH EXTRUDED ALUMINUM CONSTRUCTION, 4" FRAME, 45 DEGREE BLADE, DRAINABLE DESIGN WITH WIRE MESH BIRD SCREEN. LOUVERS TO BE AMCA CERTIFIED WITH PERFORMANCE AS FOLLOWS FOR 48X48 SECTION:
MINIMUM FREE AREA: 50%
MAXIMUM PRESSURE DROP AT 700 FPM FREE AREA VELOCITY:
INTAKE: 0.10 INCH W.C.
EXHAUST: 0.09
MINIMUM FREE AREA VELOCITY FOR WATER PENETRATION: 1000 FPM

B. FINISH: MIL FINISH TO BE APPROVED BY ARCHITECT.

C. MANUFACTURERS: GREENHECK MODEL ESD-403, RUSKIN MODEL ELF445DX

3.0 PIPING MATERIALS AND INSTALLATION

3.1 GENERAL

A. PRESSURE RATINGS FOR PRESSURIZED PIPING SHALL BE AS INDICATED BELOW AND AS NOTED ON THE DRAWINGS. ALL SYSTEM MATERIALS AND COMPONENTS SHALL BE SELECTED AND INSTALLED TO ACHIEVE THE PRESSURE RATINGS AS FOLLOWS:

SERVICE	PRESSURE RATING
REFRIGERANT	350 PSI
OTHER PIPING	125 PSI

3.2 PIPE AND FITTINGS

A. PROVIDE PIPING AS INDICATED ON SCHEDULE BELOW AND INDICATED ON DRAWINGS.

SERVICE	PIPING	JOINTS
DOMESTIC WATER	TYPE L COPPER	SWEAT
AC CONDENSATE	TYPE M COPPER	SWEAT
AC REFRIGERANT	TYPE ACR COPPER	BRAZED

B. COPPER PIPING: WROUGHT COPPER FITTINGS. SWEAT JOINTS 95-5 TIN ANTIMONY SOLDER JOINTS. BRAZED JOINTS: _____

C. INSTALL ALL REFRIGERANT PIPING PER EQUIPMENT MANUFACTURERS SPECIFICATIONS.

3.3 VALVES AND PIPING SPECIALTIES

E. ALL VALVES SHALL BE OF A DESIGN WHICH THE MANUFACTURER LISTS FOR THE SERVICE AND SHALL BE OF MATERIALS ALLOWED BY THE LATEST EDITION OF THE ASME CODE FOR PRESSURE PIPING, FOR THE MAXMUM OPERATING PRESSURE AND TEMPERATURE, UNLESS A HIGHER GRADE OR QUALITY IS HEREIN SPECIFIED. ALL VALVES SHALL BE OF THE SAME MANUFACTURER, EXCEPT FOR SPECIAL APPLICATIONS.

F. EACH VALVE SHALL HAVE THE MAKER'S NAME OR BRAND, THE FIGURE OR LIST NUMBER AND THE GUARANTEED WORKING PRESSURE CAST ON THE BODY AND CAST OR STAMPED ON THE BONNET, OR SHALL BE PROVIDED WITH OTHER MEANS OF EASY IDENTIFICATION.

G. PROVIDE VALVES AS INDICATED ON SCHEDULE BELOW AND INDICATED ON DRAWINGS.

SERVICE	VALVE	JOINTS
DOMESTIC WATER	BALL	

H. BALL VALVES UP TO 2-1/2 INCHES: BRONZE TWO PIECE BODY, STAINLESS STEEL FULL PORT BALL, TEFLON SEATS AND STUFFING BOX RING, LEVER HANDLE SOLDER ENDS.

I. PROVIDE EXTENDED SHAFT HANDLES FOR BALL VALVES WHERE INSULATION IS REQUIRED TO ALLOW INSULATION OF SPECIFIED THICKNESS TO BE INSTALLED.

J. BALL VALVES 3 INCHES AND UP:

K. BUTTERFLY VALVES: LUGGED DESIGN

L. GATE VALVES SHALL BE OF THE SOLID TAPERED WEDGE TYPE, UNION BONNET, RISING STEM.

M. FLOW LIMITING VALVES SHALL BE Y-BODY WITH REPLACEABLE INSERTS. MINIMUM OPERATING PRESSURE SHALL BE 2 PSI OR LESS. FLOW LIMITING VALVES SHALL BE GRISWOLD, HAYS OR APPROVED EQUAL.

N. CHECK VALVES INSTALLED IN THE HORIZONTAL POSITION SHALL BE SWNG CHECKS; VALVES INSTALLED IN THE VERTICAL POSITION SHALL BE SILENT CHECKS, EXCEPT THAT ALL CHECK VALVES IN PUMP DISCHARGES SHALL BE SILENT CHECKS.

O. ALL VALVES 2 INCHES IN DIAMETER AND SMALLER SHALL BE ALL BRONZE WITH BRONZE BODIES. VALVES 2-1/2 INCHES IN DIAMETER AND LARGER SHALL HAVE IRON BODIES WITH BRONZE MOUNTINGS UNLESS OTHERWISE SPECIFIED.

P. ALL VALVES AND SPECIALTIES SHALL BE SO PLACED AS TO PERMIT EASY OPERATION AND ACCESS.

Q. ALL VALVES 2 INCHES IN DIAMETER AND SMALLER SHALL BE ALL BRONZE WITH BRONZE BODIES. VALVES 2-1/2 INCHES IN DIAMETER AND LARGER SHALL HAVE IRON BODIES WITH BRONZE MOUNTINGS UNLESS OTHERWISE SPECIFIED.

R. ALL VALVES UP TO 2 INCHES IN DIAMETER SHALL HAVE SWEAT OR SCREW ENDS, 2-1/2" IN DIAMETER AND OVER SHALL HAVE FLANGED ENDS.

S. DRAIN VALVES SHALL BE PROVIDED WITH HOSE END, BRONZE BODY WITH CAP AND CHAIN.

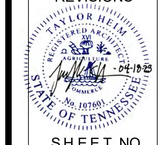
T. STRAINERS SHALL BE Y-TYPE WITH REMOVABLE SCREEN. TWO-INCH AND SMALLER, SCREWED, MUESSCO #11; 2-1/2" AND LARGER , FLANGED CAST IRON MUESSCO #751 OR APPROVED EQUAL. PROVIDE BRASS SCREENS WITH 1/16" PERFORATIONS FOR WATER UP TO 3" INCLUSIVE AND ALL STEAM SIZES; 1/8" PERFORATIONS FOR 4" AND ABOVE FOR WATER. STRAINERS FOR COILS REQUIRING AUTOMATIC FLOW LIMITING VAVLES SHALL HAVE 20 MESH SCREENS.

ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR IS TO PROVIDE ALL MATERIALS AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS INDICATED ON THE DRAWINGS AS SPECIFIED AND AS REQUIRED BY ALL APPLICABLE CODES, ORDINANCES, AND AHJ.

RESTAURANT RENOVATION

Address: 190 Spruce Ln
Gatlinburg , Tennessee

PROJECT NO.
02222
DATE
09/16/2022
REVISIONS

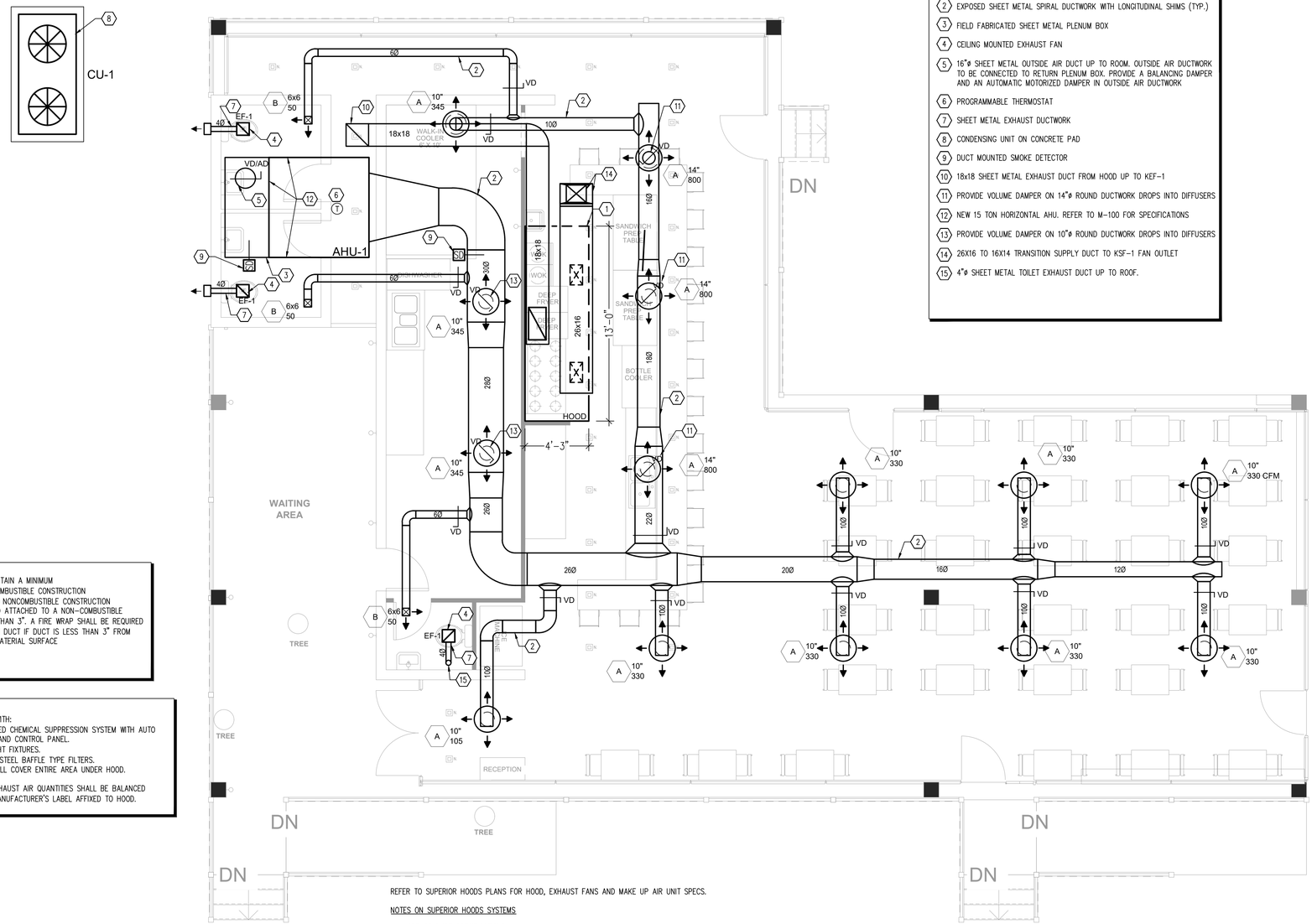


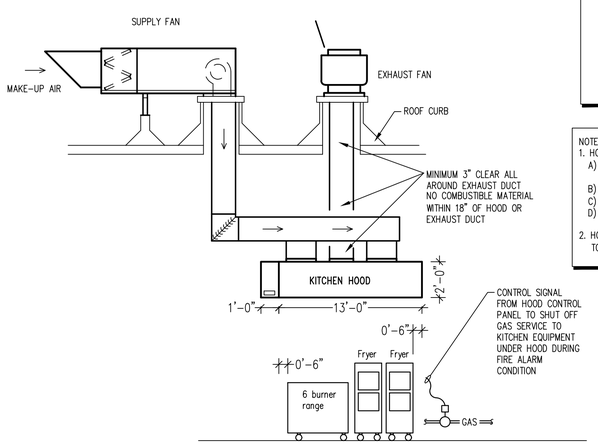
SHEET NO

M-1.0

DRAWING NOTES:

1. KITCHEN EXHAUST HOOD
2. EXPOSED SHEET METAL SPIRAL DUCTWORK WITH LONGITUDINAL SHIMS (TYP.)
3. FIELD FABRICATED SHEET METAL PLENUM BOX
4. CEILING MOUNTED EXHAUST FAN
5. 16"ø SHEET METAL OUTSIDE AIR DUCT UP TO ROOM. OUTSIDE AIR DUCTWORK TO BE CONNECTED TO RETURN PLENUM BOX. PROVIDE A BALANCING DAMPER AND AN AUTOMATIC MOTORIZED DAMPER IN OUTSIDE AIR DUCTWORK
6. PROGRAMMABLE THERMOSTAT
7. SHEET METAL EXHAUST DUCTWORK
8. CONDENSING UNIT ON CONCRETE PAD
9. DUCT MOUNTED SMOKE DETECTOR
10. 18x18 SHEET METAL EXHAUST DUCT FROM HOOD UP TO KEF-1
11. PROVIDE VOLUME DAMPER ON 14"ø ROUND DUCTWORK DROPS INTO DIFFUSERS
12. NEW 15 TON HORIZONTAL AHU. REFER TO M-100 FOR SPECIFICATIONS
13. PROVIDE VOLUME DAMPER ON 10"ø ROUND DUCTWORK DROPS INTO DIFFUSERS
14. 26X16 TO 16X14 TRANSITION SUPPLY DUCT TO KSF-1 FAN OUTLET
15. 4"ø SHEET METAL TOILET EXHAUST DUCT UP TO ROOF.





GENERIC KITCHEN HOOD DETAIL

GREASE DUCT SHALL MAINTAIN A MINIMUM OF 18" CLEARANCE TO COMBUSTIBLE CONSTRUCTION AND A MINIMUM OF 3" TO NONCOMBUSTIBLE CONSTRUCTION AND GYPSUM WALL BOARD ATTACHED TO A NON-COMBUSTIBLE STRUCTURE OF NO LESS THAN 3". A FIRE WRAP SHALL BE REQUIRED AROUND GREASE EXHAUST DUCT IF DUCT IS LESS THAN 3" FROM A LIMITED COMBUSTIBLE MATERIAL SURFACE

NOTES:
1. HOOD SHALL BE COMPLETE WITH:
   A) PRE-ENGINEERED, UL LISTED CHEMICAL SUPPRESSION SYSTEM WITH AUTO AND REMOTE ACTIVATION AND CONTROL PANEL.
   B) UL LISTED PRE-WIRED LIGHT FIXTURES.
   C) UL CLASSIFIED STAINLESS STEEL BAFFLE TYPE FILTERS.
   D) SUPPRESSION SYSTEM SHALL COVER ENTIRE AREA UNDER HOOD.
2. HOOD MAKE-UP AIR AND EXHAUST AIR QUANTITIES SHALL BE BALANCED TO QUANTITIES LISTED ON MANUFACTURER'S LABEL AFFIXED TO HOOD.

REFER TO SUPERIOR HOODS PLANS FOR HOOD, EXHAUST FANS AND MAKE UP AIR UNIT SPECS.

NOTES ON SUPERIOR HOODS SYSTEMS

A. GREASE DUCT SPECIFICATIONS:

ALL DUCTWORK SHALL BE DESIGNED, CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH TBCM 2012 SECTIONS 506.3.1 THROUGH 506.3.13.3.
ACCESS DOORS/CLEANOUTS AS SHOWN ON PLANS ARE PROPOSED TO COMPLY WITH MINIMUM CODE REQUIREMENTS, THE CONTRACTOR IS RESPONSIBLE FOR FINAL COMPLIANCE AND THE ONES PROVIDED MUST BE RATED AND COMPLY WITH ALL REQUIREMENTS AS PER TBCM 506.3.8.

AS PER TBCM 506.3.7, DUCT SYSTEMS SERVING TYPE I HOOD SHALL BE CONSTRUCTED AND INSTALLED SO THAT GREASE CANNOT COLLECT IN ANY PORTION THEREOF, AND THE SYSTEM SHALL SLOPE NOT LESS THAN ONE-FOURTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE) TOWARD THE HOOD OR TOWARD A GREASE RESERVOIR DESIGNED AND INSTALLED IN ACCORDANCE WITH SECTION 506.3.7.1. DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OE GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 LISTED DOUBLE WALL GREASE DUCT 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

B. EXHAUST FANS:

- FANS SHALL INCLUDE AMCA SEAL AND SHALL BE U.L. LISTED.
- DISCONNECT SWITCH NEMA 3R - MOUNTED AND WIRED.
- 26" ROOF CURB, FACTORY INCLUDED.
- FAN SPEED CONTROLLER - FACTORY MOUNTED AND WIRED.

AS PER TBCM 506.3.7, DUCT SYSTEMS SERVING TYPE I HOOD SHALL BE CONSTRUCTED AND INSTALLED SO THAT GREASE CANNOT COLLECT IN ANY PORTION THEREOF, AND THE SYSTEM SHALL SLOPE NOT LESS THAN ONE-FOURTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE) TOWARD THE HOOD OR TOWARD A GREASE RESERVOIR DESIGNED AND INSTALLED IN ACCORDANCE WITH SECTION 506.3.7.1.

GREASE DUCT CLEANOUTS SHALL COMPLY WITH ALL THE REQUIREMENTS OF TBCM 506.3.8.

ALL DUCTWORK SHALL BE DESIGNED, CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH TBCM SECTIONS 506.3.1 THROUGH 506.3.13.3.

ALL INFORMATION PERTAINING TO SUPERIOR HOODS SHALL HAVE A SEPERATE PERMIT, DRAWINGS AND PLAN REVIEW.

ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR IS TO PROVIDE ALL MATERIALS AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS INDICATED ON THE DRAWINGS AS SPECIFIED AND AS REQUIRED BY ALL APPLICABLE CODES, ORDINANCES, AND AHJ.

HVAC FLOOR PLAN PROPOSED
1/4" = 1'-0"

RESTAURANT RENOVATION
Address: 190 Spruce Ln
Gallinburg , Tennessee

PROJECT NO.
02222
DATE
09/16/2022
REVISIONS

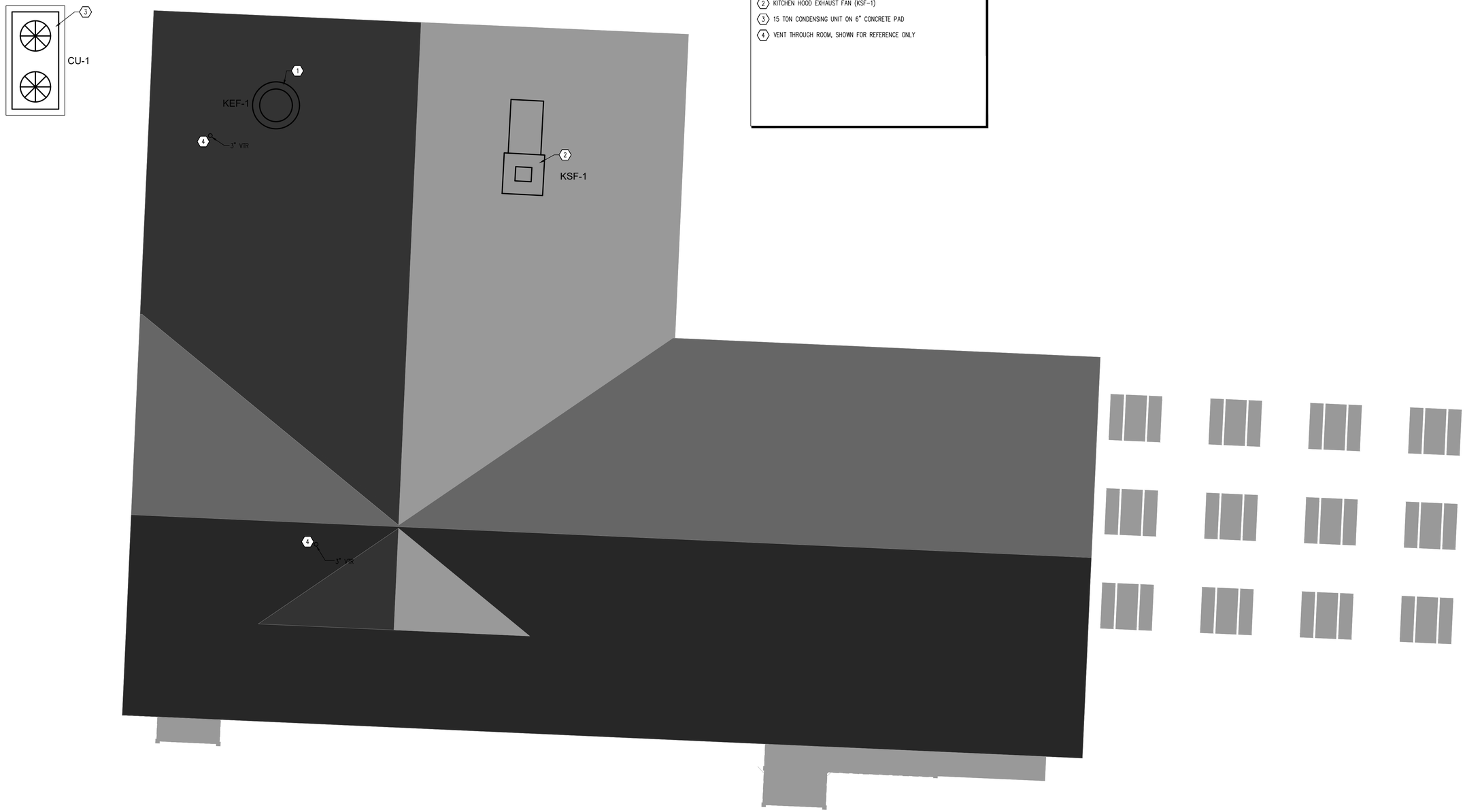
TAYLOR HEIM REGISTERED ARCHITECT STATE OF TENNESSEE No. 10760
04-10-23

SHEET NO
M-2.0

ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR IS TO PROVIDE ALL MATERIALS AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS INDICATED ON THE DRAWINGS AS SPECIFIED AND AS REQUIRED BY ALL APPLICABLE CODES, ORDINANCES, AND AHJ.

DRAWING NOTES:

1. KITCHEN HOOD EXHAUST FAN (KEF-1)
2. KITCHEN HOOD EXHAUST FAN (KSF-1)
3. 15 TON CONDENSING UNIT ON 6" CONCRETE PAD
4. VENT THROUGH ROOM, SHOWN FOR REFERENCE ONLY



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

RESTAURANT RENOVATION

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TAYLOR HEIM
REGISTERED ARCHITECT
No. 10760
STATE OF TENNESSEE
09-16-23

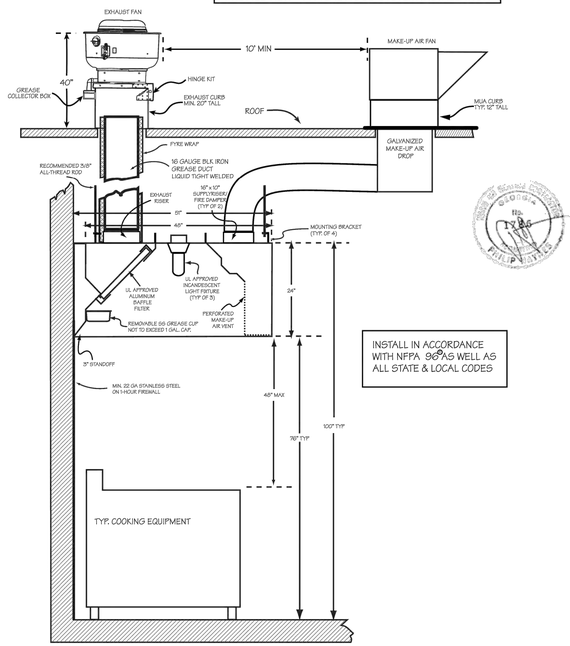
SHEET NO

M-3.0

BSSM 48-13 ETL

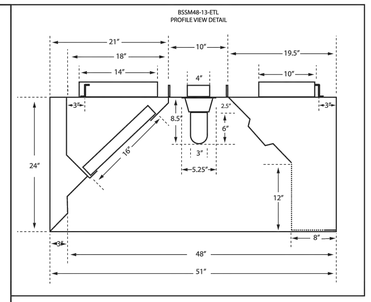
STAINLESS STEEL EXHAUST HOOD WITH MAKEUP AIR VENT
ETL APPROVED. N.S.F. LISTED. CONFORMS TO NFPA 96
ETL LISTED # 3148390 CONFORMS TO UL STD 710

PROFILE VIEW - TYPICAL HOOD SYSTEM INSTALLATION

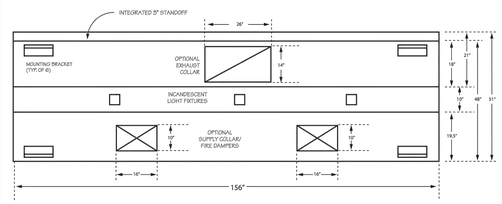


INSTALL IN ACCORDANCE WITH NFPA 96 AS WELL AS ALL STATE & LOCAL CODES

BSSM48-13-ETL
PROFILE VIEW DETAIL



BSSM48-13-ETL
PLAN VIEW DETAIL



SUPERIOR HOODS
2018 STEEL DRIVE TUCKER GA 30084
TEL (770) 936 0770 FAX (770) 936 9914

HOOD INFORMATION (PER HOOD)

STYLE	LENGTH	WIDTH	HEIGHT	HOOD CONSTRUCTION	FILTERS				LIGHTS	
					TYPE	QTY	HEIGHT	LENGTH	QTY	TYPE
BSSM48-13-ETL	13'	48"	24"	TYPE: 430 STAINLESS STEEL GAUGE: 18 POLISH: #3	ALUMINUM BAFFLE w/HANDLES UL APPROVED	3 4	16" 16"	20" 25"	3	INCANDESCENT LIGHT FIXTURE UL APPROVED

CFM REQUIREMENTS (PER HOOD)		OPTIONAL COLLARS (PER HOOD)						
EXHAUST	SUPPLY	EXHAUST		SUPPLY		STANDOFF	NOM WEIGHT	ACCESSORIES
		QTY	SIZE	QTY	SIZE			
3,640 @ .75 S.P.	2,912@ .12 S.P.		14" X 26"		16" X 10"	☐ NONE ☒ 3" ☐ _____	650 LBS	

Superior Hoods
Tucker, Georgia

Fan # 1 SA12 332.97 lbs.

Untempered Supply Unit with 12" Blower in Size #2 Housing

Supply Motor

Model CK56HB02D01-60HZ • 1 HP • 1 Phs • 115 V • 8.1 FLA • 60 Hz • ODP (Open Drip Proof)

Pulley Information

Part Type	Qty	Browning #	Turns Out
Belt	1	AX51	
Blower Pulley	1	AK94H	
Bushing	1	H-1	
Motor Pulley	1	1VL40 x 5/8	4.0

Supply Performance

Volume: 3,360 cfm
RPM: 534
Tip Speed: 1678 ft/min
SP: 0.163" w.g.
(0.125" Ext + 0.038" Opt /Int)
BHP: 0.547
Altitude: 0'
Summer Design Temp: 70 °F

Supply Installation Information

Motor/Control Circuit: 10.2 Amps MCA, 15 Amps MOP, 115 V, 14 AWG Wire Min.
Unit Voltage: 1 phs 115 V

Construction Features

Housing constructed of heavy duty G90 galvanized steel • Forward curved centrifugal blower wheel • Vibration isolation • Adjustable drive assemblies • Adjustable motor mount • Ball bearing motors • Heavy duty, pre-lubricated bearings rated for 200,000 hours of operation • Static resistant belts • Service doors on both sides • Horizontal & down discharge • Weatherproof safety disconnect switch • Large intake area ensures low pressure drop across unit • High Efficiency Motors • Lifting Points

Blower

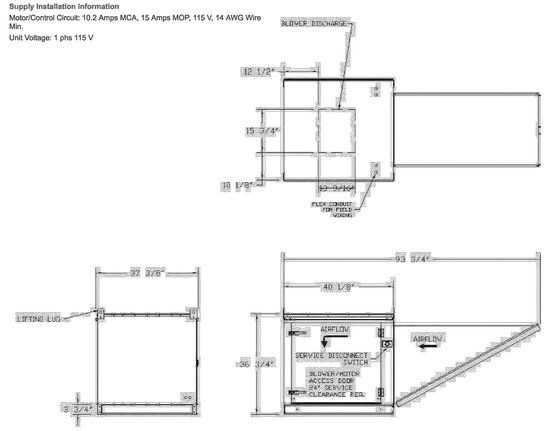
12" forward curved, centrifugal blower. Permanently lubricated ball bearings. Galvanized finish. 1500-5000 CFM. 1" x 22" Shaft. 2140 max. RPM. Used in heated and non-heated supply fans.

Intake

Sloped Filtered Intake for Size #2 Modular Untempered Supply Unit. 26.813" Wide X 53.625" Long X 31.313" High. Includes 2" MV EZ Kleen Metal Mesh Filters.

Filters

3 - MV EZ Kleen Metal Mesh Filter. 20"x 25"x 2" Used for heater and supply fan intakes. (3416)



ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR IS TO PROVIDE ALL MATERIALS AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS INDICATED ON THE DRAWINGS AS SPECIFIED AND AS REQUIRED BY ALL APPLICABLE CODES, ORDINANCES, AND AHJ.

Superior Hoods
Tucker, Georgia

BDU20 166.48 lbs

Belt Drive Centrifugal Upblast Exhaust Fan with 20.75" wheel

Motor

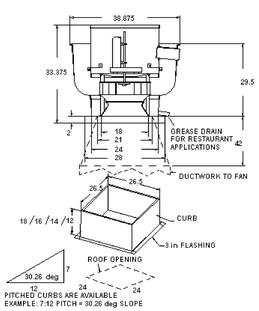
Model 00118OS1BAOD56-48PP • 1 HP • 1 Phs • 115/208-230 V • 14/7-6.8 FLA • 60 Hz • ODP (Open Drip Proof)

Performance

Volume: **2200 - 4500 cfm**
SP: 0.5" w.g.
BHP: 0.2582
RPM: 615
Tip Speed: 3341 ft/min

Construction Features

Housing constructed of heavy gauge aluminum • Centrifugal backward inclined, non-overloading wheel built out of 3003-H14 aluminum • Weatherproof safety disconnect switch • Grease spout welded to housing • Vibration isolators • Adjustable pitch drive assemblies • Adjustable motor mount • Ball bearing motors • Forces fresh air through motor to ensure long motor life • Corrosion resistant fasteners • Thermal overload protection • High heat operation (300 °F) • Rated for restaurant and general ventilation applications • Grease classification tested • UL705 and UL762



All dimensions nominal and in inches.
Rated for **restaurant** and **general ventilation** applications.
Curb for restaurant applications to be 20" high and vented.
Do **not** use backdraft damper or birdscreen on kitchen applications.

RESTAURANT RENOVATION

Address: 190 Spruce Ln
Gatlinburg , Tennessee

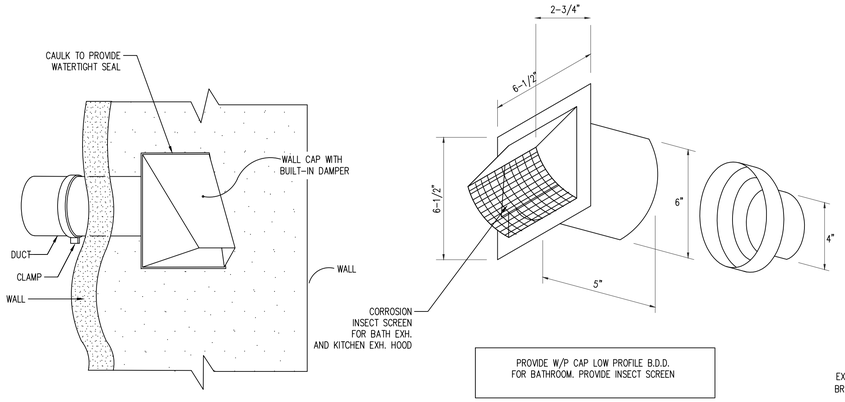
PROJECT NO.
02222
DATE
09/16/2022
REVISIONS

TAYLOR HEIM REGISTERED ARCHITECT No. 10160 STATE OF TENNESSEE
04-19-23

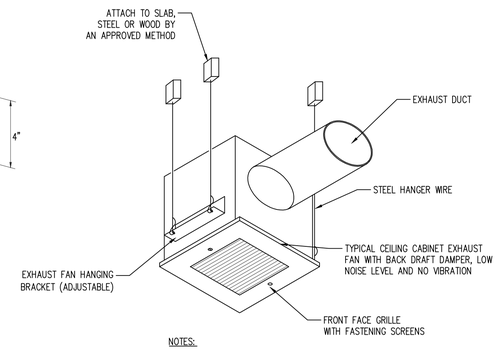
SHEET NO

M-4.0

ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR IS TO PROVIDE ALL MATERIALS AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS INDICATED ON THE DRAWINGS AS SPECIFIED AND AS REQUIRED BY ALL APPLICABLE CODES, ORDINANCES, AND AHJ.

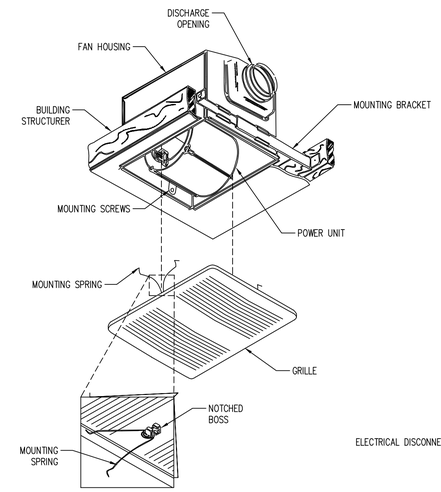


WALL CAP DETAIL
N.T.S.

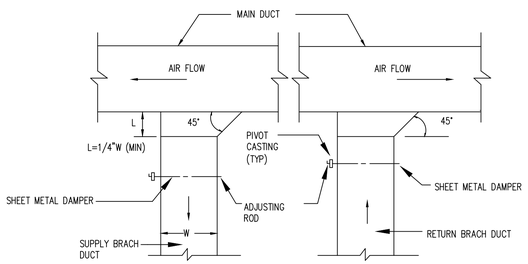


NOTES:

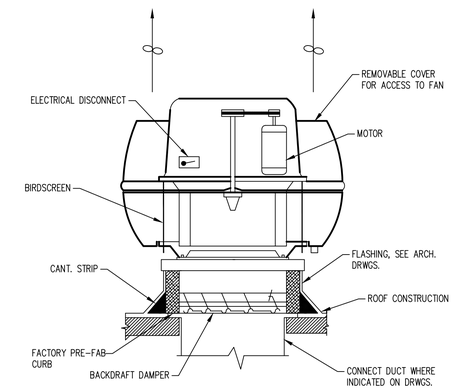
1. PROVIDE BACKDRAFT DAMPER W/ BIRDSCREEN
2. FLASH & SEAL WALL AND ROOF CAP
3. PROVIDE INTERNAL ISOLATION AND SOUND INSULATION
4. SUPPORT FAN FROM STRUCTURE



CEILING MOUNTED EXHAUST FAN DETAIL
N.T.S.

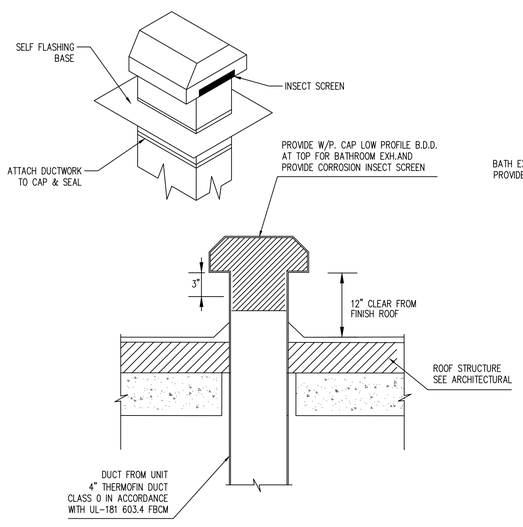


DUCT BRANCH TAKE OFF DETAIL FOR LOW PRESSURE DUCTWORK
N.T.S.

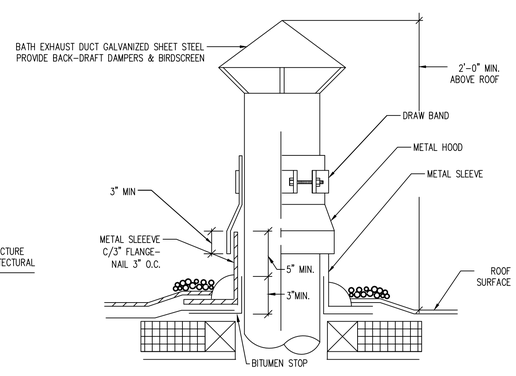


NOTE: ALL ROOF MOUNTED EQUIPMENT MUST ADHERE TO CURRENT HURRICANE CODES REGARDING ROOF TIE-IN AND WIND RESISTANCE.

ROOF UPBLAST EXHAUST FAN
No Scale

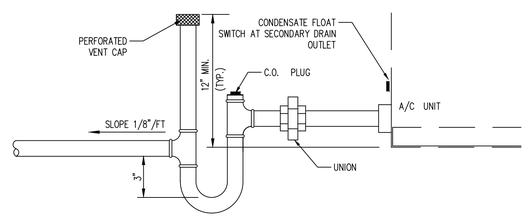


ROOF CAP DETAIL
N.T.S.

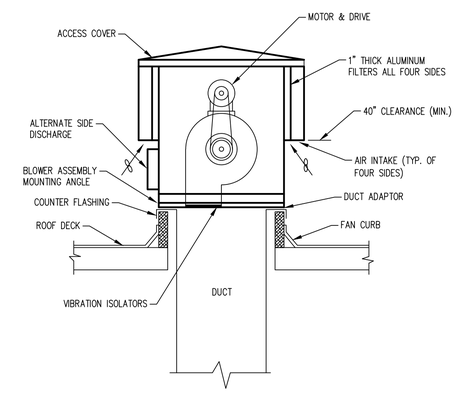


NOTE:
ROOF CAP ANCHORAGE AND DUCT GAUGE SHALL BE CAPABLE OF SUSTAINING WIND LOAD AS REQUIRED BY FBC.

ROOFCAP EXHAUST DETAIL
N.T.S.



CONDENSATE DRAIN & TRAP DETAIL
N.T.S.



NOTE: ALL ROOF MOUNTED EQUIPMENT MUST ADHERE TO CURRENT HURRICANE CODES REGARDING ROOF TIE-IN AND WIND RESISTANCE.

ROOFTOP SUPPLY FAN
No Scale

RESTAURANT RENOVATION

Address: 190 Spruce Ln
Gatlinburg, Tennessee

PROJECT NO.
02222
DATE
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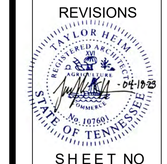
REVISIONS



SHEET NO

M-5.0

PLUMBING SYMBOL LEGEND

CD	– CONDENSATE DRAIN
CO	– CLEANOUT
CONT	– CONTINUATION
CW	– DOMESTIC COLD WATER
DN	– DOWN
EXIST	– EXISTING
HW	– DOMESTIC HOT WATER
IE	– INVERT ELEVATION
RPBP	– REDUCED PRESSURE BACKFLOW PREVENTER
SAN	– SANITARY
SF	– SQUARE FEET
ST	– STORM
STO	– OVERFLOW STORM DRAIN
VTR	– VENT THRU ROOF
IM	– ICE MAKER
SH	– SHOWER
BT	– BATHTUB
LAV	– LAVATORY
WC	– WATER CLOSET
S	– SINK
KS	– KITCHEN SINK
IWH	– INSTANTANEOUS WATER HEATER
WMB	– WASH MACHINE BOX
EWH	– ELECTRIC WATER HEATER TANK TYPE

CD	– ABOVE GROUND CONDENSATE DRAIN
CD	– BELOW GROUND CONDENSATE DRAIN
	– DOMESTIC COLD WATER
	– DOMESTIC HOT WATER
	– DOMESTIC HOT WATER RECIRCULATING
S	– SANITARY DRAIN
	– SANITARY VENT
ST	– ABOVE GROUND STORM
ST	– BELOW GROUND STORM
STO	– OVERFLOW STORM DRAIN
STO	– BELOW GROUND OVERFLOW STORM
HB	– HOSE BIBB OR WALL HYDRANT
WCO	– CLEAN OUT PLUG
CO	– FLOOR CLEAN OUT
FD FD	– FLOOR DRAIN
	– ROOF DRAIN
FS	– FLOOR SINK
	– CONNECT TO EXISTING
	– GATE VALVE
	– BALL VALVE
	– CHECK VALVE(SWING)
	– REDUCED PRESSURE BACKFLOW PREVENTOR
	– RELIEF OR SAFETY VALVE
	– DIRECTION OF FLOW
	– ELBOW, TURNED DOWN
	– ELBOW, TURNED UP
	– PRESSURE REDUCING VALVE

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

TABLE 308.5 HANGER SPACING		
PIPING MATERIAL	MAXIMUM HORIZONTAL SPACING (feet)	MAXIMUM VERTICAL SPACING (feet)
ABS pipe	4	10b
Aluminum tubing	10	15
Brass pipe	10	10
Cast-iron pipe	5a	15
Copper or copper-alloy pipe	12	10
Copper or copper-alloy tubing, 1¼-inch diameter and smaller	6	10
Copper or copper-alloy tubing, 1½-inch diameter and larger	10	10
Cross-linked polyethylene (PEX) pipe	2.67 (32 inches)	10b
Cross-linked polyethylene/ aluminum/cross-linked polyethylene (PEX-AL-PEX) pipe	2.67 (32 inches)	4
CPVC pipe or tubing, 1 inch and smaller	3	10b
CPVC pipe or tubing, 1¼ inches and larger	4	10b
Steel pipe	12	15
Lead pipe	Continuous	4
Polyethylene/aluminum/ polyethylene (PE-AL-PE) pipe	2.67 (32 inches)	4
Polyethylene of raised temperature (PE-RT) pipe	2.67 (32 inches)	10b
Polypropylene (PP) pipe or tubing 1 inch and smaller	2.67 (32 inches)	10b
Polypropylene (PP) pipe or tubing, 1¼ inches and larger	4	10b
PVC pipe	4	10b
Stainless steel drainage systems	10	10b
For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.		
a. The maximum horizontal spacing of cast-iron pipe hangers shall be increased to 10 feet where 10-foot lengths of pipe are installed.		
b. Mdstory guide for sizes 2 inches and smaller.		

PLUMBING SPECIFICATIONS

1.00 – GENERAL PROVISIONS

1.1 PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE AND PROPERLY OPERATING PLUMBING SYSTEM.

1.2 CODES AND STANDARDS: ALL PLUMBING WORK SHALL BE IN STRICT COMPLIANCE WITH THE STANDARD PLUMBING CODE AND ALL LOCAL CODES HAVING JURISDICTION.

1.3 ALL PLUMBING WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.

1.4 CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEES, ETC., REQUIRED FOR THE EXECUTION OF THIS WORK.

1.5 CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE FABRICATION OR INSTALLATION. OFFSETS AND/OR TRANSITIONS REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL COST. CONTRACTOR SHALL COORDINATE AND INSTALL HIS WORK IN A TIMELY MANNER TO PREVENT DELAYS IN THE CONSTRUCTION.

1.6 CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE DAMAGED EQUIPMENT AND/OR MATERIAL.

1.7 PROVIDE ALL MATERIALS REQUIRED TO PROPERLY SUPPORT ALL PIPING AND EQUIPMENT. PIPE HANGERS SHALL BE ADJUSTABLE TYPE AND BE SPACED IN ACCORDANCE WITH THE STANDARD PLUMBING CODE. PROVIDED PLASTIC COATED RING ON HANGERS FOR COPPER PIPING TO PROVIDE DIELECTRIC ISOLATION.

1.8 PROVIDE DIELECTRIC UNIONS OR FLANGES BETWEEN COPPER AND STEEL PIPING AND BETWEEN BRASSWARE AND STEEL. DO NOT USE STEEL AND COPPER PIPING IN THE SAME SYSTEM WITHOUT SUCH ISOLATION.

1.9 PROVIDE REDUCING FITTINGS (REDUCING BUSHINGS SHALL NOT BE USED) WHERE CHANGES IN PIPE SIZES OCCUR.

1.10 THIS CONTRACTOR SHALL SUPPLY AND INSTALL ALL SERVICES THROUGHOUT THE BUILDING AND MAKE CONNECTION TO SITE UTILITIES APPROXIMATELY 5'–0" OUTSIDE THE BUILDING. CONTRACTOR SHALL SUPPLY AND INSTALL FIXTURES, FITTINGS, VALVING AND TRIM AND MAKE READY FOR USE ALL FIXTURES, EQUIPMENT, ETC.

1.11 SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.

2.00 – BASIC MATERIALS AND METHODS

2.1 ABOVEGROUND WATER PIPE AND FITTINGS – TYPE "L" COPPER.

2.2 PROVIDE UNIONS OR FLANGES IN ALL DOMESTIC WATER SERVICE LINES AT EACH PIECE OF EQUIPMENT, SPECIALTY VALVES OR AT OTHER LOCATIONS REQUIRED FOR READY DISCONNECT.

2.3 WATER HAMMER ARRESTORS SHALL BE INSTALLED AT THE LOCATIONS ON THE PLANS AND IN ACCORDANCE WITH PDI STANDARD WH–201. PRODUCTS SHALL BE EQUAL TO THOSE MANUFACTURED BY PRECISION PLUMBING PRODUCTS OR SIOUX CHIEF.

2.4 VALVES: PROVIDE VALVES TO ISOLATE EACH RISER, BRANCH LINE AND PIECE OF EQUIPMENT.

2.5 PROVIDE PRESSURE REDUCING VALVE AND AIR GAP CONNECTION AT DISHWASHER AS REQUIRED BY CODE AND ACCORDING TO MANUFACTURER.

2.6 PROVIDE INLINE WATER FILTER AT COFFEE MAKER AND ICE MAKER TO REMOVE MATERIALS, TASTE AND ODOR – "EVERPURE OR "SYSTEMS IV".

2.7 ABOVEGROUND SANITARY, WASTE, SANITARY VENT AND STORM PIPING – PVC (DWV) SOLID WALL SHALL BE PERMITTED TO BE USED. PVC (DWV) SHALL NOT BE USED IN RETURN AIR PLENUMS.

2.8 BELOWGROUND SANITARY, WASTE AND VENT – PVC (DWV) SOLID WALL SHALL BE PERMITTED TO BE USED. PVC SHALL NOT BE USED FOR DRAINAGE IN HIGH TEMPERATURE DISCHARGE AREAS SUCH AS KITCHENS AND BOILER ROOMS.

2.9 INSTALL GRAVITY LINES SLOPED AT 1/8" PER FOOT FOR PIPE 3" AND LARGER AND 1/4" PER FOOT FOR PIPE SMALLER THAT 3". VERIFY INVERT ELEVATION WITH SITE PIPING PRIOR TO ANY PIPE BEING INSTALLED.

3.00 – PLUMBING FIXTURES AND TRIM

3.1 ALL PLUMBING FIXTURES SHALL BE "FIRST QUALITY" AS DEFINED AND SET FORTH IN COMMERCIAL STANDARD CS77–28 AS PROMULGATED BY THE U.S. DEPARTMENT OF COMMERCE.

3.2 ALL FIXTURES ARE TO BE WHITE VITREOUS CHINA UNLESS OTHERWISE SPECIFICALLY NOTED.

3.3 FIXTURES AND FITTINGS PROPOSED SHALL BE FROM ONE MANUFACTURER AND OF SIMILAR CHARACTER IN ANY ROOM OR LOCATION. ESCUTCHEONS, HANDLES, ETC., ON THE DIFFERENT FIXTURES SHALL BE OF THE SAME DESIGN.

3.4 PROVIDE FIXTURE CARRIERS AS RECOMMENDED BY FIXTURE MANUFACTURER AND/OR CONSTRUCTION METHOD.

3.5 PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE NON–ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

3.6 FLOOR DRAIN TRAP SEALS SHALL HAVE AN APPROVED AUTOMATIC PRIMING DEVICE DESIGNED FOR THAT PURPOSE.

3.7 ALL CONCEALED TRAPS, PRIMERS, VALVES, CLEANOUTS, ETC. LOCATED IN TILED AREAS SHALL BE PROVIDED WITH AN ACCESS PANEL.

4.00 – INSULATION

4.1 ABOVE GROUND HOT WATER – FIBERGLASS, 1" THICKNESS, ASJ JACKET, DOUBLE SEALING LAP JOINT, 0.24 K AT 75°F. INSULATION AND ADHESIVES INSTALLED IN RETURN AIR PLENUMS SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.

4.2 ABOVEGROUND CONDENSATE PIPING SHALL BE 1/2" FLEXIBLE UNICELLULAR POLYOLEFIN FOAM AND SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50 – IMCOA "IMCOLOCK"

5.00 – VALVES AND COCKS

5.1 VALVES 2" AND SMALLER SHALL BE BALL VALVES, 150 PSI SWP, 400 PSI WOG. STANDARD PORT BALL, BRONZE TRIM, CAST BRONZE BODY, CHROMIUM–PLATED BRASS BALL, BRONZE NON–BLOWOUT STEM, TEFLON SEAT, DOUBLE O–RING STEM SEALS, ZINC–COATED STEEL HANDLE WITH PLASTIC COATED HAND GRIP, 90 DEGREE OPERATION FROM FULL OPEN TO TIGHT SHUT–OFF – STOCKHAM S214–BR–T–T, STOCKHAM S216–BR–T–S OR EQUAL.

5.2 CHECK VALVES, ROUGH BRASS, REGRINDING BRONZE DISC – STOCKHAM B–345; B–309 OR EQUAL.

6.00 – STERILIZATION

6.1 DOMESTIC WATER PIPING SHALL BE THOROUGHLY FLUSHED OUT AND STERILIZED IN ACCORDANCE WITH THE STANDARD PLUMBING CODE.

PLUMBING GENERAL NOTES

1. READ THE SPECIFICATIONS.
2. UTILITIES AND SERVICES INDICATED ARE TAKEN FROM VARIOUS OLD AND NEW SURVEYS, AS–BUILT RECORDS AND FIELD INVESTIGATIONS. UNFORSEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND BURIAL DEPTHS, AS DETERMINED DURING CONSTRUCTION WILL BE NECESSARY.
3. FIELD VERIFY EXISTING INSTALLATIONS. MODIFY EXISTING PLUMBING SYSTEMS, WHICH ARE TO REMAIN ACTIVE, TO FACILITATE RECONNECTION AND EXTENSION OF THE NEW WORK.
4. NOTIFY OWNER AT LEAST 24 HOURS PRIOR TO INTERRUPTING EXISTING SERVICE. SCHEDULE DISCONNECTION AND TIE–INS TO MINIMIZE DISRUPTION OF SERVICES. SERVICES ARE NOT TO BE LEFT DISRUPTED DURING NON–NORMAL CONTRACTOR WORKING HOURS.
5. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING AND ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
6. PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.
7. CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED. PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON–ACCESSABLE CEILINGS.
8. SLEEVE AND FIRE STOP PENETRATIONS OF RATED WALLS, FLOORS, CEILINGS AND ROOFS. FLASH AND COUNTERFLASH ROOF PENETRATIONS.
9. WHEN BEAM SLEEVE PENETRATIONS ARE NECESSARY, COORDINATE PENETRATIONS WITH ALL TRADES, THE ARCHITECT AND THE STRUCTURAL ENGINEER.
10. PROVIDE FOUNDATION PAD PENETRATION SLEEVES. ALLOW 1" MINIMUM CLEARANCE BETWEEN SLEEVE INSIDE SURFACE AND PIPE EXTERIOR.
11. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
12. PROVIDE AUTOMATIC TRAP PRIMERS FOR FLOOR DRAIN TRAP SEALS.
13. PROVIDE, WHEN REQUIRED BY CODE, AN AIR GAP SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.
14. ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREAS SHALL BE CHROME PLATED.
15. MOUNT HOSE BIBBS 24" ABOVE FINISH GRADE.
16. PROVIDE CLEANOUTS IN ACCORDANCE WITH APPROPRIATE CODES AND REGULATIONS.
17. COORDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BELOW FINISH FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN.
18. PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.
19. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT(PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE REROUTED AT NO ADDITIONAL COST.
20. PVC (DWV) PIPE SHALL NOT BE PERMITTED IN AREAS OF HIGH WASTE TEMPERATURE WATER, SUCH AS KITCHENS AND BOILER ROOMS.

ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR IS TO PROVIDE ALL MATERIALS AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS INDICATED ON THE DRAWINGS AS SPECIFIED AND AS REQUIRED BY ALL APPLICABLE CODES, ORDINANCES, AND AHJ.

PLUMBING SPECIFIC NOTES:

1. BATHROOM WALL AND FLOOR SHALL HAVE A SMOOTH, HARD, NON–ADSORBENT SURFACE PER SECTION 1210.1 OF IPC 2012
2. ALL STEEL STUDS SUPPORTING ALL WALL HUNG PLUMBING FIXTURES SHALL BE DOUBLE OR NO LESS THAN 20 GAUGE PER SECTION 2517.5..1.1 OF IPC 2012
3. PROVIDE WATER HAMMER ARRESTORS IN ALL QUICK CLOSING VALVES.
4. PROVIDE FIXTURE COMPLIANCE WITH REFERENCE STANDARDS PER FBC PLUMBING SECTION 406 TO 421
5. ALL PLUMBING FIXTURES SHALL COMPLY WITH MIAMI DADE COUNTY ORDINANCE #08–14 FOR PLUMBING FIXTURES MAXIMUM FLOW RATE AND CONSUMPTION.
6. DOMESTIC WATER SHALL USE COPPER PIPE TYPE L. SANITARY AND WASTE SHALL USE SOLID DWV PVC.

PLUMBING FIXTURE CONNECTION SCHEDULE

NO.	DESCRIPTION	WASTE	VENT	WATER COLD	WATER HOT	REMARKS
WC	WATER CLOSET	3"	2"	1/2"	--	TYPE TANK, 1.28 GPF, FLOOR MOUNTED.
LAV	LAVATORY	1 1/4"	2"	1/2"	1/2"	AS SELECTED BY OWNER. PROVIDE 0.5 GPM FAUCET [1]
HS	KITCHEN HAND SINK	1–1/2"	2"	1/2"	1/2"	AS SELECTED BY OWNER. PROVIDE 1.0 GPM FAUCET [1]

[1] PROVIDE ANTI–SCALD VALVE THERMOSTATIC MIXING VALVE

NOTES:
1.– All exposed trim, such as P–traps, angle stops, and supplies shall be chrome plated.
2.– All fixtures shall comply with Reference Standards as per IPC 2012 Plumbing 406 through 421.
3.– All Plumbing Fixtures to be specified by Architect. Please see Architectural Drawing for further information.

SLOPE OF HORIZONTAL DRAINAGE PIPE:

PIPE SIZES OF 2½" OR LESS SHALL BE RUN AT A SLOPE OF 1/4" PER FOOT
PIPE SIZES OF 3" TO 6" SHALL BE RUN AT A SLOPE OF 1/8" PER FOOT
PIPE SIZES OF 8 OR LARGER SHALL BE RUN AT A SLOPE OF 1/16" PER FOOT

PLUMBING FIXTURES CLEARANCES

–A WATER CLOSET, URINAL, LAVATORY OR BIDET SHALL NOT BE SET CLOSER THAN 15" FROM ITS CENTER TO ANY SIDE WALL, PARTITION, VANITY OR OTHER OBSTRUCTION, OR CLOSER THAN 30" CENTER TO CENTER BETWEEN ADJACENT FIXTURES. THERE SHALL BE AT LEAST A 21" CLEARANCE IN FRONT OF THE WATER CLOSET, URINAL, LAVATORY OR BIDET TO ANY WALL, FIXTURE OR DOOR. WATER CLOSET COMPARTMENTS SHALL NOT BE LESS THAN 30" WIDE AND 60: DEEP.

NOTE:

1.–VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THIS BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUE AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES WILL NOT BE RECOGNIZED. PLANS SHOW A GENERAL DESCRIPTION OF THE ENGINEER INTENTION AS TO THE SCOPE OF WORK, CONTRACTOR SHALL VISIT THE JOB SITE TO FAMILIARIZE WITH THE PLACE AND BRING TO THE ARCHITECT/ENGINEER ANY DISCREPANCIES WITH CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH SUBMITTALS OF ALL EQUIPMENT AND MATERIALS INTENDED TO USE TO COMPLETE THE WORK.

PLUMBING DRAWING INDEX

SHEET	DESCRIPTION	ISSUED
P–0.0	PLUMBING LEGEND, NOTES & SCHEDULES	YES
P–1.0	PLUMBING SITE PLAN	YES
P–2.0	PLUMBING FLOOR PLAN	YES
P–3.0	PLUMBING DETAILS	YES

GAS WATER HEATER TANKLESS WITH CIRCULATION PUMP SCHEDULE (EACH)

MARK	QUANTITY	LOCATION	GAS CONNECTION	GAS CONSUMPTION	GPM AT 45°F TEMP RISE	ENERGY FACTOR	MANUFACTURER/ MODEL NUMBER	PUMP VOLTAGE/HP	DIMENSIONS HxWxD (INCH)
GWH-1	2	EXTERIOR	3/4"	199.000 BTU/H	8.5	0.95	WESTINGHOUSE WGRGH 199 O	120V-1PH-60Hz 100W	36.8" x 17.6" x 16.7". 120 LBS WEIGHT

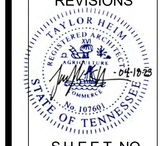
RESTAURANT RENOVATION

Address: 190 Spruce Ln Gatlinburg , Tennessee

PROJECT NO. 02222

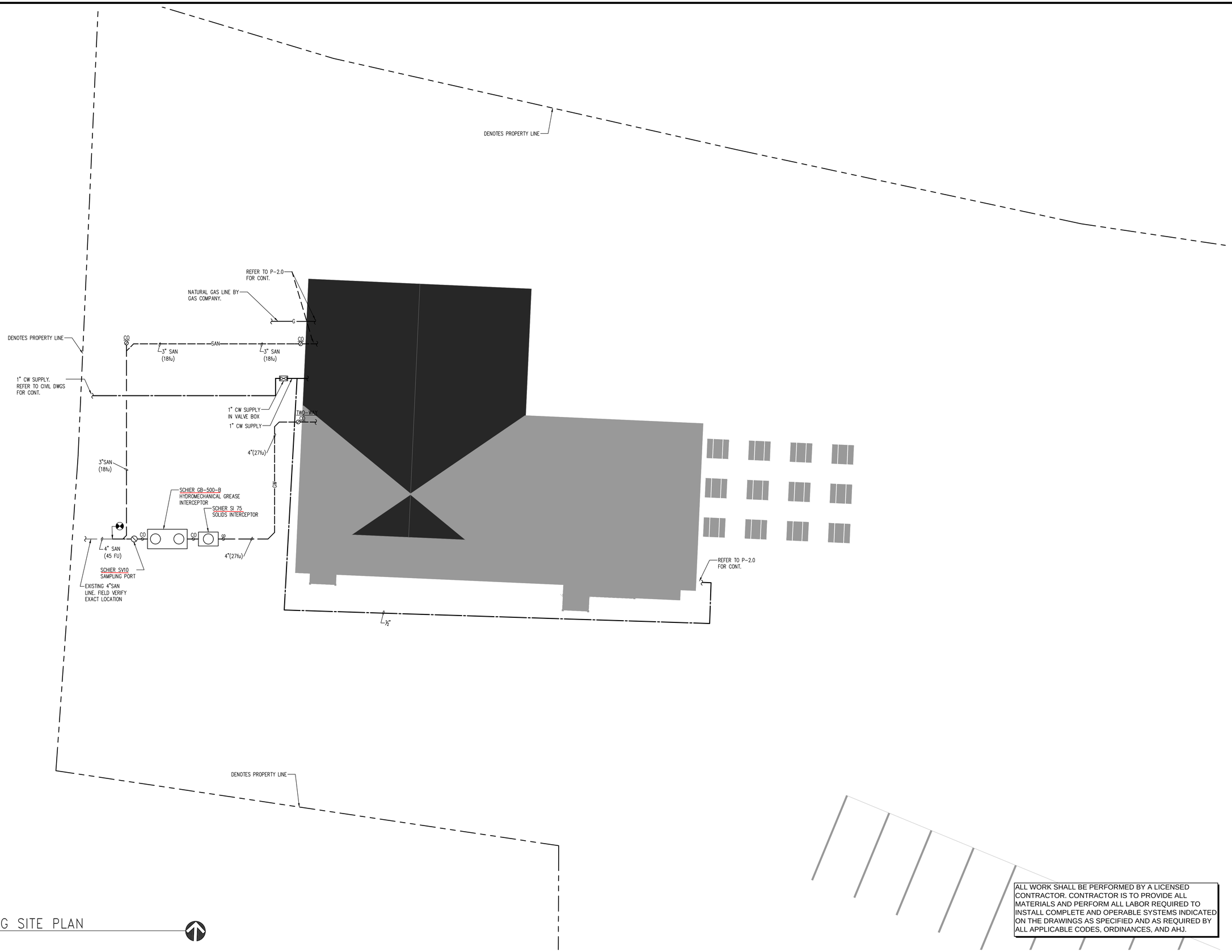
DATE 09/16/2022

REVISIONS



SHEET NO

P-0.0



PLUMBING SITE PLAN

1/8" = 1'-0"

ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR IS TO PROVIDE ALL MATERIALS AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS INDICATED ON THE DRAWINGS AS SPECIFIED AND AS REQUIRED BY ALL APPLICABLE CODES, ORDINANCES, AND AHJ.

RESTAURANT RENOVATION

Address: 190 Spruce Ln
Gatlinburg , Tennessee

PROJECT NO.
02222
DATE
09/16/2022
REVISIONS

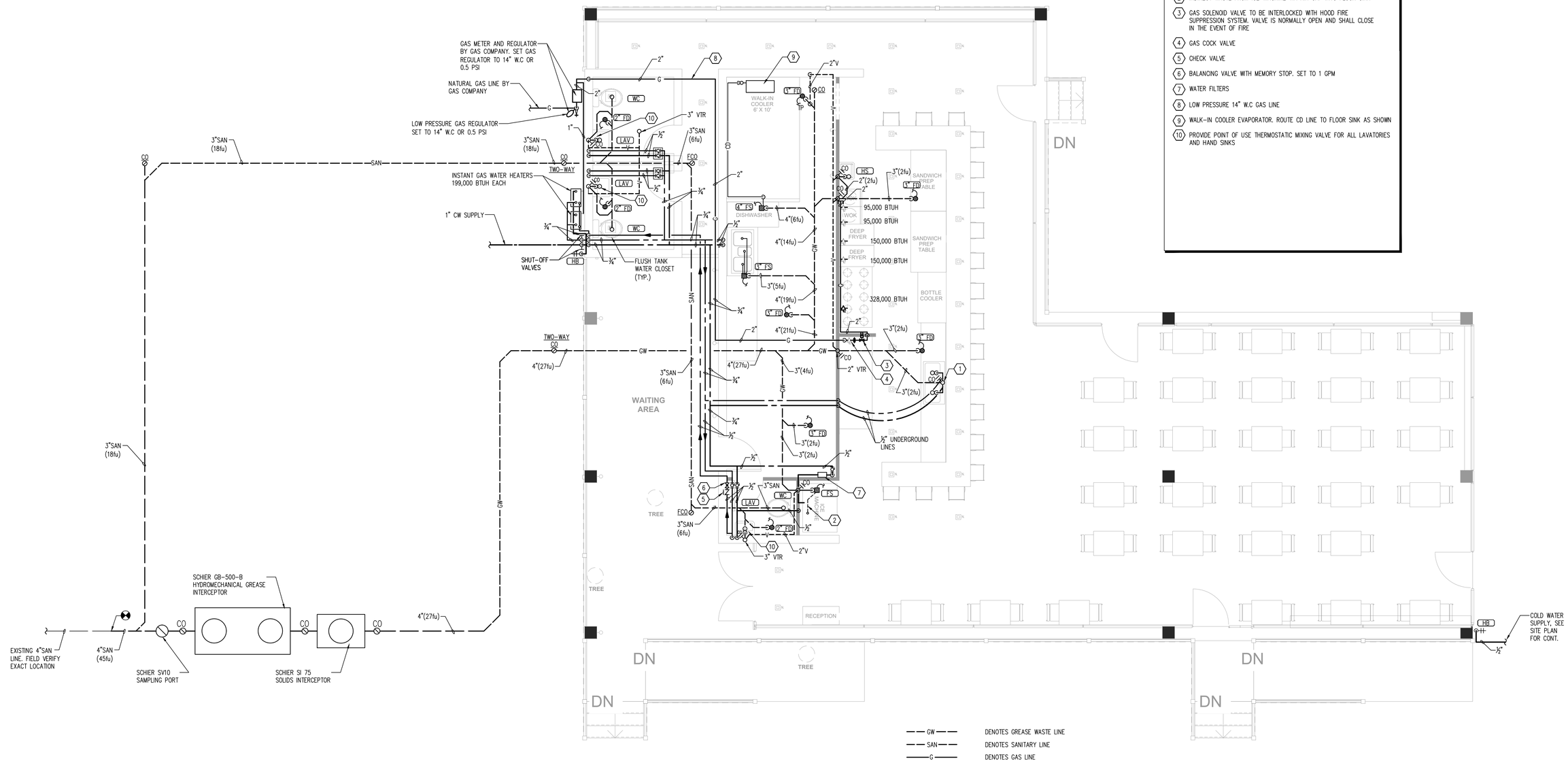
TAYLOR HELM
REGISTERED ARCHITECT
No. 10760
STATE OF TENNESSEE
04-19-23

SHEET NO

P-1.0

DRAWING NOTES:

1. PROVIDE 2" AIR ADMITTANCE VALVE
2. INDIRECT WASTE FROM ICE-MACHINE VIA AIR GAP INTO FLOOR SINK
3. GAS SOLENOID VALVE TO BE INTERLOCKED WITH HOOD FIRE SUPPRESSION SYSTEM. VALVE IS NORMALLY OPEN AND SHALL CLOSE IN THE EVENT OF FIRE
4. GAS COCK VALVE
5. CHECK VALVE
6. BALANCING VALVE WITH MEMORY STOP. SET TO 1 GPM
7. WATER FILTERS
8. LOW PRESSURE 14" W.C GAS LINE
9. WALK-IN COOLER EVAPORATOR. ROUTE CD LINE TO FLOOR SINK AS SHOWN
10. PROVIDE POINT OF USE THERMOSTATIC MIXING VALVE FOR ALL LAVATORIES AND HAND SINKS



PLUMBING FLOOR PLAN PROPOSED

1/4" = 1'-0"

ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR IS TO PROVIDE ALL MATERIALS AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS INDICATED ON THE DRAWINGS AS SPECIFIED AND AS REQUIRED BY ALL APPLICABLE CODES, ORDINANCES, AND AHJ.

RESTAURANT RENOVATION

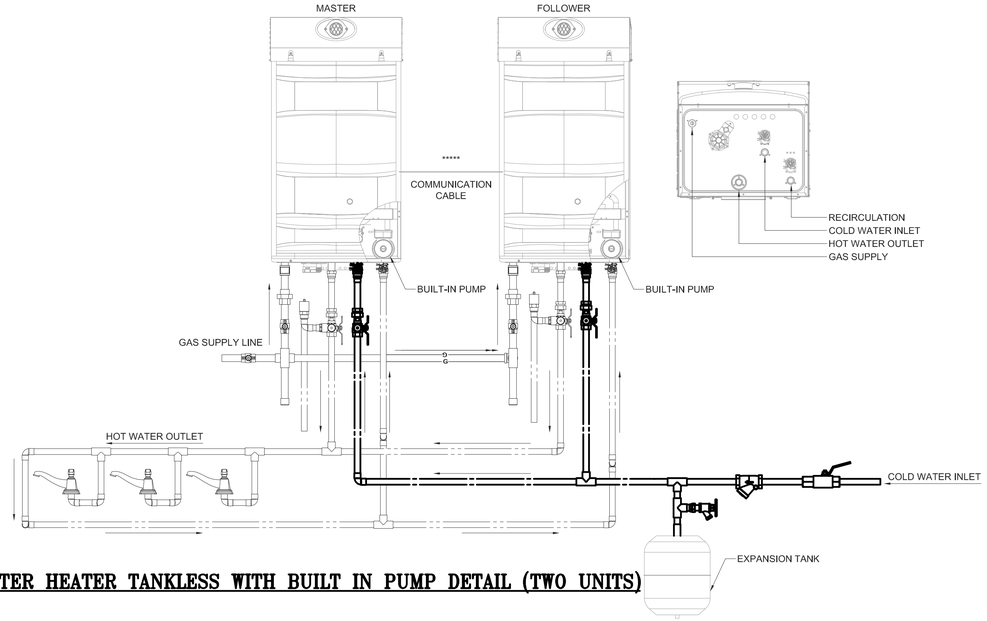
Address: 190 Spruce Ln
Gatlinburg , Tennessee

PROJECT NO.
02222
DATE
09/16/2022
REVISIONS

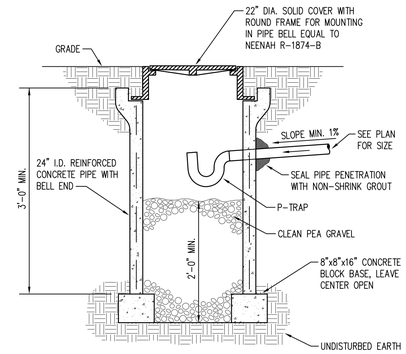
TAYLOR HELM REGISTERED ARCHITECT STATE OF TENNESSEE No. 101991 - 04-19-23

SHEET NO

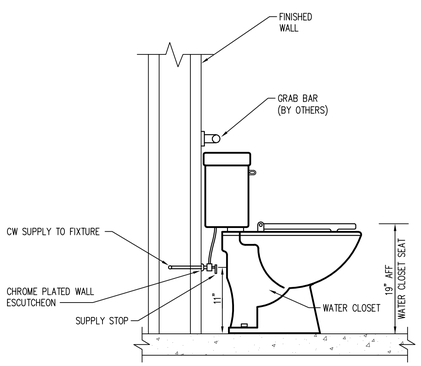
P-2.0



OUTDOOR GAS WATER HEATER TANKLESS WITH BUILT IN PUMP DETAIL (TWO UNITS)
N.T.S.

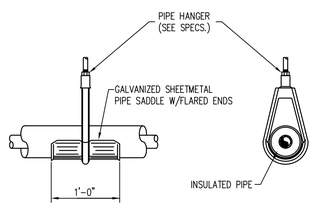


DRY WELL
No Scale
1

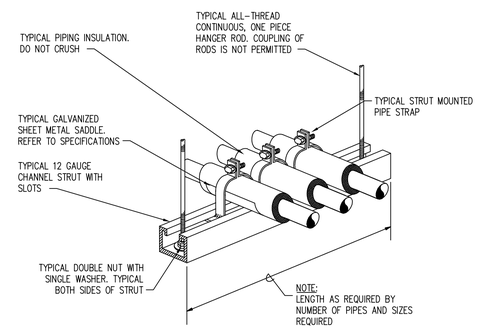


THE HANDLE OF THE FLUSH LEVER SHALL FACE THE WIDE SIDE OF THE STALL (NO EXCEPTIONS).

WATER CLOSET
No Scale
2



INSULATED PIPE HANGER
No Scale
3



NOTE:
1. REFER TO SPECIFICATIONS AND FLOOR PLANS FOR MATERIAL AND SIZES
2. SPECIFIED HANGER ROD, STRUT, NUTS, WASHER, AND PIPE STRAPS SHALL BE OF GALVANIZED PLATED MATERIALS

TRAPEZE HANGER
No Scale
4

ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR IS TO PROVIDE ALL MATERIALS AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS INDICATED ON THE DRAWINGS AS SPECIFIED AND AS REQUIRED BY ALL APPLICABLE CODES, ORDINANCES, AND AHJ.

RESTAURANT RENOVATION

Address: 190 Spruce Ln
Gatlinburg , Tennessee

PROJECT NO.
02222
DATE
09/16/2022
REVISIONS

TAYLOR HEIM REGISTERED ARCHITECT No. 107601 STATE OF TENNESSEE
04-18-23

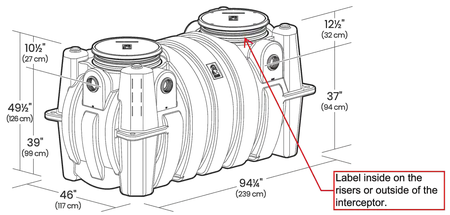
SHEET NO

P-3.0

SPECIFICATION AND SUBMITTAL

GB-500-B
100 GPM 99% Efficient Grease Interceptor for Indoor/Outdoor Installation

Actual Size



This unit is certified to ASME A112.14.3 (Type D) and CSA B4811. This unit does not require flow control.

Satisfies Miami DERM 99% efficiency requirements. Product labels are permanently attached to inside and outside of unit for easy viewing.

SUBMITTAL

Standard

Location: indoor/outdoor
Installation: above/below grade
Flow Rate / Certified Grease Capacity: 100 GPM (6.3 L/s) / 2,948 lbs.
Removal Efficiency at the Rated Capacity: 98.9%
99% Efficiency Rating: 2,817 lbs. certified grease capacity @ 99.2% efficiency
Solids Capacity: 102 gal.
Liquid Capacity: 510 gal.
Weight: 568 lbs.
Connections: 4" (100 mm) FPT / plain end triple-inlet/triple-outlet
Cover: gas/water tight pickable cast iron with H20 lb. load rating

Options

- ☐ 6" plain end inlet/outlet (straight-through)
- ☐ 6" plain end inlet/outlet (straight-through) with dual pumpout port connections
- ☐ 6" plain end inlet/outlet (triple outlet)
- ☐ 6" MPT inlet/outlet (stainless steel, straight-through)
- ☐ **-FO** (fixed outlet)
- ☐ **C24H2:** Highway rated bolted composite covers - 16,000 lbs.
  CC2: integral membrane
- ☐ clamping collar kit
- ☐ **AGS2:** Above Grade Support
- ☐ **AK2:** High Water Anchor Kit
- ☐ **PP3:** Pumpout Port

Field Cut Risers
- ☐ **FCR2** (x2) >4" – 34"
- ☐ **FCR2** (x4) >34" – 64"
- ☐ **FCR2** (x6) >64" – 94"

Approval

Signature:	Date:	Company:
Specifying Engineer:	Engineering Firm:	

SCHIER LIFETIME GUARANTEED GREASE INTERCEPTORS

MODEL NUMBER:	DESCRIPTION:
GB-500-B	100 GPM Polyethylene Grease Interceptor

PART #: 4075-005-01	DWG BY: B. Karrer	DATE: 7/9/2019	REV:	ECO:

9500 Woodend Road | Edwardsville, KS 66111 | Tel: 913-951-3300 | www.schierproducts.com

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TEST REPORT

IAPMO R&T LAB

5001 East Philadelphia Street
Ontario, California– USA 91761-2816
Ph: 909.472.4100 | Fax: 909.472.4243
http://www.iapmort.org

Report Number: **1757-19023** **Project Number: 31448**

Report Issued: May 20th, 2019

Client: Schier Products
9500 Woodend Rd.
Edwardsville, KS 66111 **Contact:** Charlie Ismert

Source of Samples: Samples were manufactured at the client's facility in Edwardsville, KS. The sample was witnessed tested by Dale E. Holloway of IAPMO R&T Lab. Samples are manufactured in good condition.

Date of Testing: May 13th, 2019 through May 17th, 2019

Sample Description: HDPE Grease Interceptor.

Model: **GB-500-B (100 gpm)**

Refer to the manufacturer's drawings and installation instructions for more detailed measurements and information.

Scope of Testing: The above grease interceptor was witnessed tested to meet the requirements of ASME A112.14.3-2018 "Hydromechanical Grease Interceptors", and CSA B481.0 and B481.1-12 "Grease Interceptors".

Conclusion: **The GB-500-B (100 gpm) Grease Interceptor DID COMPLY with the requirements of ASME A112.14.3-2018 "Hydromechanical Grease Interceptors" and CSA B481.0 and B481.1-12 "Grease Interceptors".**

By the signature below, I certify that all the testing and preparation for this report was performed under direct supervision of IAPMO R&T Lab, unless otherwise stated.

Witness tested and reported by,

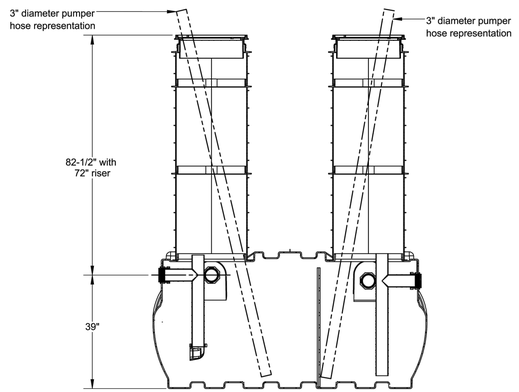
Dale E. Holloway, Regional Technical Manager
IAPMO R&T Lab

All testing and sample preparation for this report was performed under the continuous, direct supervision of IAPMO R&T Lab, unless otherwise stated. The observations, test results and conclusions in this report apply only to the specific samples tested and are not indicative of the quality or performance of similar or identical products. Only the Client shown above is authorized to copy or distribute the report, and then only in its entirety. Any use of the IAPMO R&T Lab name for the sale or advertisement of the tested material, product or service must first be approved in writing by IAPMO R&T Lab.

"GB-500-B" (100 gpm) Grease Interceptor					INCREMENTAL				ACCUMULATED			
Test No.	Grease Sink	Water Sink	Drop Time (sec)	Flow Rate (GPM)	Lbs added	Lbs skimmed	Lbs retained	Efficiency (%)	Lbs added	Lbs skimmed	Lbs retained	Efficiency (%)
142	2	1	111	102.7	20	0.52	19.48	97.4	2840	22.22	2817.78	99.2
143	1	2	109	104.6	20	0.64	19.36	96.8	2860	22.86	2837.14	99.2
144	2	1	109	104.6	20	0.58	19.42	97.1	2880	23.44	2856.56	99.2
145	1	2	109	104.6	20	0.86	19.14	95.7	2900	24.30	2875.70	99.2
146	2	1	109	104.6	20	1.43	18.57	92.9	2920	25.73	2894.27	99.1
147	1	2	111	103.6	20	1.54	18.46	92.3	2940	27.27	2912.73	99.1
148	2	1	110	102.7	20	1.74	18.26	91.3	2960	29.01	2930.99	99.0
149	1	2	111	102.7	20	2.91	17.09	85.5	2980	31.92	2948.08	98.9
150	2	1	109	104.6	20	4.62	15.38	76.9	3000	36.54	2963.46	98.7
151	1	2	109	104.6	20	5.46	14.54	72.7	3020	42.00	2978.00	98.6

99% efficiency

Performance Rating



SPECIFICATION SHEET

ASSEMBLY NUMBER:	DESCRIPTION:				
900-0194-01	DETAIL OF GB-500-B WITH 72" EXTENSION TO SHOW PUMPER HAS ACCESS TO ENTIRE TANK			SHEET: 1 OF 1	
DWG BY: TEU	DATE: 11/14/19	REV: -	– Todd.Uhlenhake	ECO:	

PROPRIETARY AND CONFIDENTIAL
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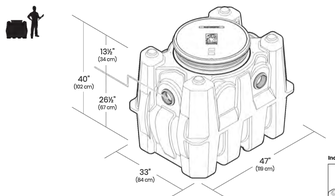
SCHIER PRODUCTS
Re-setting Earth ®, LLC Family
9500 Woodend Road
Edwardsville, KS 66111
Tel: 800-827-7119
Fax: 800-827-9664
www.schierproducts.com

SPECIFICATION AND SUBMITTAL

SI-75
125 Gallon Billy Goat™ Indoor/Outdoor Kitchen Solids Interceptor



Includes Safety Star™

SUBMITTAL

Standard

Location: Indoor/outdoor
Installation: Above/below grade
Solids Capacity: 109 gal. (413 L)
Flow Rate (4"): 125 GPM (7.9 L/s)
Flow Rate (6"): 275 GPM (23.7 L/s)
Liquid Capacity: 125 gal. (473 L)
Weight: 190 lbs. (86 kg)
Connections: 4" FPT with 4" plain end adapters, single inlet and triple outlet
Covers: Cast iron cover, pickable 24" gas/water tight, H-20 rated, proof-load tested to 40,000 lbs.
Access Restriction: Safety Star™ (450 lb. rating) built into cover adapter

Options

- ☐ 6" plain end inlet/outlet (straight-through) with dual pumpout port connections
- ☐ **C24H2:** Composite covers, bolted 24" gas/water tight, traffic load rated for 16,000 lbs.

Accessories

- ☐ **FCR2:** >4" – 34" field cut riser
- ☐ **FCR2 (x2):** >34" – 64" field cut risers
- ☐ **FCR2 (x3):** >64" – 94" field cut risers
- ☐ **CA2:** Adapter for 24" corrugated pipe riser
- ☐ **AK1:** High water anchor kit
- ☐ **CC2:** Integral membrane clamping collar kit
- ☐ **PP3:** Pumpout port
- ☐ **PLAIN-EA-24:** 2" plain end fitting
- ☐ **PLAIN-EA-34:** 3" plain end fitting
- ☐ **FPT-EA-34:** 4" x 3" FPT fitting
- ☐ **FPT-EA-23:** 3" x 2" FPT fitting

Approval

Signature:	Date:	Company:
Specifying Engineer:	Engineering Firm:	

SCHIER

MODEL NUMBER:	DESCRIPTION:
SI-75	125 Gallon Polyethylene Kitchen Solids Interceptor

PART #: 5045-002-01	DWG BY: B. Karrer	DATE: 6/27/2020	REV:	ECO:

9500 Woodend Road | Edwardsville, KS 66111 | 913-951-3300 | schierproducts.com

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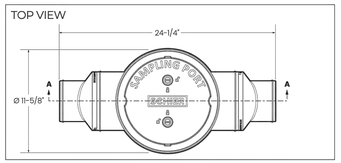
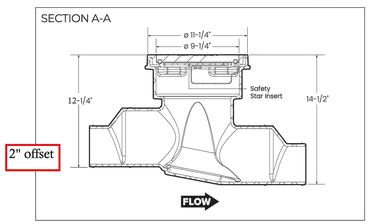
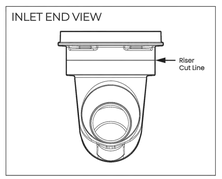
SPECIFICATIONS

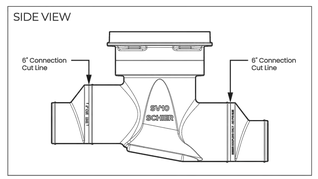
NOTES
1. 4" plain end inlet/outlet (field modifiable to 6" plain end)
2. Unit weight: 9 lbs.;
3. Maximum operating temperature: 150° F continuous
4. Offset connections
5. 2 rolls of 33" x 2" butyl mastic tape provided for sealing build-your-own riser joints.

ENGINEER SPECIFICATION GUIDE
Schier Sewer Viewer™ sampling port model # SV10 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Sampling port shall be furnished for above or below grade installation. Cover shall provide water/ gas-tight seal and have maximum 16,000 lbs. load capacity.









SCHIER

MODEL NUMBER:	DESCRIPTION:
SV10	Polyethylene Wastewater Sampling Port

PART #: 8065-001-01	DWG BY: B. Karrer	DATE: 3/1/2020	REV:	ECO:

9500 Woodend Road | Edwardsville, KS 66111 | 913-951-3300 | schierproducts.com

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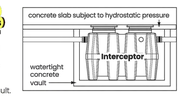
SPECIAL PRECAUTIONS
For Schier Grease Interceptor Installations - Failure to follow this guidance voids your warranty

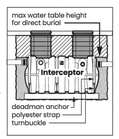
WARNING! DO NOT AIR TEST UNIT OR RISER SYSTEM! Doing so may result in property damage, personal injury or death.

CAUTION! Do not install this unit in any manner except as described in these instructions.

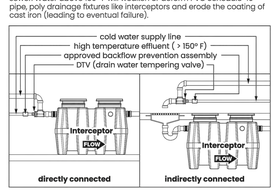
Hydrostatic Slabs (or Pressure Slabs)
When installed under a hydrostatic slab (slab designed to withstand upward lift, usually caused by hydrostatic pressure) interceptor must be enclosed in a watertight concrete vault.



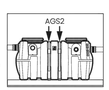
High Water Table Installations
Interceptors and risers are not designed to withstand water table height in excess of the top of the unit when buried (see figure). If it is possible for this to occur, install the interceptor and risers in a water-tight concrete vault or backfill with concrete or flowable fill (wet concrete and flowable backfill should be poured in stages to avoid crushing the interceptor). At risk areas include but are not limited to tidal surge areas, floodplains and areas that receive storm water. Great Basin™ models that are direct buried in high water table scenarios must be installed with an anchor kit. Models GB-50, GB-75, and GB-250 use model AK1 anchor kit. Model GB-500 uses model AK2 anchor kit for use with deadmen anchors.



High Temperature Kitchen Water
If water is entering the interceptor at excessive temperature (over 150° F), a drain water tempering valve (DTV) and approved backflow prevention assembly must be installed. Most state and local plumbing codes prohibit water above 150° F being discharged into the sanitary sewer. Water above 150° F will weaken or deform PVC Schedule 40 pipe, poly drainage fixtures like interceptors and erode the coating of cast iron (leading to eventual failure).



Above Grade Installation Support (for Model GB-500 Only)
The wet weight of the interceptor combined with high temperature kitchen water creates the potential for tank deformation when installed above grade. Model GB-500 installed above grade must be installed with Above Grade Support Kit model AGS2 to maintain structural integrity



DO NOT COMPACT BACKFILL

SCHIER LIFETIME GUARANTEED GREASE INTERCEPTORS

MODEL NUMBER:
GB-500-B

9500 Woodend Road | Edwardsville, KS 66111 | Tel: 913-951-3300 | www.schierproducts.com

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ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR IS TO PROVIDE ALL MATERIALS AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS INDICATED ON THE DRAWINGS AS SPECIFIED AND AS REQUIRED BY ALL APPLICABLE CODES, ORDINANCES, AND AHJ.

RESTAURANT RENOVATION

Address: 190 Spruce Ln
Gallinburg , Tennessee

PROJECT NO.
02222
DATE
09/16/2022
REVISIONS

TAYLOR HEIM REGISTERED ARCHITECT
STATE OF TENNESSEE
No. 107601
04-18-23

SHEET NO

P-4.0