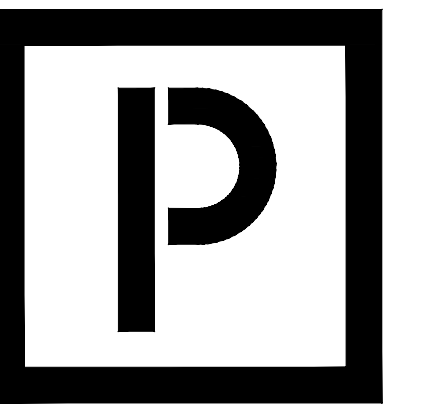


# FAIRWAY POINT GARAGE BUILDING

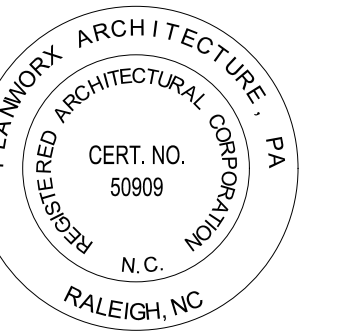
SPRING LAKE, NC

## Gallery Dr.



**PLANWORX**  
ARCHITECTURE

5711 SIX FORKS ROAD, SUITE 100  
RALEIGH NC 27609  
website www.planworx.com



Fairway Point Garage Building

H&H Constructors, Inc.

Gallery Dr, Spring Lake, NC 28390

Issued For Permit Review



PROGRESS DATE:	ISSUE DATE:	REVISION NUMBER	DATE	INITIALS	DESCRIPTION
	03-16-23				

### PROJECT SCOPE

- SINGLE 9 BAY GARAGE BUILDING TYPE

### STATE OF NORTH CAROLINA ADOPTED CODES

- 2018 NORTH CAROLINA STATE BUILDING CODE
- 2018 NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE
- 2020 NATIONAL ELECTRICAL CODE
- 2009 ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

### PROJECT TEAM

ARCHITECTURAL:  
PLANWORX ARCHITECTURE, P.A.  
5711 SIX FORKS ROAD, SUITE 100  
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STRUCTURAL:  
HAUSER-CREECH, INC.  
919.817.7676

PROJECT NO: 001123

DRAWN BY: AT

CHECKED BY: RW, MM

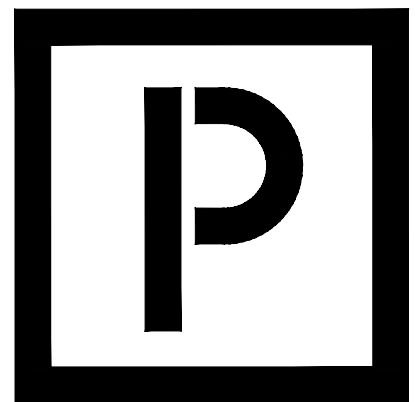
SHEET TITLE:  
Project Cover Sheet

SHEET NUMBER:

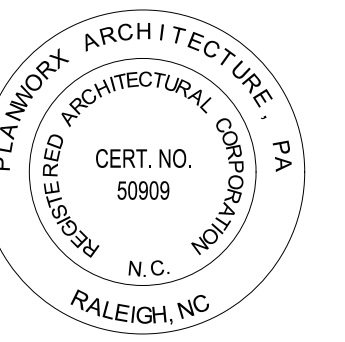
# G000

**ABBREVIATIONS LIST**

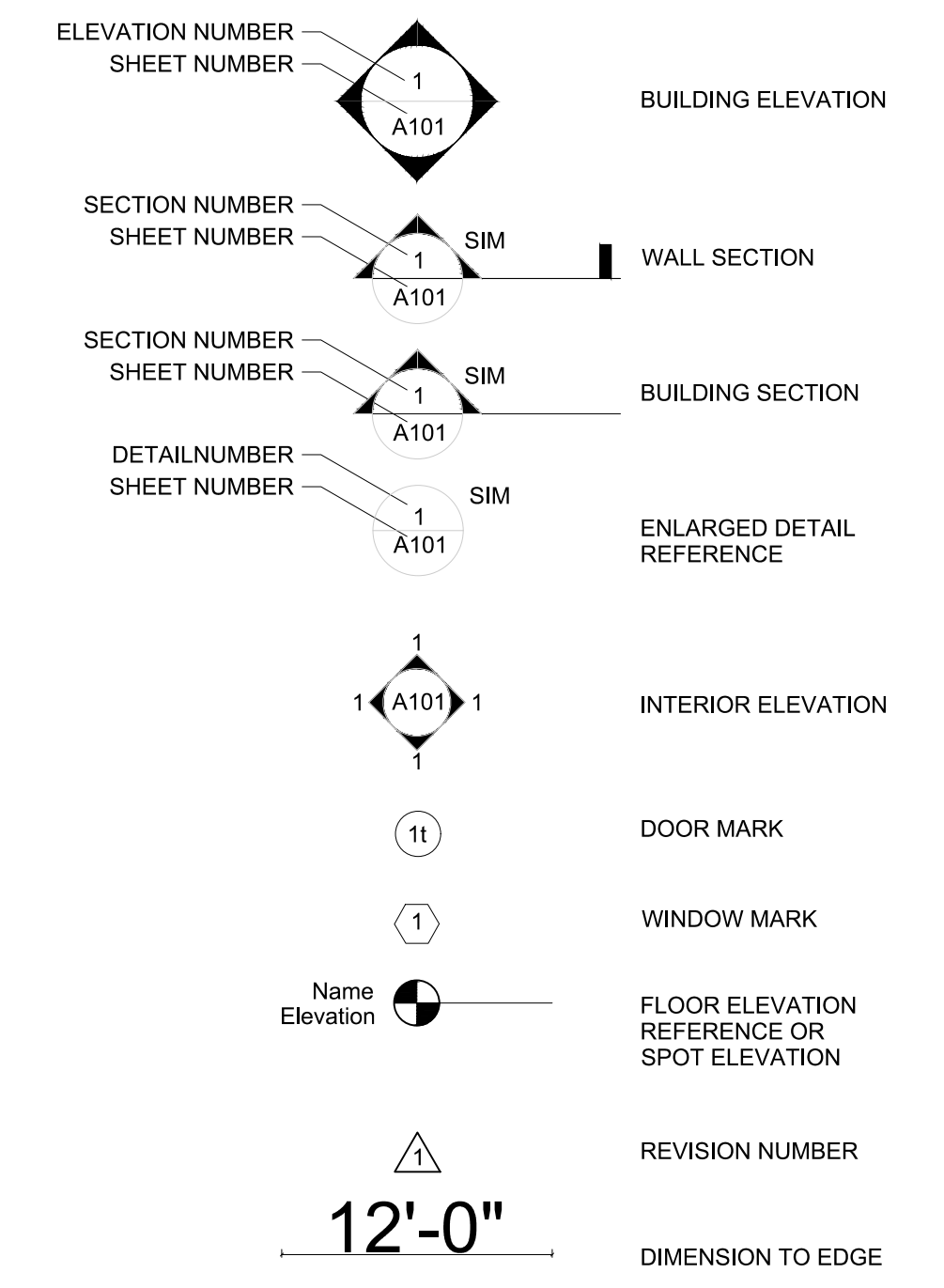
ATOS	ABOVE TOP OF SLAB
AFF	ABOVE FINISHED FLOOR
ACT	ACOUSTIC(AL) CEILING TILE
ADD	ADDENDUM
ADH	ADHESIVE
ADJ	ADJACENT
ALUM	ALUMINUM
ARCH	ARCHITECT(URAL)
BM	BEAM
BET	BETWEEN
BLK	BLOCKING
BD	BOARD
BLDG	BUILDING
BHD	BULKHEAD
BTOS	BELOW TOP OF SLAB
CAB	CABINET
CLG	CEILING
CT	CERAMIC TILE
CTR	CENTER
CLR	CLEAR(ANCE)
CL	CLOSET
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONF	CONFERENCE
CONST	CONSTRUCTION
CJ	CONSTRUCTION JOINT
CONT	CONTINUOUS
CONTR	CONTRACTOR
DEMO	DEMOLITION
DTL	DETAIL
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DR	DOOR
DBL	DOUBLE
DN	DOWN
DWR	DRAWER
DWG	DRAWING
DF	DRINKING FOUNTAIN
EA	EACH
ELEC	ELECTRIC(AL)
EWC	ELECTRIC WATER COLLER
EL	ELEVATION
ELEV	ELEVATOR
ENCL	ENCL(USE)RE
EQ	EQUAL
EX	EXISTING
EJ	EXPANSION JOINT
EXP	EXPOSED
EXT	EXTERIOR
FF	FINISHED FLOOR
FIN	FINISHED
FA	FIRE ALARM
FC	FLOORING CHANGE
FE	FIRE EXTINGUISHER
FHC	FIRE HOSE CABINET
FR	FIRE RATED(ING)
FL	FLOOR(ING)
FD	FLOOR DRAIN
FT	FULLY TEMPERED
FJR	FURRING
GA	GAUGE
GWB	GYPSUM WALL BOARD
HORIZ	HORIZONTAL
H&V	HORIZONTAL AND VERTICAL
HR	HOUR
INCL	INCLUDE(D)ING
ID	INSIDE DIAMETER
INSUL	INSULATE(D)ION
INT	INTERIOR
ISG	INSULATED SAFETY GLAZING
JC	JANITORS CLOSET
KD	KNOCK DOWN
JT	JOINT
KIT	KITCHEN
LBL	LABEL
LAM	LAMINATE
LAV	LAVATORY
LH	LEFT HAND
LT	LIGHT
LG	LONG, LENGTH
MFR	MANUFACTURER
MO	MASONRY OPENING
MTL	MATERIAL(S)
MAX	MAXIMUM
MECH	MECHANICAL
MET	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
MOV	MOVABLE
MUL	MULLION
NOM	NOMINAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NUMBER
OFF	OFFICE
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OD	OUTSIDE DIAMETER
OA	OVERALL
AH	OVERHEAD
PTD	PAINTED
JPR	PAIR
PBD	PARTICLE BOARD
PTN	PARTITION
PERF	PERFORATED
PLAS	PLASTER
PLAM	PLASTIC LAMINATE
PWD	PLYWOOD
PT	PAPER TOWEL DISPENSER/DISPOSAL
PROJ	PROJECTED(ION)
QT	QUARRY TILE
RAD, R	RADIUS
REF	REFERENCE
REINF	REINFORCED(ING)
REQ	REQUIRED
RES	RESILIENT
REV	REVISION
RH	RIGHT HAND
R	RISER
RM	ROOM
RO	ROUGH OPENING
RB	RUBBER BASE
SND	SANITARY NAPKIN DISPENSER
SR	SANITARY NAPKIN RECEPTACLE
SCHED	SCHEDULE
SD	SOAP DISPENSER
SG	SAFETY GLAZING
SH	SHELF, SHELVING
SIM	SIMILAR
SC	SOLID CORE
SPEC	SPECIFICATION, SPECIFIED
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUC	STRUCTURAL
SUSP	SUSPENDED
TEL	TELEPHONE
THK	THICKENS
THRES	THRESHOLD
TP	TOILET PAPER DISPENSER
T&G	TONGUE AND GROOVE
T	TREAD
TOS	TOP OF SLAB
TYP	TYPICAL
UC	UNDERCUT
UNF	UNFINISHED
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
VB	VINYL BASE
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
WC	WALL COVERING
WP	WATERPROOFING
W	WITH
W/O	WITHOUT
WD	WOOD



**PLANWORX ARCHITECTURE**  
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**ARCHITECTURAL SYMBOLS**



**FAIRWAY POINTE GARAGE BUILDING - BUILDING TABULATION**

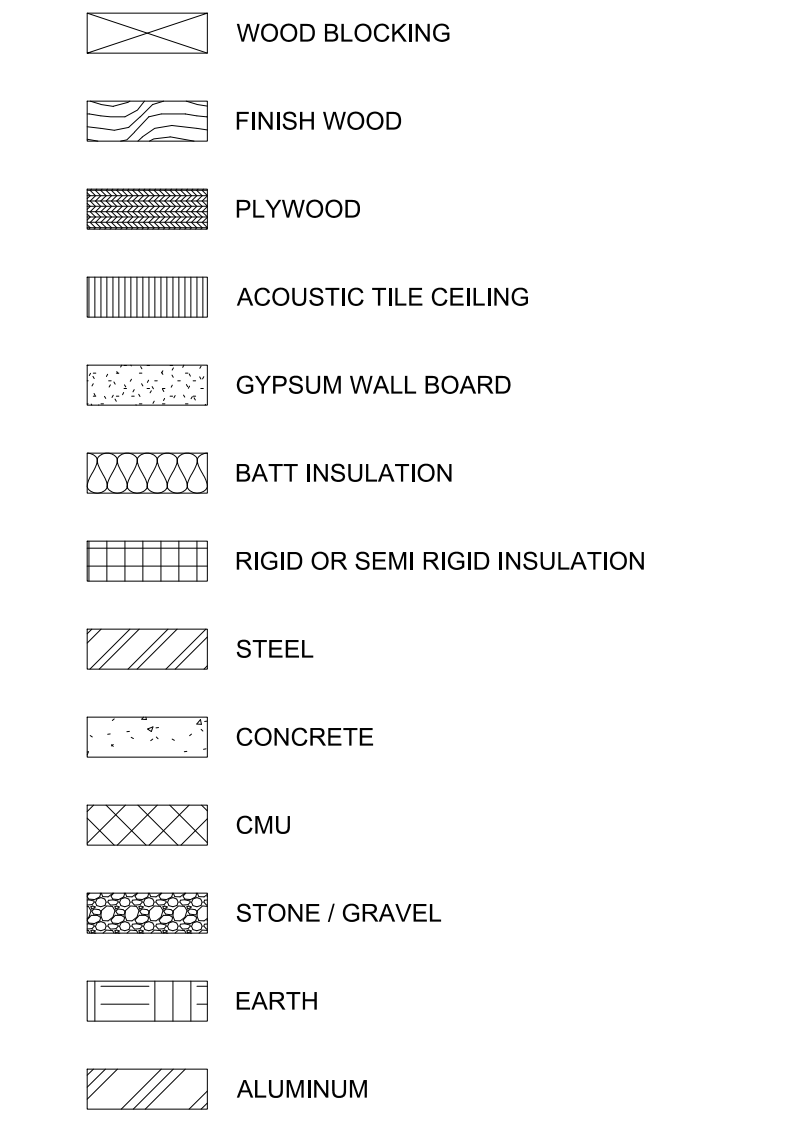
BUILDING TYPE	BUILDING DESCRIPTION	UNITS PER BLDG	UNIT MIX	TOTAL HEATED SQFT. (PER BUILDING CODE)	GROSS SQFT (PER BUILDING CODE. TOTAL AREA UNDER ROOF)	# OF BLDGS ON SITE	TOTAL NET SQFT	TOTAL GROSS SQFT
*GARAGE TYPE 1	1- STORY BLDG	N/A	N/A	-	2,457	1	-	2,457

\* = NON HEATED/CONDITIONED BUILDING

**GARAGE TYPE 1 SHEET INDEX**

GENERAL				ARCHITECTURAL				STRUCTURAL				PME - ELECTRICAL			
SHEET NUMBER	REV. #	REVISION DATE	SHEET TITLE	SHEET NUMBER	REV. #	REVISION DATE	SHEET TITLE	SHEET NUMBER	REV. #	REVISION DATE	SHEET TITLE	SHEET NUMBER	REV. #	REVISION DATE	SHEET TITLE
G000			COVER SHEET	A100			GARAGE TYPE 1 PLAN	S101			GARAGE BUILDING FOUNDATION PLAN	E001			ELECTRICAL SCHEDULES AND NOTES
G001			SHEET INDEX & GENERAL PROJECT INFO	A101			GARAGE TYPE 1 ROOF PLAN	S201			GARAGE BUILDING ROOF FRAMING	E002			ELECTRICAL DETAILS
G002			GENERAL PROJECT NOTES	A102			GARAGE TYPE 1 ELEVATIONS	S301			FOUNDATION DETAILS	E101			ELECTRICAL GARAGE PLAN
G003			GARAGE TYPE 1 CODE SUMMARY					S401			FRAMING DETAILS				
G004			UL DETAILS					S402			FRAMING DETAILS				
G005			UL DETAILS					S501			GENERAL NOTES AND SPECIAL INSPECTIONS				

**MATERIAL GRAPHICS**



Fairway Point Garage Building  
 H&H Constructors, Inc.  
 Gallery Dr, Spring Lake, NC 28390  
 Issued For Permit Review



PROGRESS DATE:	03-16-23
ISSUE DATE:	
REVISIONS:	
NUMBER	
DATE	
INITIALS	
DESCRIPTION	

PROJECT NO: **001123**  
 DRAWN BY: AT  
 CHECKED BY: RW, MM  
 SHEET TITLE: **Sheet Index & General Project Info**

SHEET NUMBER: **G001**

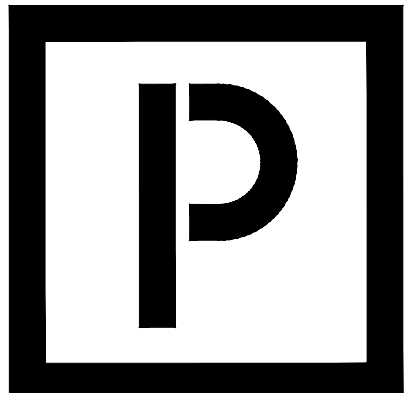
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AIR SEALING NOTES - NORTH CAROLINA
NOTE: COVER ALL AIR SEALING LOCATIONS NOR DOES IT ADDRESS TECHNIQUES. SEE NC STATE BUILDING CODE: ENERGY CONSERVATION CODE, 2018 EDITION FOR ADDITIONAL INFORMATION. OTHER CODE PROVISIONS MAY BE APPLICABLE AS WELL.
<ol style="list-style-type: none"> <li>PLATE AND WALL PENETRATIONS BY PLUMBING, ELECTRICAL, PHONE, CATV, ETC.</li> <li>TUB/SHOWER ON OUTSIDE OR ATTIC WALL.</li> <li>WINDOW AND DOOR ROUGH OPENINGS.</li> <li>AIRTIGHT, IC-RATED RECESSED LIGHTS AND ELECTRICAL FIXTURES EXPOSED TO ATTIC.</li> <li>EXTERIOR WALL EXHAUST FAN TERMINATIONS.</li> <li>CEILING MOUNTED BATH FANS, SPEAKERS, ETC.</li> <li>BOTTOM PLATE AND TOP PLATE.</li> <li>SEAMS BETWEEN RIGID EXTERIOR SHEATHING.</li> <li>BAND AREA BETWEEN FLOORS, CONDITIONED SPACE AND ATTIC.</li> <li>MECHANICAL EQUIPMENT AND DUCTWORK CHASES IN ATTICS, CRAWLSPACES.</li> <li>CEILING/CRAWLSPACE ELECTRICAL BOXES.</li> <li>CEILING/CRAWLSPACE HVAC BOOTS.</li> <li>SHOWER AND TUB DRAIN LINE.</li> <li>FIREPLACE INSERTS.</li> <li>ATTIC KNEEWALL DOORS.</li> <li>JOIST CAVITIES UNDER ATTIC KNEEWALLS.</li> <li>TRANSITION BETWEEN CEILING HEIGHTS.</li> <li>ATTIC SCUTTLE HATCH.</li> <li>WALL PENETRATIONS OF MECHANICAL COMBUSTION CLOSETS.</li> <li>THRESHOLDS AT MECHANICAL COMBUSTION CLOSETS.</li> <li>BAND JOIST EXPOSED TO EXTERIOR.</li> <li>EXTERIOR WALL PENETRATIONS FOR REFRIGERATION LINES, CONDENSATE LINE, ETC.</li> <li>DOORS AND WINDOWS BETWEEN UNHEATED AND HEATED SPACE SHALL BE WEATHER-STRIPPED AROUND THEIR PERIMETER TO LIMIT AIR LEAKAGE WHEN CLOSED.</li> <li>FOAM GASKETS SHALL BE USED ON ALL RECEPTACLES, SWITCHES, AND OTHER UTILITY BOXES ON EXTERIOR WALLS.</li> <li>CAULK AND SEAL OPENINGS IN ELECTRICAL BOXES AND WHERE BOX MEETS DRYWALL WITH AN APPROVED SEALANT.</li> </ol>

ACCESSIBILITY NOTES - NORTH CAROLINA
THE FOLLOWING ARE GENERAL NOTES FOR ACCESSIBILITY REQUIREMENTS, IT IS NOT AN ALL-ENCOMPASSING LIST NOR DOES IT ADDRESS SPECIFIC TECHNIQUES. THESE NOTES ARE INTENDED AS A GENERAL OUTLINE. ENTIRETY OF BUILDING, SPACES, RESIDENTIAL UNITS, ETC. SHALL MEET THE 2018 NORTH CAROLINA STATE BUILDING CODE, ACCESSIBILITY CODE, MOST CURRENT VERSION, INCLUDING AMENDMENTS, IN ADDITION, ANY AND ALL APPLICABLE LOCAL, STATE, FEDERAL, ETC. CODES SHALL APPLY IN JURISDICTION OF THE PROJECT.
<ol style="list-style-type: none"> <li>ACCESSIBLE ENTRANCES TO BE PROVIDED WITH SIGNS WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.</li> <li>ALL HORIZONTAL WALKING SURFACES TO BE CONTINUOUS AND WITHOUT ABRUPT VERTICAL CHANGES EXCEEDING 1/4" MINIMUM. ALL HORIZONTAL WALKING SURFACES WILL BE MAINTAINED SLIP RESISTANT.</li> <li>DOOR OPENING REQUIREMENTS SHALL COMPLY WITH ICC/ANSI 117.1 - 2009 SECTION 404.</li> <li>THE FLOOR OR LANDING ON EACH SIDE OF AN EXIT DOOR WILL BE LEVEL AND CLEAR. THE LEVEL AREA WILL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 44" AND A LENGTH OPPOSITE OF 44", AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN A CLOSED POSITION.</li> <li>MAXIMUM EFFORT TO OPERATE DOORS AND BLDG ENTRY GATES WILL NOT EXCEED 8.5 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT CENTER PLANE OF SLIDING OR FOLDING COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED/REQUIRED TO MEET THE ABOVE STANDARDS.</li> <li>THE BOTTOM 10" OF ALL DOORS, EXCEPT AUTOMATIC AND SLIDING, WILL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALL THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10" HIGH SMOOTH PANEL WILL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.</li> <li>THRESHOLDS WILL NOT EXCEED 1/2" IN TOTAL HEIGHT. VERTICAL FACES WILL NOT EXCEED 1/4". CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" WILL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. CHANGE IN LEVEL GREATER THAN 1/2" WILL BE ACCOMPLISHED BY MEANS OF A RAMP.</li> <li>STAIRWAY TREADS MUST BE SLIP RESISTANT WITH, ROUNDED OR BEVELED EDGES AND NO ABRUPT EDGES AT THE NOSE.</li> <li>THE FLOOR OR LANDING IMMEDIATELY OUTSIDE THE ENTRY MAY BE SLOPED UP TO 1/8" PER FOOT IN THE DIRECTION AWAY FROM THE BUILDING FOR DRAINAGE.</li> <li>PET WASTE STATIONS SHALL BE LOCATED ON AN ACCESSIBLE ROUTE AND LOCATED PER ICC/ANSI A117.1 - 2009 SECTION 308.</li> <li>ALL MAILBOXES/PARCEL BOXES SHALL BE LOCATED ON AN ACCESSIBLE ROUTE AND MEET/LOCATED PER ICC/ANSI 117.1 -2009 SECTION 308 AND U.S. POSTAL SERVICE STD-4C.</li> </ol> <p>CONFIRM WITH THE LOCAL USPS RESPONSIBLE FOR MAIL SERVICE TO/FROM THE SITE.</p> <ol style="list-style-type: none"> <li>ACCESSIBLE RAMP CROSS SLOPES SHALL NOT EXCEED A MAXIMUM 2% CROSS SLOPE.</li> <li>ACCESSIBLE RAMP SLOPES SHALL NOT EXCEED A MAXIMUM 8.33% SLOPE AND PROVIDE A LEVEL LANDING AT THE TOP AND BOTTOM OF THE RAMP, AT A MINIMUM THE LANDING SHALL BE 60" X WIDTH OF RAMP RUN.</li> <li>ACCESSIBLE WALKING SURFACE SLOPES SHALL NOT EXCEED A MAXIMUM 5% SLOPE.</li> </ol>


PROJECT GENERAL NOTES
<ol style="list-style-type: none"> <li>THE GENERAL CONTRACTOR (G.C.) SHALL FULLY ACQUAINT THEMSELVES WITH THE CONDITIONS OF THE CONTRACT, LOCAL CONDITIONS RELATING TO THE JOB SITE, ACCESSIBILITY AND GENERAL CHARACTER OF THE CONSTRUCTION SITE AND LOCAL LABOR CONDITIONS SO THAT THEY UNDERSTAND THE NATURE, EXTENT, DIFFICULTIES AND RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK.</li> <li>ALL WORK PERFORMED BY THE CONTRACTOR/SUB-CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE MUNICIPAL, LOCAL OR FEDERAL AND STATE LAWS, AS WELL AS ANY OTHER GOVERNING REQUIREMENTS, WHETHER OR NOT SPECIFIED WITHIN THE CONSTRUCTION DOCUMENTS.</li> <li>THE CONTRACTOR/SUB-CONTRACTOR EXPRESSLY WARRANTS THAT ALL WORK SHALL BE EXECUTED IN A SOUND AND WORKMANLIKE MANNER IN CONFORMANCE WITH THE HIGHEST STANDARDS WITHIN THE INDUSTRY AND WARRANTS THAT ALL MATERIALS USED TO COMPLETE THE WORK/PROJECT ARE MERCHANTABILITY, FREE FROM ANY PATENT OR LATENT DEFECT, FIT FOR THEIR INTENDED USE, AND EQUAL IN QUALITY TO THE BEST OF THEIR KIND.</li> <li>CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND ALERT THE ARCHITECT AND OWNER IN ADVANCE, TO ANY UNFORESEEN CONDITIONS AND/OR CONSTRUCTION DIFFICULTIES PRIOR TO COMMENCING WORK OR WORKING ON THE AFFECTED PORTION OF THE WORK.</li> <li>THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UTILITIES. ANY EXISTING UTILITIES INDICATED HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE INDICATED FOR CONVENIENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL UTILITY LOCATIONS NOT INDICATED. CONTRACTOR SHALL EXERCISE EXTREME CARE TO AVOID DAMAGE OR DISTURBANCE TO EXISTING UTILITIES.</li> <li>THROUGHOUT THE DRAWINGS ARE ABBREVIATIONS THAT ARE IN COMMON USE AND/OR DEFINED WITHIN. THE ARCHITECT SHALL DEFINE THE INTENT OF ANY IN QUESTION.</li> <li>TYPICAL WALL SECTIONS, FINISHES, DETAILS, ETC. ARE NOT INDICATED EVERYWHERE THEY OCCUR ON THE DRAWINGS; REFER TO DETAILED DRAWINGS WHERE PROVIDED.</li> <li>NOTHING IN THE DRAWINGS AND/OR THE SPECIFICATIONS/PROJECT MANUAL SHALL BE CONSTRUED TO PERMIT AN INSTALLATION IN VIOLATION OF APPLICABLE CODES, MANUFACTURER RECOMMENDATIONS, AND/OR REQUIREMENTS. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OWNER IMMEDIATELY AND CEASE WORK ON ALL PARTS OF THE CONTRACT THAT ARE AFFECTED. THE WORK TO BE PERFORMED UNDER THIS CONTRACT SHALL BE IN FULL ACCORDANCE WITH THE MOST CURRENT ADOPTED, AND AS APPLICABLE, AMENDED, RULES, REGULATIONS, RESTRICTIONS, REQUIREMENTS AND CODES.</li> <li>IN CASE OF ANY CONFLICT WHEREIN THE METHODS OR STANDARDS OF INSTALLATION OR THE MATERIALS SPECIFIED DO NOT EQUAL OR EXCEED THE REQUIREMENTS OF THE LAWS OR ORDINANCES, THE LAWS OR ORDINANCES SHALL GOVERN. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OWNER OF ALL CONFLICTS ONCE KNOWN.</li> <li>THE ARCHITECT ASSUMES NO RESPONSIBILITY AS TO THE PHYSICAL CHARACTERISTICS OF THE SOIL(S) OR THE ACCURACY OF ENGINEERING DATA SUPPLIED BY OTHERS.</li> <li>THE G.C. SHALL VERIFY DIMENSIONS, LEVELS, EASEMENTS, BOUNDARIES AND CONSTRUCTION INDICATED ON CONTRACT DRAWINGS BEFORE PROCEEDING WITH THE WORK. ALSO, THE G.C. SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN THE CONSTRUCTION DOCUMENTS AND FIELD CONDITIONS, BEFORE COMMENCING WITH ANY WORK AND REQUEST CLARIFICATION AS REQUIRED.</li> <li>DIMENSIONS, NOTES, FINISHES, AND FIXTURES SHOWN ON TYPICAL PLANS, SECTIONS, OR DETAILS SHALL APPLY TO SIMILAR, SYMMETRICAL OR OPPOSITE PLANS, SECTIONS OR DETAILS.</li> <li>DIMENSIONS NOTED AS "CLR." ARE TO BE CLEAR FROM FACE OF FINISH MATERIAL TO FACE OF FINISH MATERIAL OR CENTERLINE OF FIXTURE AND ARE NOT ADJUSTABLE WITHOUT WRITTEN APPROVAL OF ARCHITECT.</li> <li>THE CONTRACTOR SHALL VERIFY ALL ROUGH-IN DIMENSIONS FOR THE EQUIPMENT FURNISHED AND INSTALLED BY CONTRACTOR OR OTHERS.</li> <li>THE CONTRACTOR SHALL BE BOUND TO THE FINISH SCHEDULE(S) PROVIDED FOR ROOMS AND SPACES BUT SHALL ALSO BE RESPONSIBLE FOR PROVIDING OTHER MATERIALS NOT DESIGNATED IN THE SCHEDULE IF REQUIRED TO CREATE A FINISHED PRODUCT.</li> <li>INSTALL AND SEAL ALL BATHROOM ACCESSORIES (E.G. GRAB BARS, TOWEL BARS, ETC.) ON OR WITHIN WALLS TO PROTECT ELEMENTS FROM MOISTURE. WALLS AT SHOWERS AND BATHTUBS SHALL BE WATERTIGHT TO A MINIMUM OF 7'-0" HIGH ABOVE DRAIN INLET.</li> <li>PROVIDE APPROPRIATE SEALANT AROUND WINDOWS, DOOR JAMBS &amp; HEADS, AND ADJACENT CONSTRUCTION.</li> <li>WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE PRESERVATIVE TREATED; USE OF CCA PRESERVATIVE IS PROHIBITED. USE APPROPRIATE FASTENERS PER PRESERVATIVE.</li> <li>ALL MATERIALS AND/OR EQUIPMENT SHALL BE INSTALLED/USED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND/OR RECOMMENDATIONS &amp; SHALL COMPLY W/ ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS.</li> <li>THE G.C. SHALL PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY CODE AND LOCAL FIRE MARSHALL. GENERAL CONTRACTOR SHALL REVIEW AND CONFIRM ESTABLISHED LOCATIONS W/ ARCHITECT PRIOR TO COMMENCEMENT OF BUILDING FRAMING.</li> <li>PROVIDE INTERIOR EXIT STAIRWAY NUMBERING SYSTEM PER NORTH CAROLINA BUILDING CODE SECTION 1023.9.1 AND ANY AND ALL OTHER APPLICABLE CODES/REGULATIONS.</li> <li>THESE DRAWINGS DO NOT CONTAIN THE REQUIREMENTS FOR JOB SAFETY. ALL PROVISIONS FOR SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.</li> <li>THE G.C. SHALL MAINTAIN A CURRENT AND COMPLETE SET OF APPROVED CONSTRUCTION DRAWINGS ON SITE DURING ALL PHASES OF CONSTRUCTION FOR USE BY ALL TRADES.</li> <li>THE G.C. SHALL SUBMIT SHOP DRAWINGS AS REQUIRED AND FOR ITEMS LISTED IN THE PROJECT MANUAL (UNDER SEPARATE COVER).</li> <li>ALL FINISHED FLOOR ELEVATIONS SHALL BE A MINIMUM OF 8" ABOVE THE FINISHED GRADE OR AS INDICATED ON THE DRAWINGS.</li> <li>PROVIDE TEMPERED GLASS AS REQUIRED BY CODE ADJACENT TO DOORS AND EXIT WAYS.</li> <li>GRADE SHALL BE SLOPED AWAY FROM BUILDING FOR POSITIVE DRAINAGE.</li> <li>ROWLOCKS ARE TO PROJECT MIN. 1/2" FROM THE FACE OF RUNNING BOND BELOW. UNLESS INDICATED OTHERWISE ON THE DRAWINGS.</li> <li>ALL HVAC, PLUMBING AND ELEC. PENETRATIONS THROUGHOUT THE EXTERIOR WALLS AND AT THE TOP AND BOTTOM PLATES SHALL BE PROPERLY SEALED.</li> <li>EXTERIOR SEALANT SHALL BE SILICONE BASED; NO OTHER TYPES SHALL BE USED.</li> </ol>

<ol style="list-style-type: none"> <li>PROVIDE 1/2" TO 3/4" SEPARATION BETWEEN BASE FLASHING AND EXTERIOR MATERIALS.</li> <li>APPROVE ALL EXTERIOR MATERIALS &amp; COLORS WITH THE OWNER &amp; ARCHITECT PRIOR TO ORDERING/FABRICATION. CONTRACTOR TO CONSTRUCT A MOCK-UP PANEL OF BUILDING EXTERIOR (IN ACCORDING TO ARCHITECT'S INSTRUCTIONS PRIOR TO APPLICATION OF EXTERIOR FINISHES AND WINDOWS ON BUILDING. FINAL APPROVAL BY ARCHITECT &amp; OWNER OF ALL EXTERIOR FINISHES / COLORS WILL BE MADE BASED ON THE MOCK-UP PANEL.</li> <li>THE G.C. SHALL ASSURE THAT ANY AND ALL MATERIAL COMPATIBILITY IS ACHIEVED WITH NO NEGATIVE EFFECT ON MATERIALS, I.E. CONTACT OF DISSIMILAR MATERIALS WILL HAVE NO NEGATIVE IMPACT/EFFECT ON EITHER MATERIAL OR SURROUNDING CONSTRUCTION. G.C. SHALL INFORM ARCHITECT OF ANY AND ALL CONCERNS PRIOR TO FABRICATION/INSTALLATION. PROVIDE GALVANIC INSULATION BETWEEN DISSIMILAR METALS.</li> <li>NO BRICK/MASONRY CORE HOLES SHALL BE EXPOSED, TYP. CLOSURE (SOLID CORE) BRICK/MASONRY SHALL BE USED WHERE CORE HOLES WOULD OTHERWISE BE EXPOSED TO THE ELEMENTS.</li> <li>EXPOSED STEEL LINTELS AND 'BREAK' METAL TO BE PAINTED TO MATCH ADJACENT SURFACE UNLESS NOTES OTHERWISE.</li> <li>PROVIDE SOLID BLOCKING WITHIN WALL CAVITY SEGMENTS BEHIND ALL EXTERIOR LIGHTS, SIGNAGE, BRACKETS, ETC.</li> <li>COORDINATE ALL EXTERIOR PAVING CONDITIONS WITH CIVIL DRAWINGS.</li> <li>ALL CAULKING/SEALANT COLORS TO MATCH ADJACENT SURFACES.</li> <li>PROVIDE 5/8" GWB WITHIN FIRE RATED WALL CAVITY SEGMENTS BEHIND ALL SURFACE MOUNTED ELECTRICAL PANELS PRIOR TO PANEL INSTALLATION.</li> <li>VERIFY ALL FINISH FLOOR ELEVATIONS WITH CIVIL DRAWINGS.</li> <li>COORDINATE ALL SIDEWALK LOCATIONS AND HEIGHTS WITH ALL HARDSCAPE PLANS. ALL SIDEWALKS AT DOOR THRESHOLDS SHALL BE LEVEL AND MEET ALL FHA REQUIREMENTS.</li> <li>LOADS ON HANDRAILS, GUARDS, AND VEHICLE BARRIERS SHALL COMPLY WITH 2018 NCSBC CHAPTER 16.</li> <li>ANY AND ALL MECHANICAL EQUIPMENT, APPLIANCES, AND SUPPORTS THAT ARE EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND LOADING/PRESSURES DETERMINED IN ACCORDANCE WITH THE 2018 NCSBC</li> </ol>
---



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Fairway Point Garage Building

H&H Constructors, Inc.

Gallery Dr, Spring Lake, NC 28390

Issued For Permit Review



PROGRESS DATE:	ISSUE DATE:	REVISION NUMBER	DATE	INITIALS	DESCRIPTION
	03-16-23				

PROJECT NO: **001123**

DRAWN BY: \_\_\_\_\_ AT

CHECKED BY: \_\_\_\_\_ RW, MM

SHEET TITLE: **General Project Notes**

SHEET NUMBER: **G002**

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2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: Fairway Pointe - Garage Type 1 Address: 135 Gallery Dr, Spring Lake, NC Zip Code: 28390

CONTACT: Marc W. Mills (Planworx Architecture, P.A.) DESIGNER: FROM: NAME: LICENSE #: TELEPHONE #: E-MAIL: Architectural: Planworx Architecture Marc W. Mills 7279 919.424.1949 mw@mplanworx.com

2018 NC BUILDING CODE: New Building 2018 NC EXISTING BUILDING CODE: N/A

BASIC BUILDING DATA Construction Type: V-B Sprinklers: No

Table with 4 columns: FLOOR, EXISTING (SQ FT), NEW (SQ FT), SUB-TOTAL. Rows for 2nd Floor, 1st Floor, and TOTAL.

ALLOWABLE AREA Primary Occupancy Classification(s): Utility and Miscellaneous

Table with 4 columns: STORY NO., DESCRIPTION AND USE, (A) BLDG AREA PER STORY (ACTUAL), (B) TABLE 506.2\* AREA, (C) AREA FOR FRONTAGE INCREASE<sup>1</sup>, (D) ALLOWABLE AREA PER STORY OR UNIT (LIMIT)<sup>2</sup>

1 Frontage area increases from Section 506.3 are computed thus: a. Perimeter which fronts a public way or open space having 20 feet minimum width = (F)

Table with 4 columns: ALLOWABLE, SHOWN ON PLANS, CODE REFERENCE 1. Rows for Building Height in Feet and Building Height in Stories.

1 Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

Table with 7 columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE (FEET), REQ'D, RATING, DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY, SHEET # FOR RATED PENETRATION, SHEET # FOR RATED JOINTS

\* Indicate section number permitting reduction

Table with 4 columns: FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES, DOUBLE OF OPENINGS PROTECTION (TABLE 705.8), ALLOWABLE AREA (%), ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS Emergency Lighting: No Fire Alarm: No

LIFE SAFETY PLAN REQUIREMENTS Life Safety Plan Sheet #: N/A

- Fire and/or smoke rated wall locations (Chapter 7) Assumed and real property line locations (if not on the site plan) Exterior wall opening area with respect to distance to assumed property lines (705.8)

Table with 8 columns: UNIT CLASSIFICATION, TOTAL UNITS, ACCESSIBLE UNITS REQUIRED, ACCESSIBLE UNITS PROVIDED, TYPE A UNITS REQUIRED, TYPE A UNITS PROVIDED, TYPE B UNITS REQUIRED, TYPE B UNITS PROVIDED, TOTAL ACCESSIBLE UNITS PROVIDED

Table with 4 columns: LOT OR PARKING AREA, TOTAL # OF PARKING SPACES, # OF ACCESSIBLE SPACES PROVIDED, TOTAL # ACCESSIBLE PROVIDED

Table with 8 columns: USE, WATER CLOSETS, URINALS, LAVATORIES, SHOWERS, DRINKING FOUNTAINS

SPECIAL APPROVALS Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

ENERGY REQUIREMENTS

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided.

Existing building envelope complies with code: No Exempt Building: No

THERMAL ENVELOPE (Prescriptive method only) Roofing Assembly (each assembly)

Exterior Walls (each assembly) Description of assembly: N/A U-Value of total assembly: N/A

Floors over unconditioned space (each assembly) Description of assembly: N/A

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN

DESIGN LOADS: Importance Factors: Snow (Ia) Seismic (Ia)

SEISMIC DESIGN CATEGORY: Select one Provide the following Seismic Design Parameters: Risk Category (Table 1604.5)

MECHANICAL SUMMARY MECHANICAL DESIGN MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone winter dry bulb: summer dry bulb: Interior design conditions

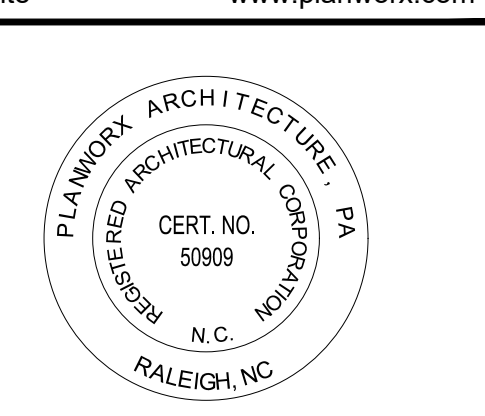
Mechanical Spacing Conditioning System Unitary description of unit: heating efficiency:

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN

ELECTRICAL SYSTEM AND EQUIPMENT Method of Compliance: Select one

Lighting schedule (each fixture type) lamp type required in fixture number of lamps in fixture

- Additional Efficiency Package Options (When using the 2018 NEC; not required for ASHRAE 90.1) C406.2 More Efficient HVAC Equipment Performance



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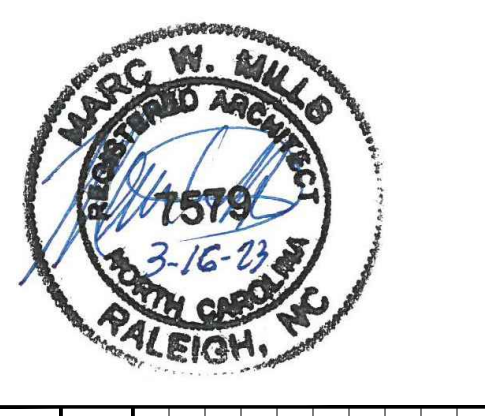
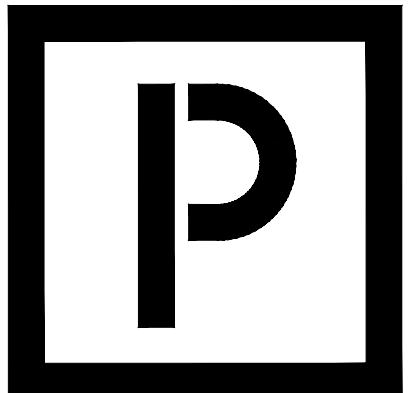


Table with 3 columns: PROGRESS DATE, ISSUE DATE, REVISIONS

PROJECT NO: 001123 DRAWN BY: AT CHECKED BY: RW, MM SHEET TITLE: Garage Type 1 Code Summary

SHEET NUMBER: G003



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Fairway Point Garage Building  
H&H Constructors, Inc.  
Gallery Dr, Spring Lake, NC 28390  
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PROGRESS DATE:	03-16-23
ISSUE DATE:	
ISSUE NUMBER:	
INITIALS:	
DESCRIPTION:	
PROJECT NO:	001123
DRAWN BY:	AT
CHECKED BY:	RW, MM
SHEET TITLE:	UL Details
SHEET NUMBER:	G004

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Designation: Construction/Assembly/Detail/Configuration

Fire-resistance Ratings - ANSUL U63  
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BXUV - Fire Resistance Ratings - ANSUL U63 Certified for Canada

February 3, 2023 Design No. U395

Revised: 1-1-20  
Fire Rating: 1-HR  
UL Listing: E82487-1

Includes and products shall bear the UL or E-List Certification Mark for jurisdictions employing the UL or E-List Certification Mark or Code.

**1. Head Bolt** - Head 1/2" dia. spaced 12" on center, 1/2" dia. hex head bolts.

**2. Gypsum Board** - 5/8" thick gypsum board with bonded square or tapered edges, applied after installation or vertically.

**3. Steel Deck** - 1/2" thick steel deck with bonded square or tapered edges, applied after installation or vertically.

**4. Gypsum Board** - 5/8" thick gypsum board with bonded square or tapered edges, applied after installation or vertically.

**5. Head Bolt** - Head 1/2" dia. spaced 12" on center, 1/2" dia. hex head bolts.

**6. Head Bolt** - Head 1/2" dia. spaced 12" on center, 1/2" dia. hex head bolts.

**7. Gypsum Board** - 5/8" thick gypsum board with bonded square or tapered edges, applied after installation or vertically.

**8. Steel Deck** - 1/2" thick steel deck with bonded square or tapered edges, applied after installation or vertically.

**9. Gypsum Board** - 5/8" thick gypsum board with bonded square or tapered edges, applied after installation or vertically.

**10. Head Bolt** - Head 1/2" dia. spaced 12" on center, 1/2" dia. hex head bolts.

**11. Head Bolt** - Head 1/2" dia. spaced 12" on center, 1/2" dia. hex head bolts.

**12. Head Bolt** - Head 1/2" dia. spaced 12" on center, 1/2" dia. hex head bolts.

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**1 U.L. # U305 (1-HR INTERIOR BEARING WALL ASSEMBLY)**  
NTS

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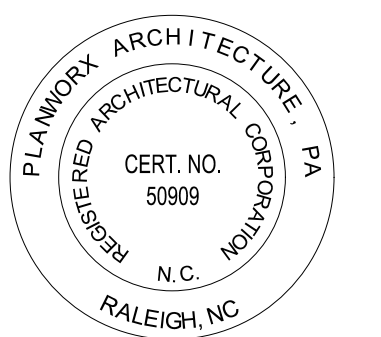
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Fairway Point Garage Building

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PROGRESS DATE:	03-16-23
ISSUE DATE:	
REVISION NUMBER	INITIALS
DATE	DESCRIPTION

PROJECT NO: 001123

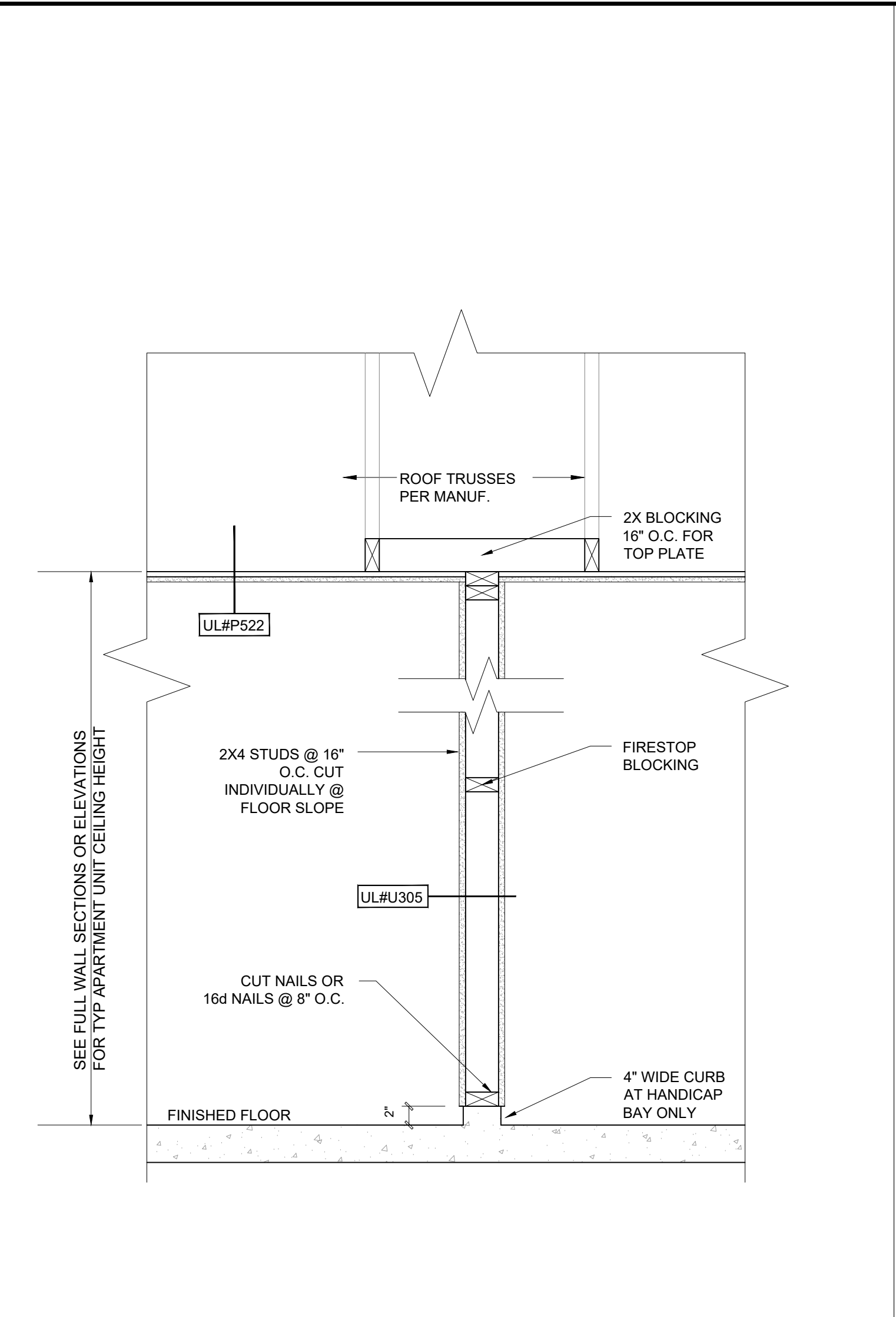
DRAWN BY: AT

CHECKED BY: RW, MM

SHEET TITLE: Garage Type 1 Plan

SHEET NUMBER:

**A100**



**GENERAL NOTES**

**WALLS**  
ALL WALLS ARE DRAWN 3/4" THICK U.N.O.  
ANGLED WALLS ARE DRAWN @ 45° U.N.O.  
**SMOKE DETECTORS**  
NUMBER AND LOCATION OF SMOKE DETECTORS SHALL CONFORM TO N.E.C.

**ATTIC ACCESS**  
ATTIC ACCESS SHALL BE PROVIDED BY BUILDER ACCORDING TO CODE.

**WALL/CEILING HEIGHTS**  
WALL AND CEILING HEIGHTS NOTES ARE BASED ON NOMINAL WALL SIZE (I.E. A 10" X 118" ACTUAL WALL HEIGHT IS LABELED 10'0" ON THE PLANS).

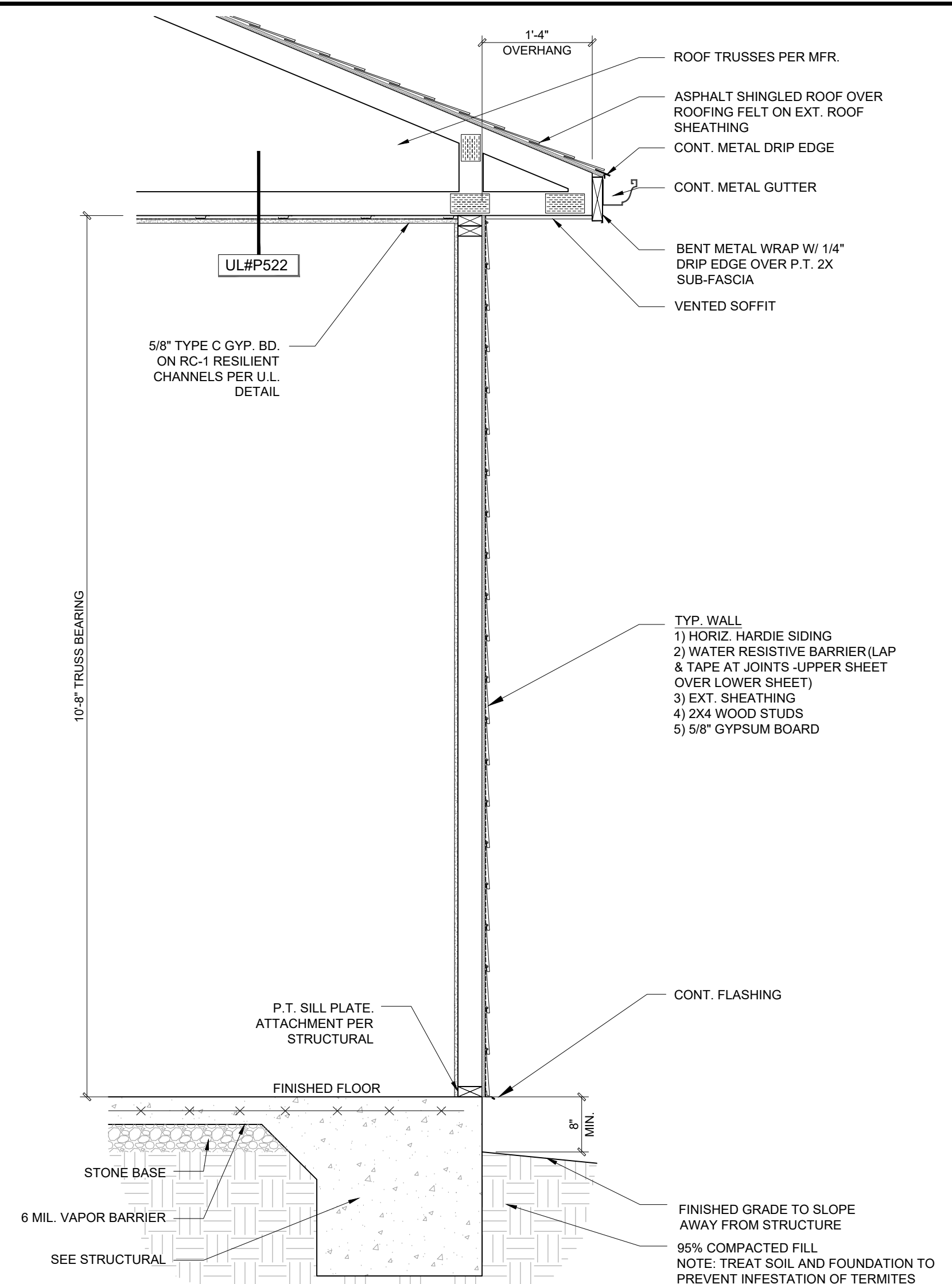
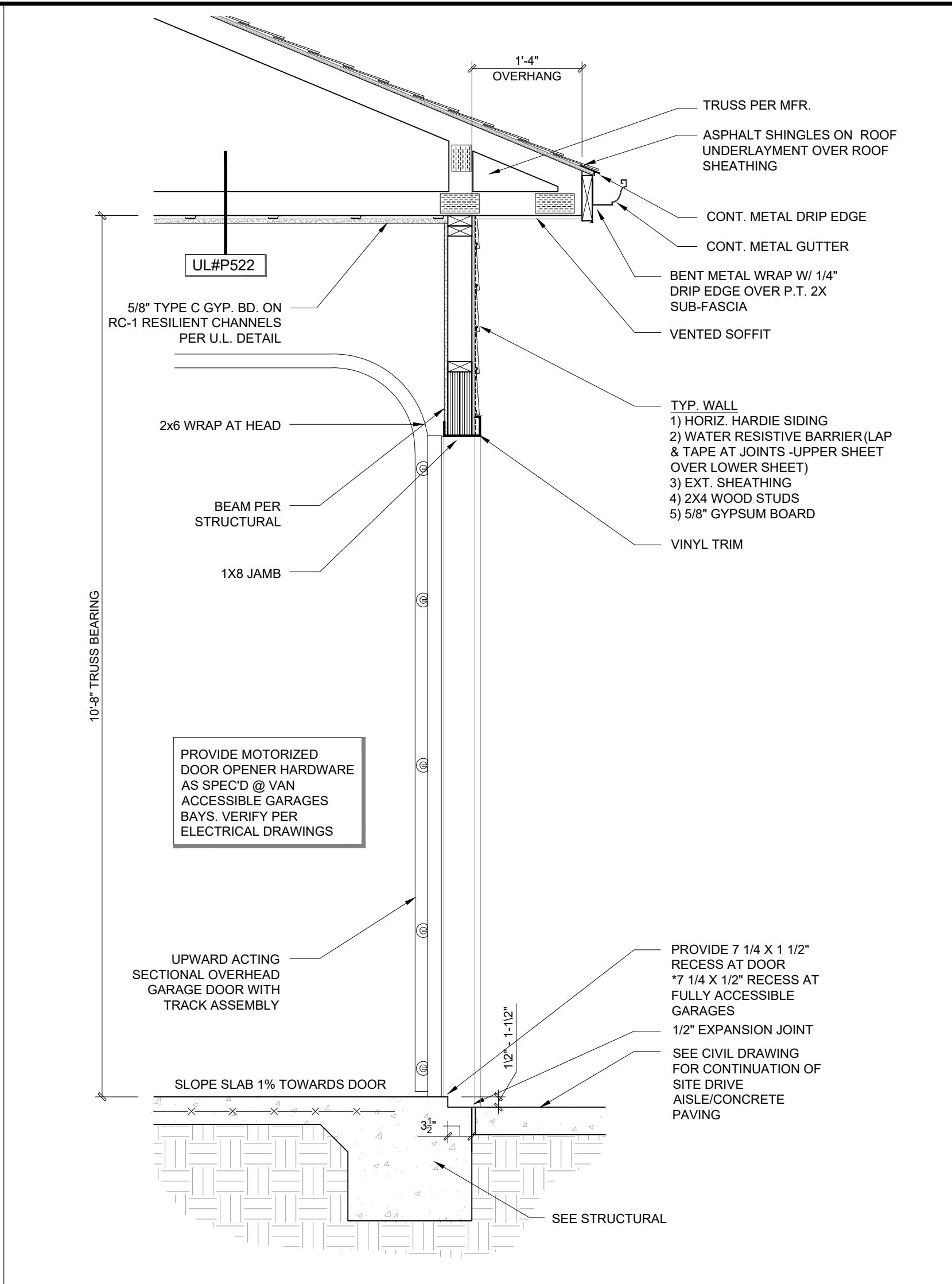
**WALL LEGEND**

— = STANDARD STUD WALL INT OR EXT  
IF EXT SEE ELEVATIONS FOR SIDING STYLE THICKNESS OF WALL NOTED IN PLAN NOTES OR AT WALL LOCATIONS

— = STANDARD STUD WALL FOR STONE VENEER WAINSCOTING. SEE ELEVATIONS FOR HEIGHT & FINISH MATERIAL AT EXT STUD WALL ABOVE. STUD THICKNESS AS NOTED IN PLAN NOTES OR AT WALL LOCATIONS

**SQUARE FOOTAGE**

TOTAL BUILDING SQUARE FOOTAGE =	2,457
EACH BAY =	258
VAN ACCESSIBLE BAY =	344

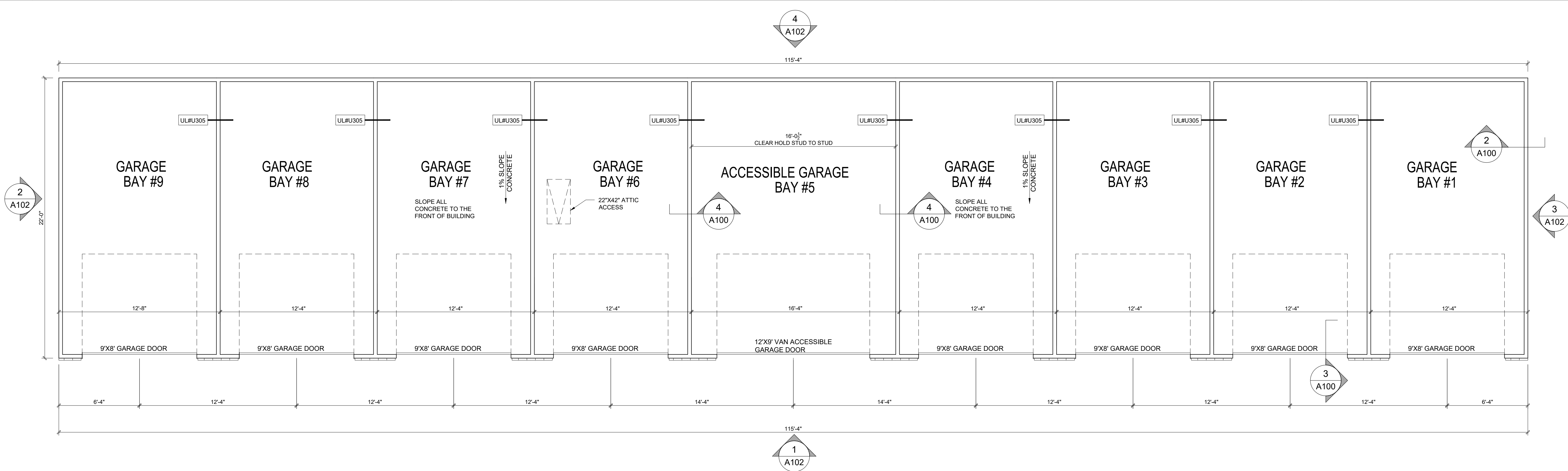


**2** TYPICAL EXT. WALL SECTION  
SCALE: 3/4" = 1'-0"

**3** TYPICAL EXT. WALL SECTION AT GARAGE DOOR  
SCALE: 3/4" = 1'-0"

**4** WALL SECTION AT ACCESSIBLE BAY DEMISING WALL  
SCALE: 1" = 1'-0"

**5** GENERAL NOTES

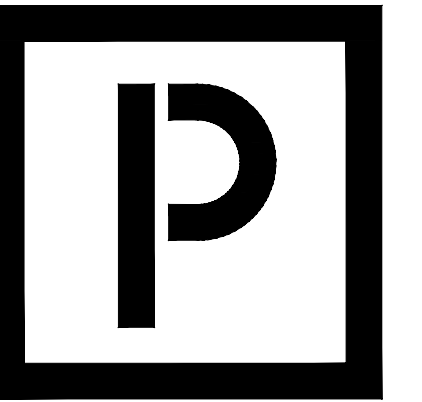


**1** GARAGE TYPE 1 - FLOOR PLAN  
SCALE: 1/4" = 1'-0"

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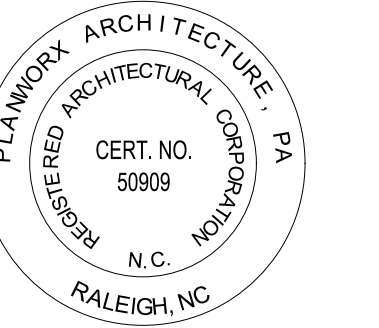
**ROOF PLAN GENERAL NOTES**

1. ALL DOWNSPOUTS ARE 3"x4"
  2. WHERE RIDGE VENTS ARE INDICATED AT OVER FRAMED DORMERS, PROVIDE A MIN. 22X36 ACCESS OPENING IN MAIN ROOF SHEATHING
  3. APPLY ICE+WATER SHIELD TO ALL AREAS OF ROOF NOTED BELOW:
    - VALLEYS
    - ROOF SLOPES BELOW 4:12
    - ROOF/WALL INTERSECTIONS
    - EAVES
    - RIDGES
    - HIPS
- D.S. = DOWNSPOUT



**PLANWORX ARCHITECTURE**

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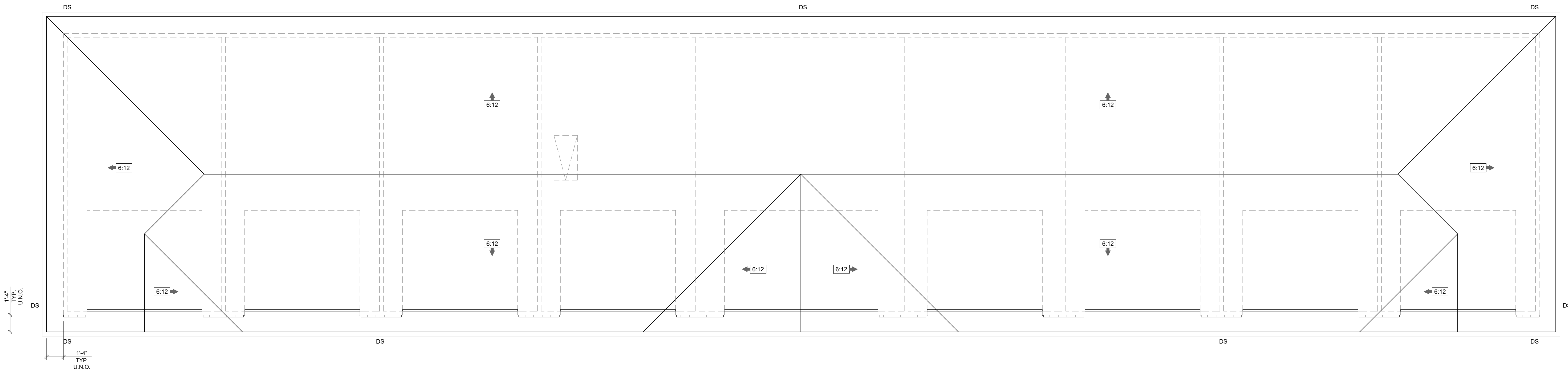
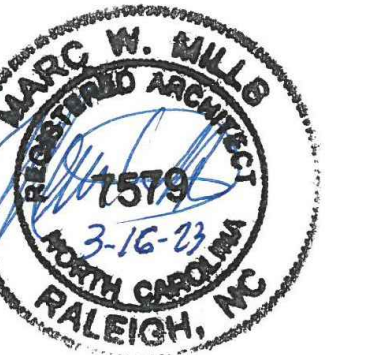


Fairway Point Garage Building

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Gallery Dr, Spring Lake, NC 28390

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Roof Ventilation	
A Ceiling area (square footage)	2910
B Sqft. of ventilation required	19.4
Formulas: B = A / 150	
Notes: Builder to calculate quantities and types of vents to make up the minimum requirement. Attic ventilation shall be approximately 50% soffit, and 50% high (gable end or ridge vents).	

**1 GARAGE TYPE 1 - ROOF PLAN**  
SCALE: 1/4" = 1'-0"

PROGRESS DATE:	03-16-23
ISSUE DATE:	
REVISIONS:	
NUMBER	DATE
INITIALS	DESCRIPTION

PROJECT NO: 001123

DRAWN BY: AT

CHECKED BY: RW, MM

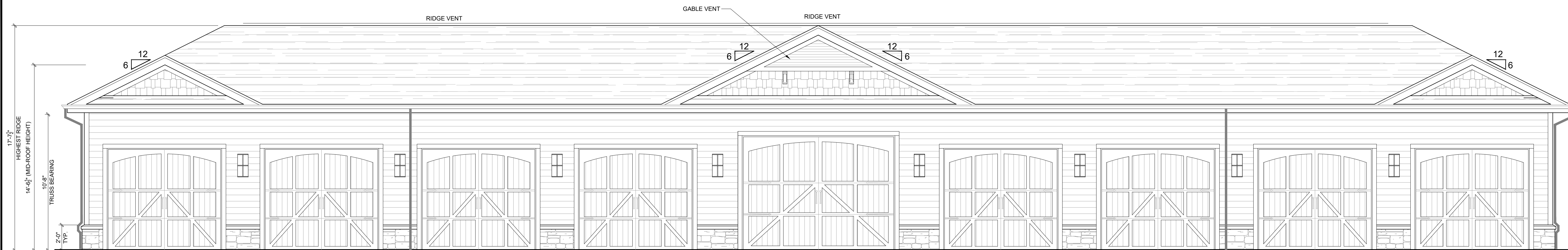
SHEET TITLE:  
**Garage Type 1 Roof Plan**

SHEET NUMBER:

**A101**

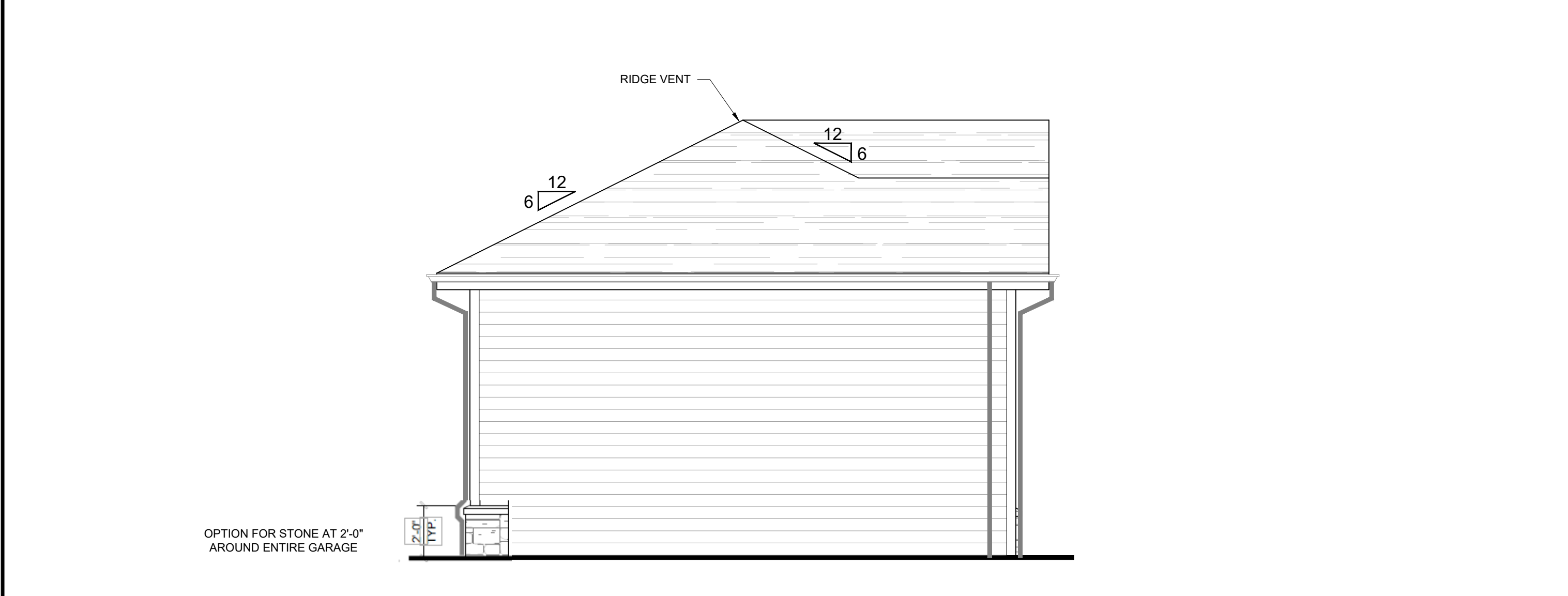
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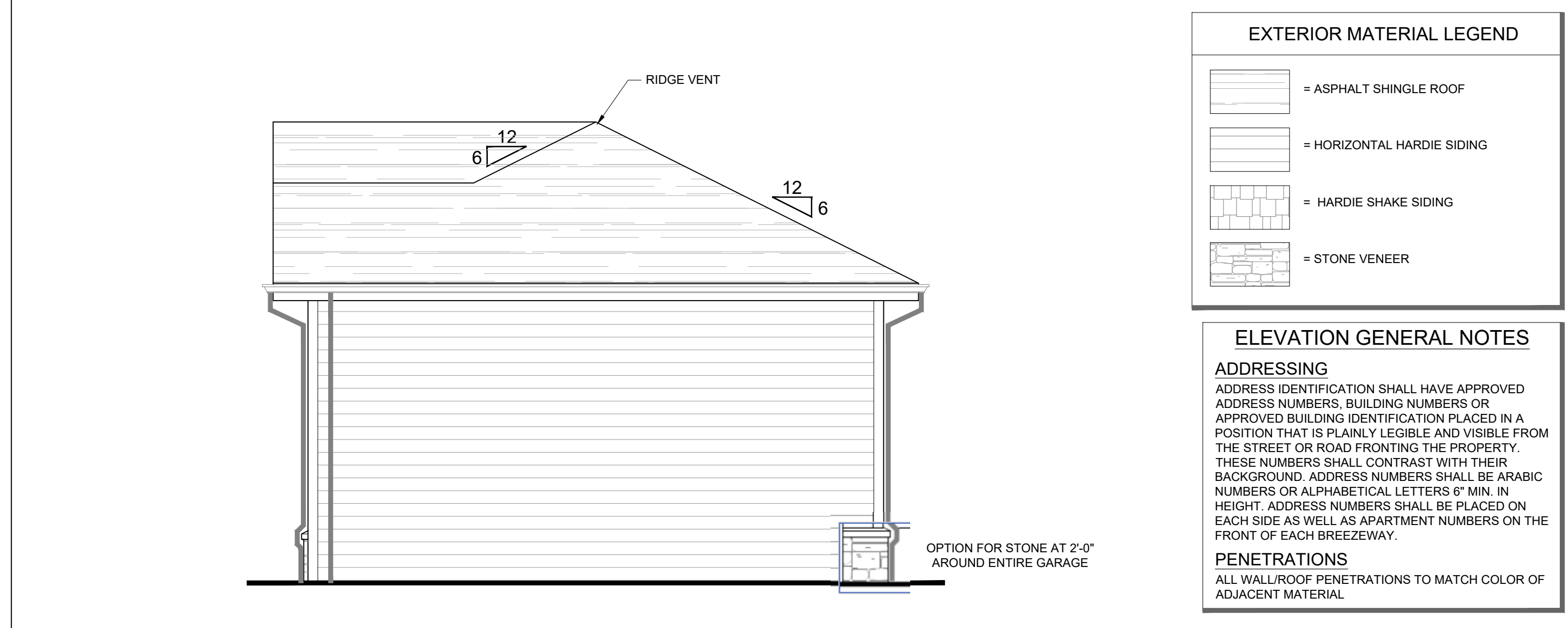


VAN ACCESSIBLE BAY SEE FLOOR PLAN FOR DOOR HEIGHTS (TYP.)

**1** GARAGE TYPE 1 - FRONT ELEVATION  
SCALE: 1/4" = 1'-0"



**2** GARAGE TYPE 1 - LEFT SIDE ELEVATION  
SCALE: 1/4" = 1'-0"



**3** GARAGE TYPE 1 - RIGHT SIDE ELEVATION  
SCALE: 1/4" = 1'-0"

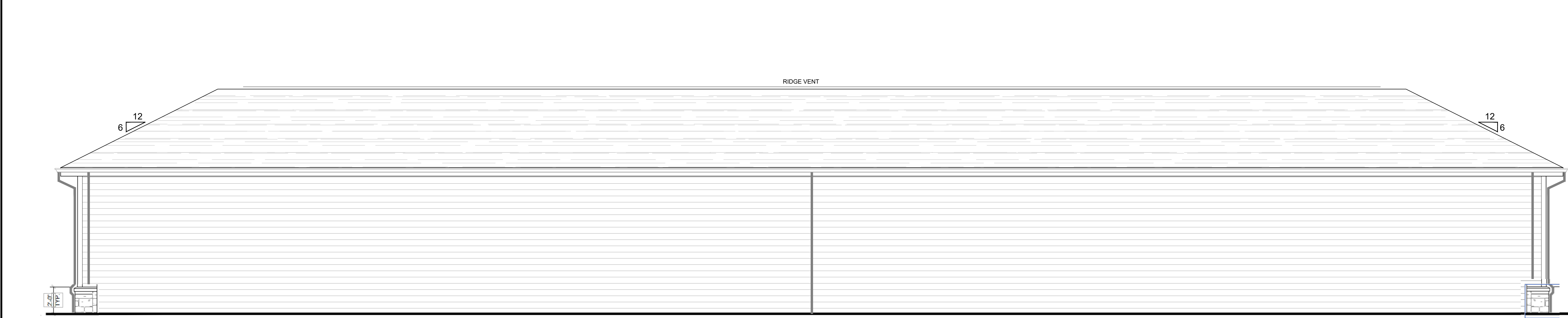
**EXTERIOR MATERIAL LEGEND**

- = ASPHALT SHINGLE ROOF
- = HORIZONTAL HARDIE SIDING
- = HARDIE SHAKE SIDING
- = STONE VENEER

**ELEVATION GENERAL NOTES**

**ADDRESSING**  
ADDRESS IDENTIFICATION SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. ADDRESS NUMBERS SHALL BE ARABIC NUMBERS OR ALPHABETICAL LETTERS 6" MIN. IN HEIGHT. ADDRESS NUMBERS SHALL BE PLACED ON EACH SIDE AS WELL AS APARTMENT NUMBERS ON THE FRONT OF EACH BREEZEWAY.

**PENETRATIONS**  
ALL WALL/ROOF PENETRATIONS TO MATCH COLOR OF ADJACENT MATERIAL.



**4** GARAGE TYPE 1 - REAR ELEVATION  
SCALE: 1/4" = 1'-0"

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RALEIGH NC 27609  
website www.planworx.com

Fairway Point Garage Building  
 H&H Constructors, Inc.  
 Gallery Dr, Spring Lake, NC 28390  
 Issued For Permit Review

PROGRESS DATE:	03-16-23		
ISSUE DATE:			
REVISIONS:			
NUMBER	DATE	INITIALS	DESCRIPTION

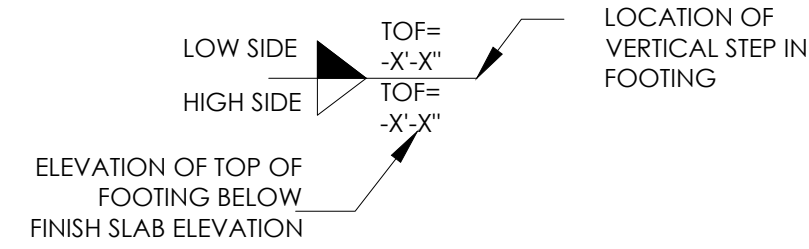
PROJECT NO: 001123  
 DRAWN BY: AT  
 CHECKED BY: RW, MM  
 SHEET TITLE: Garage Type 1 Elevations

SHEET NUMBER: **A102**

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**FOUNDATION NOTES:**

1. PROVIDE 4" THICK CONCRETE SLAB ON GRADE REINFORCED WITH WWF 6x6 W1.4-W1.4, OVER 6 MIL POLY VAPOR BARRIER. SLAB MAY BE PLACED DIRECTLY OVER COMPACTED SUBGRADE OR OVER 4" POROUS BASE, REFER TO GEOTECHNICAL REPORT RECOMMENDATIONS.
2. ALL DIMENSIONS REFERENCED TO EDGE OF SLAB, EDGE OF THICKENED SLAB. VERIFY DIMENSIONS PRIOR TO CONSTRUCTION.
3. SEE ARCH. DWGS. FOR DIMENSIONS NOT SHOWN.
4. REFER TO ARCH. DWGS. FOR LOCATIONS OF RECESSED OR SLOPED SLAB AREAS. PROVIDE POSITIVE DRAINAGE.
5. SEE DETAIL 6/S301 FOR SLAB CONTROL JOINTS (CJ). ALTERNATE LAYOUT PLANS MAY BE SUBMITTED FOR APPROVAL.
6. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
7. SEE FOOTING SCHEDULE/SECTIONS FOR SIZES AND REINFORCING.
8. SEE STUD SCHEDULE FOR MEMBER SIZES
9. INTERIOR FOOTING DIMENSIONS SHOULD NOT BE USED TO LOCATE INTERIOR WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL INTERIOR WALL DIMENSIONS.
10. "HD" INDICATED LOCATIONS OF HOLDDOWNS. REFER TO HOLD DOWN SCHEDULE FOR MORE INFORMATION. HOLDDOWNS HAVE BEEN DESIGNED TO RESIST OVERTURNING MOMENTS FROM SEISMIC AND WIND LOADS. ANY SUBSTITUTIONS MUST BE APPROVED BY THE EOR.
11. PREPARE SUBGRADE PER GEOTECHNICAL REPORT RECOMMENDATIONS.



**SHEAR WALL SCHEDULE**

EXTERIOR WALLS	INTERIOR DEMISING WALLS
7/16" APA RATED OSB SHEATHING, <b>BLOCK ALL UNSUPPORTED EDGES WITH 2x4 BLOCKS</b> . PROVIDE MIN 8d'S AT 6" O.C. AT ALL EDGES AND 12" O.C. AT FIELD	GYP-BOARD NAILED TO ALL FRAMING MEMBER AT 7" O.C. MAX. HORIZONTAL BLOCKS ARE NOT REQUIRED.

**STUD SCHEDULE**

SUPPORTING	EXTERIOR WALLS	INTERIOR NON BEARING WALLS
ROOF	(1) 2x4 @ 16" O.C.	(1) 2x4 @ 16" O.C.

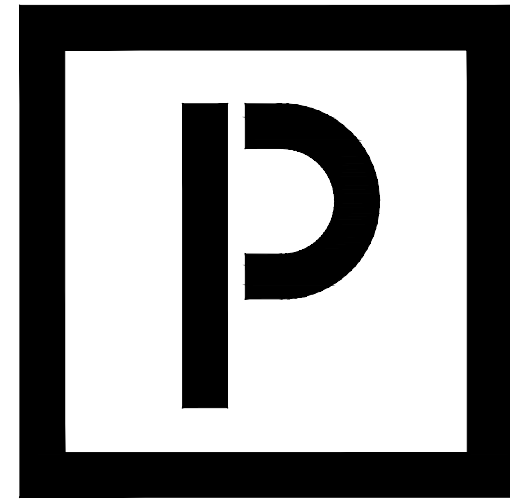
**HOLDDOWN SCHEDULE (HD)**

LOCATION	EXTERIOR WALLS
FOUNDATION	(1) SIMPSON HT4 TIE (2) STUDS TO FOUNDATION, DRILL AND EPOXY 5/8" THREADED ROD (7" EMBED)

1. HOLDDOWNS INDICATED IN TABLE SHALL BE USED AT ALL "HD" LOCATIONS ON THE PLANS.

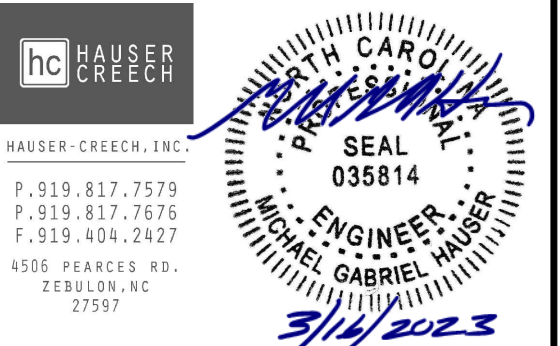
**ABBREVIATIONS:**

- |        |                        |
|--------|------------------------|
| COL.   | COLUMN                 |
| EX.    | EXISTING               |
| S.O.G. | SLAB ON GRADE          |
| T.O.S. | TOP OF STEEL           |
| T.O.P. | TOP OF PARAPET         |
| T.O.M. | TOP OF MASONRY         |
| O.C.   | ON CENTERS SPACING     |
| T-B    | TOP AND BOTTOM         |
| F.F.E. | FINISH FLOOR ELEVATION |
| TYP.   | TYPICAL                |
| DEMO.  | DEMOLITION             |
| CONT.  | CONTINUOUS             |
| CMU    | CONCRETE MASONRY UNIT  |
| STD.   | STANDARD               |
| XS.    | EXTRA STRONG           |
| XXS.   | DOUBLE EXTRA STRING    |
| GALV.  | GALVANIZED             |
| HD     | HOLDDOWN               |
| WWF    | WIRE WELDED FABRIC     |
| RT     | ROOF TRUSS             |
| GT     | GIRDER TRUSS           |
| FLRT   | FLOOR TRUSS            |



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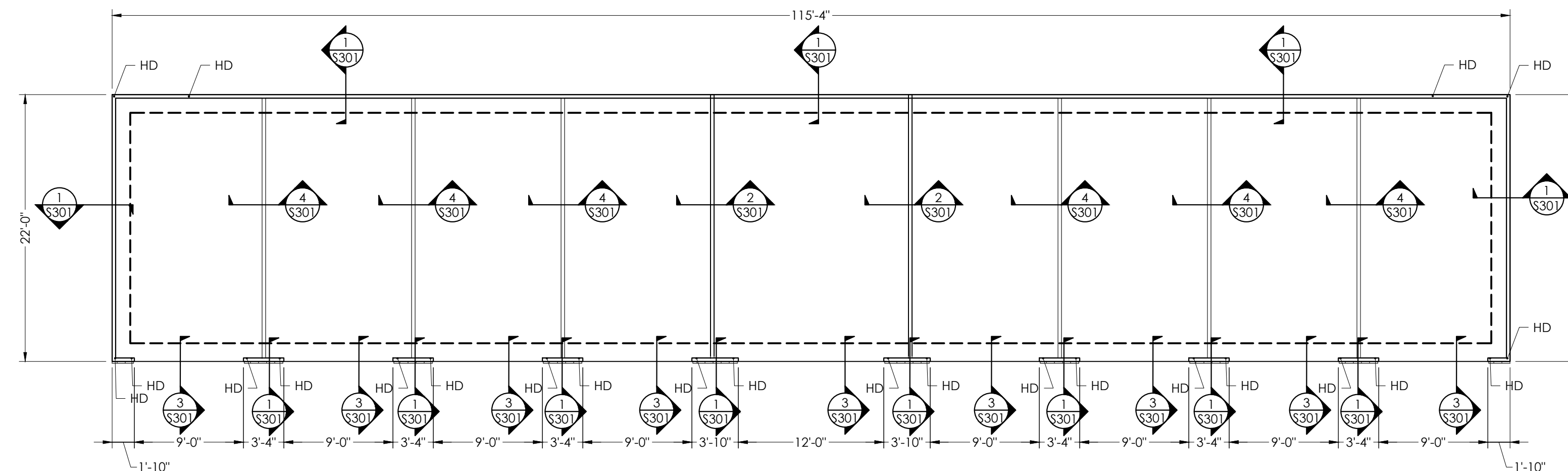


Fairway Point Garage Building

H&H Constructors, Inc.

Gallery Dr, Spring Lake, NC 28390

Issued For Permit Review



**Garage Building Foundation Plan**

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

PROGRESS DATE: 03.16.2023

PROJECT NO: 001123

DRAWN BY: RA

CHECKED BY: MGH

SHEET TITLE:  
Garage Building  
Foundation Plan

SHEET NUMBER:

**S101**

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**ROOF FRAMING NOTES:**

- ALL TRUSS SPACING IS AT 2'-0" O.C. UNLESS NOTED OTHERWISE. SPACE TRUSSES AT ATTIC ACCESS DOORS TO ALLOW FOR PROPER INSTALLATION.
- TRUSS FABRICATOR SHALL VERIFY ALL DIMENSIONS, LAYOUTS AND COORDINATE WITH BEARING WALL AND BEAM LOCATIONS. ALTERNATE LAYOUT PLANS MAY BE SUBMITTED FOR APPROVAL.
- THE CONTRACTOR MUST VERIFY THAT ALL LATERAL BRACING REQUIRED FOR TRUSS WEBS IS INSTALLED PER THE TRUSS SHOP DRAWINGS.
- REFER TO FOUNDATION PLAN FOR DIMENSIONS AND TO ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN.
- ALL TRUSS TO TRUSS CONNECTIONS SHALL BE SPECIFIED BY THE TRUSS DESIGNER AND SHALL BE CLEARLY INDICATED ON THE TRUSS SHOP DRAWINGS.
- ROOF SHEATHING SHALL BE 7/16" OSB APA RATED, EXPOSURE 1 WITH "H" CLIPS AT UNSUPPORTED EDGES BETWEEN TRUSSES. SEE DETAIL 1/S401 OR 2/S401 FOR ROOF DECK NAILING PATTERN.
- VERIFY LOCATION AND AMOUNTS OF ALL HEADERS.
- PRE-FABRICATED TRUSS OVER-BUILD FRAMING, ROOF SHEATHING SHALL BE CONTINUOUS BENEATH TRUSS OVERBUILD. PROVIDE ATTACHMENT OF OVERBUILD FRAMING TO ROOF SHEATHING AND TRUSSES BELOW ACCORDING TO TRUSS MANUFACTURER. SEE 12/S402
- SEE DETAIL 6/S401 FOR TOP PLATE SPLICE DETAIL.
- SEE DETAILS 3/S401 AND 4/S401 FOR PERMANENT ROOF TRUSS BRACING.
- PROVIDE MIN. (3) 2X STUDS BELOW ALL GIRDER TRUSS BEARING POINTS PROVIDE LGT TIE DOWN (U.N.O). SEE DETAIL 9/S402, PROVIDE HT4 HOLDOWN AT FOUNDATION.
- ANY TRUSS TIE DOWN SUBSTITUTIONS MUST BE APPROVED BY THE EOR
- PROVIDE DRAG TRUSS ALIGNED WITH EACH DEMISING WALL. NAIL TRUSS AT ROOF SHEATHING AT 6" O.C. OVER ENTIRE LENGTH OF TRUSS. DESIGN TRUSS TO TRANSFER 150 PLF LATERAL LOAD FROM TOP CHORD TO BOTTOM CHORD. LATERAL LOAD IS RESISTED OVER ENTIRE LENGTH OF SHEAR WALL.

**ABBREVIATIONS:**

- |        |                        |
|--------|------------------------|
| COL.   | COLUMN                 |
| EX.    | EXISTING               |
| S.O.G. | SLAB ON GRADE          |
| T.O.S. | TOP OF STEEL           |
| T.O.P. | TOP OF PARAPET         |
| I.O.M. | TOP OF MASONRY         |
| O.C.   | ON CENTERS SPACING     |
| T+B    | TOP AND BOTTOM         |
| F.F.E. | FINISH FLOOR ELEVATION |
| TYP.   | TYPICAL                |
| DEMO.  | DEMOLITION             |
| CONT.  | CONTINUOUS             |
| CMU    | CONCRETE MASONRY UNIT  |
| STD.   | STANDARD               |
| XS.    | EXTRA STRONG           |
| XXS.   | DOUBLE EXTRA STRING    |
| GALV.  | GALVANIZED             |
| HD     | HOLDDOWN               |
| WWF    | WIRE WELDED FABRIC     |
| RT     | ROOF TRUSS             |
| GT     | GIRDER TRUSS           |
| FLRT   | FLOOR TRUSS            |

**SHEAR WALL SCHEDULE**

EXTERIOR WALLS	INTERIOR DEMISING WALLS
7/16" APA RATED OSB SHEATHING. <b>BLOCK ALL UNSUPPORTED EDGES WITH 2x4 BLOCKS.</b> PROVIDE MIN 8d'S AT 6" O.C. AT ALL EDGES AND 12" O.C. AT FIELD	GYP-BOARD NAILED TO ALL FRAMING MEMBER AT 7" O.C. MAX. HORIZONTAL BLOCKS ARE NOT REQUIRED.

**HEADER SCHEDULE**

TYPE	SIZE	NOTES	SUPPORT
H1	(2) 1 3/4"x9 1/4" LVL	Fb = 2800 PSI, E= 2.0	(2) JACK + (2) KING

**HOLDOWN SCHEDULE (HD)**

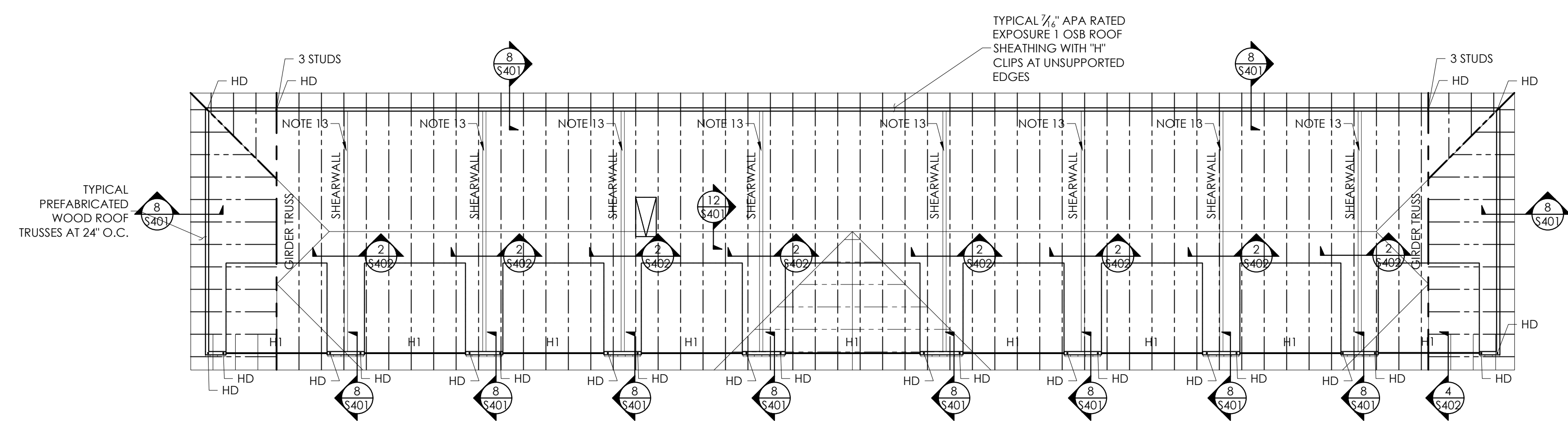
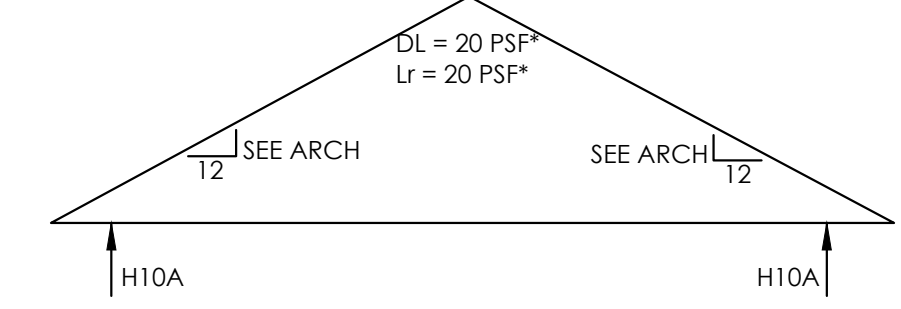
LOCATION	EXTERIOR WALLS
FOUNDATION	(1) SIMPSON HT4 TIE (2) STUDS TO FOUNDATION, DRILL AND EPOXY 5/8" THREADED ROD (7" EMBED)

1. HOLDDOWNS INDICATED IN TABLE SHALL BE USED AT ALL "HD" LOCATIONS ON THE PLANS.

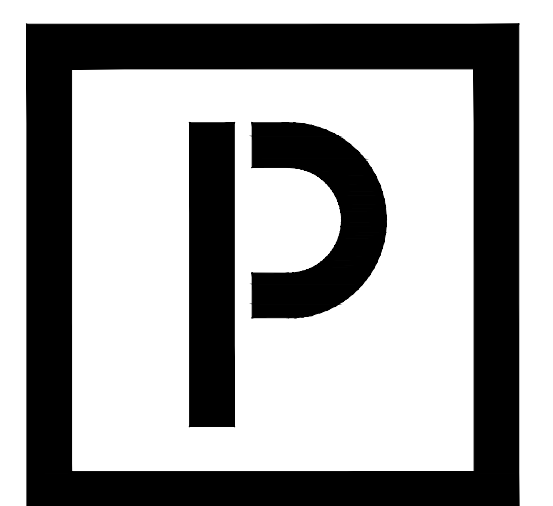
**STUD SCHEDULE**

SUPPORTING	EXTERIOR WALLS	INTERIOR NON BEARING WALLS
ROOF	(1) 2x4 @ 16" O.C.	(1) 2x4 @ 16" O.C.

**ROOF TRUSS PROFILES**

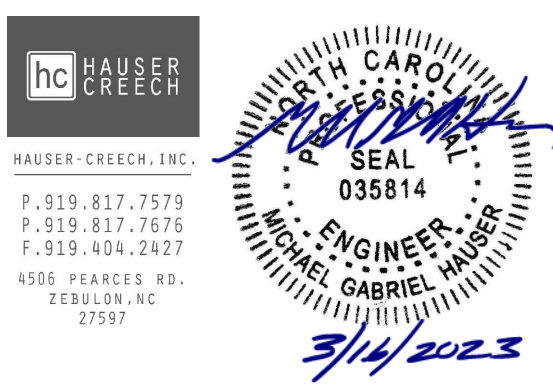


**Garage Building Roof Framing Plan**  
SCALE: 1/8"=1'-0"



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website www.planworx.com



Fairway Point Garage Building  
H&H Constructors, Inc.  
Gallery Dr, Spring Lake, NC 28390  
Issued For Permit Review

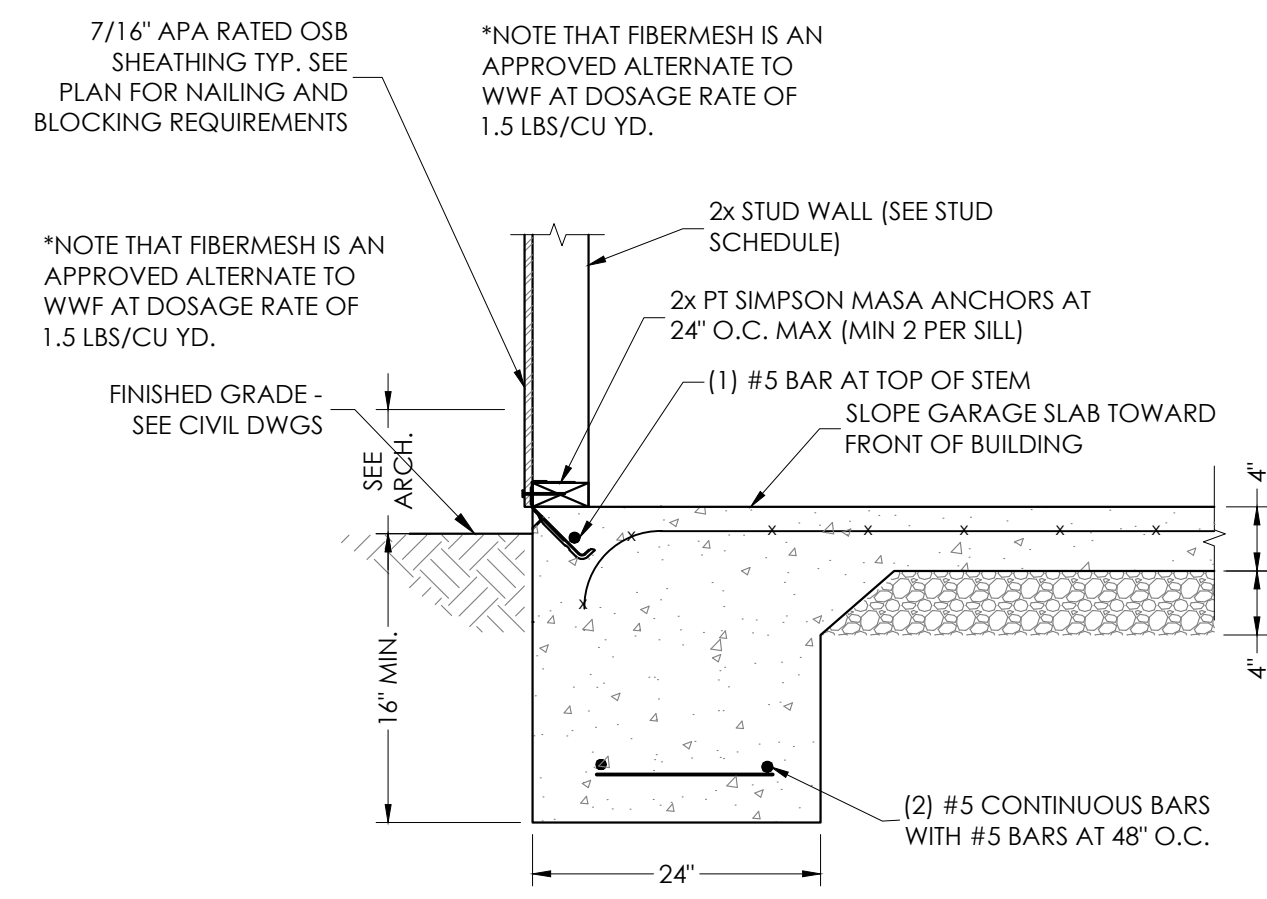
PROGRESS DATE:	03.16.2023
ISSUE DATE:	
REVISIONS NUMBER	DATE DESCRIPTION
1	

PROJECT NO: 001123  
DRAWN BY: RA  
CHECKED BY: MGH

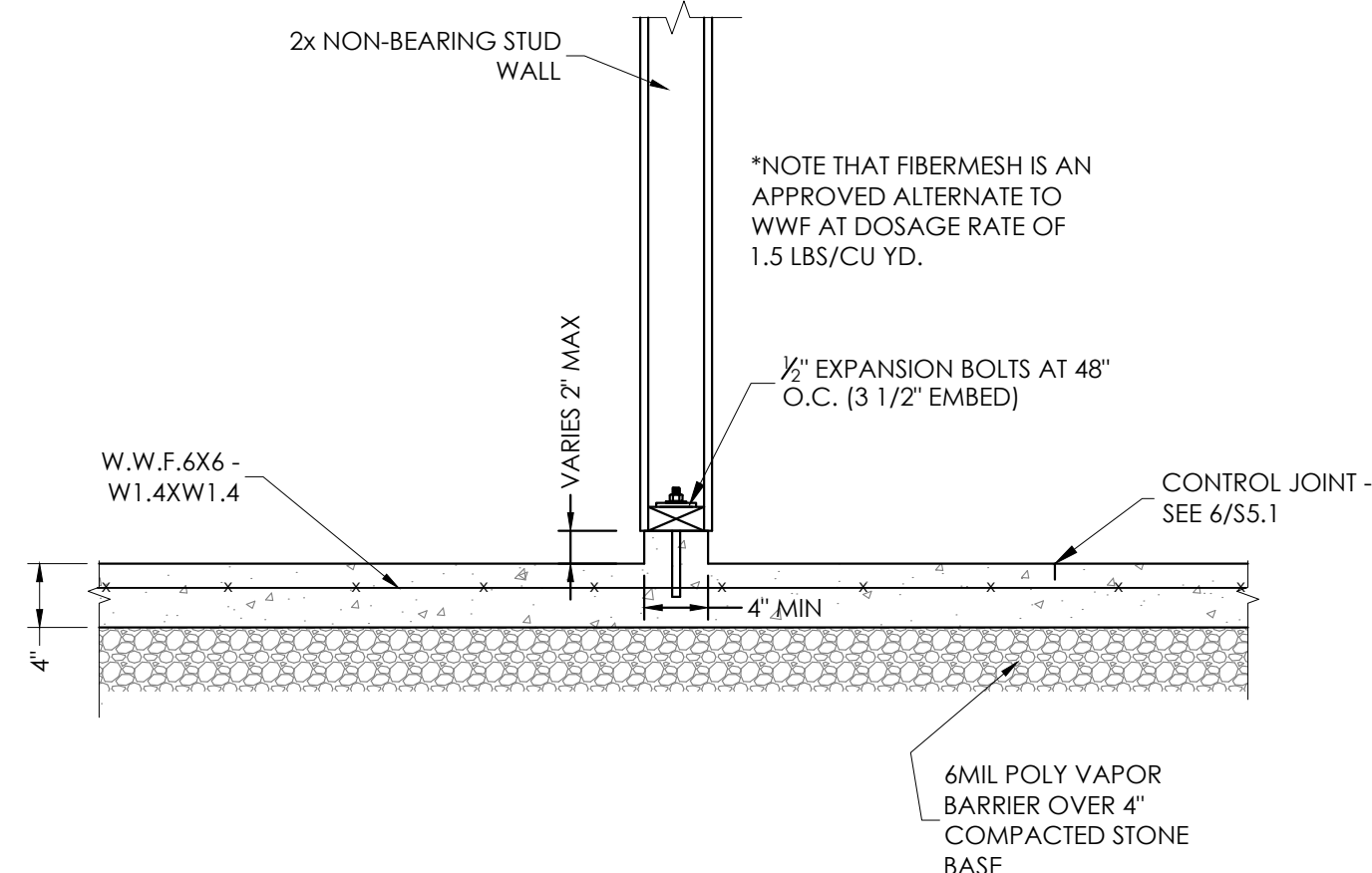
SHEET TITLE:  
Garage Building  
Roof Framing

SHEET NUMBER:  
**S201**

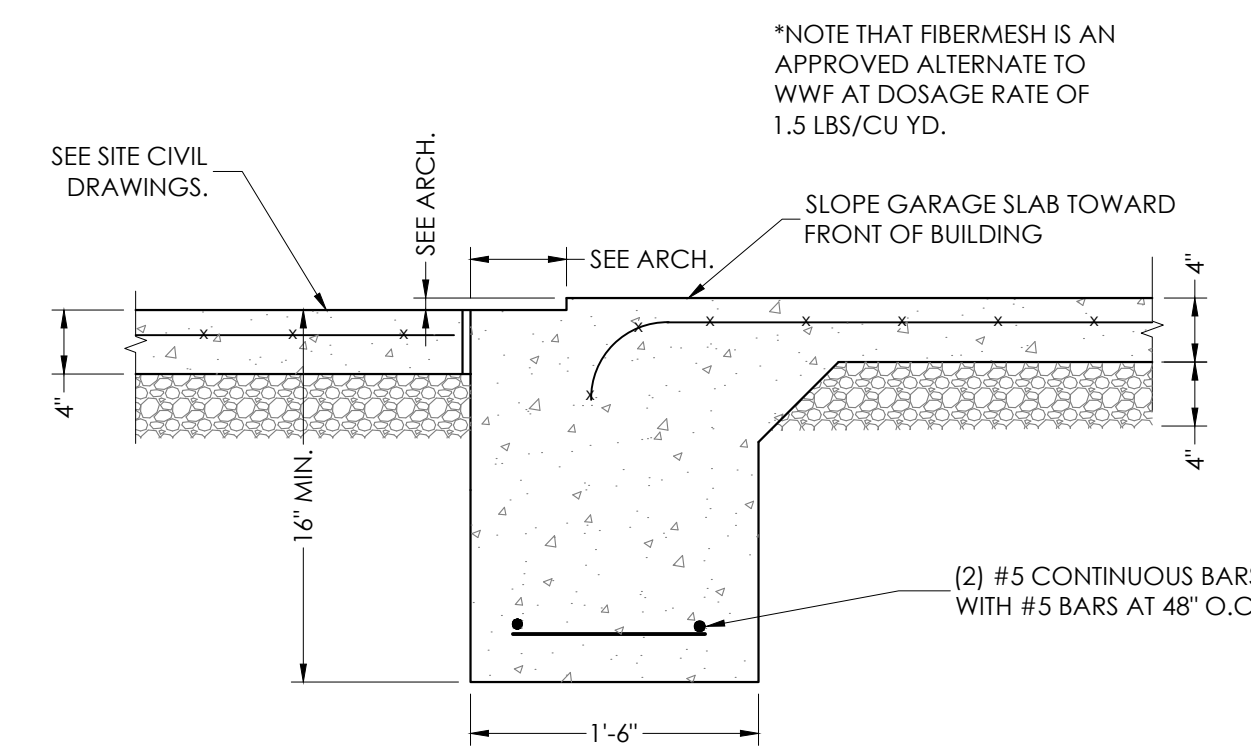
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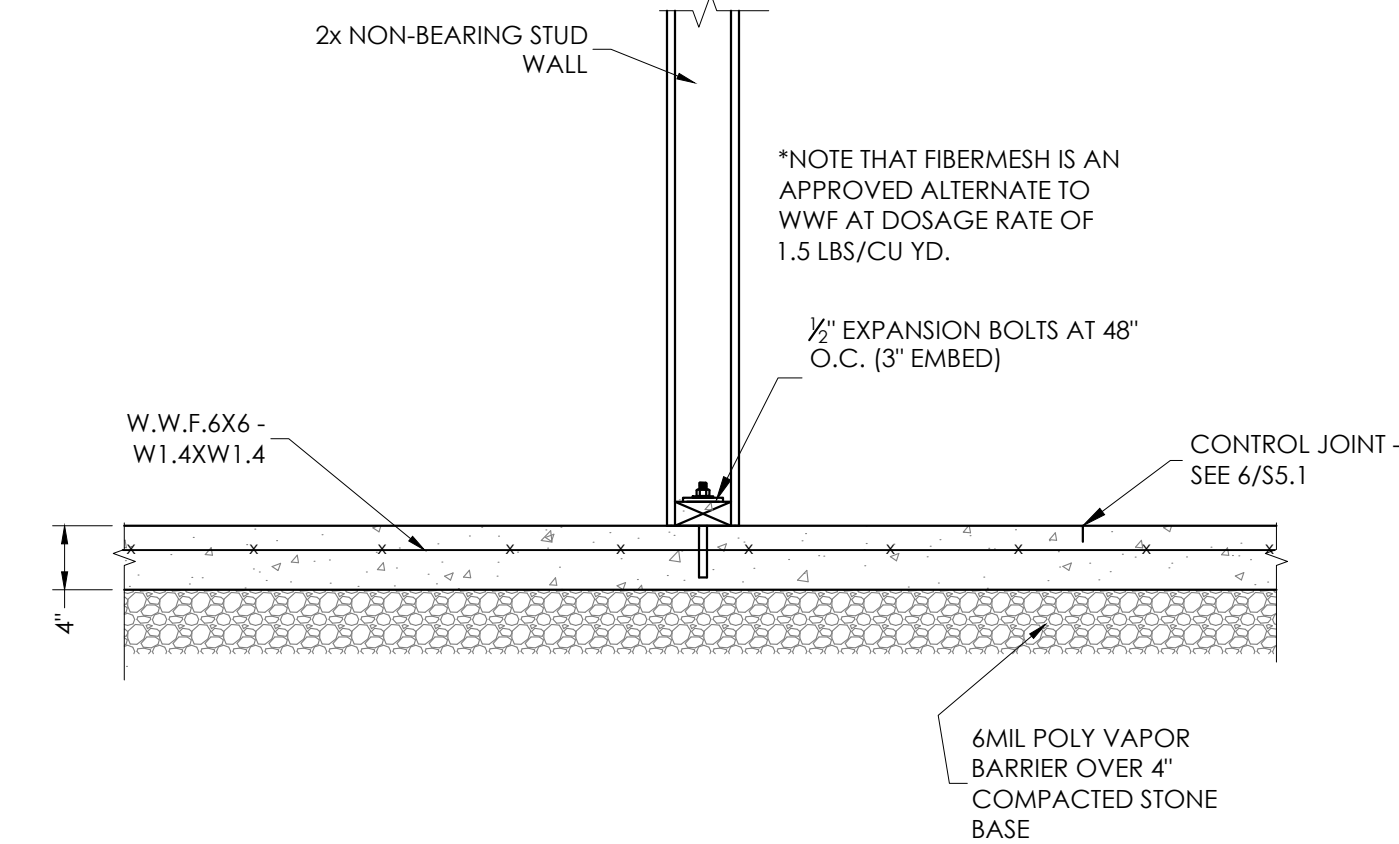
**1 TYP. EXTERIOR WALL SECTION**  
SCALE: NONE



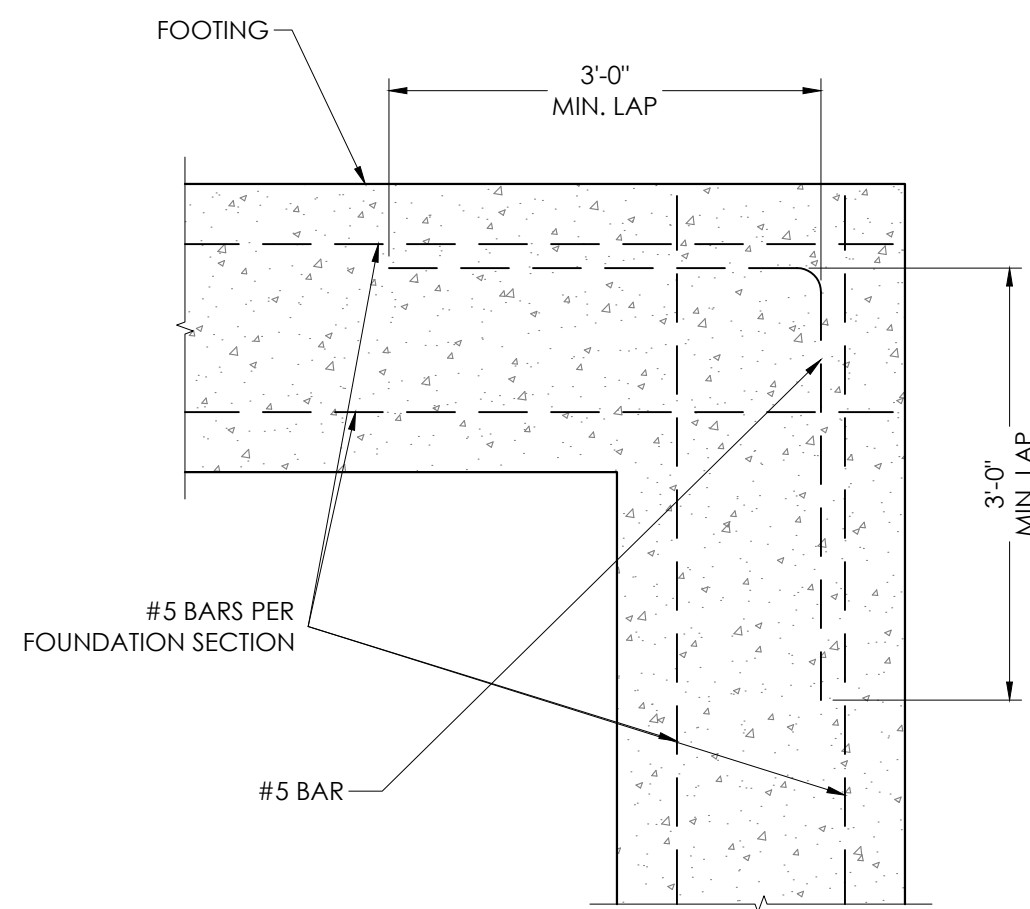
**2 GARAGE STEM WALL AT HANDICAP BAY**  
SCALE: NONE



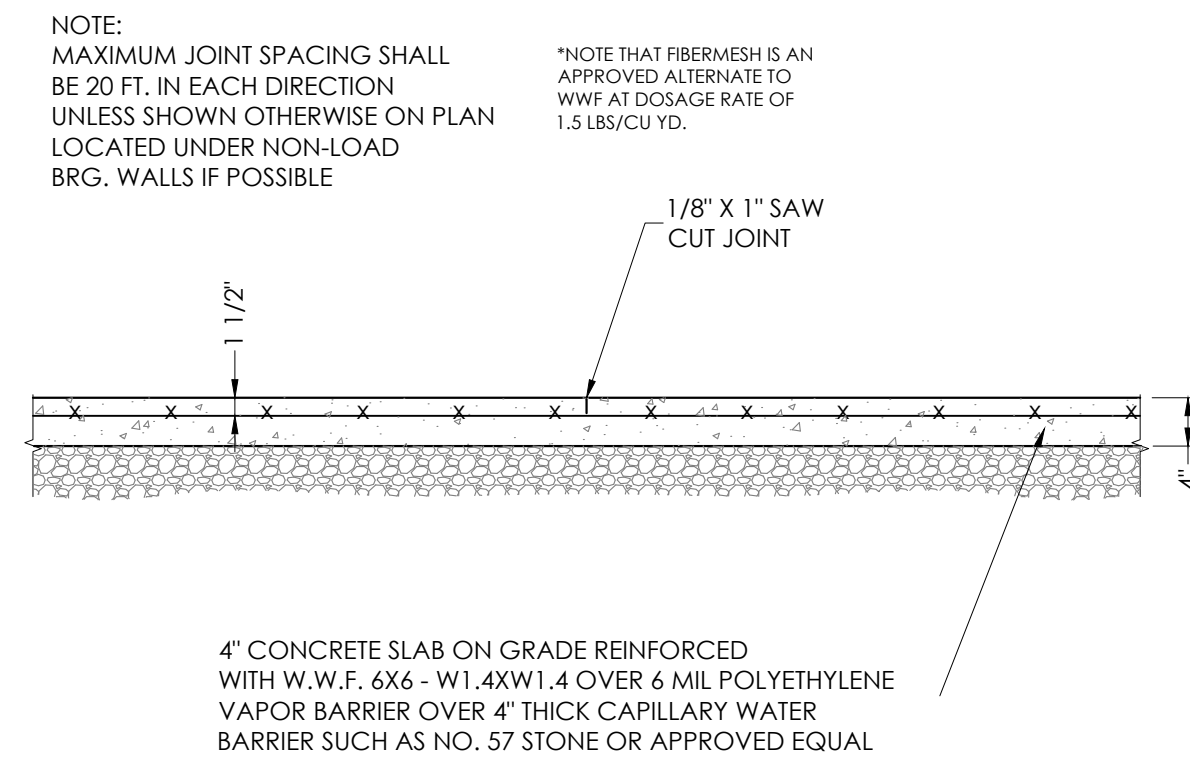
**3 GARAGE DOOR THRESHOLD**  
SCALE: NONE



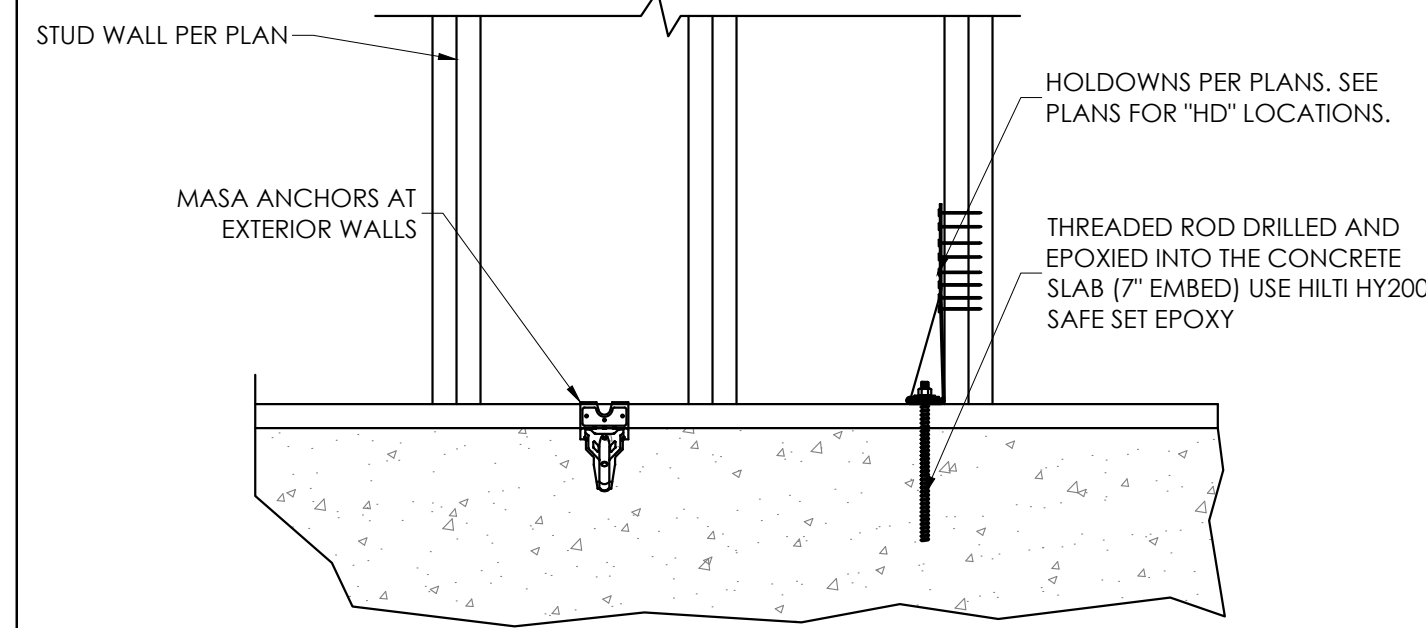
**4 TYPICAL GARAGE DEMISING WALL**  
SCALE: NONE



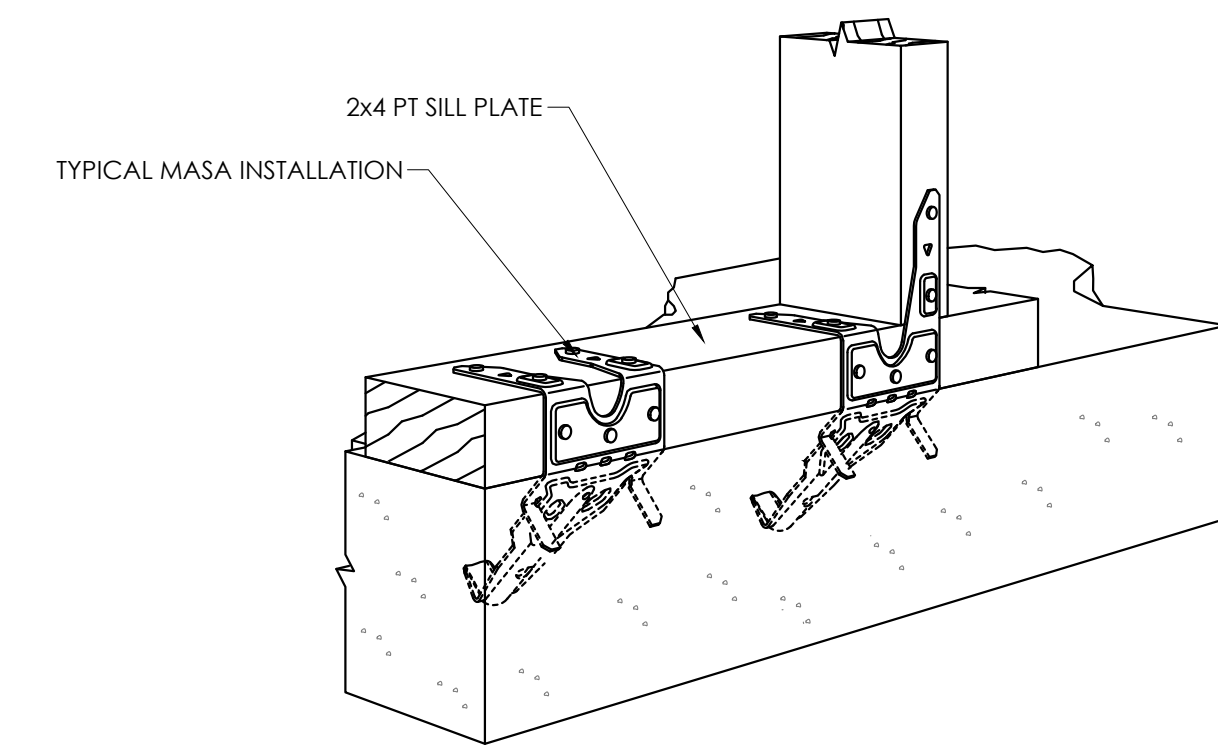
**5 CONTINUITY CORNER DETAIL**  
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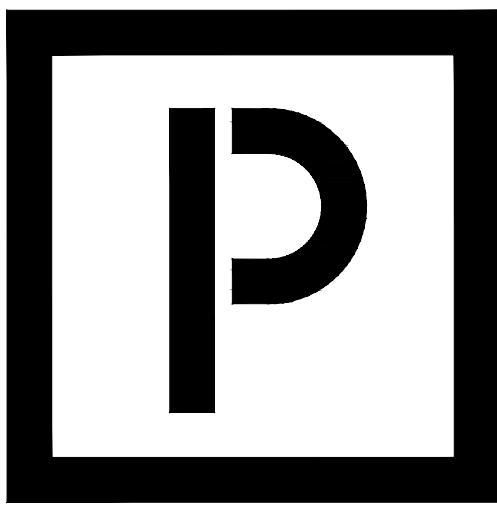
**6 SLAB ON GRADE**  
SCALE: NONE



**7 ELEVATION OF WALL ANCHORAGE**  
SCALE: NONE



**8 PERSPECTIVE OF MASA INSTALLATION**  
SCALE: NONE



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HAUSER-CREECH, INC.  
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4505 PEACOCK RD.  
ZEBULON, NC 27597

Fairway Point Garage Building

H&H Constructors, Inc.

Gallery Dr, Spring Lake, NC 28390

Issued For Permit Review

PROGRESS DATE:	03.16.2023
ISSUE DATE:	
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DATE:	
INITIALS:	
DESCRIPTION:	

PROJECT NO: 001123

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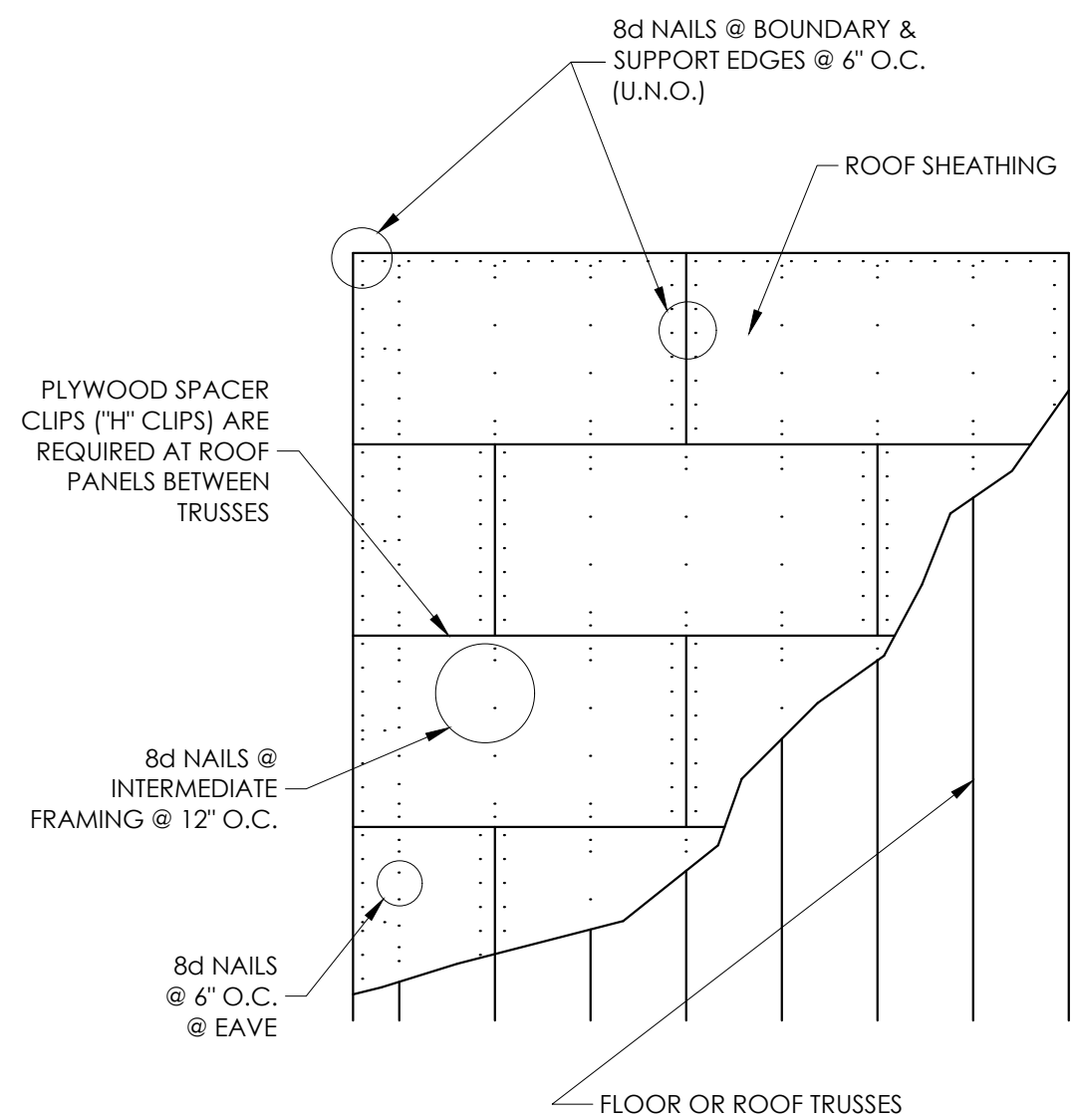
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Foundation Details

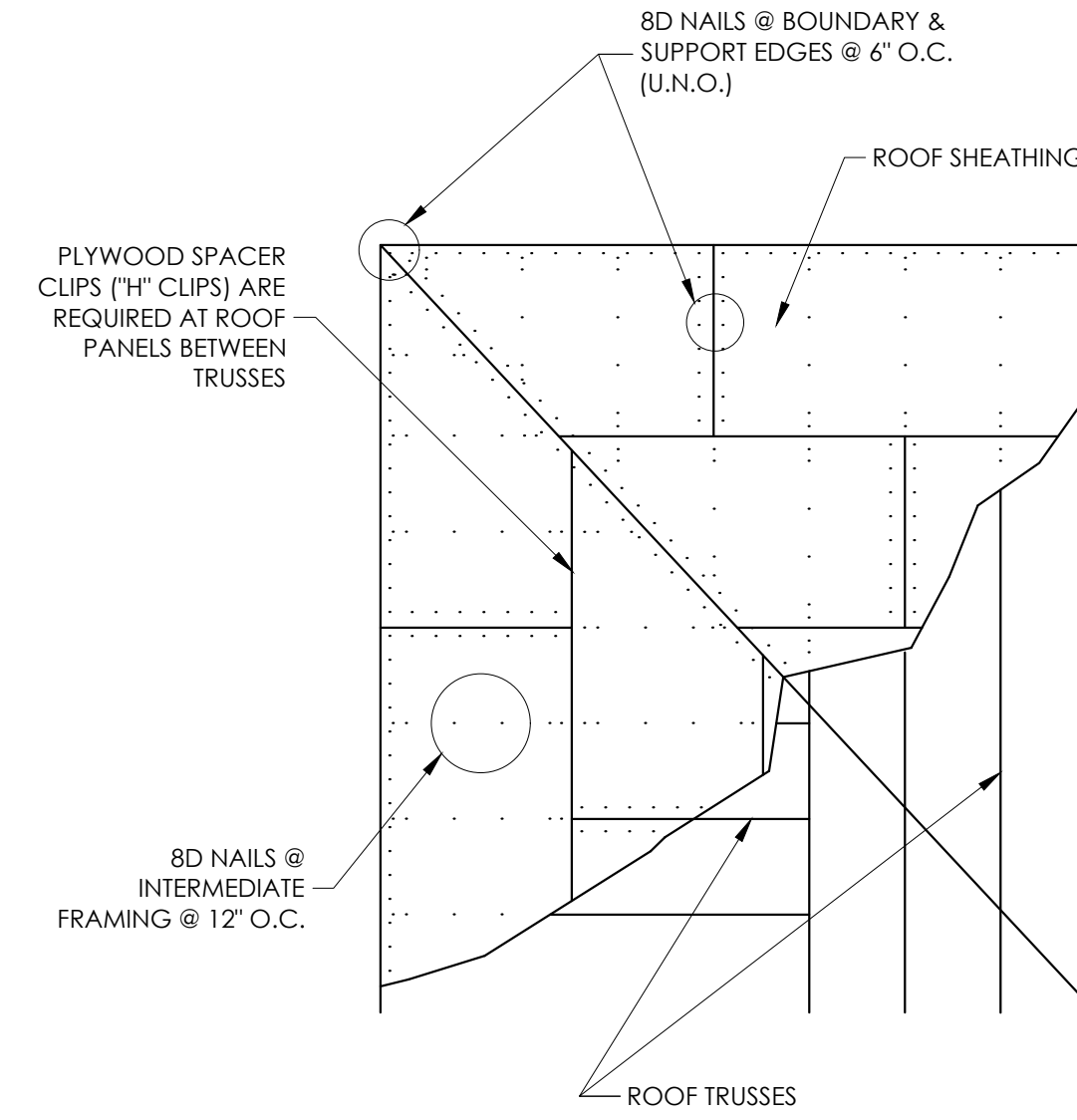
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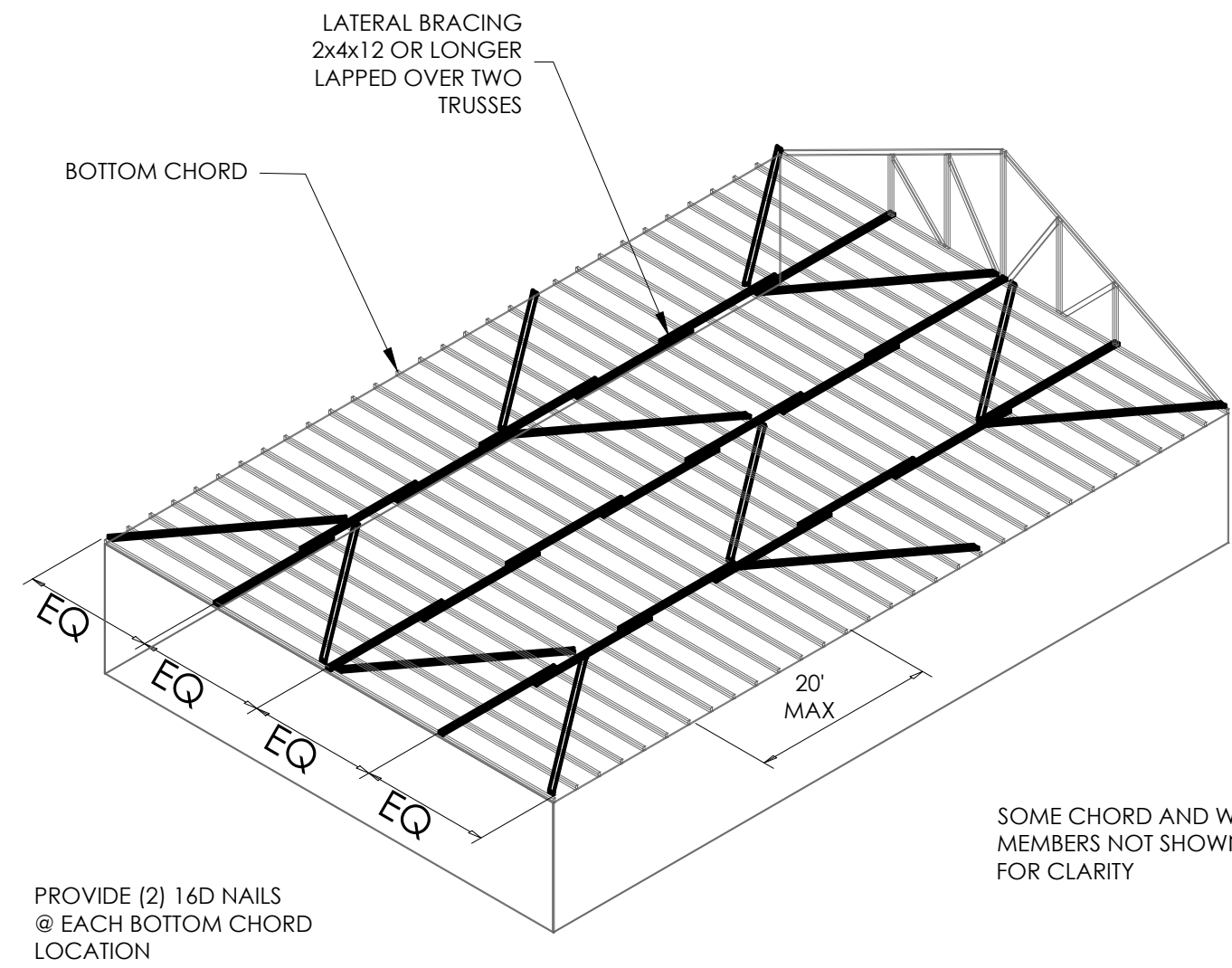
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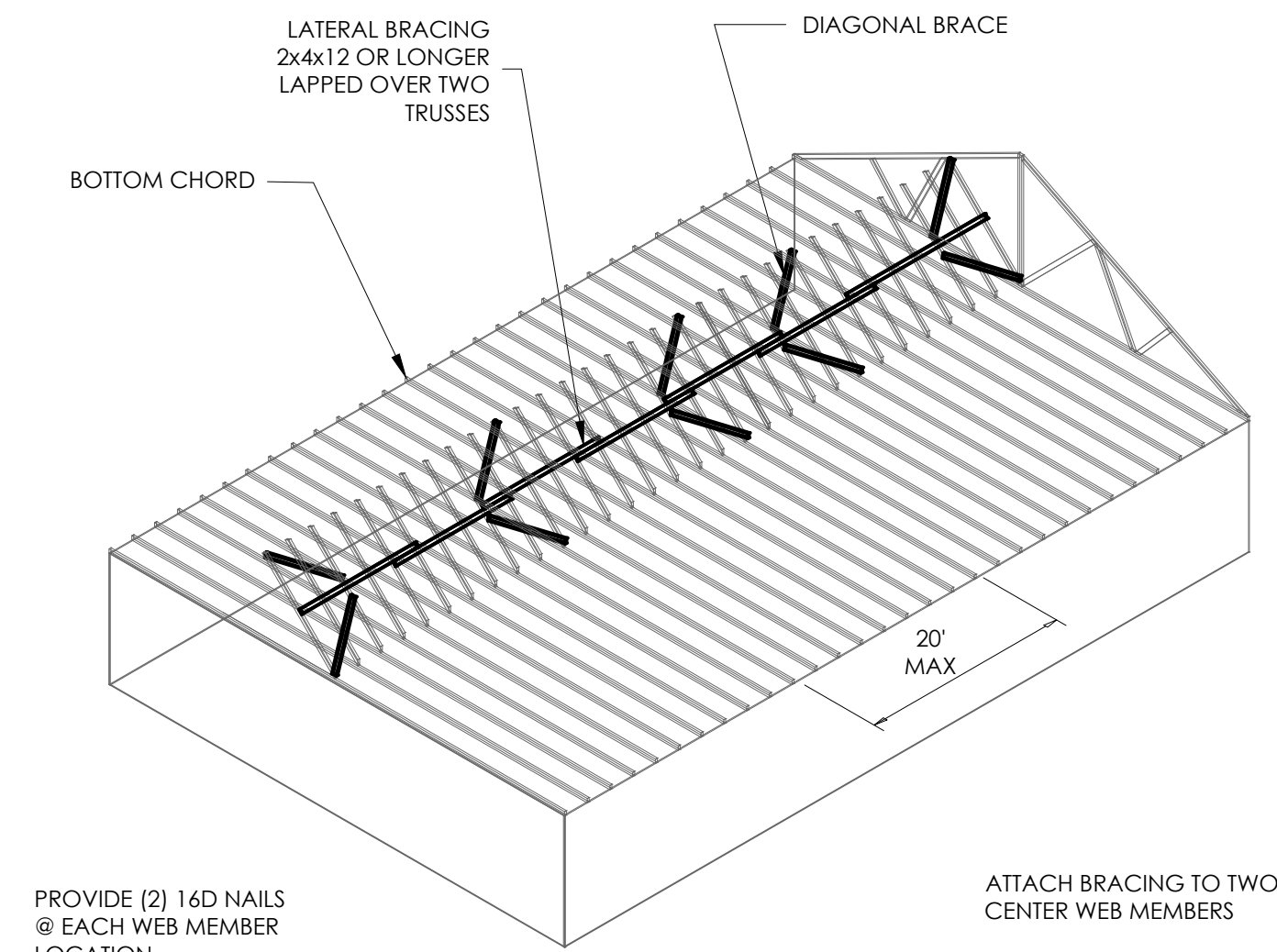
**1 FLOOR DECK AND ROOF DECK NAILING PATTERNS**  
SCALE: NONE



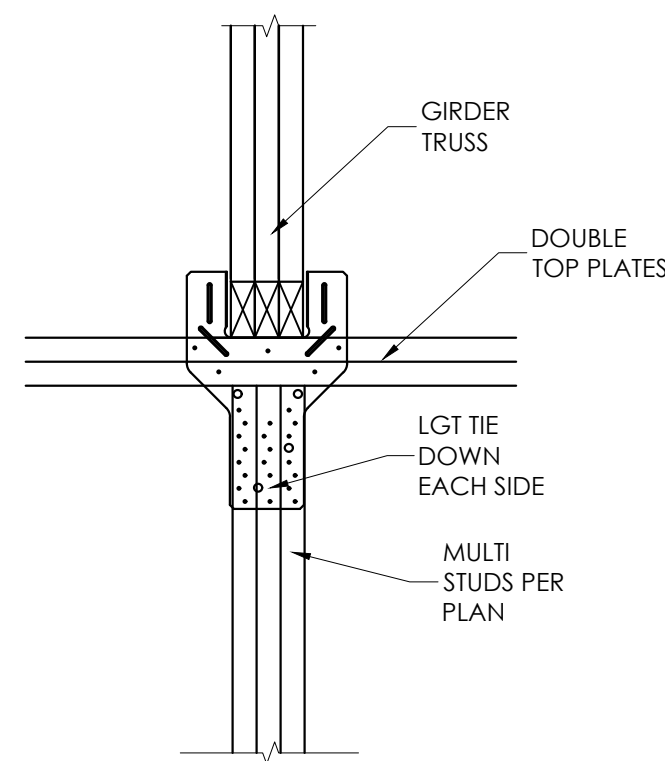
**2 HIP ROOF NAILING PATTERN**  
SCALE: NONE



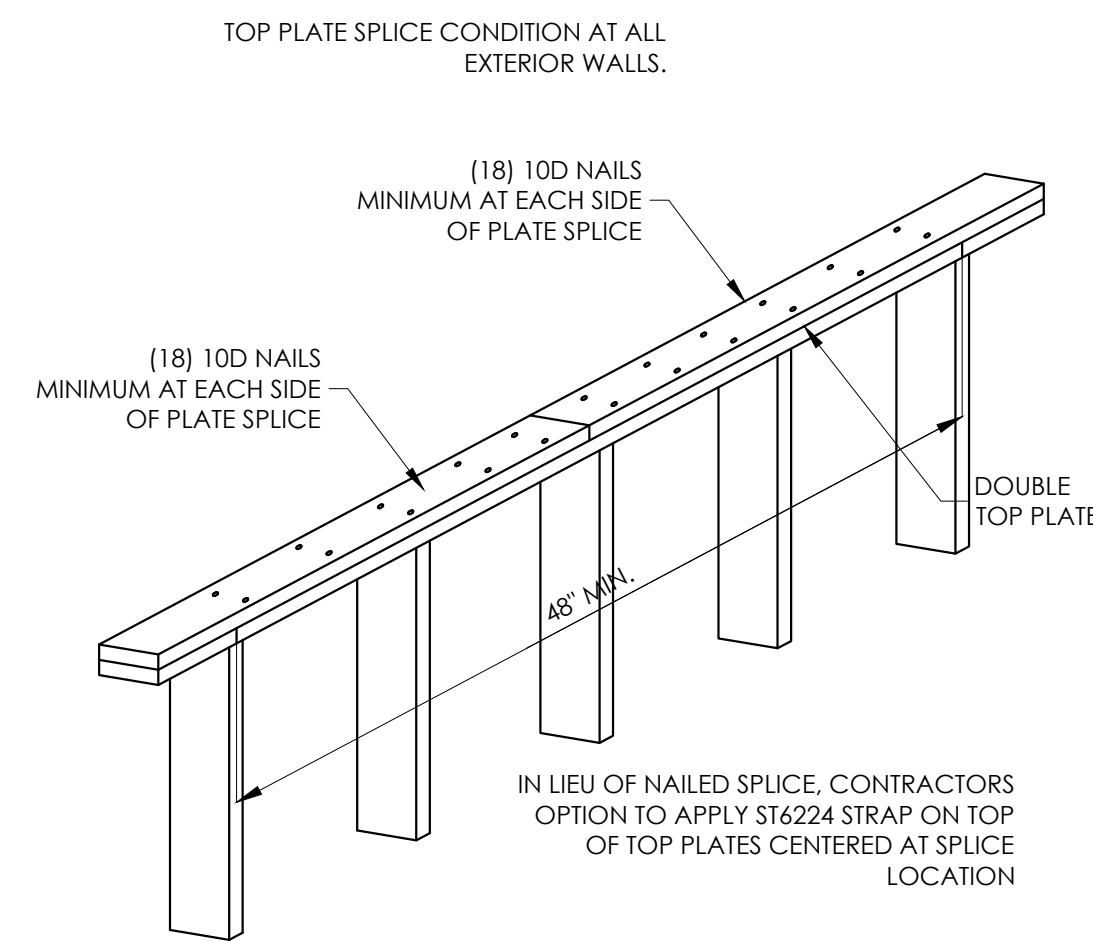
**3 PERMANENT TRUSS BRACING**  
SCALE: NONE



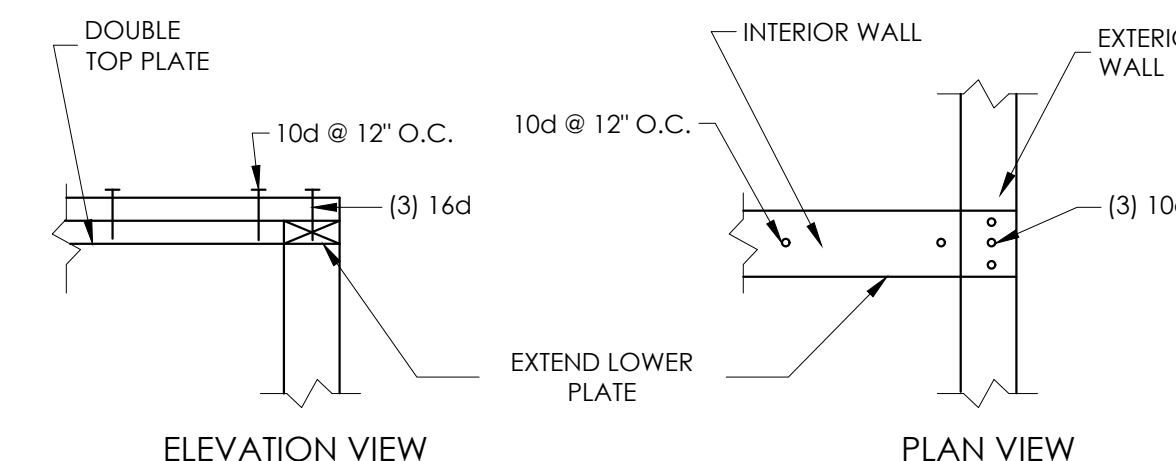
**4 PERMANENT TRUSS BRACING**  
SCALE: NONE



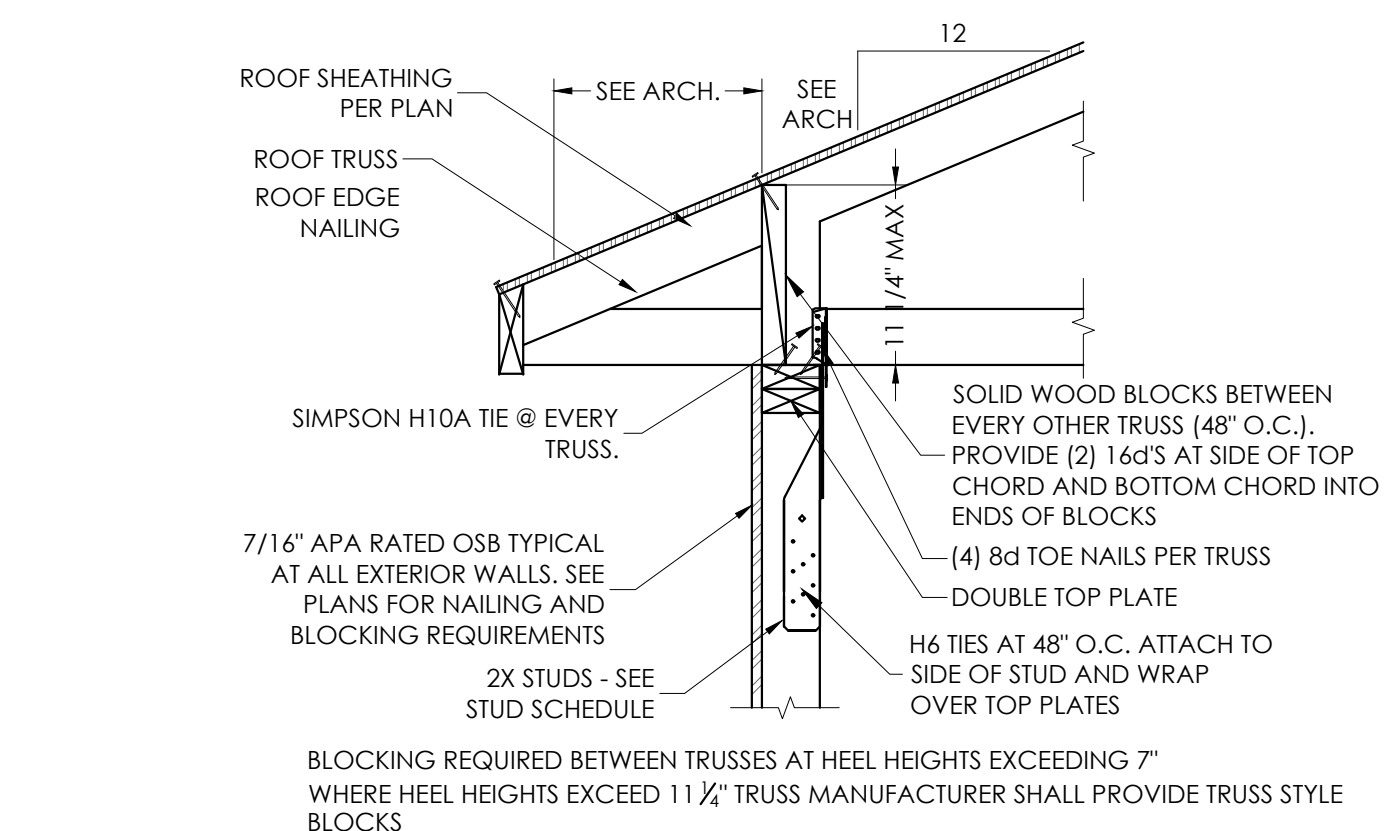
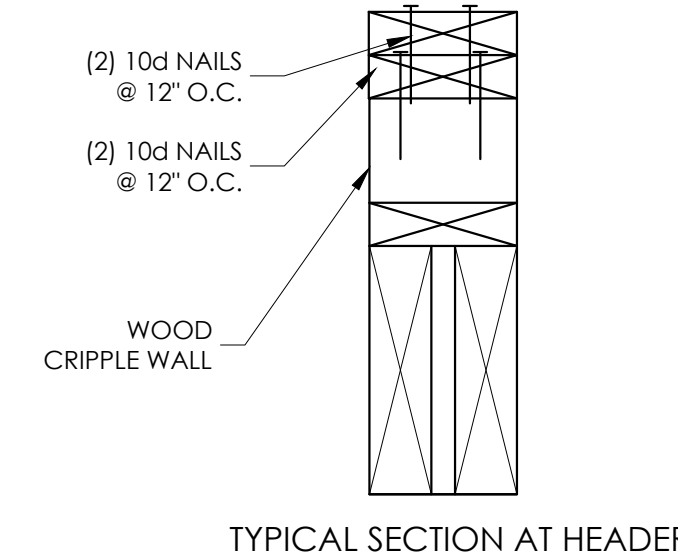
**5 GIRDER TRUSS TIE DOWN**  
SCALE: NONE



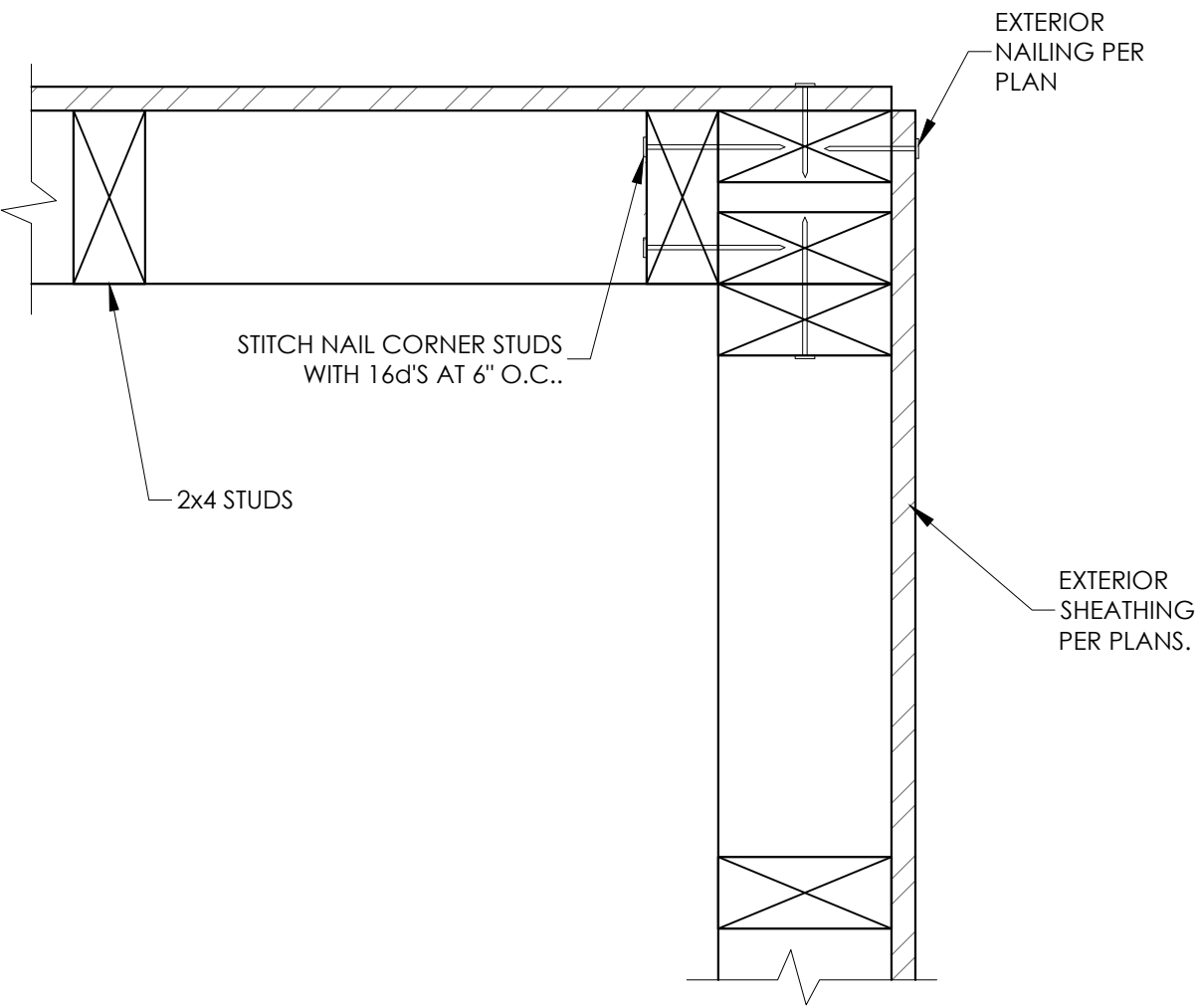
**6 TYPICAL DOUBLE TOP PLATE SPLICE**  
SCALE: NONE



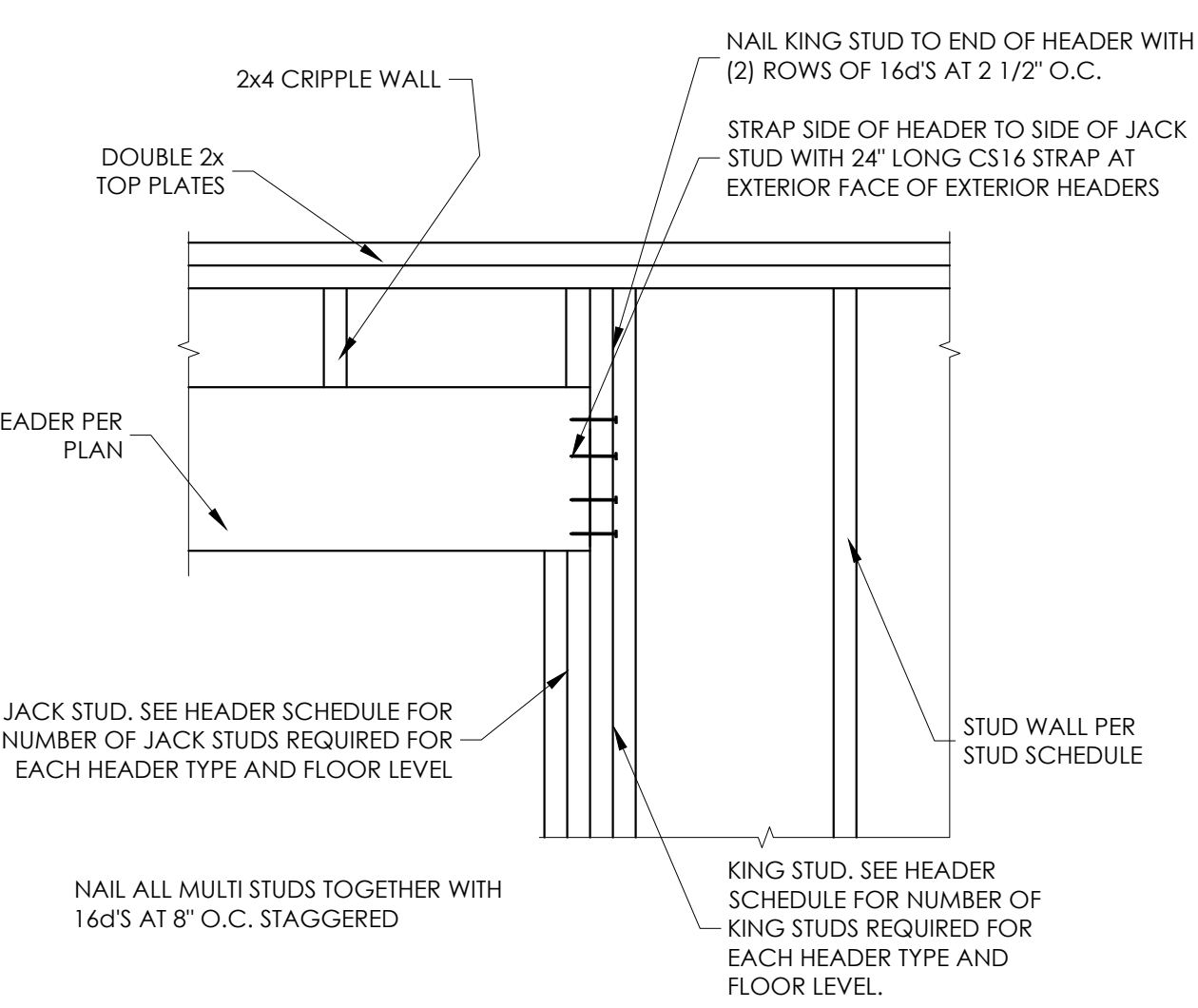
**7 HEADER SECTION**  
SCALE: NONE



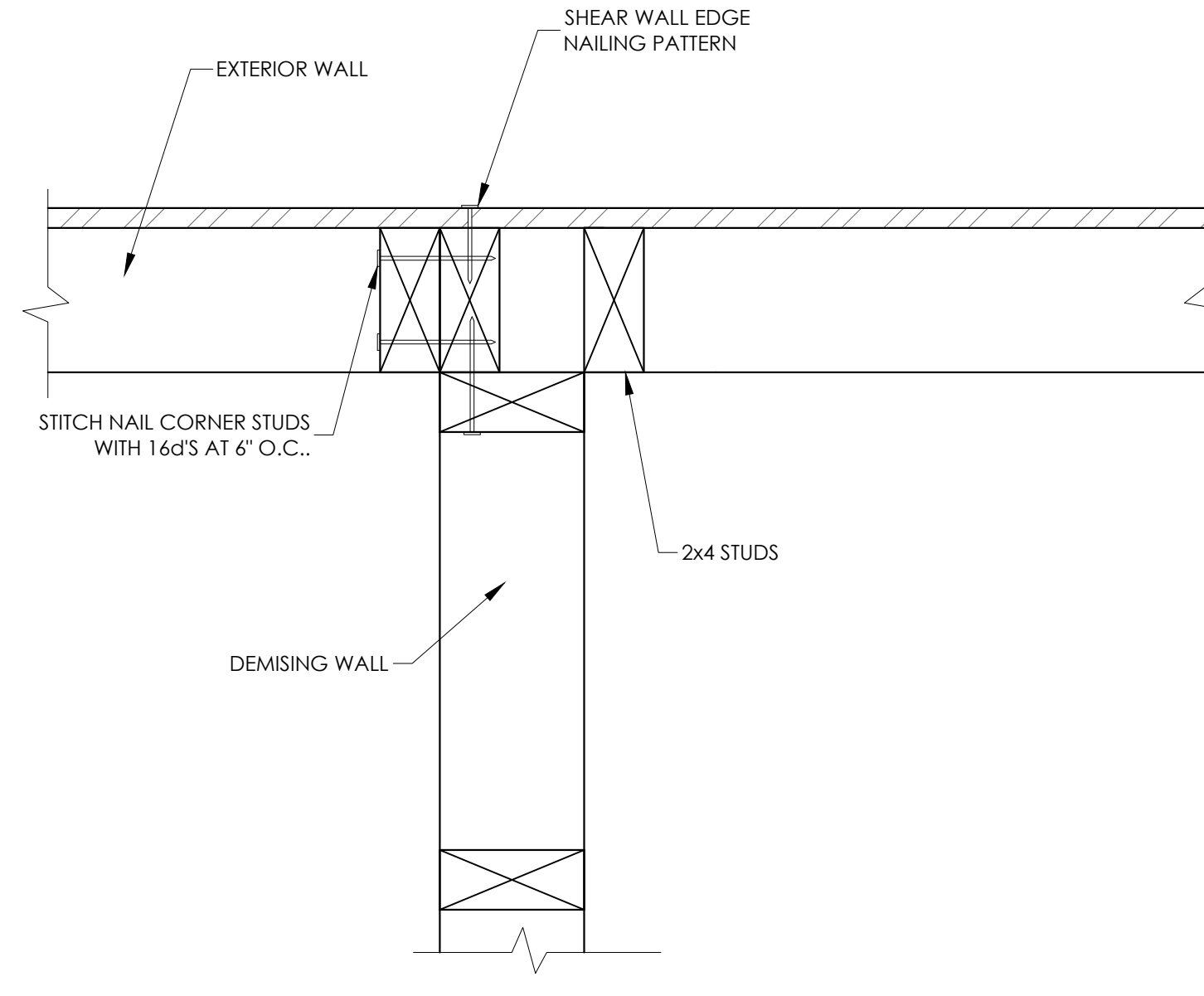
**8 ROOF TRUSS CONNECTION AT EXTERIOR WALL**  
SCALE: NONE



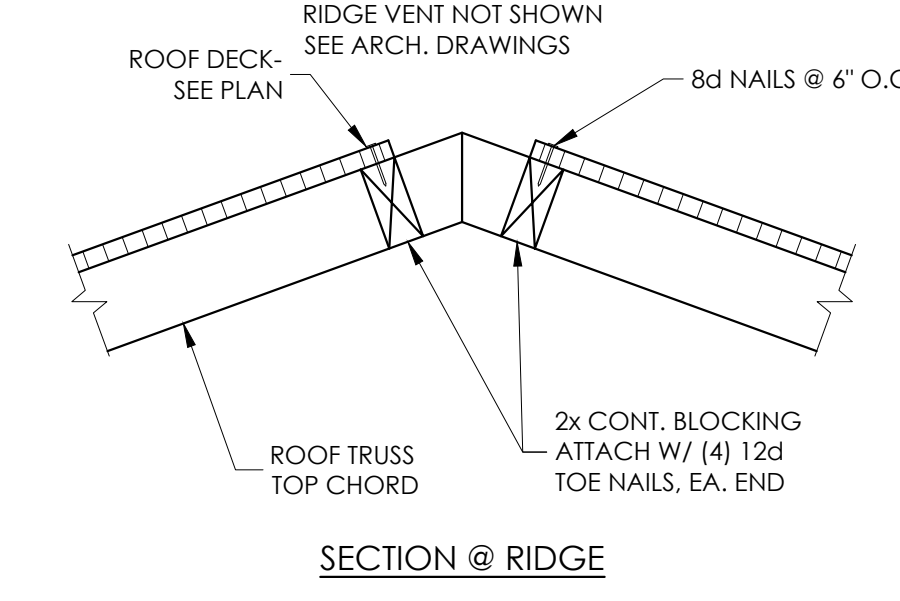
**9 CORNER FRAMING DETAIL**  
SCALE: NONE



**10 HEADER BEARING DETAIL**  
SCALE: NONE



**11 DEMISING WALL TO EXTERIOR WALL**  
SCALE: NONE



**12 RIDGE VENT**  
SCALE: NONE

**PLANWORX ARCHITECTURE**  
5711 SIX FORKS ROAD, SUITE 100  
RALEIGH NC 27609  
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HAUSER-CREECH, INC.  
P. 919. 817. 7579  
F. 919. 817. 7579  
4505 PEARCE RD.  
ZENON, NC 27587  
3/14/2023

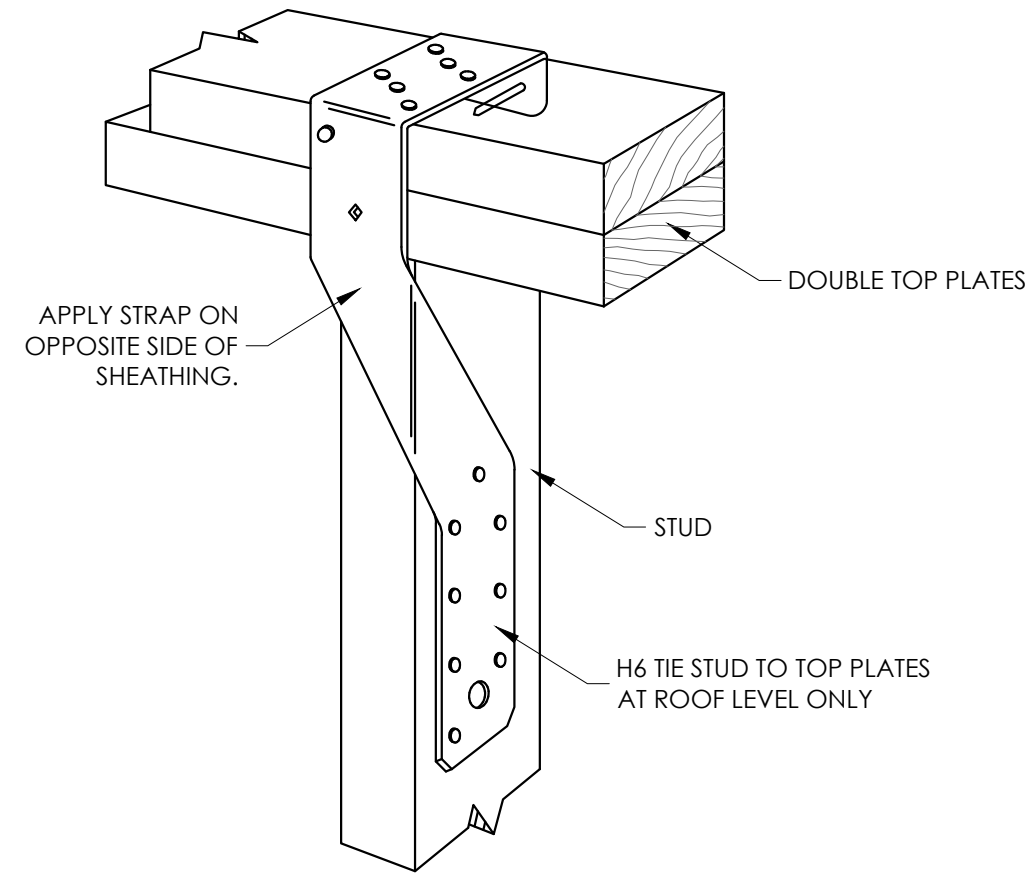
Fairway Point Garage Building  
H&H Constructors, Inc.  
Gallery Dr, Spring Lake, NC 28390  
Issued For Permit Review

PROGRESS DATE:	03.16.2023	
ISSUE DATE:		
REVISIONS NUMBER:		
DATE	INITIALS	DESCRIPTION

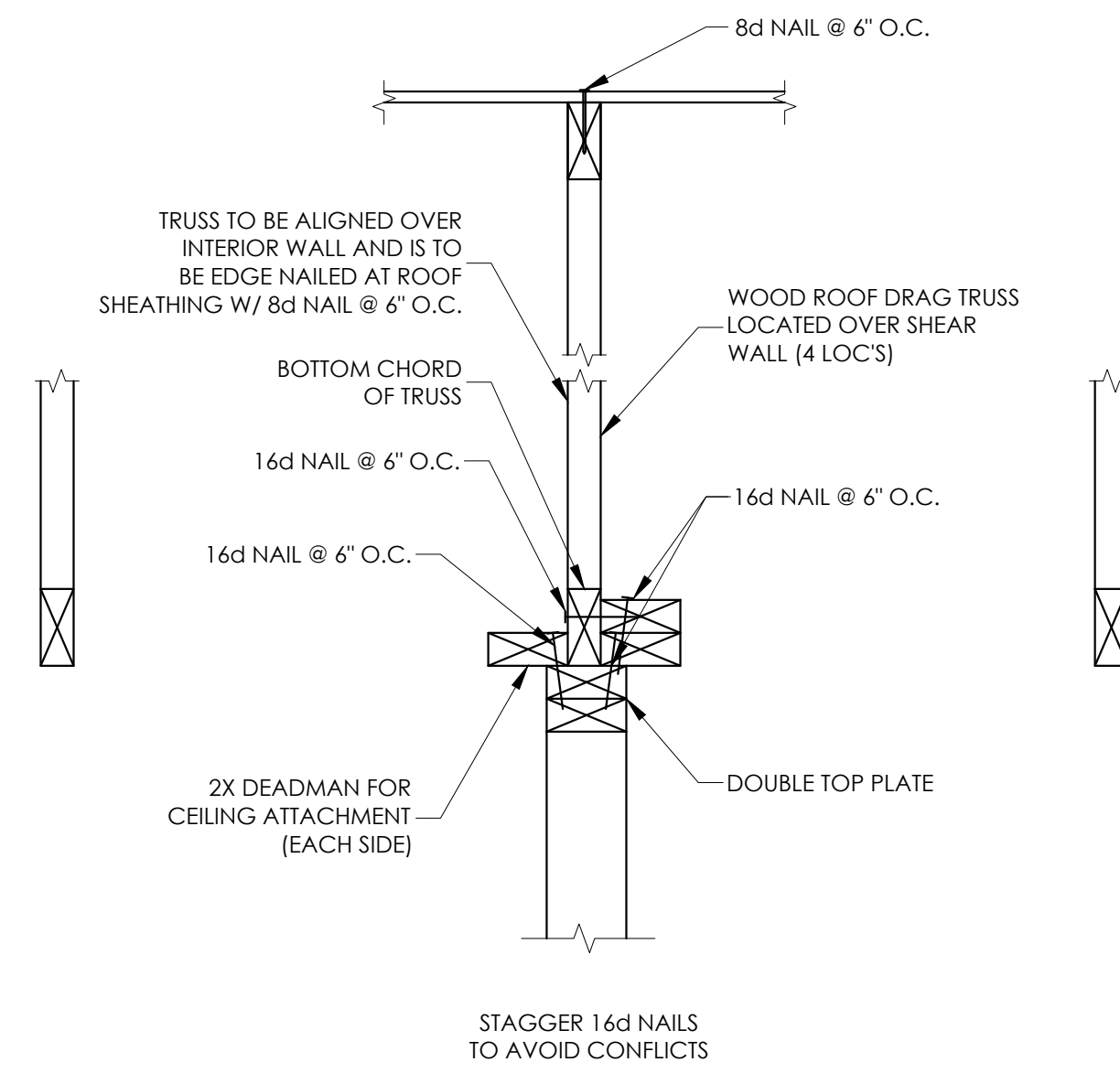
PROJECT NO:	001123
DRAWN BY:	RA
CHECKED BY:	MGH
SHEET TITLE:	Framing Details

SHEET NUMBER:  
**S401**

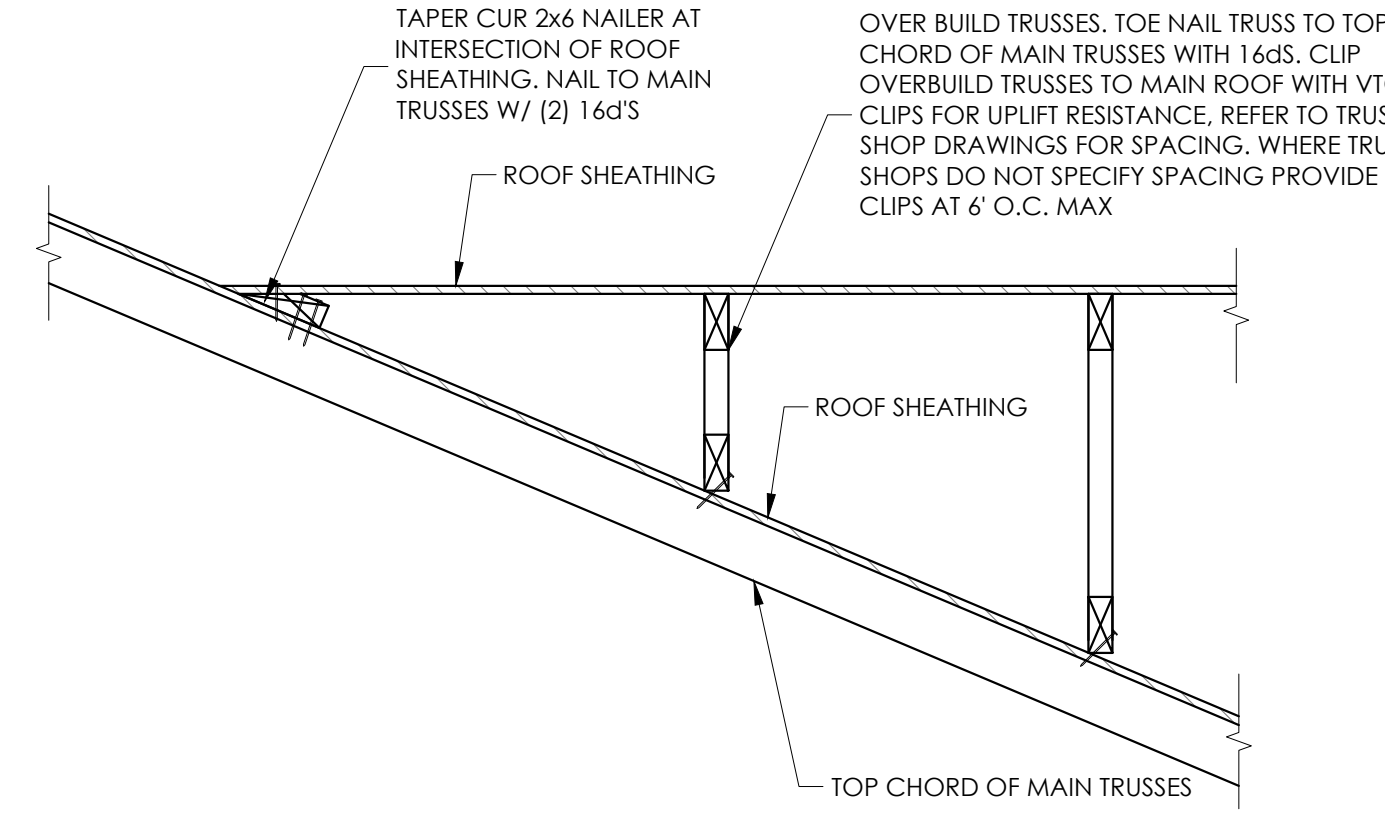
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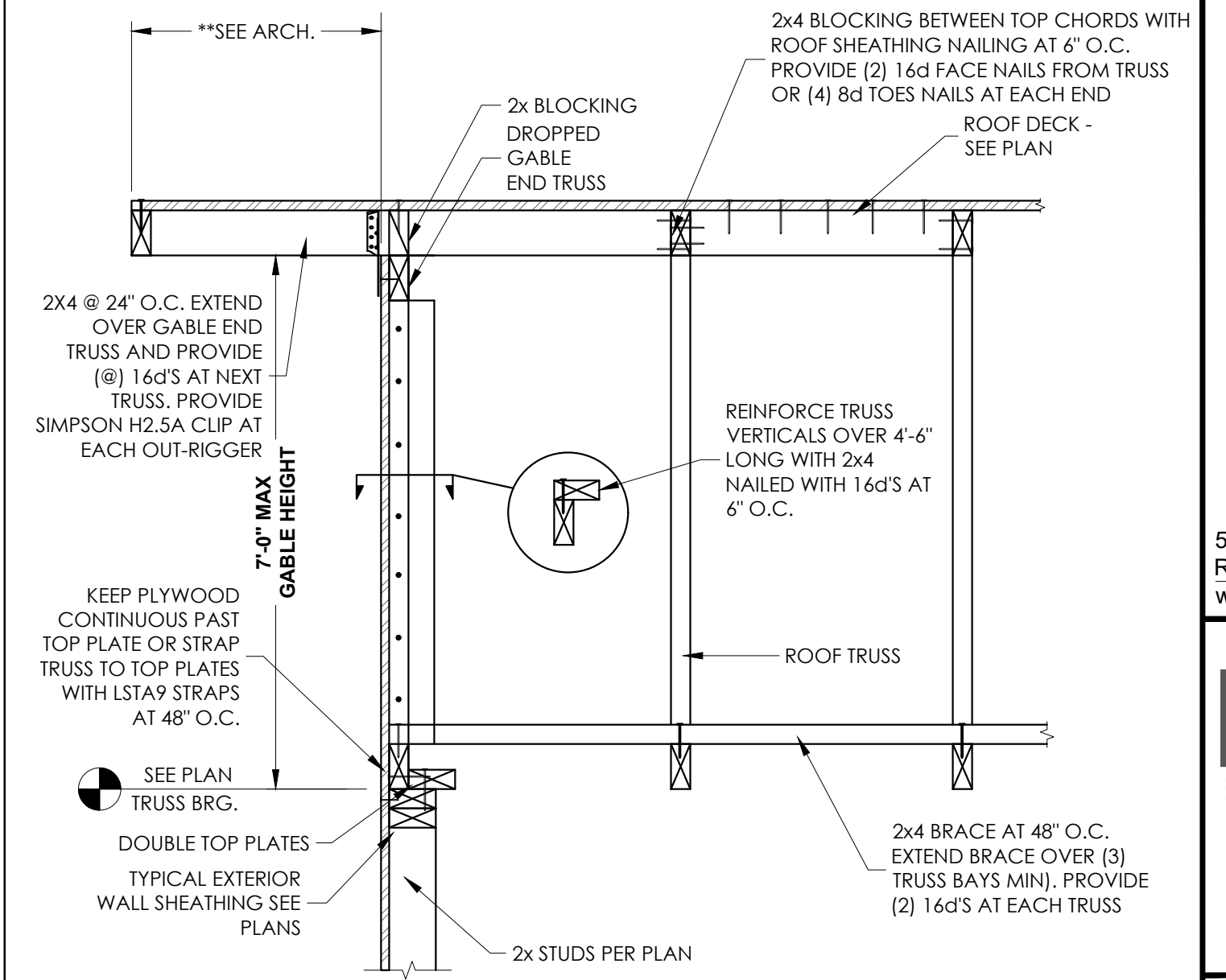
**1 H6 TIE ISOMETRIC**  
SCALE: NONE



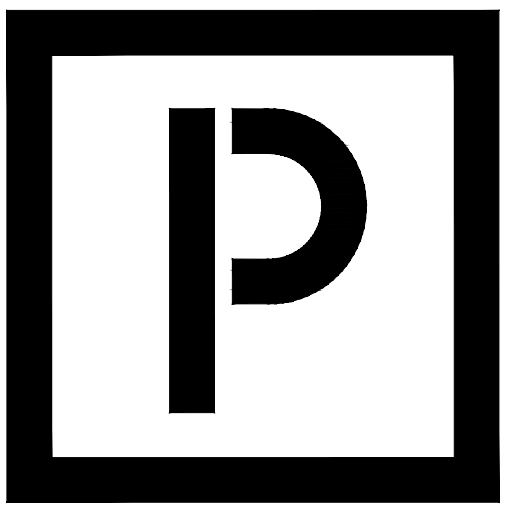
**2 TRUSS ATTACHMENT AT DEMISING WALL**  
SCALE: NONE



**3 TRUSS OVERBUILD**  
SCALE: NONE



**4 GABLE TRUSS SECTION**  
SCALE: NONE

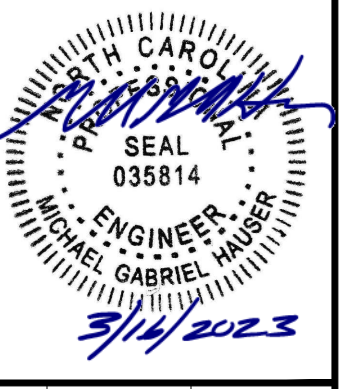


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Fairway Point Garage Building

H&H Constructors, Inc.

Gallery Dr, Spring Lake, NC 28390

Issued For Permit Review

PROGRESS DATE:	03.16.2023
ISSUE DATE:	
REVISIONS NUMBER	INITIALS DESCRIPTION
1	

PROJECT NO: 001123

DRAWN BY: RA

CHECKED BY: MGH

SHEET TITLE:

Framing Details

SHEET NUMBER:

**S402**

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**FOUNDATION NOTES:**

- FOUNDATION DESIGN IS BASED UPON AN ASSUMED SOIL BEARING VALUE OF 2000 PSF
- THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEO-TECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE BELOW THE FROST LINE OR 12" BELOW GRADE, WHICHEVER IS GREATER. [U.N.O.]
- WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 3" THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED OR CLEAN GRAVEL SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS.
- WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.

**REINFORCED CONCRETE:**

- ALL CONCRETE WORK SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," (ACI 318, 05)
- REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60)
- FOUNDATIONS AND SLAB-ON-GRADE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3000 P.S.I. (SEE CIVIL DRAWINGS FOR SITE CONCRETE) KEEP COPY OF CONC. TEST REPORTS ON SITE AT ALL TIMES.
- WALL COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 4000 P.S.I. (SEE CIVIL DRAWINGS FOR SITE CONCRETE) KEEP COPY OF CONC. TEST REPORTS ON SITE AT ALL TIMES
- LAP SPLICES FOR #5 REINFORCING BARS SHALL BE 36" MIN., AND #6 REINFORCING BARS SHALL BE 43" MIN., UNLESS SUBMITTED AND APPROVED OTHERWISE.
- CLEAR CONCRETE COVER FOR REINFORCING STEEL:  
WALLS: 3" CAST AGAINST GROUND  
FOOTINGS: 2" FORMED EDGES  
2" FORMED EDGES  
3" CAST AGAINST GROUND  
SLAB ON GRADE: MID-HEIGHT OF SLAB
- THE LONGITUDINAL REINFORCING STEEL IN WALLS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.
- SLUMP LIMIT IS 5 INCHES FOR CONCRETE WITH VERIFIED SLUMP OF 2 TO 4 INCHES BEFORE ADDING HIGH-RANGE WATER-REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE, PLUS OR MINUS 1 INCH
- AIR CONTENT: 6 PERCENT, PLUS OR MINUS 1.5 PERCENT AT POINT OF DELIVERY FOR 3/4-INCH NOMINAL MAXIMUM AGGREGATE SIZE. EXCEPTION TROWEL-FINISHED FLOOR SHALL NOT EXCEED 3 PERCENT.
- MAXIMUM COARSE-AGGREGATE SIZE: 3/4 INCH NOMINAL.
- PORTLAND CEMENT: ASTM C 150/C 150M, TYPE I.
- COLD-WEATHER PLACEMENT: COMPLY WITH ACI 306.1.
- HOT-WEATHER PLACEMENT: COMPLY WITH ACI 301.
- DESIGN, ERECT, SHORE, BRACE, AND MAINTAIN FORMWORK, ACCORDING TO ACI 301, TO SUPPORT VERTICAL, LATERAL, STATIC, AND DYNAMIC LOADS, AND CONSTRUCTION LOADS THAT MIGHT BE APPLIED, UNTIL STRUCTURE CAN SUPPORT SUCH LOADS. PLACE FORMWORK SO CONCRETE MEMBERS AND STRUCTURES ARE OF SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION INDICATED, WITHIN TOLERANCE LIMITS OF ACI 117. CHAMFER EXTERIOR CORNERS AND EDGES OF PERMANENTLY EXPOSED CONCRETE
- BEFORE PLACING CONCRETE, VERIFY THAT INSTALLATION OF FORMWORK, REINFORCEMENT, AND EMBEDDED ITEMS IS COMPLETE AND THAT REQUIRED INSPECTIONS ARE COMPLETED. DEPOSIT CONCRETE CONTINUOUSLY IN ONE LAYER OR IN HORIZONTAL LAYERS OF SUCH THICKNESS THAT NO NEW CONCRETE IS PLACED ON CONCRETE THAT HAS HARDENED ENOUGH TO CAUSE SEAMS OR PLANES OF WEAKNESS. IF A SECTION CANNOT BE PLACED CONTINUOUSLY, PROVIDE CONSTRUCTION JOINTS AS INDICATED. DEPOSIT CONCRETE TO AVOID SEGREGATION. CONSOLIDATE PLACED CONCRETE WITH MECHANICAL VIBRATING EQUIPMENT ACCORDING TO ACI 301.
- ALL CONCRETE SHALL BE VIBRATED BY MECHANICAL VIBRATORS.

**DESIGN INFORMATION:**

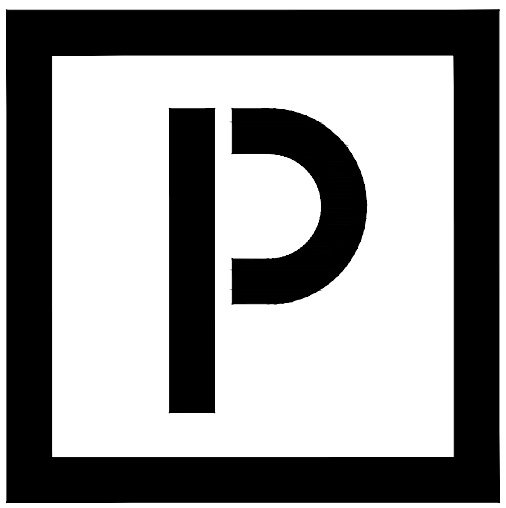
- ALL CONSTRUCTION SHALL CONFORM TO THE 2018 NORTH CAROLINA STATE BUILDING CODE AND ASCE 7-10
- DESIGN LOADS:  
DEAD AND LIVE LOADS  
ROOF LOADS  
TOP CHORD DEAD \_\_\_\_\_ 15 psf  
BOTTOM CHORD DEAD \_\_\_\_\_ 10 psf  
TOP CHORD LIVE \_\_\_\_\_ 20 psf  
BOTTOM CHORD LIVE \_\_\_\_\_ 10 psf (NON CONCURRENT WITH TOP CHORD LIVE)  
  
OCCUPANCY CATEGORY \_\_\_\_\_ II  
  
IMPORTANCE FACTORS  
I seismic \_\_\_\_\_ 1.0  
I snow \_\_\_\_\_ 1.0  
GROUND SNOW LOAD (pg) \_\_\_\_\_ 10 psf  
  
DESIGN WIND SPEED \_\_\_\_\_ Risk Cat II = 118 mph (ASCE 7-10)  
EXPOSURE \_\_\_\_\_ B  
  
SEISMIC DESIGN PARAMETERS  
S1 \_\_\_\_\_ 0.091  
Ss \_\_\_\_\_ 0.199  
SITE CLASS \_\_\_\_\_ D  
Scs \_\_\_\_\_ 0.212  
ScI \_\_\_\_\_ 0.146  
SEISMIC DESIGN CATEGORY \_\_\_\_\_ C
- ADDITIONAL LIVE LOADS PRESCRIBED IN ASCE7-10 RELATED TO ROOF ATTICS AND ROOF TRUSSES, INCLUDING LIMITED ACCESS STORAGE IN ATTICS SHALL APPLY TO PRE-FABRICATED TRUSSES, AND SHALL BE CLEARLY IDENTIFIED ON THE TRUSS SHOP DRAWINGS..
- THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- FOR LOCATION OF MISCELLANEOUS ITEMS (SUCH AS INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
- THIS PROJECT CONTAINS A SERIES OF DETAILS CONSIDERED "TYPICAL DETAILS". THESE SHALL APPLY AT ALL SITUATIONS THAT ARE THE SAME OR SIMILAR AS THESE DETAILS. THESE "TYPICAL DETAILS" SHALL APPLY WHETHER OR NOT THEY ARE INDICATED OR CUT AT EACH LOCATION.
- VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT AND ENGINEER OF ANY CONDITIONS WHICH DO NOT COMPLY WITH PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE WORKED WITH ARCHITECTURAL DRAWINGS.
- USE OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED. THE CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS ACCORDINGLY PRIOR TO SUBMITTING TO THE ENGINEER. THE OMISSION OF ITEMS FROM SHOP DRAWINGS SHALL NOT RELIEVE CONTRACTOR OF RESPONSIBILITY OF FURNISHING AND INSTALLING ITEMS REGARDLESS OF WHETHER SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.

**WOOD FRAMING (NOT INCLUDING PRE-FABRICATED TRUSSES):**

- ALL WOOD CONSTRUCTION SHALL CONFORM TO THE 2018 NORTH CAROLINA STATE BUILDING CODE AND TO THE NDS.
- ALL NAILING (UNLESS NOTED OTHERWISE) SHALL CONFORM TO THE 2018 NORTH CAROLINA STATE BUILDING CODE
- ALL STUDS, TOP PLATES AND SILL PLATES IN BEARING WALLS SHALL BE SPF NO. 2 OR BETTER OR SYP NO. 2 OR BETTER.
- ALL STUDS, TOP PLATES AND SILL PLATES IN NON-BEARING WALLS SHALL BE SPF STUD GRADE OR BETTER.
- ALL 2x NOMINAL HEADERS SHALL BE SPF NO. 2 OR BETTER OR SYP NO. 2 OR BETTER.
- ALL EXPOSED LUMBER SHALL BE PRESERVATIVE TREATED.
- FINGER JOINTED STUDS MAY BE USED IN INTERIOR APPLICATIONS PROVIDED THE STRUCTURAL PROPERTIES EQUAL OR EXCEED THAT OF THE SOLID SAWN LUMBER. FINGER JOINTED LUMBER SHALL NOT BE USED IN EXPOSED CONDITIONS.
- ALL CONNECTIONS IN EXPOSED LUMBER SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
- ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED.
- ALL MANUFACTURED LAMINATED VENEER LUMBER (LVL) SHALL HAVE A MODULUS OF ELASTICITY OF 2E6 psi AND A MINIMUM BENDING STRENGTH OF 2800 psi.
- UNDER NO CIRCUMSTANCE SHALL LAMINATED VENEER LUMBER BE USED IN AN EXPOSED CONDITION. WHERE MANUFACTURER LUMBER IS REQUIRED IN AN EXPOSED CONDITION THE CONTRACTOR MUST USED PRESERVATIVE TREATED GLU-LAMINATED LUMBER (GLB).

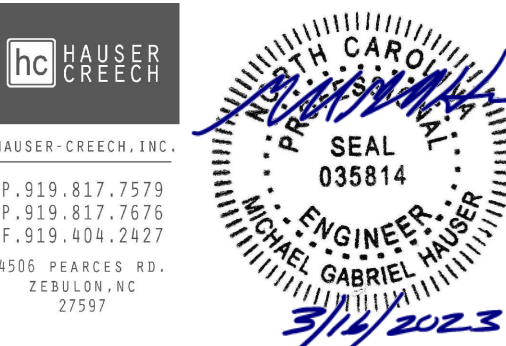
**WOOD TRUSSES:**

- IN ADDITION TO THE UNIFORM LOADING SPECIFIED FOR TRUSS DESIGN, THE TRUSS SUPPLIER SHALL INCLUDE ANY CONCENTRATED LOADS CAUSED BY ARCHITECTURAL FEATURES OR M. P&E EQUIPMENT OR MATERIALS AND BY SPRINKLER LOADS IN THE TRUSS DESIGN.
- TRUSSES SHALL BE DESIGNED BY A REGISTERED ENGINEER IN THE STATE OF NORTH CAROLINA AND SHOP DRAWINGS BEARING THE ENGINEER'S SEAL SHALL BE SUBMITTED FOR APPROVAL.
- TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH APPLICABLE STANDARDS OF THE TRUSS PLATE INSTITUTE.
- LIMIT LIVE LOAD DEFLECTION TO L/360. LIMIT TOTAL LOAD DEFLECTION TO L/240 OR 1" MAX.



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Fairway Point Garage Building  
 H&H Constructors, Inc.  
 Gallery Dr, Spring Lake, NC 28390  
 Issued For Permit Review

PROGRESS DATE:	03.16.2023
ISSUE DATE:	
REVISIONS NUMBER	INITIALS DESCRIPTION
1	
2	
3	
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11	

PROJECT NO: 001123

DRAWN BY: RA

CHECKED BY: MGH

SHEET TITLE:  
General Notes and Special Inspections

SHEET NUMBER:

**S501**

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**GENERAL ELECTRICAL NOTES**

- GENERAL REQUIREMENTS:**
  - ELECTRICAL CONTRACTOR IS TO FURNISH AND PAY FOR ALL LABOR, MATERIAL, EQUIPMENT, PERMITS & FEES REQUIRED FOR THE COMPLETE INSTALLATION OF ALL SYSTEMS IN THIS SECTION OF WORK.
  - ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH NEC AND ALL OTHER APPLICABLE CODES. EC IS TO COORDINATE W/ G.C. IN REGARDS TO PROJECT TIMELINE, WORK HOURS, AS WELL AS ANY BONDING OR INSURANCE REQUIREMENTS.
  - ALL ELECTRICAL & LIGHTING EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, SUPPORTS, CONTROLS, ETC FOR A FULLY FUNCTIONING SYSTEM REGARDLESS OF PRESENCE ON PLANS.
  - ALL EQUIPMENT, MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD GUARANTEE, IF LONGER. EXISTING EQUIPMENT IS EXCLUDED FROM WARRANTY REQUIREMENT.
  - THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
  - DO NOT SCALE DRAWINGS FOR MEASUREMENT.
  - INFORMATION GIVEN IN SCHEDULES INCLUDES BOTH DESCRIPTION OF PRODUCT AND MANUFACTURER'S MODEL #. IF CONFLICT IS PRESENT BETWEEN DESCRIPTION AND MODEL #, EQUIPMENT DESCRIPTION SHALL TAKE PRECEDENT. IN CASE OF CONFLICT BETWEEN THE PLANS AND NOTES/SPECIFICATIONS OR CONFLICT BETWEEN INFORMATION PRESENTED ON THE PLANS OR IN THE NOTES/SPECIFICATIONS, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.
  - BEFORE BID EC IS RESPONSIBLE FOR CLARIFYING W/ G.C. ANY CONFUSION IN REGARDS TO RESPONSIBILITY OF WORK TO BE PERFORMED OR MATERIALS TO BE PROVIDED, THE SUBMITTAL OF THE BID BY THE CONTRACTOR WILL BE HELD AS PROOF THAT THE CONTRACTOR UNDERSTANDS THOROUGHLY AND COMPLETELY THE SCOPE OF THE WORK INVOLVED, AND HAS INCLUDED ON THE BID ALL THE NECESSARY ITEMS TO CARRY OUT THIS SECTION OF WORK.
  - AS SOON AS POSSIBLE (AND NOT MORE THAN 30 DAYS) AFTER CONTRACT IS SIGNED, THE EC SHALL PROVIDE SUBMITTALS OF EQUIPMENT HE/SHE INTENDS TO PURCHASE FOR REVIEW AND COMMENT BY THE ENGINEER. ENGINEER IS TO APPROVE SUBMITTALS BEFORE EQUIPMENT IS ORDERED.
  - ALL QUESTIONS MUST BE SUBMITTED IN RFI FORMAT TO THE ARCHITECT AND MUST BE ADDRESSED BY THE APPROPRIATE DESIGNER OF RECORD PRIOR TO BECOMING A PROPOSED CHANGE ORDER.
  - E.C. IS TO REVIEW COMPLETE DRAWING SET. E.C. IS RESPONSIBLE FOR WORK EXPLICITLY SHOWN AND WORK IMPLIED. UNLESS OTHERWISE NOTED FINAL ELECTRICAL CONNECTION TO ALL EQUIPMENT, FURNITURE (I.E. CUBICLES, WORKSTATIONS, ETC) IS THE RESPONSIBILITY OF THE E.C..
- DIVISION OF WORK:**
  - ALL LOW VOLTAGE WIRING RELATED TO MECHANICAL EQUIPMENT AND SYSTEMS IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR (ANY LOW VOLTAGE FIRE ALARM WIRING TO BE BY E.C.). ALL HIGH VOLTAGE CONNECTIONS TO MECHANICAL EQUIPMENT, TO BE PROVIDED AND INSTALLED BY E.C. (SEE EQUIPMENT SCHEDULE FOR DISCONNECT RESPONSIBILITY).
  - G.C. TO BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ACCESS DOORS (WALL, FLOOR, CEILING) RELATED TO ELECTRICAL SYSTEM. E.C. RESPONSIBLE FOR COMMUNICATING TO G.C. SIZE AND LOCATION OF REQ'D ACCESS DOOR(S).
  - ELECTRICAL CONTRACTOR IS TO EMPLOY THE SERVICES OF THE G.C. FOR CUTTING AND PATCHING OF WALLS, FLOORS & CEILINGS RELATED TO THE INSTALLATION OF ELECTRICAL EQUIPMENT & SYSTEMS.
  - G.C. RESPONSIBLE FOR PAINTING OF ANY EXPOSED CONDUIT, WIRE, BOXES ETC. E.C. RESPONSIBLE FOR CLEANING AND PREPARING ITEMS FOR PAINT, COORDINATE W/ G.C.
- MATERIALS:**
  - ALL MATERIAL, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL CONFORM TO THE STANDARDS OF THE UNDERWRITERS LABORATORIES, INC., AND THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.
  - PROVIDE HANGERS & SUPPORTS APPROVED FOR USE BY NEC.
  - ALL FIRE SEALANTS TO BE U.L. LISTED AND APPROVED FOR USE W/ APPROPRIATE U.L. PENETRATION DETAIL.
  - ELECTRICAL BOXES IN RATED WALLS MUST BE METAL OR LISTED FOR USE IN RATED WALLS. ONLY SINGLE AND DOUBLE GANG BOXES ARE TO BE USED IN RATED WALLS. LARGER BOXES ARE NOT ALLOWED AS THEY EXCEED THE 16 SQUARE INCH MAXIMUM BOX OPENING ALLOWED IN RATED WALLS PER NEC 300.21
  - CONDUCTORS SHALL BE COPPER RATED AT NOT LESS THAN 400 VOLTS MINIMUM SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED. ALL CONDUCTORS #10 AND SMALLER MAY BE SOLID OR STRANDED. UNLESS OTHERWISE NOTED, CONDUCTOR INSULATION SHALL BE TYPE THHN UNLESS OTHERWISE NOTED. ALL EXTERIOR CABLE OR OTHER WIRE EXPOSED TO SUNLIGHT SHALL BE RATED FOR EXTERIOR USE & SUNLIGHT RESISTANT.
  - ALL WIRING SHALL BE INSTALLED IN GALVANIZED RIGID CONDUIT, INTERMEDIATE METAL CONDUIT, OR EMT, EXCEPT AS ALLOWED BELOW. EMT SHALL NOT BE USED IN OR UNDER CONCRETE SLABS, OR IN MASSONRY WALLS. USE SCHEDULE 40 PVC OUTDOORS WHERE NOT SUBJECT TO PHYSICAL DAMAGE OR BELOW FLOOR SLAB. PVC NOT TO BE USED IN PATIENT CARE AREAS. MINIMUM CONDUIT SIZE TO BE 1/2". TYPE MC AND AC CABLE MAY BE USED WHERE PERMISSIBLE BY NEC. FUSIBLE CONDUIT SHALL BE USED FOR CONNECTIONS TO VIBRATING EQUIPMENT AND LUMINAIRES, BUT SHALL NOT EXCEED 6' IN LENGTH. NM & SER CABLE MAY BE USED IN CONSTRUCTION TYPES AND OCCUPANCIES ALLOWED BY NEC. NO NM OR SER CABLE MAY BE INSTALLED EXPOSED. ALL NM AND SER CABLE SHOULD BE PROTECTED FROM PHYSICAL DAMAGE AND INSTALLED IN ACCORDANCE WITH NEC 310.
  - METAL CONDUIT COUPLINGS TO BE COMPRESSION TYPE OR THREADED WHEN ACCESSIBLE TO BUILDING OCCUPANTS. METAL CONDUIT COUPLINGS MAY BE SET SCREW TYPE WHEN CONCEALED IN BUILDING STRUCTURE OR LOCATED MORE THAN 10' AFF. PLASTIC CONDUIT COUPLINGS TO BE SOCKET GLUED TYPE.
  - FUSES 0 - 400 AMPS SHALL BE UL CLASS "RK-1" LOW PEAK DUAL ELEMENT TIME DELAY WITH 200,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSSMANN, UNLESS NOTED OTHERWISE.
  - ALL TERMINALS/LUGS SHALL BE 40/75% RATED. ALL TERMINALS, SPlicing CONNECTORS, LUGS, ETC SHALL BE IDENTIFIED FOR USE WITH THE MATERIAL (CU/AL) OF THE CONDUCTOR AND SHALL BE PROPERLY INSTALLED.

**LIGHTING FIXTURE SCHEDULE**

MARK	MANUF.	CATALOG NUMBER	LAMP DATA		VOLTS	BALLAST DATA		INPUT WATTS	MOUNTING	DESCRIPTION
			NO.	TYPE		NO.	TYPE			
A	LITHONIA	LBL4	-	LED	MVOLT	1	DRIVER	32	SURFACE	4' SURFACE MOUNTED LED WRAPAROUND LIGHT. NARROW HOUSING. ACRYLIC LENS. 4000 LUMENS. 3000K. INTEGRAL MOTION SENSOR "LSXR10".
B	-	-	-	-	120	-	-	15W MAX	WALL	EXTERIOR RATED LED WALL SCONCE. COLOR TEMP TO MATCH EXISTING AREA EXTERIOR FIXTURES. SELECTED BY OTHERS. PROVIDED & INSTALLED BY E.C.. INCLUDE \$150/FIXTURE MAT'L ALLOWANCE IN BID.
Z	-	-	1	13W LED	120	-	-	13	SURFACE	INCANDESCENT LAMP HOLDER W/ 100 W EQUIVALENT LED A19 BULB. PROVIDE "JELLY JAR" CONFIG. WHERE SUBJECT TO PHYSICAL DAMAGE.

NOTES:  
 1. UNLESS OTHERWISE NOTED COLOR & FINISH OF FIXTURE HOUSING, BAFFLE, OR SIMILAR EXPOSED ELEMENTS TO BE BY ARCHITECT.  
 2. ALL LAMPS OF A SINGLE FIXTURE TYPE INSTALLED IN EACH AREA/ROOM/SPACE ARE TO BE OF SAME TEMPERATURE/COLOR.

**LIGHTING SYSTEMS**  
NCECC SECTION C405 & C406

LIGHTING POWER DENSITY CALCULATION COMPLIANCE		DESIGNER STATEMENT:	
INTERIOR LIGHTING POWER DENSITY CALCULATION PER TABLE C405.4.2. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE INFORMATION.		TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE LIGHTING SYSTEMS REQUIREMENTS OF THE NORTH CAROLINA ENERGY CONSERVATION CODE, SECTION C405 & C406 AND ANY LOCAL AMENDMENTS THEREOF.	
INTERIOR WATTAGE SPECIFIED VS. ALLOWED	301 VS. 516	SIGNED:	<i>Nathan P. Birkedal</i>
EXTERIOR LIGHTING POWER DENSITY CALCULATION PER TABLE C405.5.1. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE INFORMATION.		NAME:	NATHAN P. BIRKEDAL, PE
TRADABLE EXTERIOR WATTAGE SPECIFIED VS. ALLOWED	120 VS. 2280	TITLE:	ELECTRICAL ENGINEER
NONTRADABLE EXTERIOR WATTAGE SPECIFIED VS. ALLOWED	NA VS. NA		

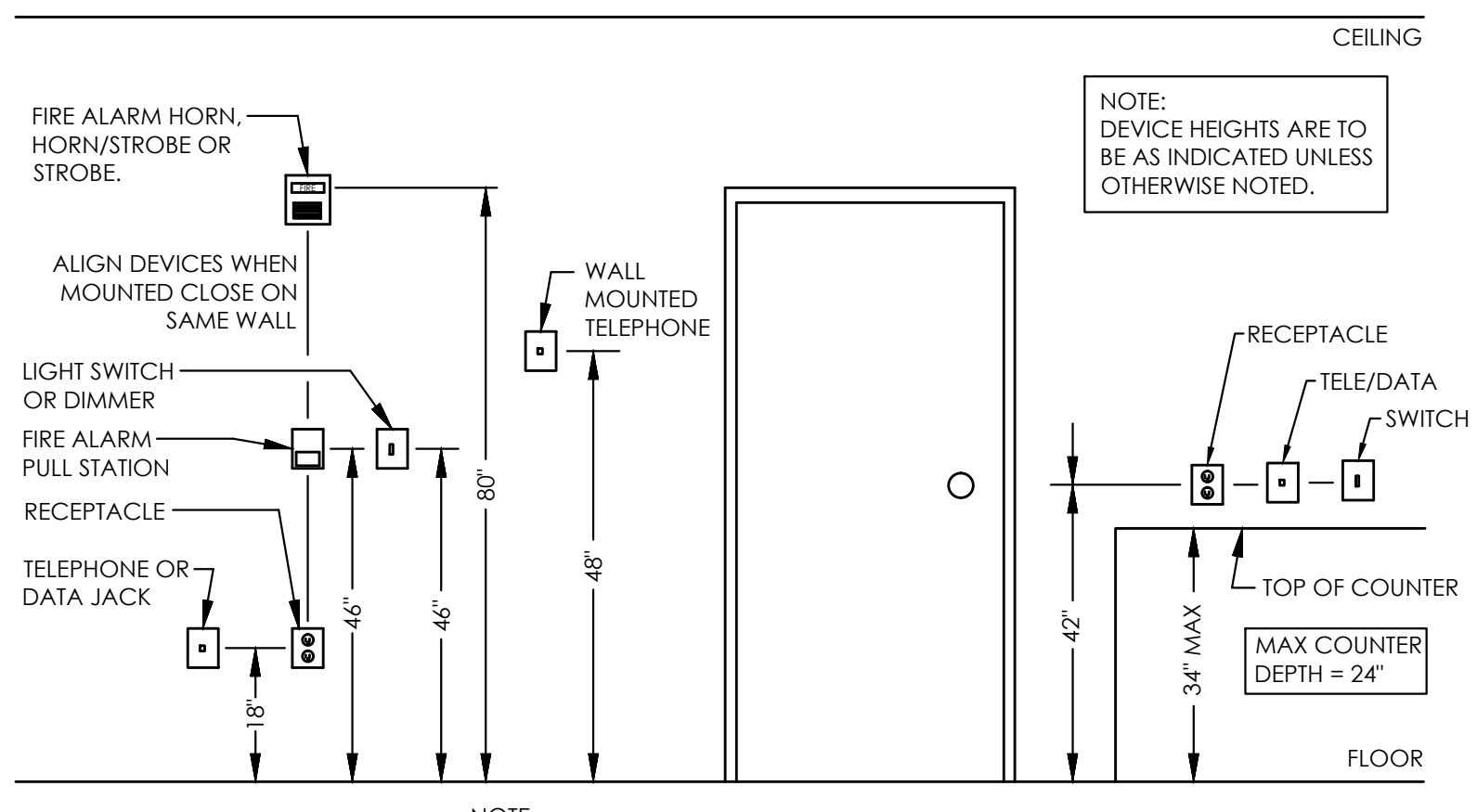
ADDITIONAL PRESCRIPTIVE COMPLIANCE	
NOT APPLICABLE (RENOVATION PROJECT)	C406.5 ON-SITE RENEWABLE ENERGY
C406.2 MORE EFFICIENT MECHANICAL EQUIPMENT	C406.6 DEDICATED OUTDOOR AIR SYSTEM
C406.3 REDUCED LIGHTING POWER DENSITY	C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING
C406.4 ENHANCED DIGITAL LIGHTING CONTROLS	

**ELECTRICAL SYMBOL LEGEND**

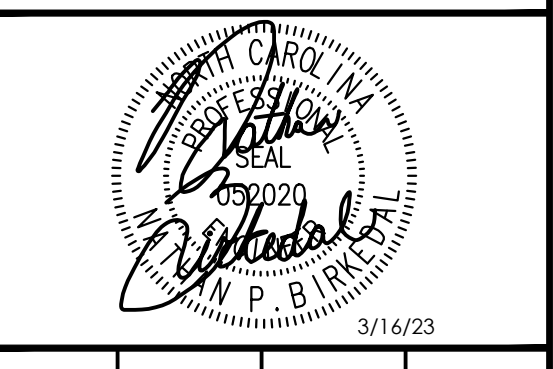
- CIRCUIT CONDUCTORS CONCEALED IN FLOOR, WALL OR CEILING.
- ARROWHEAD INDICATES HOMERUN TO PANEL NOTED.
- INDICATES HOT LEG OF CIRCUIT TO BE CARRIED OVER TO NEXT DEVICE. SEE PLANS FOR CONTROL SCHEME.
- JUNCTION BOX CEILING MOUNTED.
- JUNCTION BOX FLOOR MOUNTED.
- JUNCTION BOX WALL MOUNTED AT HEIGHT INDICATED ON DRAWINGS.
- SINGLE POLE SWITCH, 20A, 120/277 VOLT, 48" A.F.F. TO CENTER.  
 "3" INDICATES 3-WAY SWITCH.  
 "4" INDICATES 4-WAY SWITCH.  
 "D" INDICATES DIMMER SWITCH OF TYPE TO SUIT LOAD.  
 "M" INDICATES 120V, 20A MOTOR RATED TOGGLE SWITCH.  
 "DP" INDICATES DOUBLE POLE
- INDICATES FLUORESCENT FIXTURES DUAL SWITCHED, INBOARD/OUTBOARD SWITCHED SEPARATELY.
- SINGLE RECEPTACLE, 20 AMP, 120 VOLT, 18" A.F.F. TO CENTER.
- DUPLEX RECEPTACLE, 20 AMP (15 AMP RESIDENTIAL, UON), 120 VOLT, 18" A.F.F. TO CENTER.  
 "GF" INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE.  
 "WP" INDICATES WEATHERPROOF.  
 "EWC" INDICATES RECEPTACLE INSIDE ENCLOSURE OF ELECTRIC WATER COOLER PROVIDE GFI BREAKER FOR CIRCUIT.  
 "ASW" INDICATES ABOVE SHOW WINDOW, PER NEC SHOW WINDOW REQ'S.
- QUADRUPLEX RECEPTACLE, AS ABOVE, 18" A.F.F.
- DUPLEX RECEPTACLE, AS ABOVE, SPLIT WIRED, TOP HALF SWITCHED, 18" A.F.F.
- DUPLEX RECEPTACLE, AS ABOVE, MOUNTED 6" ABOVE COUNTER TOP OR 4" ABOVE BACKSPLASH, AS APPROPRIATE, OR AT HEIGHT INDICATED.
- DUPLEX RECEPTACLE, AS ABOVE, MOUNTED 6" ABOVE COUNTER TOP OR 4" ABOVE BACKSPLASH, AS APPROPRIATE, OR AT HEIGHT INDICATED, WITH GFI PROTECTION.
- RECESSED FLUSH FLOOR DUPLEX RECEPTACLE WITH BRASS COVERPLATE. COORDINATE EXACT FINISH WITH ARCHITECT AND OWNER.
- 208V RECEPTACLE, SEE PLANS FOR NEMA CONFIGURATION.
- TELEPHONE/DATA OUTLET, 18" A.F.F. TO CENTER OR ALIGN MOUNTING HEIGHT WITH ADJACENT DEVICE, UNLESS OTHERWISE NOTED. COORDINATE EXACT DEVICE TYPE AND REQUIRED FACEPLATE W/ OWNER/TENANT.
- HEAVY DUTY FUSIBLE/NON-FUSIBLE DISCONNECT SWITCH, NUMBERS INDICATE FRAME SIZE, NUMBER OF POLES AND FUSING. PROVIDE NEMA 1 ENCLOSURE INSIDE. PROVIDE NEMA 3 ENCLOSURE FOR ALL SWITCHES LOCATED OUTSIDE.  
 "FPN" INDICATES FUSE PER EQUIPMENT NAMEPLATE  
 "NF" INDICATES NON-FUSED.  
 "MS" INDICATES MOTOR STARTER OF TYPE TO SUIT LOAD.
- 208Y/120V PANEL, SURFACE OR RECESS MOUNTED, SEE SCHEDULE FOR DETAILS.
- 480Y/277V PANEL, SURFACE OR RECESS MOUNTED, SEE SCHEDULE FOR DETAILS.
- FAN, PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. PROVIDE DISCONNECTING MEANS AS REQUIRED.
- RECESSED MOUNTED 2x4 FLUORESCENT TROFFER. SEE FIXTURE SCHEDULE FOR DETAILS.
- TRACK LIGHTING FIXTURE. SEE FIXTURE SCHEDULE FOR DETAILS.
- SURFACE MOUNTED FLUORESCENT STRIP. SEE FIXTURE SCHEDULE FOR DETAILS.
- WALL MOUNTED LIGHTING FIXTURE. SEE FIXTURE SCHEDULE FOR DETAILS.
- SURFACE, RECESSED OR GROUND MOUNTED LIGHTING FIXTURE. SEE FIXTURE SCHEDULE FOR DETAILS.
- ELECTRIC UTILITY METER LOCATION.
- KITCHEN EQUIPMENT TAG.
- DEMO'D LIGHT FIXTURE OR SIMILAR.
- DEMO'D RECEPTACLE OR SIMILAR.
- CABLE TV OUTLET, 18" A.F.F. TO CENTER, UNLESS OTHERWISE NOTED.

**ELECTRICAL ABBREVIATIONS**

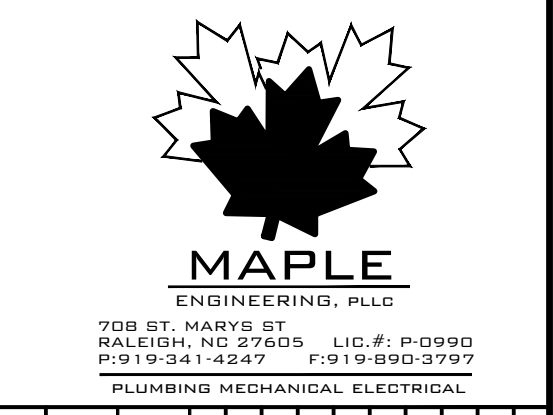
18"	DIMENSION INDICATES HEIGHT ABOVE FINISHED FLOOR AT WHICH CENTER OF DEVICE IS TO BE MOUNTED.
AFF	ABOVE FINISHED FLOOR.
AFG	ABOVE FINISHED GRADE.
E.C.	ELECTRICAL CONTRACTOR.
FPN	FUSE PER EQUIPMENT NAMEPLATE REQUIREMENTS.
G.C.	GENERAL CONTRACTOR.
M.C.	MECHANICAL CONTRACTOR.
P.C.	PLUMBING CONTRACTOR.
WP	INDICATES DEVICE TO HAVE WEATHERPROOF COVER.
UON	UNLESS OTHERWISE NOTED.
FACP	FIRE ALARM CONTROL PANEL.
SMP	SPRINKLER MONITORING PANEL.
NL	NIGHT LIGHT. LIGHT NOT SWITCHED.



**1 TYPICAL DEVICE MOUNTING HEIGHTS**  
NO SCALE

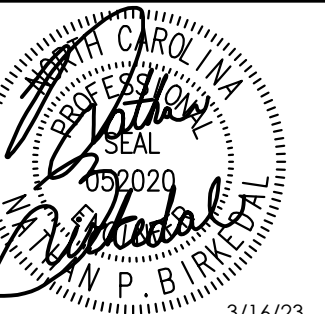


Fairway Point Garage Building  
 H&H Constructors, Inc.  
 Gallery Dr, Spring Lake, NC 28390  
 Issued For Permit Review



PROGRESS DATE:	03-16-23
ISSUE DATE:	
REVISIONS NUMBER	
DATE	
INITIALS	
DESCRIPTION	
PROJECT NO:	001123
DRAWN BY:	KNB
CHECKED BY:	NPB
SHEET TITLE:	ELECTRICAL SCHEDULES AND NOTES
SHEET NUMBER:	E001





3/16/23

Fairway Pointe Garage Building

H+H Constructors, Inc.

135 Gallery Dr, Spring Lake, NC 28390

Issued For Permit Review



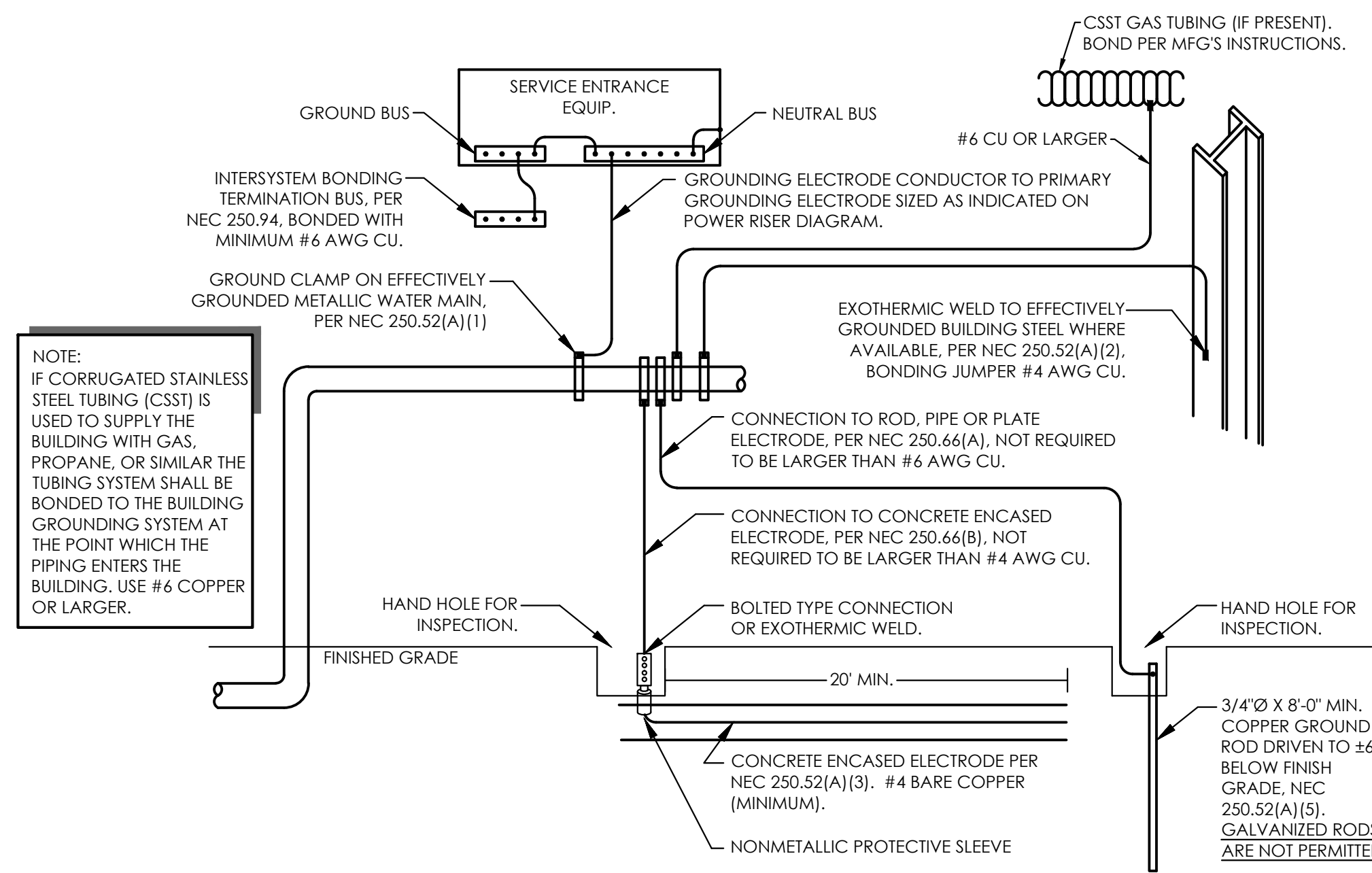
708 ST. MARVEL ST.  
RALEIGH, NC 27605 U.S. Lic. # P-0999  
P-12-241-4247 F-19-802-3797  
PLUMBING MECHANICAL ELECTRICAL

PROGRESS DATE:	DESCRIPTION
03-16-23	

PROJECT NO: 001123  
DRAWN BY: KNG  
CHECKED BY: NPB

SHEET TITLE: ELECTRICAL DETAILS

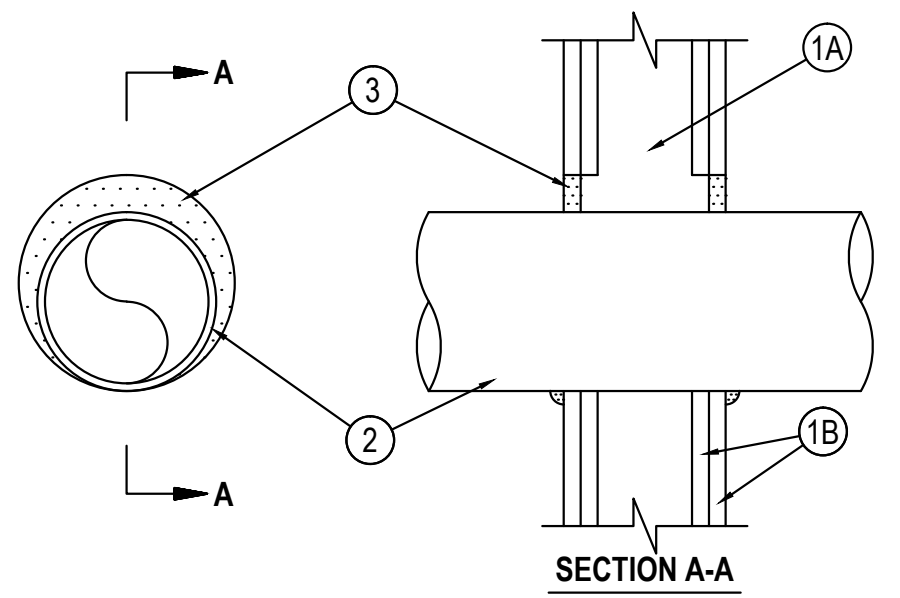
SHEET NUMBER: E002



4 GROUNDING DETAIL  
NO SCALE

System No. W-L-1054

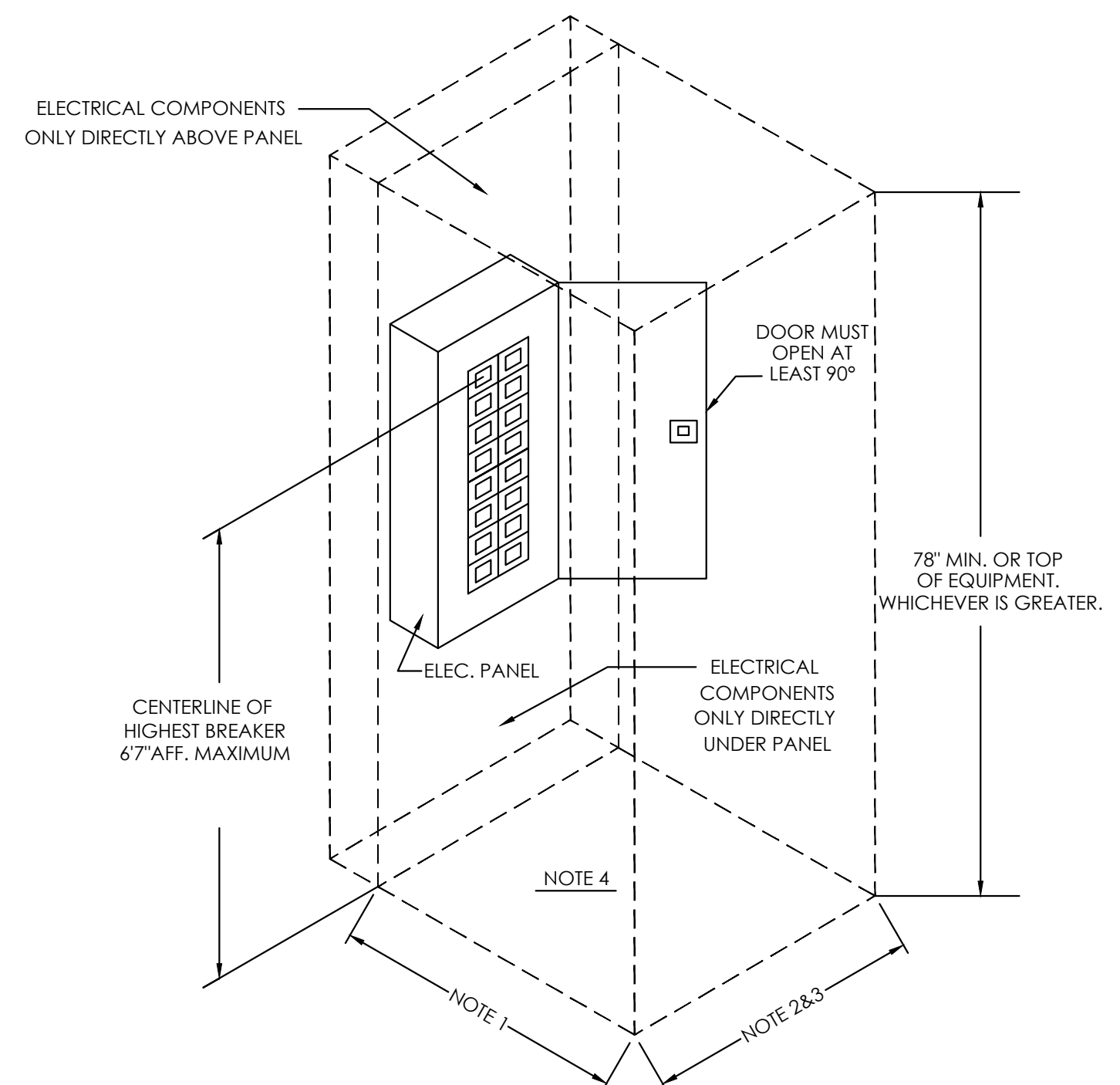
ANSI/UL1479 (ASTM E814)	CANULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft
	L Rating at 400 F — Less Than 1 CFM/sq ft



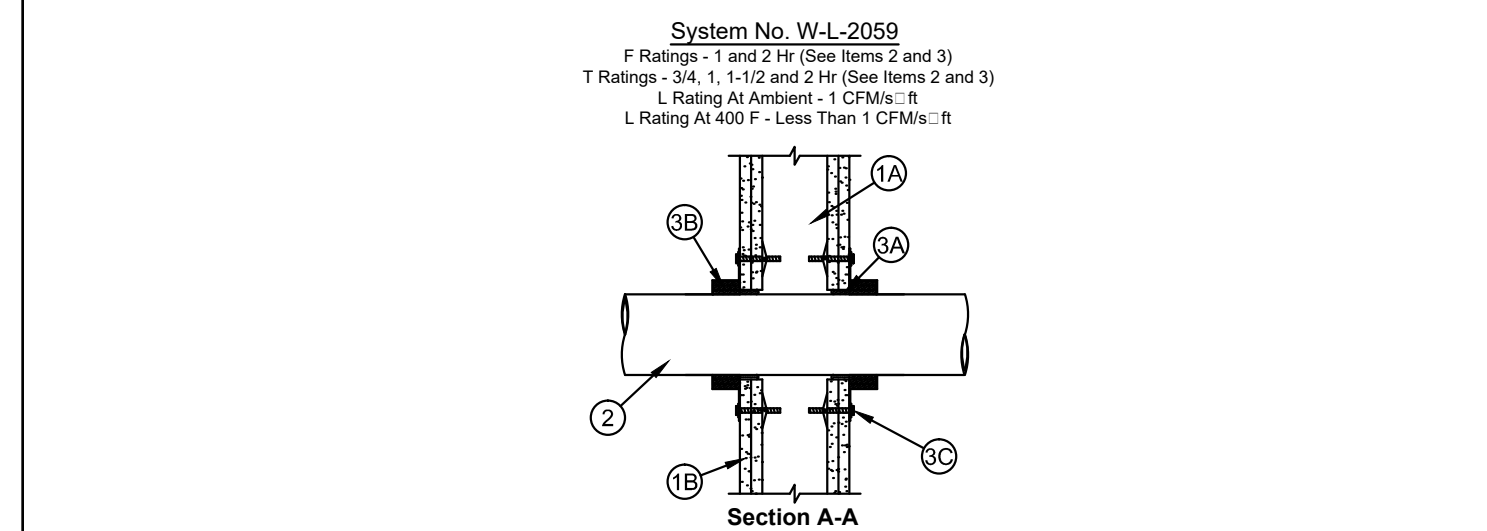
- Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
  - Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nominal 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wide and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
  - Gypsum Board — 5/8 in. (16 mm) thick, 4 ft (122 mm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.
- Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the freestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
  - Steel Pipe — Nom 3/4 in. (19.2 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
  - Iron Pipe — Nom 3/4 in. (19.2 mm) diam (or smaller) cast or ductile iron pipe.
  - Conduit — Nom 1/2 in. (12.7 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) diam steel conduit.
  - Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
  - Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
- Fill, Void or Cavity Material — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point of continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — FS-One Sealant or FS-One Max Intumescent Sealant



Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. October 14, 2015



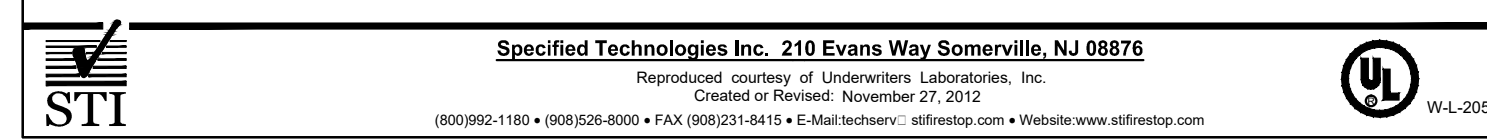
3 ELECTRICAL PANEL MOUNTING DETAIL  
NO SCALE



- Wall Assembly — The 1 or 2 hr fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 and V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
  - Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nominal 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
  - Gypsum Board — 5/8 in. (16 mm) thick, 4 ft (1219 mm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5 in. (127 mm).
- Through-Penetrants — One nonmetallic pipe or conduit to be centered within the freestop system. The annular space shall be max 1/4 in. (6 mm). Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
  - Polyvinyl Chloride (PVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 or 80 PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. When Schedule 80 PVC pipe is used, the F and T Ratings are 1 hr. When Schedule 80 PVC pipe is used in closed (process or supply) piping systems, the F and T Ratings are as listed in the assembly rating of the wall in which it is installed.
  - Rigid Nonmetallic Conduit — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 or 80 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NEC), NFPA No. 70. When Schedule 80 PVC conduit is used, the F and T Ratings are 1 hr.
  - Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
  - Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or foamed core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. When FRP pipe is used, T Rating is 3/4 hr.
  - Fire Retardant Polypropylene (FRPP) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
  - Polyethylene Fluoride (PVDF) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVDF pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
  - Fiberglass Reinforced Pipe (FRP) Pipe — Nom 4 in. (102 mm) diam (or smaller) glass fiber reinforced thermosetting resin pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. When FRP pipe is used, T Rating is 3/4 hr.
  - High Density Polyethylene (HDPE) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 HDPE pipe for use in closed (process or supply) piping systems.
- Freestop System — The freestop system shall consist of the following:
  - Fill, Void or Cavity Material — Sealant — Fill material forced into annular space to max extent possible. Caulk shall be installed flush with both surfaces of wall assembly. SPECIFIED TECHNOLOGIES INC. — SpecSeal 100, 101, 102, 105, 120 or 129 Sealant, SpecSeal LCI Sealant, Pensil 300 Sealant or SpecSeal Series SIL300 Sealant
  - Fill, Void or Cavity Material — Wrap Strip — Nom 1/8 or 3/16 in. (3.2 or 4.8 mm) thick intumescent material faced on both sides with a plastic film, supplied in 2 in. (51 mm) wide strips nom 1/4 in. (6 mm) thick intumescent material faced on both sides with a plastic film, supplied in 1-1/2 in. (38 mm) wide strips. The layers of wrap strips are individually wrapped around the through-penetrant with ends butted and held in place with masking tape. Butted ends in successive layers shall be aligned.

Fire Rating of Wall Hr	Max Diam of Through Penetrant (in/mm)	No. of Wrap Strip Layers	F Rating Hr	T Rating Hr
1	4 (102)	1	1	1
2	1-1/2 (38)	1	2	1-1/2
1	2 (51)	1	1	1
2	2 (51)	1	2	1-1/2
1	3 (76)	2	1	1
2	3 (76)	2	2	2
1	4 (102)	3	1	1
2	4 (102)	3	2	2

- Except as noted in Item 2, the F and T Rating of the freestop system is dependent upon the fire rating of wall, diam of through penetrant and the number of wrap strips as tabulated below.
- SPECIFIED TECHNOLOGIES INC. — SpecSeal BLU Wrap Strip, SpecSeal BLU2 Wrap Strip or SpecSeal RED Wrap Strip
- C. Steel Collar — Collar fabricated from coils of precast 0.016 in. (0.4 mm) thick (50 M5C) galv sheet steel available from wrap strip manufacturer. Collar shall be min 1-1/2 in. (38 mm) deep with 1 in. (25 mm) wide by 2 1/4 in. (61 mm) long anchor tabs for securement to the concrete floor or wall. Retainer tabs, 3/4 in. (19 mm) wide tapering down to 1/4 in. (6 mm) wide and located opposite the anchor tabs, are folded 90 degrees toward pipe surface to maintain the annular space around the pipe and to retain the wrap strips. Steel collar wrapped around wrap strips and pipe with a 1 in. (25 mm) wide overlap along its perimeter joint and secured together by means of a min 1/2 in. (13 mm) wide by 0.028 in. (0.7 mm) thick stainless steel hose clamp installed at mid-depth of the steel collar. As an alternate to the steel hose clamp, the steel collar may be secured together by means of three No. 8 by 1 1/4 in. (6 mm) long steel metal screws when more than one layer of wrap strip is used.
- Wrap strip/anchor assembly is slid along the through-penetrant until abuts the surface of the wall. Collar secured to wall by 1/8 in. (3.2 mm) diam by 1-3/4 in. (44 mm) long steel moly bolts in conjunction with 1-1/4 in. (32 mm) diam steel fender washers. The number of moly bolts used is dependent upon the nom diam of the through penetrant. Two moly bolts, symmetrically located, are required for nom 1-1/2 in. (38 mm) and 2 in. (51 mm) diam through penetrants. Three moly bolts, symmetrically located, are required for nom 2-1/2 in. (64 mm) and 3 in. (76 mm) diam through penetrants. Four moly bolts, symmetrically located, are required for nom 3-1/2 in. (89 mm) and 4 in. (102 mm) diam through penetrants. Steel collars are installed on each side of wall.
- D. Freestop Device — (Optional, Not Shown) — An alternate to Item 3B and 3C, galv steel collar lined with an intumescent material sized to fit the specific diam of the through-penetrant. Device shall be installed around through-penetrant in accordance with accompanying installation instructions. Device incorporates anchor tabs for securement to each surface of wall assembly by means of 1/8 in. (3 mm) diam by 1-3/4 in. (45 mm) long steel moly bolts in conjunction with 1/4 in. (6 mm) diam by 1-1/2 in. (38 mm) diam steel fender washers.
- SPECIFIED TECHNOLOGIES INC. — SpecSeal Freestop Collar, SpecSeal LCC Collar or SpecSeal SSC Collar. When SpecSeal LCC Collar or SpecSeal SSC Collar are used, the max annular space shall be 1/8 in. (3 mm) for max 2-1/2 in. (64 mm) diam pipe and shall be max 1/4 in. (6 mm) for pipe larger than 2-1/2 in. (64 mm) diam.
- Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876  
Reproduced courtesy of Underwriters Laboratories, Inc. Created or Revised: November 27, 2012  
(800)922-1180 • (888)626-8000 • FAX (908)231-8415 • E-Mail:tech@stire.com • Website:www.stire.com

1 NON-METALLIC PIPE (GYPSUM WALL) DETAIL  
NO SCALE

2 METALLIC PIPE (GYPSUM WALL) DETAIL  
NO SCALE

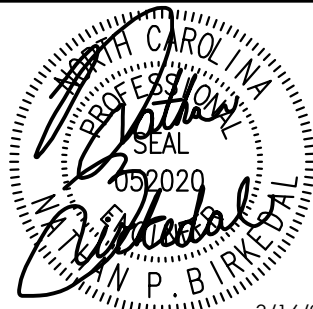
3/16/2023 12:01 PM  
PLC3204-REV02.DWG

FIRE RATING LEGEND  
 - - - - - 1-HR WALL

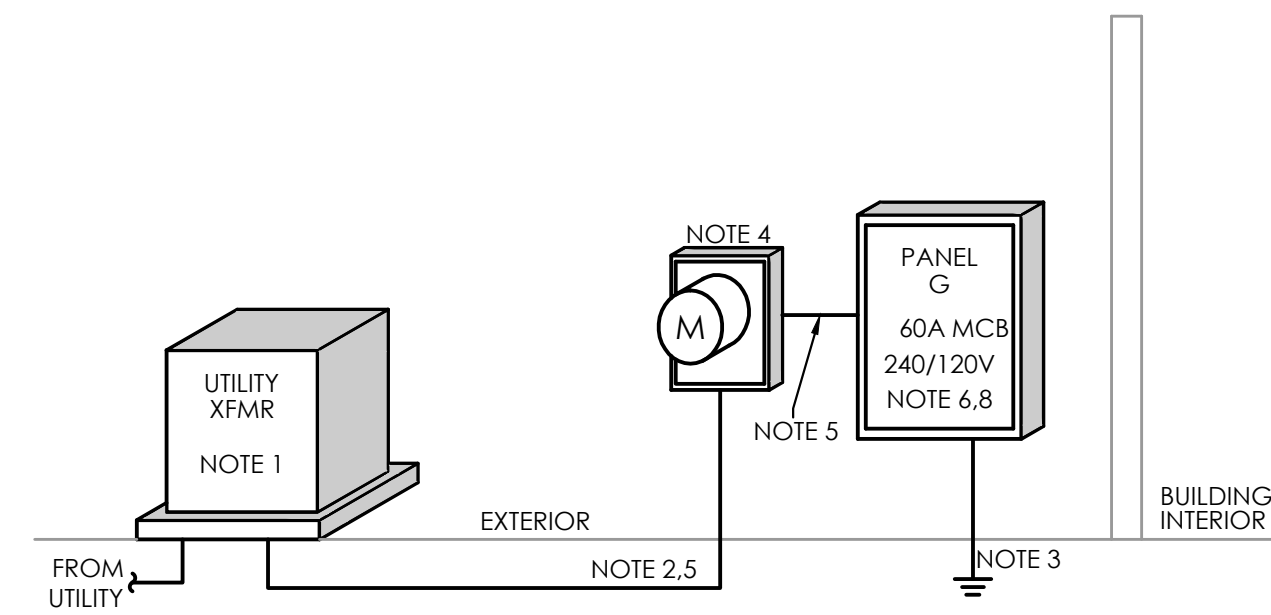


**PLANWORX**  
 ARCHITECTURE

5711 SIX FORKS ROAD, SUITE 100  
 RALEIGH NC 27609



3/16/23



**1 ELECTRICAL POWER RISER**  
 NO SCALE

**RISER DIAGRAM NOTES:**

- PAD MOUNTED TRANSFORMER BY UTILITY.
- SECONDARY CONDUCTORS SIZED, PROVIDED & INSTALLED BY E.C., CONFIRM INSTALLATION W/ UTILITY BEFORE BEGINNING WORK. IF RUN LENGTH EXCEEDS 150' CONTACT ENGINEER PRIOR TO PURCHASING MATERIAL OR BEGINNING WORK.
- #8 CU MAIN GROUNDING ELECTRODE CONDUCTOR TO GROUNDING SYSTEM (SEE DETAIL). BUILDING SHALL HAVE ONE GROUNDING ELECTRODE SYSTEM.
- 100A METER BASE PER UTILITY REQUIREMENTS. METER BY UTILITY.
- (3)#6 CU, 3/4" CONDUIT.
- PROVIDE PLACARD INDICATING AVAILABLE AIC FAULT CURRENT (NEC 110.24).
- PROVIDE PLACARD INDICATING ARC-FLASH HAZARD AT PANEL(S)/DISCONNECT(S). (NEC 110.16)
- UTILITY TRANSFORMER SPECS UNKNOWN AT TIME OF DESIGN COMPLETION. DESIGN IS BASED ON 42,000AIC. E.C. TO VERIFY TRANSFORMER PROPERTIES WITH UTILITY PRIOR TO PURCHASING EQUIPMENT. IF TRANSFORMER AIC IS LESS LOWER RATED EQUIPMENT MAY BE USED, IF HIGHER CONTACT ENGINEER. CIRCUIT BREAKERS WITH A LESSER LABELED AIC RATING MAY BE USED IF THOSE BREAKERS ARE PAIRED WITH AN UPSTREAM BREAKER OR FUSE AS PART OF A UL SERIES RATED COMBINATION. PAIRED DEVICES MUST BE IN ACCORDANCE WITH NEC 240.86. LABEL PER NEC 110.22(C). CONFIRM W/ EQUIPMENT MFG BEFORE PURCHASE. E.C. TO PROVIDE FIELD INSPECTOR WITH MFG'S DOCUMENTATION REGARDING UL SERIES RATING OF PAIRED BREAKERS/FUSES.

PANEL G LOAD SUMMARY				
LOAD TYPE	kVA CONN.	DEM. FACT.	kVA DEM.	
LOADS ON 60AMP MCB				
LIGHTS (CONN. LOAD)	0.4	1.25	0.5	
RECEPTACLES	1st 10 kVA	2.0	1.0	2.0
	REMAINDER	0.0	0.5	0.0
GARAGE DOOR OPENERS	6.3	1.0	6.3	
TOTALS	8.7		8.8	
TOTAL AMPS @ 240 V   1 PHASE	36.7			

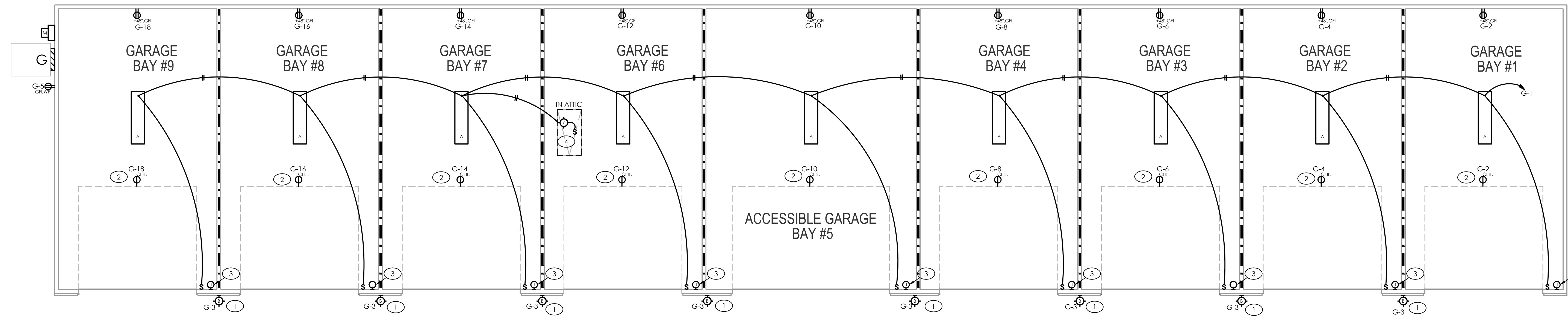
-DESCRIPTION-	GARAGE EXTERIOR										1 PHASE, 3 WIRE	
	PANEL: G											
AMPS: 60-MCB											SURFACE MOUNTED	
-DESCRIPTION-	POLE	WIRE SIZE	BK	CT#	A	B	BK	WIRE SIZE	POLE	-DESCRIPTION-		
LTS: GARAGE INTERIOR	1	12	20	1	0.3	0.9	2	20	12	1	REC./OPENER GARAGE #1	
LTS: EXTERIOR	1	12	20	3	0.1	0.9	4	20	12	1	REC./OPENER GARAGE #2	
REC: EXTERIOR	1	12	20	5	0.2	0.9	6	20	12	1	REC./OPENER GARAGE #3	
SPARE	1	-	20	7	0	0.9	8	20	12	1	REC./OPENER GARAGE #4	
SPARE	1	-	20	9	0	0.9	10	20	12	1	REC./OPENER GARAGE #5	
SPARE	1	-	20	11	0	0.9	12	20	12	1	REC./OPENER GARAGE #6	
SPACE	1	-	-	13	0	0.9	14	20	12	1	REC./OPENER GARAGE #7	
SPACE	1	-	-	15	0	0.9	16	20	12	1	REC./OPENER GARAGE #8	
SPACE	1	-	-	17	0	0.9	18	20	12	1	REC./OPENER GARAGE #9	
SPACE	1	-	-	19	0	0	20	-	-	1	SPACE	
TOTAL CONNECTED kVA:	8.7					DEMAND kVA:		8.8				
PANEL RMS SYM. AMPS:	SEE RISER					DEMAND AMPS:		36.7				

- GENERAL NOTES - THIS SHEET**
- FINAL CONNECTION TO ALL EQUIPMENT/FURNITURE BY E.C..
- TAGGED NOTES - THIS SHEET**
- LIGHTING CIRCUIT TO BE CONTROLLED VIA PHOTOCELL. SEE PANEL SCHEDULE.
  - PROVIDE POWER FOR GARAGE DOOR OPENER. COORDINATE EXACT LOCATION WITH G.C..
  - PROVIDE JUNCTION BOX AND 1/2" CONDUIT W/ PULL STRING TO GARAGE DOOR OPENER FOR CONTROLS. COORDINATE EXACT LOCATION WITH G.C. AND OWNER.
  - PROVIDE LIGHT AND SWITCH AT ATTIC ACCESS. COORDINATE EXACT LOCATION WITH G.C..

NOTE: "A" LIGHTS TO INCLUDE INTEGRAL MOTION SENSOR, TYPICAL OF ALL.

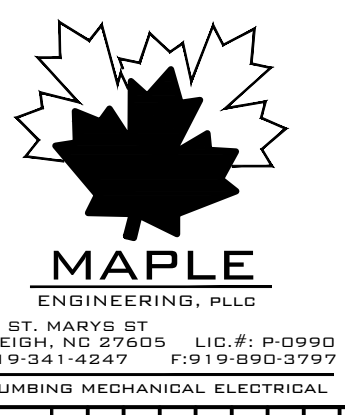
NOTE: ALL GARAGE RECEPTACLES ARE TO BE TAMPER RESISTANT TYPE.

- PANEL SHALL BE SERVICE ENTRANCE RATED, EQUAL TO SQUARE D NO.
- PC - CIRCUIT THROUGH PHOTOCELL LOCATED ON NORTH FACE OF BUILDING.



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

Fairway Point Garage Building  
 H&H Constructors, Inc.  
 Gallery Dr, Spring Lake, NC 28390  
 Issued For Permit Review



PROJECT NO:	001123
DRAWN BY:	KNB
CHECKED BY:	NPB
SHEET TITLE:	ELECTRICAL GARAGE PLAN
SHEET NUMBER:	E101

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