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Aspen Homes

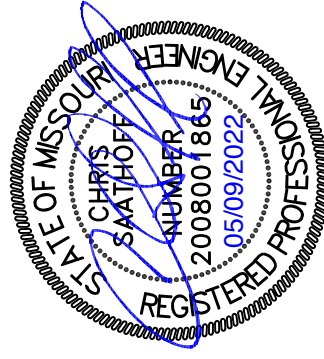
Hickory GR Walk-Out Lot 91 HF
2022 SW Harvest Moon Ln.
Lee's Summit, MO

Our firm has been asked to make structural clarifications to the plans of the house to be built at the address listed above. During the permit review process the AHJ has questioned items. Below is a list of our recommendations along with the corresponding city item.

- The unfinished basement square footage is incorrect. It should be close to matching the 1st Floor square footage. Should be close to 1383.
See revised Sheet S-0.2 with clouded square footage.
- Need to remove the "Optional Back Elevation" from Sheet S-0.1
See revised Sheet S-0.1 with clouded elevation removal.
- Need to remove the Options plan sheet completely. Sheet S-0.4
See revised Sheets with previous Sheet S-0.4 removed.

This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted engineering practices. No warranties, either express or implied, are intended or made.

We appreciate the opportunity to be of service to you on this project. If you have any questions regarding this report, please contact us.



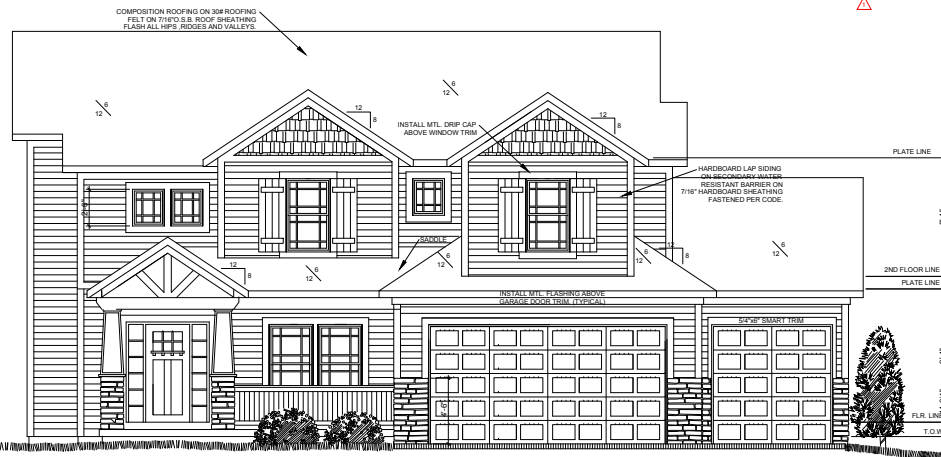
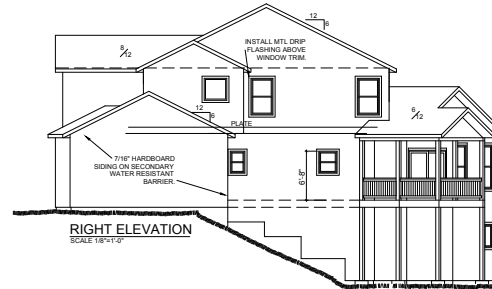
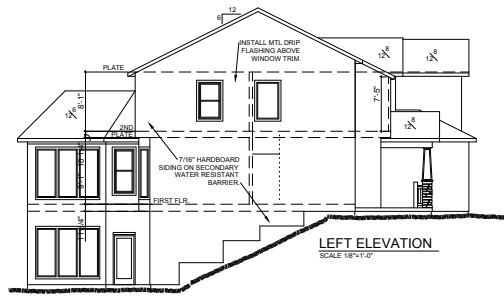
STRUCTURAL REVIEW
HD ENGINEERING & DESIGN
HD: 43036 DATE: 5/9/2022

RELEASE FOR CONSTRUCTION
AS NOTED TO PERMITS
DEVELOPER'S REVIEW
LEE'S SUMMIT, MISSOURI

05/16/2022

1566 W. 75th Street
Shawnee, KS 66214

913-631-2222
service@hdengineers.com



**MARSHALL HOME DESIGN
BUILDERS PLAN DEFINITION**

THIS REPRESENTS OUR DESIGN TO A SPECIFIC LEVEL OF DEVELOPMENT OF THE DRAWINGS. AS THE HOME BUILDER, YOU SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED TO THEM BY THE OWNER AND FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED TO THEM BY THE OWNER AND FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED TO THEM BY THE OWNER AND FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED TO THEM BY THE OWNER AND FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED TO THEM BY THE OWNER AND FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED TO THEM BY THE OWNER AND FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED TO THEM BY THE OWNER AND FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

FRONT DOOR AND GARAGE DOOR STYLE MAY BE DIFFERENT THAN WHAT IS SHOWN ON PLANS. VERIFY STYLE WITH BUILDER.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONSTRUCT THIS DWELLING IN COMPLIANCE WITH ALL LOCAL, BUILDING CODES AND REQUIREMENTS AS ADOPTED BY THE CITY OF KANSAS CITY, MISSOURI.

HD ENGINEERING & DESIGN, INC.
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05/09/2022 CITY COMMENTS

ASPEN HOMES, INC.
HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
2022 SW HARVEST MOON LN. LEE'S SUMMIT, MO

STRUCTURAL DETAILS & NOTES

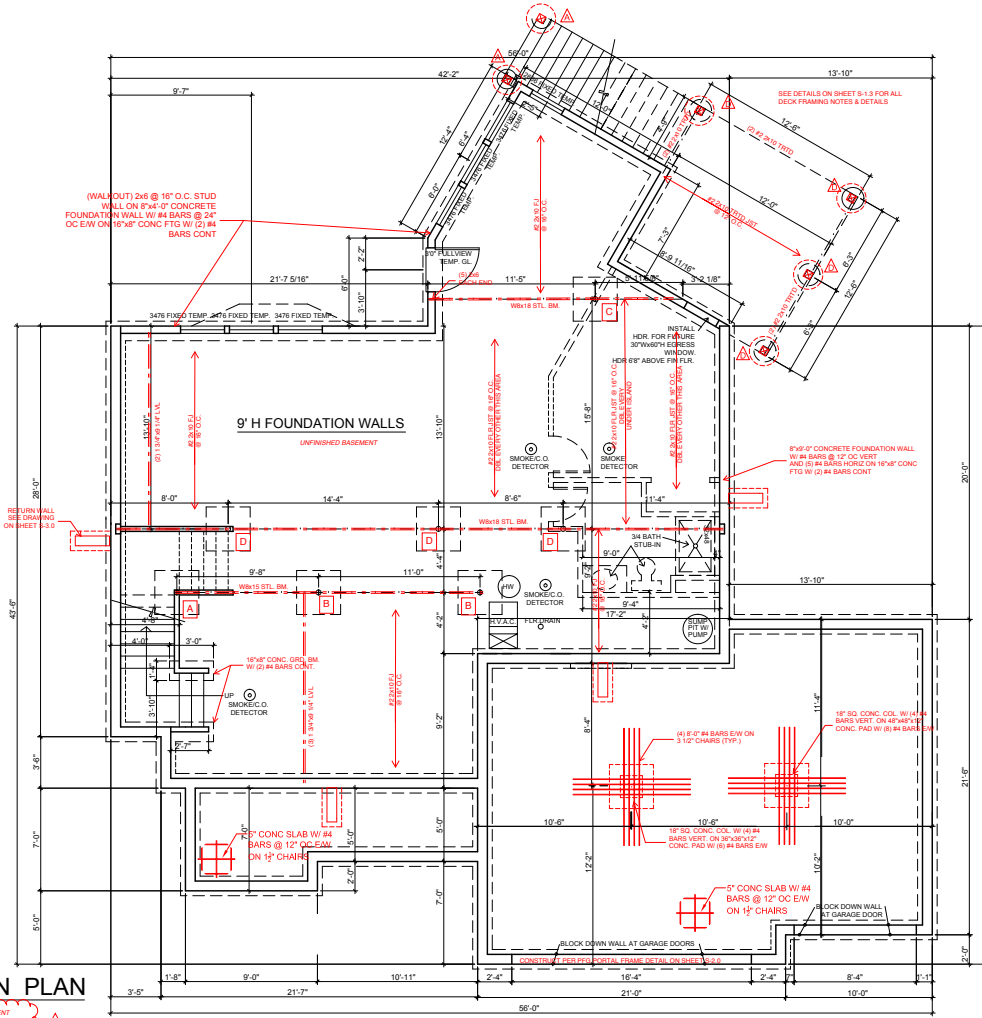
HD#: 43036
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NO.	ISSUE/REVISION	Revision Date

PLANS DRAWN BY OTHERS

S-0.1

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
05/16/2022



FOUNDATION PLAN

SCALE 1/4"=1'-0"

UNFINISHED BASEMENT

- DECK PIER SCHEDULE**
- ▲ MIN. 6X6 TREATED POST ON 12" CONC. PIER WITH USF PAU 66 BASE OR - (1179 MAX)
 - ▲ MIN. 6X6 TREATED POST ON 18" CONC. PIER WITH USF PAU 66 BASE OR - (2059 MAX)
 - ▲ MIN. 6X6 TREATED POST ON 24" CONC. PIER WITH USF PAU 66 BASE OR - (2939 MAX)
 - ▲ MIN. 6X6 TREATED POST ON 30" CONC. PIER WITH USF PAU 66 BASE OR - (4719 MAX)

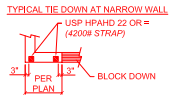
- COLUMN PAD SCHEDULE**
- A 3" SCH. 40 STL. COL. ON 30"x30"x12" CONC. PAD W/ (5) #4 BARS E.W. (8.4K MAX.)
 - B 3" SCH. 40 STL. COL. ON 30"x30"x12" CONC. PAD W/ (8) #4 BARS E.W. (15.2K MAX.)
 - C 3.12" SCH. 40 STL. COL. ON 42"x42"x14" CONC. PAD W/ (7) #4 BARS E.W. (18.4K MAX.)
 - D 3.12" SCH. 40 STL. COL. ON 48"x48"x14" CONC. PAD W/ (8) #4 BARS E.W. (24K MAX.)
 - E 3.12" SCH. 40 STL. COL. ON 54"x54"x14" CONC. PAD W/ (9) #4 BARS E.W. (30.4K MAX.)
 - F 3.12" SCH. 40 STL. COL. ON 60"x60"x14" CONC. PAD W/ (10) #4 BARS E.W. (37.5K MAX.)

NOTES

1. COLUMN AND PIER PAD SIZES SHOWN ARE FOR MAX. COLUMN HEIGHT OF 10'-0" TALL.
2. COLUMN AND PIER PAD SIZES SHOWN ARE BASED ON AN ASSUMED 1500 PSF. THIS IS THE CAPACITY REQUIRED BY ALL UNFINISHED GENERAL NOTES ON S-1 FOR MORE DETAILS.
3. ALL STEEL COLUMNS SHALL BE ISOLATED FROM SLABS WITH APPROVED ISOLATION DEVICE OR JOINT.

GENERAL NOTES

1. WINDOWS SHALL HAVE FALL PROTECTION PER IRC 312.4 (HOUSE WILL BE PROVIDED WITH A "USER" GROUND PER IRC SECTION 310.1.5)
2. COVERHEAD GARAGE DOORS MUST MEET DASHA REQUIREMENTS SEE DETAIL SHEET S-1.0
3. ALL HEADERS NOT LABELED SHALL BE MIN. (2) 2X10 DFL. COL. ALL SET UNDER ISLAND
4. JOBS IN THIS AREA COMMONLY HAVE A VERY HIGH SHRINK SWELL CAPACITY. OUR FIRM RECOMMENDS ALL SITES BE EVALUATED BY A GEOTECHNICAL FIRM PRIOR TO PLACEMENT OF FOUNDATIONS - PROVIDE CAPTION MEMORANDUM AND SMOKE DETECTORS PER IRC REQUIREMENTS
5. ANY PORTION OF THESE PRINTS ISSUED WITHOUT A MIN. OF S-1.0 SHALL NOT BE CONSIDERED A COMPLETE SET OF CONSTRUCTION DOCUMENTS
6. INSTALL WRETS STEEL BEAM MIN. UNDER ALL 4" WALLS/MARTINS (THAT WILL RECEIVE ROCK) UNLESS NOTED AS A LARGER BEAM ANY STONE OR 2" DEEP NOTIFY ENG. TO REPLY LOADS
7. FOUNDATION SHALL BE CONSTRUCTED PER JOHNSON COUNTY RESIDENTIAL FOUNDATION GUIDE. SEE ATTACHED
8. ICE AND WATER SHIELD AS REQUIRED PER IRC



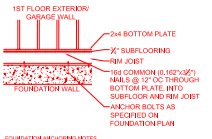
BRACED WALLS

SEE CALCULATIONS ON SHEET S-2.6. PER ASCE 7-10 REQUIREMENTS AS ALLOWED BY IRC 2018.200 2.1.1

ALL EXTERIOR WALLS SHALL BE SHEATHED PER ANY ONE OF THE FOLLOWING OPTIONS:

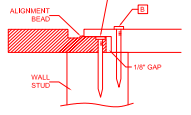
1. 7/8" SPACED PLYWOODS WITH 8d NAILS @ 6" O.C. AT EDGES AND @ 12" O.C. IN THE FIELD
2. 7/8" SHEATHING PANELS SHEATHING I.E. 1/2" SHARTSIDE OR EQUIVALENT WITH 8d NAILS @ 6" O.C. AT EDGES AND @ 12" O.C. IN THE FIELD
3. 3/8" SHPLAT SHEATHING I.E. 1/2" SHARTSIDE OR EQUIVALENT WITH 8d NAILS @ 4" O.C. AT EDGES AND @ 12" O.C. IN THE FIELD

INTERIOR BRACED WALL LOCATIONS ONLY SHOWN WHEN REQUIRED BY ADDITIONAL BRACING SECTION OF CALCULATIONS ON SHEET S-2.6



FOUNDATION ANCHORING NOTES

1. ALL 12\"/>



FOUNDATION PLAN NOTES

RELEASE FOR CONSTRUCTION
 AS NOTED FOR PLAN REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI

05/16/2022

HD ENGINEERING & DESIGN, INC
 1311 SHAWANEE AVE. SUITE 111
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 SERVICE@HDENGINEERS.COM



05/09/2022 CITY COMMENTS

ASPEN HOMES, INC.
 HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
 2022 SW HARVEST MOON LN. LEE'S SUMMIT, MO

STRUCTURAL DETAILS & NOTES

HD#: 43036

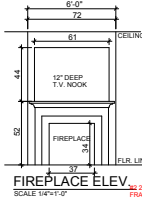
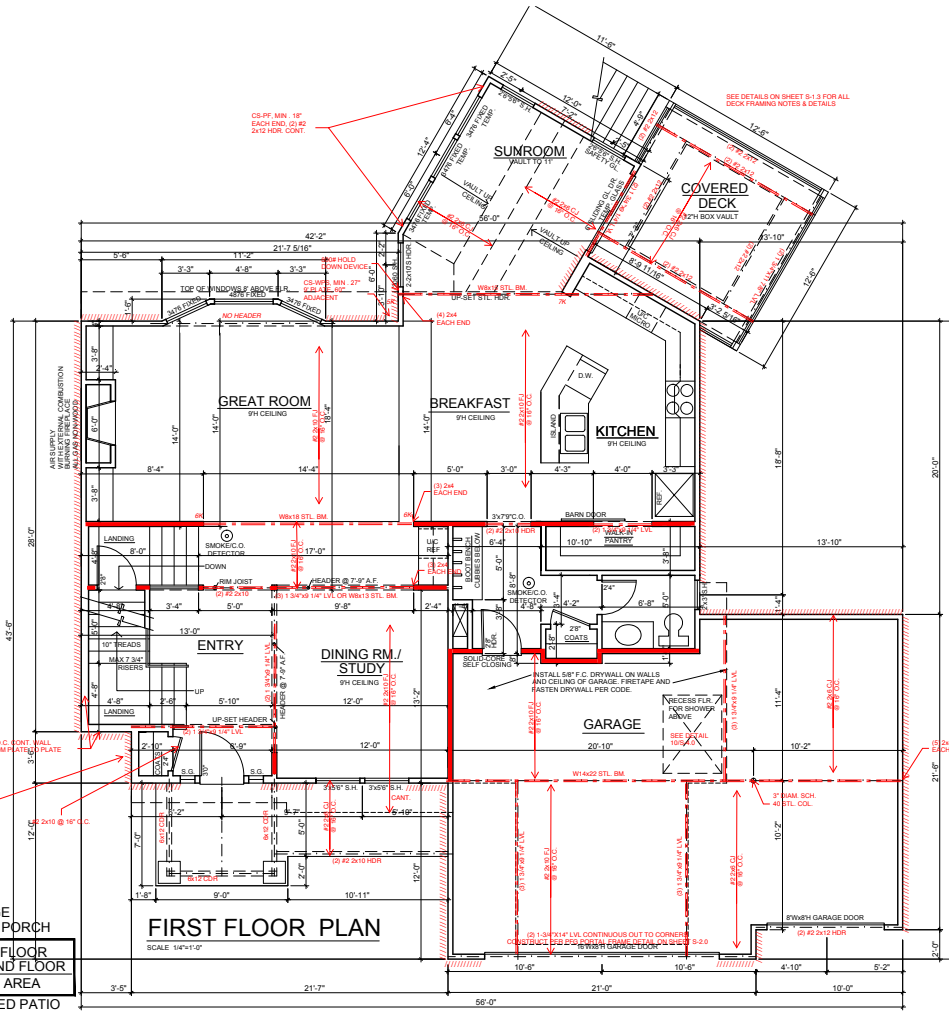
DATE: 04/28/2022

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NO.	ISSUE/REVISION	Revision Date

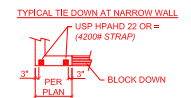
PLANS DRAWN BY OTHERS

S-0.2

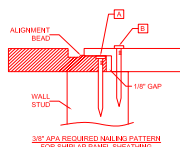
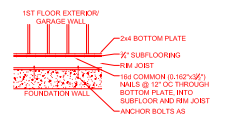


- LOAD BEARING WALL
- LOAD BEARING BEAM
- SMOKE DETECTOR
- CARBON MONOXIDE SENSOR

GENERAL NOTES:
 - WINDOW SHALL HAVE FALL PROTECTION PER IRC 312.2.4
 - HOUSE WILL BE PROVIDED WITH A "USER" GROUND PER IRC SECTION 3608.1.5
 - OVERHEAD GARAGE DOORS MUST MEET DADMA REQUIREMENTS SEE DETAIL SHEET S-1.9
 - ALL READERS NOT LABELED SHALL BE MIN (2) #2 X19 DFL
 - 2"X6 ALL 2"X8 (UNDER ISLAND)
 - ISLAND AT THE AREA COMMONLY HAVE A VERY HIGH BREAKER SMALL CAPACITY. OUR FIRM RECOMMENDS ALL SITES BE EVALUATED BY A GEOTECHNICAL FIRM PRIOR TO PLACEMENT OF FOUNDATIONS
 - PROVIDE CARBON MONOXIDE AND SMOKE DETECTORS PER IRC REQUIREMENTS
 - ANY PORTION OF THESE PRINTS ISSUED WITHOUT A MIN. OF S-1.0 - S-4.4 SHALL NOT BE CONSIDERED A COMPLETE SET OF CONSTRUCTION DOCUMENTS
 - INSTALL WELLS STEEL BEAM MIN. UNDER ALL F.P. WALLS/EARTHS (THAT WILL RECEIVE ROCK UNLESS NOTED AS A LARGER BEAM. ANY STONE OVER 2" DEEP, NOTIFY ENG. TO VERIFY LOADS)
 - FOUNDATION SHALL BE CONSTRUCTED PER JOHNSON COUNTY RESIDENTIAL FOUNDATION GUIDELINE. SEE ATTACHED -ICE AND WATER SHIELD AS REQUIRED PER IRC



BRACED WALLS:
 - SEE CALCULATIONS ON SHEET S-3.0. PER AC308-10 REQUIREMENTS AS ALLOWED BY IRC 601.8 PER S-1.1
 - ALL EXTERIOR WALLS SHALL BE SHEATHED PER ANY ONE OF THE FOLLOWING OPTIONS:
 - 7/8" APA-RATED PLYWOOD/OSB WITH 8 NAILS @ 8" O.C. AT EDGES AND @ 16" O.C. IN THE FIELD
 - 7/8" SHIP-LAP PANEL SHEATHING (I.E. LP SMARTSIDE OR EQUIVALENT) WITH 8 NAILS @ 8" O.C. AT EDGES AND @ 16" O.C. IN THE FIELD
 - 1/2" SHIP-LAP PANEL SHEATHING (I.E. LP SMARTSIDE OR EQUIVALENT) WITH 8 NAILS @ 4" O.C. AT EDGES AND @ 16" O.C. IN THE FIELD
 - INTERIOR BRACED WALL LOCATIONS ONLY SHOWN WHEN REQUIRED BY ADDITIONAL BRACING SECTION OF CALCULATIONS ON SHEET S-3.0



NAILING WITH SPACING AS SPECIFIED FOR PLAN. FOR EXAMPLE: IF REQUIRED SPACING IS 4" O.C. BOTTOM LAP SHALL FIRST BE Nailed @ 4" O.C. (MAX. 2x), THEN FULL DEPTH SECTION OF OVERLAP SHALL BE Nailed @ 4" O.C. (MAX. 1x)

FIRST FLOOR PLAN NOTES

HD ENGINEERING & DESIGN, INC.
 117 SHAWNEE, 1ST FLOOR
 STAMPAW, MO 64085
 WWW.HDENGINEERS.COM
 816.831.2222
 SERVICE@HDENGINEERS.COM



ASPEN HOMES, INC.
 HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
 2022 SW HARVEST MOON LN. LEE'S SUMMIT, MO

STRUCTURAL DETAILS & NOTES

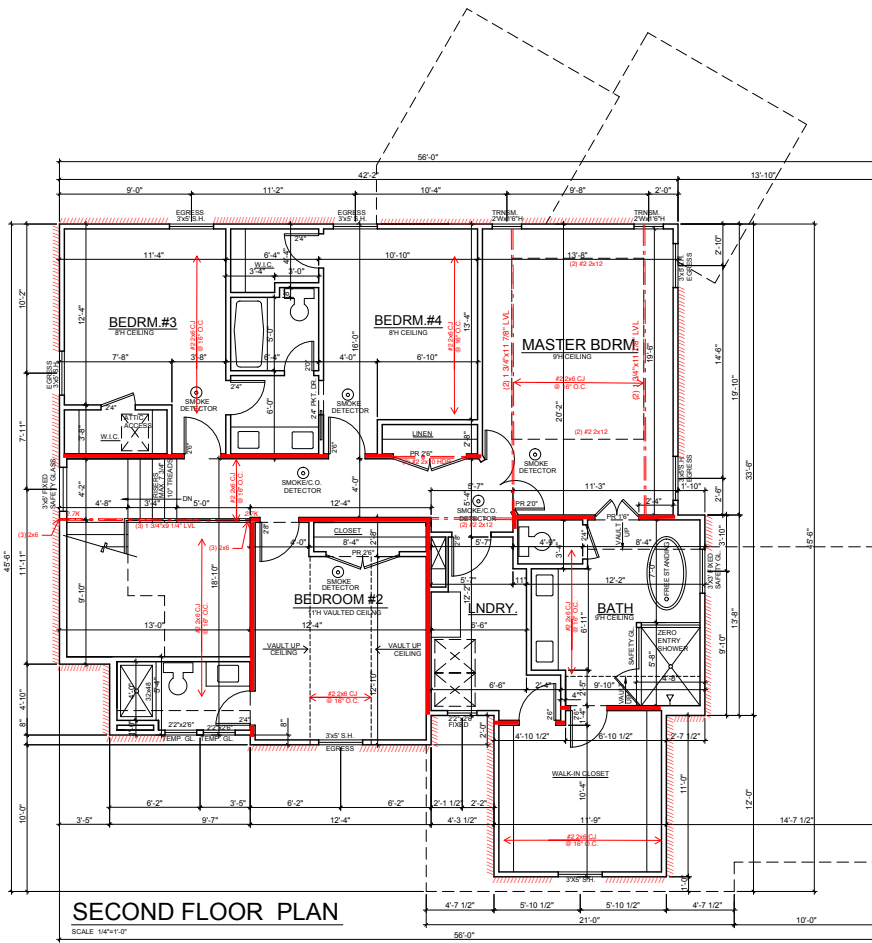
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PLANS DRAWN BY OTHERS

S-0.3

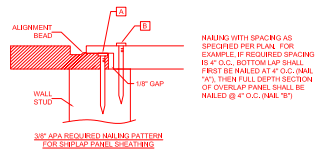
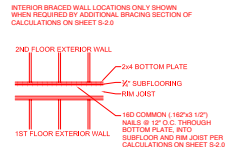
RELEASE FOR CONSTRUCTION
 AS NOTED FOR PLAN REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
05/16/2022



- LOAD BEARING WALL
- LOAD BEARING BEAM
- SMOKE DETECTOR
- CARBON MONOXIDE SENSOR

GENERAL NOTES:
 INTERIOR WALL PROTECTION PER IRC 310.2.4 HOUSE WILL BE PROVIDED WITH A "UPPER" GROUND PER SECTION 308.1.5 OVERHEAD GARAGE DOORS MUST MEET DADMA REQUIREMENTS SEE DETAIL SHEET S-1.5
 ALL HEADERS NOT LABELED SHALL BE MIN (2) #2 X10 DFL JOE ALL SET UNDER ISLAND
 SOLS IN THIS AREA COMMONLY HAVE A VERY HIGH SHRINK SWELL CAPACITY. OUR FIRM RECOMMENDS ALL SITES BE EVALUATED BY A GEOTECHNICAL FIRM PRIOR TO PLACEMENT OF FOUNDATIONS PROVIDE CARBON MONOXIDE AND SMOKE DETECTORS PER IRC REQUIREMENTS
 ANY PORTION OF THESE PRINTS ISSUED WITHOUT A MIN. OF S-1.0 S-4.0 SHALL NOT BE CONSIDERED A COMPLETE SET OF FOUNDATION SHALL BE CONSULTED PER JOHNSON COUNTY RESIDENTIAL FOUNDATION GUIDELINE. SEE ATTACHED ICE AND WATER SHIELD AS REQUIRED PER IRC

BRACED WALLS:
 SEE CALCULATIONS ON SHEET S-2.0 PER ASCE 7-10 REQUIREMENTS AS ALLOWED BY IRC 2018 R601.3.1
 ALL EXTERIOR WALLS SHALL BE SHEATHED PER ANY ONE OF THE FOLLOWING OPTIONS:
 1) 1/2" OSB SHEATHING OVER 2x4 STUDS WITH 16" O.C. NAILS @ 4" O.C. AT EDGES AND @ 12" O.C. IN THE FIELD
 2) 5/8" SHIP LAP PANEL SHEATHING (I.E. LP SMARTSIDE OR EQUIVALENT) WITH 80 NAILS @ 8" O.C. AT EDGES AND @ 12" O.C. IN THE FIELD
 3) 5/8" SHIP LAP PANEL SHEATHING (I.E. LP SMARTSIDE OR EQUIVALENT) WITH 80 NAILS @ 4" O.C. AT EDGES AND @ 12" O.C. IN THE FIELD



3/8\"/>

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ASPEN HOMES, INC.
 HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
 2022 SW HARVEST MOON LN. LEE'S SUMMIT, MO
 STRUCTURAL DETAILS & NOTES

HD#: 43036
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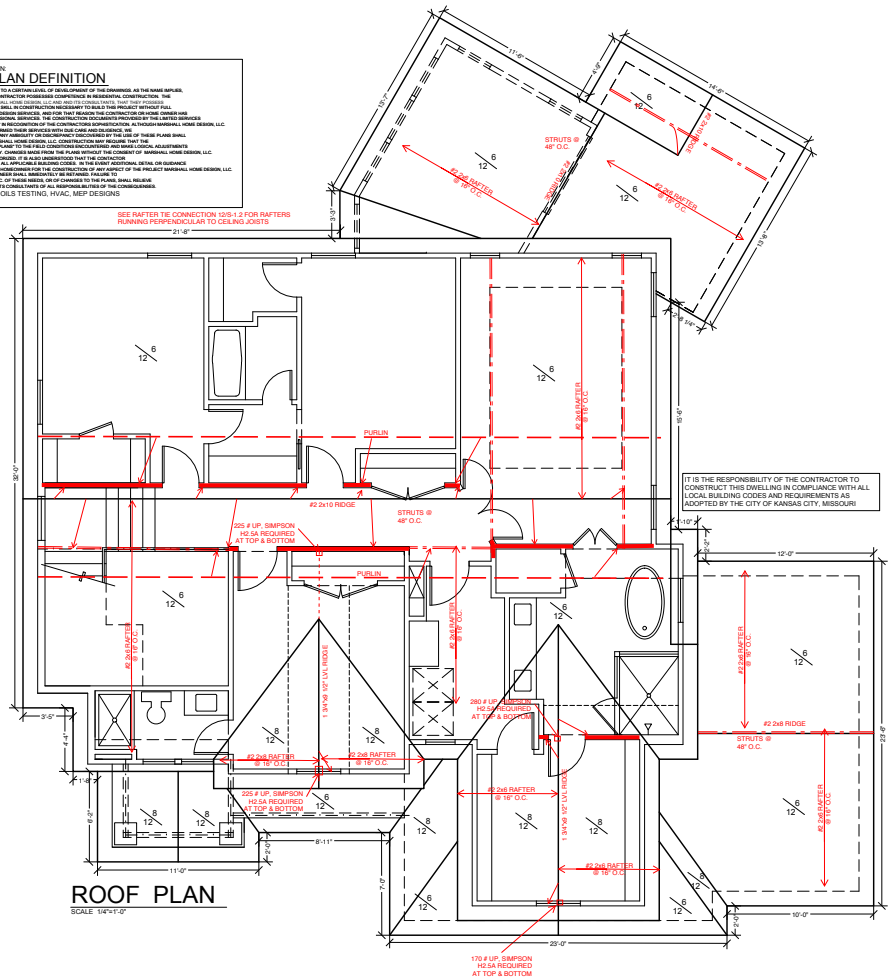
PLANS DRAWN BY OTHERS

S-0.4

RELEASE FOR CONSTRUCTION
 AS NOTED FOR PLAN REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
05/16/2022

MARSHALL HOME DESIGN BUILDERS PLAN DEFINITION

THIS SET OF PLANS IS A PRELIMINARY DESIGN AND IS SUBJECT TO THE APPROVAL OF THE CITY OF KANSAS CITY, MISSOURI. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION.



NOTES

ROOF DESIGNED FOR LIGHT ROOF COVERING 30PSF
 TOTAL LOAD (W/SP FL. CL. OR SF FL. CL.)

RAFTERS (DOUBLE OR EQUAL) SEE SPAN CHARTS BELOW

CODE MINIMUM

RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN
R2-06	6'0" O.C.	17'-11"
R2-08	8'0" O.C.	16'-11"
R2-08	8'0" O.C.	15'-11"
R2-08	8'0" O.C.	15'-0"
R2-10	10'0" O.C.	15'-5"
R2-10	8'0" O.C.	12'-6"

NOTE: CODE MINIMUM LOAD DEFLECTION:

GREATER THAN CODE

RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN
R2-08	8'0" O.C.	7'-0"
R2-08	8'0" O.C.	7'-0"
R2-08	8'0" O.C.	11'-0"
R2-08	8'0" O.C.	12'-0"
R2-10	8'0" O.C.	14'-0"
R2-10	8'0" O.C.	15'-0"

DEFLECTION: L/300 LIVE LOAD, L/240 TOTAL LOAD VAULTS TO BE 2x10 DEPTH

ALL RIDGES, HPS, AND VALLEYS NOT MARKED SHALL BE (1) NOMINAL SIZE LARGER THAN THE INTERSECTING RAFTERS

PUHLIN ARE 2x6 MIN.
 PURLIN STRUTS ARE AT 4'-0" O.C.
 PURLIN STRUTS SHALL BE INSTALLED AT NOT LESS THAN A 45 DEGREE ANGLE WITH THE HORIZONTAL
 ALL PURLIN STRUTS SHALL HAVE A MAXIMUM UNBRACED LENGTH OF 8'-0"
 PURLIN STRUTS SHALL BE CONSTRUCTED IN A "T" CONFIGURATION AND PER THE FOLLOWING CHART

PURLIN STRUT	MAX PURLIN STRUT LENGTH
(2) 2x6	8'-0"
(1) 2x6 & 1x16	12'-0"
(1) 2x6 & 1x12	10'-0"
(2) 2x6 & 1x12	10'-0"
(1) 2x6 & 1x8	10'-0"

CONSULT ARCHITECT.

EACH END OF STRUT SHALL BE FASTENED WITH MIN. (3) 8d OR (2) 16d NAILS
 RIDGE BRACES ARE SAME AS PURLIN BRACES
 SPACING, SIZE, CONFIGURATION, AND INSTALLATION (SEE PURLIN BRACE NOTE ABOVE)
 HIP AND VALLEY BRACES ARE THE SAME AS PURLIN SIZE, CONFIGURATION, AND INSTALLATION (SEE PURLIN BRACE NOTES ABOVE)

SEE DETAILS 1, 5, 6, 7, 11, 12, 13, & 14 ON S-12 FOR ROOF FRAMING AND INSULATION OPTIONS

- - - - - PURLIN
- - - - - LOAD BEARING WALL
- - - - - LOAD BEARING BEAM/ GIRDER PER PLAN

SEE DETAIL 125-1.2 FOR RAFTER TIE CONNECTION FOR CLG JOISTS PERPENDICULAR TO HIP RAFTERS

ALL RIDGES, HPS, & VALLEYS SHALL BE FASTENED TO EXTERIOR WALLS, BEAMS, OR LOAD-BEARING WALL TOP PLATE PER FRAME FASTENING SCHEDULE ON S-15, AND PER FIG. 11, ALL UP/LIFT COVER DOOP SHALL BE FASTENED AS SHOWN ON THIS PLAN SHEET

- ALL RAFTERS SHALL BE FASTENED TO TOP PLATE WITH (3) 10 COMMON NAILS
- IF ADDITIONAL HOLD-DOWN STRAP REQUIRED: x=UP/LIFT FORCE (POUNDS), REQUIRED SIMPSON HOLD-DOWN
- (1) SIMPSON STRAP FASTENED TO STRUCTURAL HIP VALLEY OR RIDGE AND STRUT SUPPORT MUST ALSO STRAP BOTTOM END OF STRUT TO SCAM/MBL BELOW WITH SAME SIZE STRAP



ASPEN HOMES, INC.
 HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
 2022 SW HARVEST MOON LN. LEE'S SUMMIT, MO

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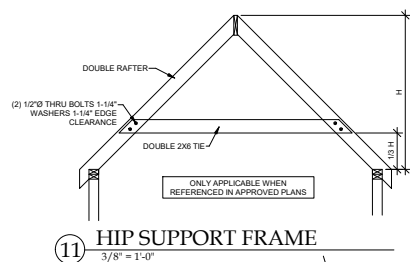
PLANS DRAWN BY OTHERS

S-0.5

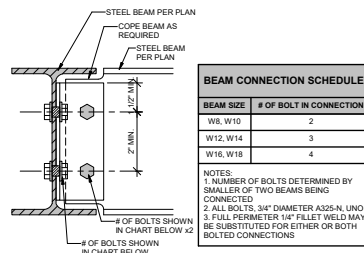
RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI

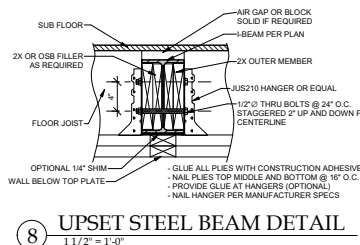
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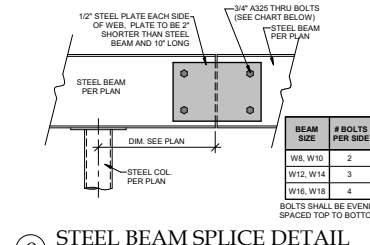
11 HIP SUPPORT FRAME
3/8" = 1'-0"



10 BEAM TO GIRDER CONNECTION
3" = 1'-0"



8 UPSET STEEL BEAM DETAIL
1 1/2" = 1'-0"



9 STEEL BEAM SPLICE DETAIL
1 1/2" = 1'-0"

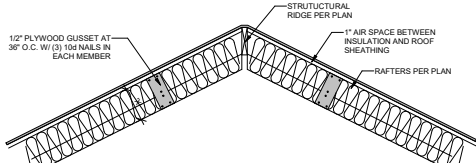
BEAM CONNECTION SCHEDULE

BEAM SIZE	# OF BOLT IN CONNECTION
W8, W10	2
W12, W14	3
W16, W18	4

NOTES:
1. NUMBER OF BOLTS DETERMINED BY SMALLER OF TWO BEAMS BEING CONNECTED
2. ALL BOLTS: 3/4" DIAMETER A325-N, UNO
3. FULL PERMEATE 1/4" FILLET WELD MAY BE SUBSTITUTED FOR EITHER OR BOTH BOLTED CONNECTIONS

HIP VALLEY ALLOWABLE SPAN TABLE

TYPE	2x8	2x10	2x12	1 3/4" x 9 1/2" LVL	1 3/4" x 11 7/8" LVL
HIP RAFTER	11'-3"	13'-3"	15'-2"	15'-4"	18'-2"
VALLEY RAFTER	8'-11"	10'-4"	12'-0"	13'-2"	15'-3"

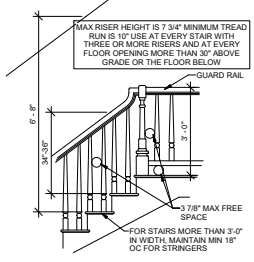


14 VAULTED RAFTER INSULATION
3/4" = 1'-0"

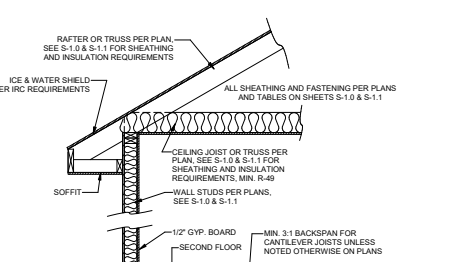
VAULT FURR DOWN SCHEDULE

RAFTER SIZE	R-30C INSULATION (X = 9 1/4")	R-38C INSULATION (X = 11 1/4")
2x8	2x8	2x8
2x10	NOT REQUIRED	2x4
2x12	NOT REQUIRED	2x2

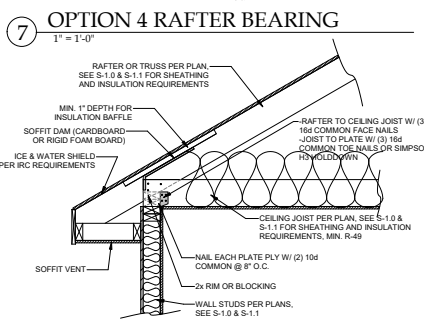
NOTES:
1. ALL VAULTS SHALL BE FURRED DOWN WITH 2x FRAMING TO TEH REQUIRED DEPTH OF INSULATION PLUS 1" AIR SPACE.
2. R-38C REQUIRED = 1" WITH AIR SPACE.
3. ALL VAULTED RAFTERS SHALL BE MIN. #2 2x6 DFL @ 16" O.C. OR PER ROOF PLAN.



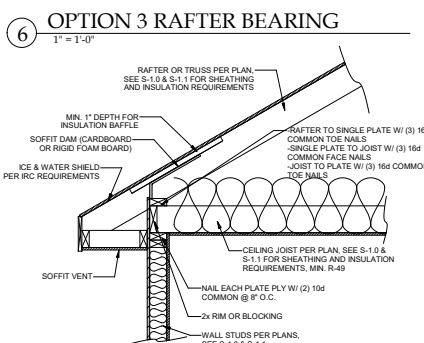
4 STAIR/ RAIL DETAIL
1/2" = 1'-0"



1 TYPICAL WALL SECTION
3/4" = 1'-0"



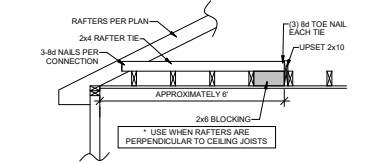
7 OPTION 4 RAFTER BEARING
1" = 1'-0"



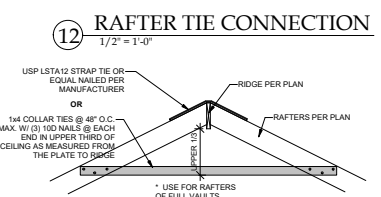
6 OPTION 3 RAFTER BEARING
1" = 1'-0"



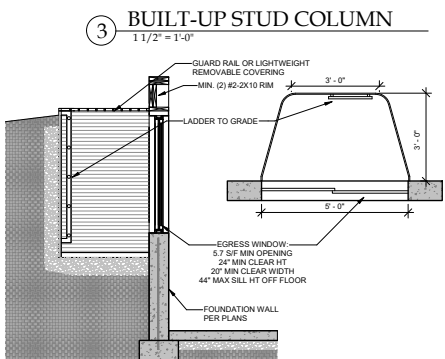
5 OPTION 2 RAFTER BEARING
1" = 1'-0"



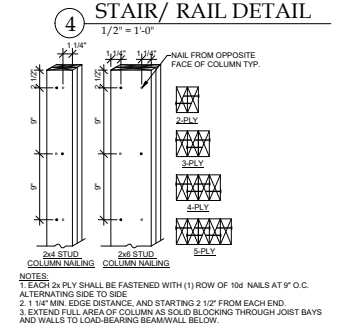
12 RAFTER TIE CONNECTION
1/2" = 1'-0"



13 RIDGE SUPPORT
1/2" = 1'-0"



2 EGRESS WINDOW SECTION
1/2" = 1'-0"



3 BUILT-UP STUD COLUMN
1 1/2" = 1'-0"

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ASPHEN HOMES, INC.
HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
2022 SW HARVEST MOON LN. LEE'S SUMMIT, MO

STRUCTURAL DETAILS & NOTES

HD#: 43036

DATE: 04/28/2022

CHECKED BY: CLS

NO.	ISSUE/REVISION	Revision Date

FRAMING SECTIONS

S-1.2

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
05/16/2022

DUO TO THE WIDE VARIETY OF SOIL CONDITIONS IN OUR AREA AND THE WIDE VARIETY OF PLASTICITY INDEX AND SOIL BEARING CAPACITIES OUR FRAM REQUIREMENTS ALL SITES BE EVALUATED BY HD ENGINEERING OR AN HD ENGINEERING REFERRED GEOTECHNICAL FIRM PRIOR TO PLACEMENT OF ANY "STANDARD" FOUNDATIONS.



ASPEN HOMES, INC.
 HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
 2022 SW HARVEST MOON LN, LEE'S SUMMIT, MO

STRUCTURAL DETAILS & NOTES

HD#: 43036
 DATE: 04/28/2022
 CHECKED BY: CLS

NO.	ISSUE/REVISION	Revision Date

DECK DETAILS

S-1.3

RELEASE FOR CONSTRUCTION
 AS NOTED FOR PLAN REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
05/16/2022

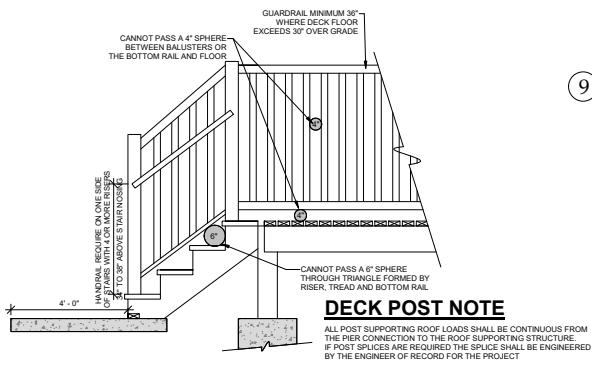
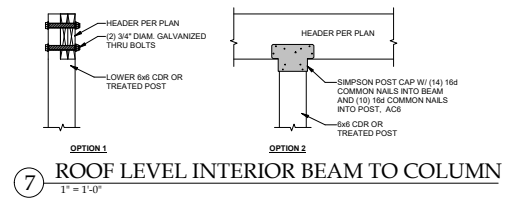
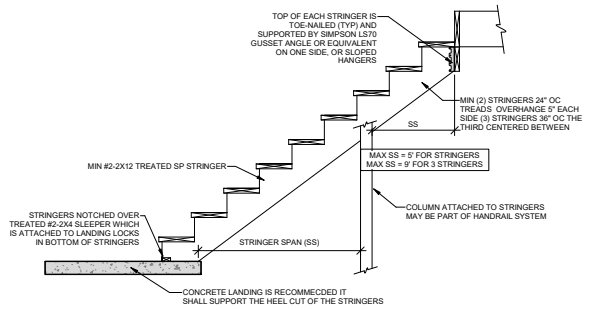
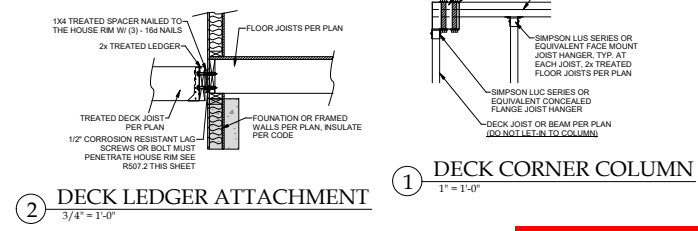
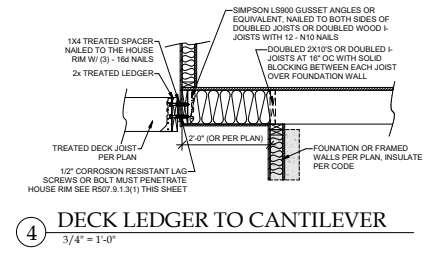
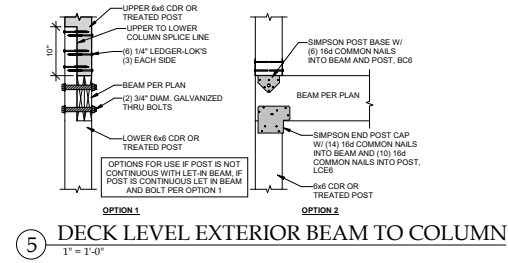
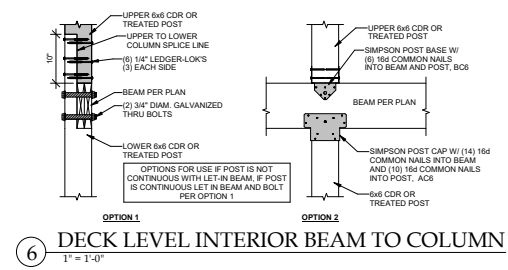


TABLE IRC2018 R507.9.1.3(1) DECK LEDGER CONNECTION TO BAND JOIST
 (DECK LIVE LOAD = 40 PSF, DECK HEAD LOAD = 10 PSF, SNOW LOAD ≤ 40 PSF)

JOIST SPAN	ON-CENTER SPACING OF FASTENERS ^a						
	6" AND LESS	6'-1" TO 8'	8'-1" TO 10'	10'-1" TO 12'	12'-1" TO 14'	14'-1" TO 16'	16'-1" TO 18'
CONNECTION DETAILS							
1/2" LAG SCREW WITH 15/32" MAX. SHEATHING ^{c,d}	30	23	18	15	13	11	10
1/2" DIAM. BOLT WITH 15/32" MAX. SHEATHING ^e	36	36	34	29	24	21	19
1/2" DIAM. BOLT WITH 15/32" MAX. SHEATHING & 1/2" STACKED WASHERS ^a	36	36	29	24	21	18	16

For S1: 1 inch = 25.4mm, 1 foot = 304.8mm, 1 pound per square foot = 0.0479 kPa
 a. Ledgers shall be fastened in accordance with Section 6703.4 to prevent water from contacting the house band joint.
 b. Snow load shall not be assumed to act concurrently with live load.
 c. The top of the lag screw shall fully extend beyond the inside face of the band joint.
 d. Sheathing shall be wood structural panel or solid sawn lumber.
 e. Sheathing shall be permitted to be wood structural panel, gypsum board, fiberboard lumber or foam sheathing. Up to 1/2" thickness of stacked washers shall be permitted to substitute for you to 1/2" of allowable sheathing thickness where combined with wood structural panel or lumbars sheathing.

TABLE IRC2018 R507.9.1.3(2) PLACEMENT OF LAG SCREWS AND BOLT IN DECK LEDGERS AND BAND JOISTS

	MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS			
	TOP EDGE	BOTTOM EDGE	ENDS	ROW SPACING
LEDGER ^a	2 inches ^d	3/4 inches	2 inches ^a	1 5/8 inches ^b
BAND JOIST ^a	3/4 inches	2 inches	2 inches	1 5/8 inches ^b

For S1: 1 inch = 25.4mm
 a. Lag screws of bolts shall be staggered from the top to the bottom along the horizontal run of the deck ledger in accordance with Figure R507.9.1.3(1)
 b. Maximum 5 rows
 c. For engineered rim joists, the manufacturer's recommendations shall govern.
 d. The minimum distances from bottom row of lag screws or bolts to the top of the ledger shall be in accordance with Figure R507.9.1.3(1)



RESIDENTIAL SEISMIC & WIND ANALYSIS

DESCRIPTION	DEAD LOAD (psf)	AREA (ft ²)	WEIGHT (k)
ROOF	15	2200	330
2ND FLOOR	15	2200	330
1ST FLOOR	15	2200	330
2ND FLOOR EXT. WALLS	15	2200	330
1ST FLOOR EXT. WALLS	15	2200	330
2ND FLOOR INT. PARTITION WALLS	15	2200	330
1ST FLOOR INT. PARTITION WALLS	15	2200	330

PROJECTED AREA WIND DESIGNER 15 MPH SECOND MOMENT EXPOSURE C AND MEAN ROOF HEIGHT = 30 FT ASSUMED	AREA (ft ²)	LOAD (psf)	WIND FORCE (k)
ROOF	2200	15	330
2ND FLOOR	2200	15	330
1ST FLOOR	2200	15	330
2ND FLOOR EXT. WALLS	2200	15	330
1ST FLOOR EXT. WALLS	2200	15	330
2ND FLOOR INT. PARTITION WALLS	2200	15	330
1ST FLOOR INT. PARTITION WALLS	2200	15	330

SEISMIC SHEAR	FROM ASCE7 (Eq. 12.8-1)	V = 12 * S _w * W / R (kips)
2ND FLOOR	220	220
1ST FLOOR	440	440

SEISMIC SHEAR	FROM ASCE7 (Eq. 12.8-1)	V = 12 * S _w * W / R (kips)
2ND FLOOR	220	220
1ST FLOOR	440	440

SEISMIC	RESISTANCE (kips)	WIND	RESISTANCE (kips)
FRONT-TO-BACK	220	FRONT-TO-BACK	220
SIDE-TO-SIDE	220	SIDE-TO-SIDE	220

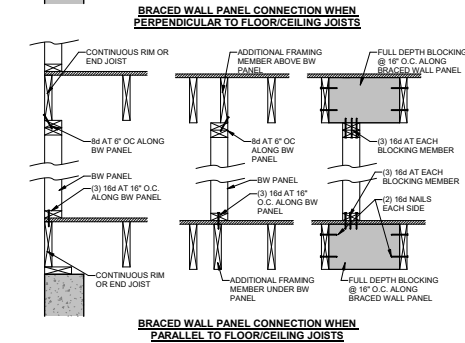
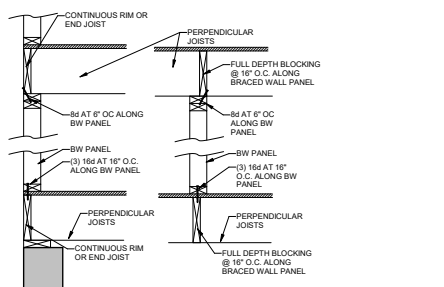
RESISTANCE PROVIDED BY EXTERIOR WALLS	RESISTANCE (kips)	OK?
2ND FLOOR FRONT-TO-BACK	220	YES
2ND FLOOR SIDE-TO-SIDE	220	YES
1ST FLOOR FRONT-TO-BACK	440	YES
1ST FLOOR SIDE-TO-SIDE	440	YES

WIND UPLIFT ANALYSIS	WIND UPLIFT (kips)	UPLIFT OK?
ROOF UPLIFT	330	OK
2ND FLOOR UPLIFT	330	OK
1ST FLOOR UPLIFT	330	OK

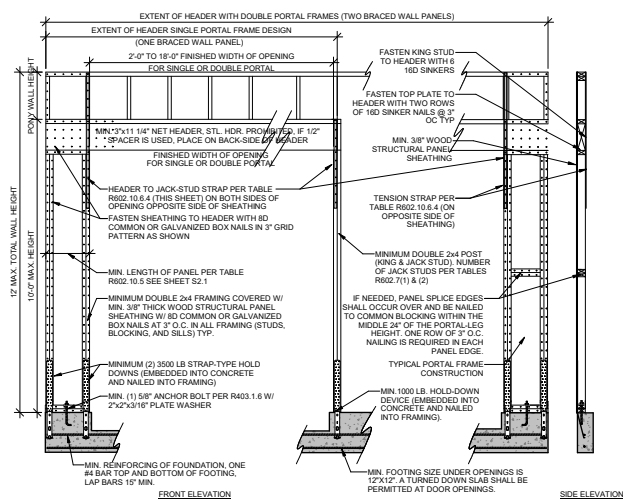
NOTE FOR DESIGN: THE CONTINUOUS STRUCTURAL PANEL SHEATHING RESISTANCE METHOD REQUIRES USE OF THE ABOVE TABLE FOR SHEATHING OF THE ENTIRE STRUCTURE. IN ADDITION, FRAMING MEMBERS SHALL BE @ 16" O.C. MAX. UNBOLDED AND W/ SHEATHING APPLIED DIRECTLY TO FRAMING MEMBERS.

NOTE FOR DESIGN: ALL TABLES USED IN THE CALCULATION OF THE RESISTANCE FOR THIS STRUCTURE SHALL HAVE A MINIMUM UNBOLDED HEIGHT OF 6" AND LENGTH OF 2'-6". ALLOWABLE RESISTANCES HAVE BEEN W/FT AND REDUCED BY 40% FOR WIND LOADS. SPACING REINFORCEMENT IN EXTERIOR WALLS SHEATHED WITH OSB SHALL BE ATTACHED WITH SABLE STRAPPING PATTERN AS EXTERIOR OSB ON SAME FLOOR (SEE TABLE ABOVE) AND ARE ONLY APPLICABLE FOR FULL-HEIGHT SECTIONS OF 2'-4" OR LONGER.

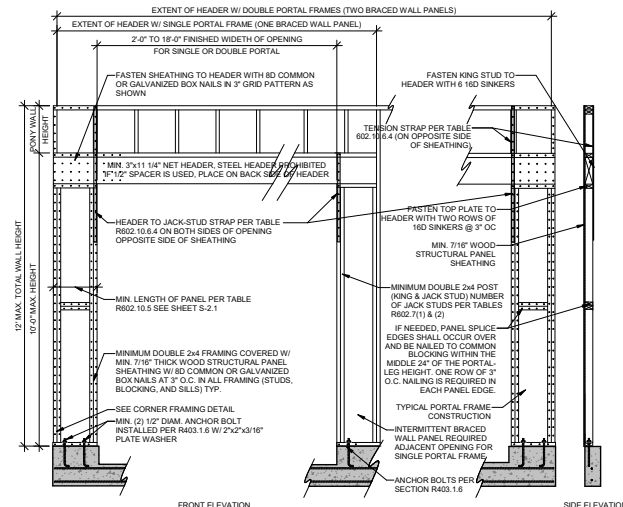
NOTE: SOIL SITE CLASS ASSUMED TO BE CLASS C. IF SITE CONDITIONS ARE DETERMINED TO BE CLASS E OR F, CONSULT ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.



3 1" = 1'-0"



1 1/2" = 1'-0"



2 1/2" = 1'-0"

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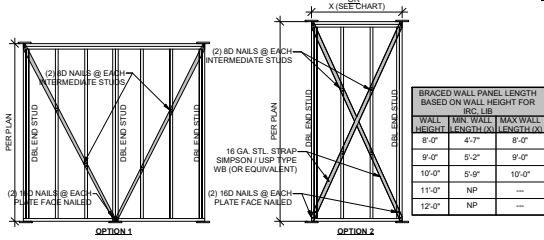
ASPEN HOMES, INC.
 HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
 2022 SW HARVEST MOON LN, LEE'S SUMMIT, MO

HD#:	43036	
DATE:	04/28/2022	
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BRACED WALL NOTES & DETAILS

S-2.0

RELEASE FOR CONSTRUCTION
 AS NOTED FOR PLAN REVIEW
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 LEE'S SUMMIT, MISSOURI
05/16/2022



LIB BRACING
3/8" = 1'-0"

TENSION STRAP CAPACITY REQUIRED FOR RESISTING WIND PRESSURES PERPENDICULAR TO METHOD PFH, PFG AND CS-PF BRACED WALL PANELS IRC2018 TABLE R602.10.6.4

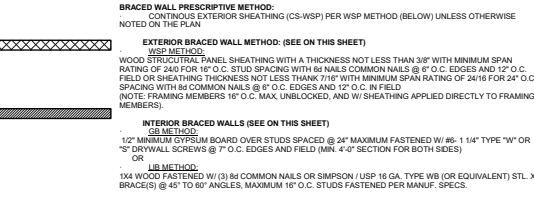
MINIMUM WALL STUD FRAMING NOMINAL SIZE & GRADE	MAX. PONY WALL HEIGHT (FEET)	MAX. TOTAL WALL HEIGHT (FEET)	MAX. OPENING WIDTH (FEET)	TENSION STRAP CAPACITY REQUIRED (POUNDS) ¹	
				ULTIMATE DESIGN WIND SPEED V (MPH)	
				EXPOSURE B	EXPOSURE C
2x4 NO. 2 GRADE	0	10	18	1,000	1,000
				1,000	1,000
				1,025	2,500
				1,275	2,850
				1,000	1,875
				2,500	4,125
	2	10	18	1,500	3,175
				DR	DR
				16	3,375
				18	3,975
				9	2,750
				12	3,775
2x8 STUD GRADE	2	12	12	1,000	2,025
				16	2,150
				18	2,550
				9	1,750
				16	2,400
				18	3,800
	4	12	12	DR	DR
				DR	DR
				DR	DR
				DR	DR
				DR	DR
				DR	DR

a. DR = DESIGN REQUIRED
b. STRAP SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

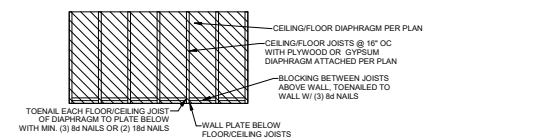
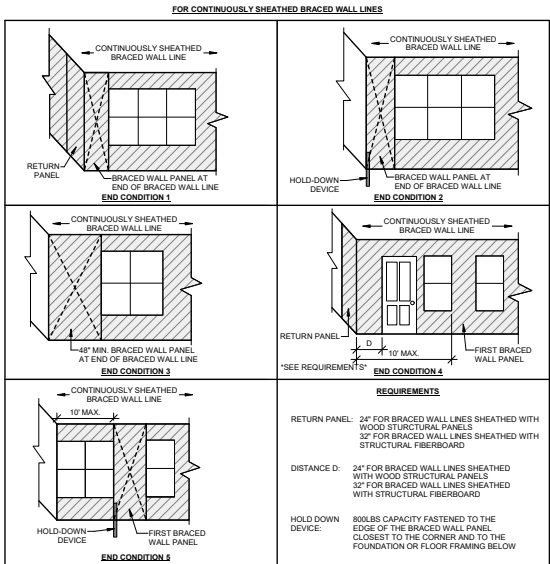
**FOR IRC CODE PRESCRIPTIVE METHOD
TABLE R602.10.5 MINIMUM LENGTH OF BRACED WALL PANELS**

METHOD (SEE TABLE R602.10.4)	MINIMUM LENGTH (INCHES) ¹				CONTRIBUTING LENGTH (INCHES)	
	8 FEET	9 FEET	10 FEET	11 FEET		
DWB,WSP,SFB,PSS,PCP,HPS,BV,WSP	48	48	48	53	58	
GB	48	48	48	53	58	
LIB	55	62	69	NP	NP	
ABW	SDC A, B, AND C ULTIMATE DESIGN WIND SPEEDS-140				48	
	SDC D, E, ULTIMATE DESIGN WIND SPEEDS-140					
PFH	SUPPORTING ROOF ONLY				NOTE C	
	SPRING ONE STORY & ROOF					
PFG	24	27	30	NOTE D	NOTE D	
CS-G	24	27	30	33	36	
CS-PF	16	18	20	NOTE E	NOTE E	
CS-WSP CS-SFB	ADJACENT CLEAR OPENING HEIGHT (INCHES)				ACTUAL ⁵	
	64	24	27	30		33
	68	26	27	30		33
	72	27	27	30		33
	76	30	29	30		33
	80	32	30	30		33
	84	35	32	32		33
	88	38	35	33		33
	92	43	37	35		35
	96	48	41	38		36
	100	-	44	40		38
	104	-	45	43		40
	108	-	54	46		43
	112	-	-	50		45
	116	-	-	55		46
	120	-	-	60		52
124	-	-	-	56		
128	-	-	-	61		
132	-	-	-	66		
136	-	-	-	62		
140	-	-	-	66		
144	-	-	-	72		

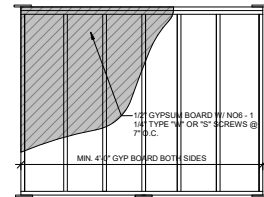
1. LIGHT OR HEAVY FLOOR SHALL BE DETERMINED
2. USE THE ACTUAL LENGTH WHEN IT IS GREATER THAN OR EQUAL TO THE MINIMUM LENGTH
3. MAX. HEIGHT FOR PFH IS 12' IN ACCORDANCE WITH R602.10.5. WALL HEIGHT MAY BE INCREASED TO 12' WITH PONY WALL.
4. MAX. OPENING HEIGHT FOR PFG IS 12' IN ACCORDANCE WITH R602.10.5. WALL HEIGHT MAY BE INCREASED TO 12' WITH PONY WALL.
5. MAX. OPENING HEIGHT FOR CS-G AND CS-PF IS 12' IN ACCORDANCE WITH R602.10.5. WALL HEIGHT MAY BE INCREASED TO 12' WITH PONY WALL.



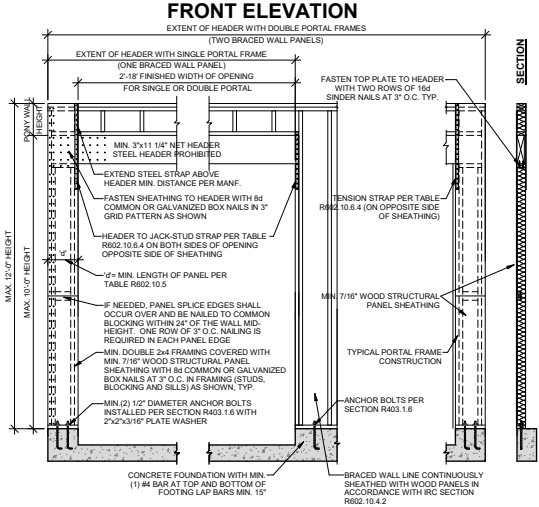
END WALL CONDITIONS



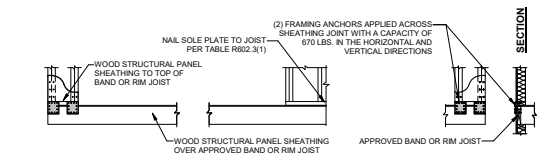
DIAPHRAGM CONNECTION TO INTERIOR WALL
3/8" = 1'-0"



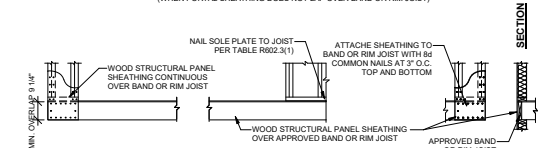
GB BRACING
1/2" = 1'-0"



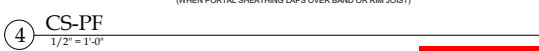
OVER CONCRETE OR MASONRY BLOCK FOUNDATION



OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION



OVER RAISED WOOD FLOOR - OVERLAP OPTION



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STRUCTURAL DETAILS & NOTES

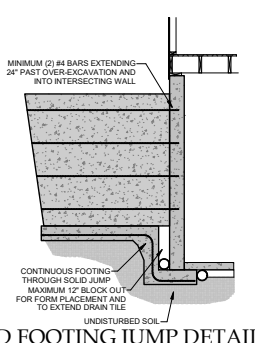
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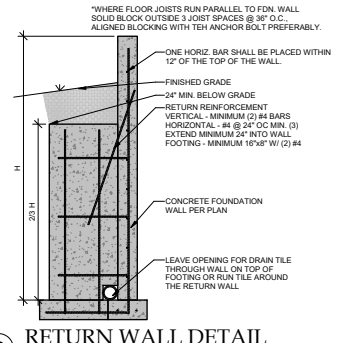
BRACED WALLS NOTES & DETAILS

S-2.1

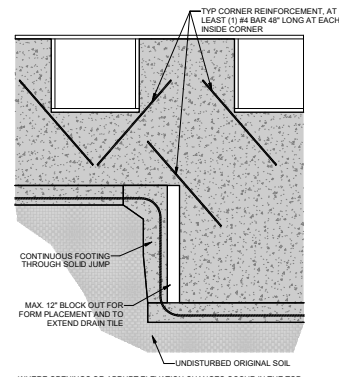
RELEASE FOR CONSTRUCTION
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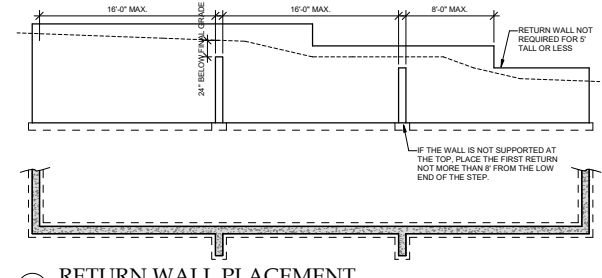
1 SOLID FOOTING JUMP DETAIL
3/8" = 1'-0"



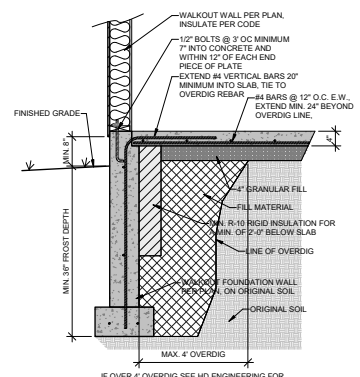
2 RETURN WALL DETAIL
1/2" = 1'-0"



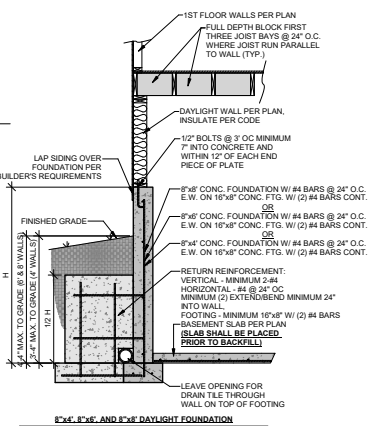
3 REINFORCEMENT AT CORNERS AND STEPS
1/2" = 1'-0"



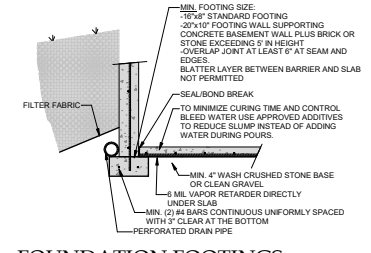
4 RETURN WALL PLACEMENT
3/16" = 1'-0"



6 WALKOUT DETAIL
3/4" = 1'-0"



7 UNRESTRAINED FOUNDATION WALL
1/2" = 1'-0"



8 FOUNDATION FOOTINGS
1/2" = 1'-0"

CONCRETE STRENGTH	8" THICK WALL			10" THICK WALL		
	8'	9'	10'	8'	9'	10'
3000 PSI 40 KSI	16	12	24	16	12	12
3500 PSI 40 KSI	16	12	24	24	24	12
3000 PSI 60 KSI	24	16	24	20	16	
3500 PSI 60 KSI	24	16	24	24	16	

VERTICAL REINFORCEMENT SPACING*
60 PSF SOL.; 40 & 60 KSI STEEL

HORIZONTAL REINFORCEMENT**

ONE BAR 12" FROM TOP OF WALL;
MAX. SPACING 24" O.C.

* CONCRETE SHALL HAVE AIR ENTRAINMENT OF 5.7%
* MINIMUM REQUIREMENT FOR VERTICAL REBAR IN PLAIN CONCRETE WALLS IS #4 @ 36" ON CENTER (ACI 312)
* VERTICAL BARS SHALL BE CONTINUED UP TO WITHIN 8" OF THE TOP OF THE WALL
* REBAR SHALL BE POSITIONED AT THE TENSION FACE OF THE WALL 12" FROM THE INSIDE FACE
* REINFORCEMENT SHALL LAP A MINIMUM OF 24 INCHES AT ENDS, SPLICES, AND AROUND CORNERS.
** #4 BARS @ 24" ON CENTER
** #4 BAR WITHIN 12" OF TOP AND BOTTOM OF WALL
** MINIMUM GRADE 40 (60ksi) STEEL (PER ACI 312)
** HORIZONTAL REINFORCEMENT SHALL BE INSTALLED ON THE COMPRESSION SIDE (SOL. SIDE) OF THE VERTICAL REINFORCEMENT

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DATE: 04/28/2022

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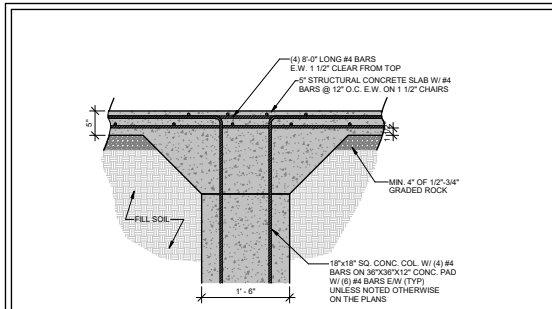
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CONCRETE DETAILS

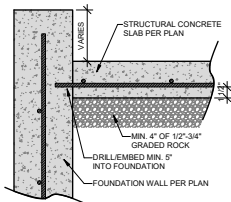
S-3.0

DETAILS PROVIDED ARE DERIVED FROM JOHNSON COUNTY RESIDENTIAL FOUNDATION GUIDELINE

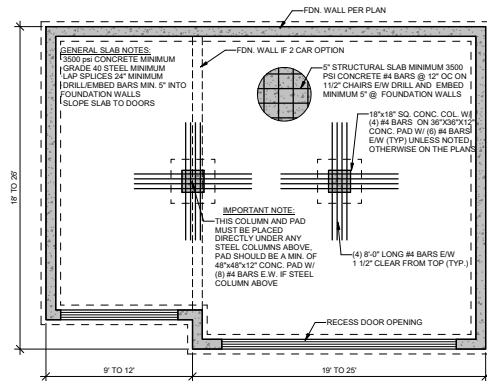
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
05/16/2022



7 GARAGE SLAB COLUMN DETAIL
1" = 1'-0"

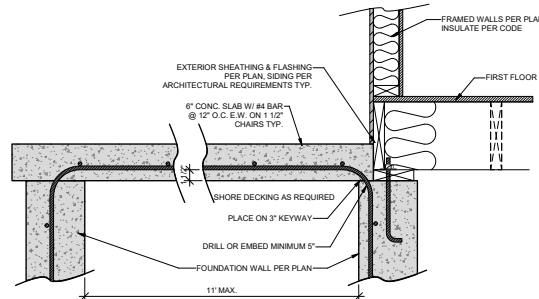


8 STRUCTURAL SLAB/WALL
1 1/2" = 1'-0"

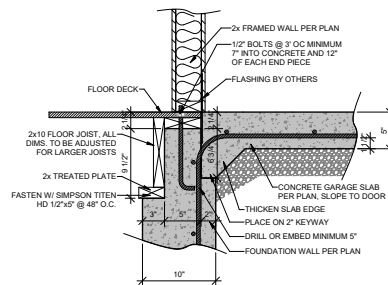


9 TYPICAL GARAGE SLAB
1/4" = 1'-0"

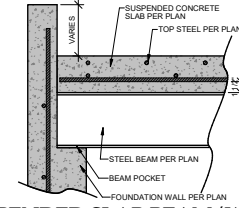
**HD ENGINEERING STRUCTURAL
GARAGE SLAB DETAILS**



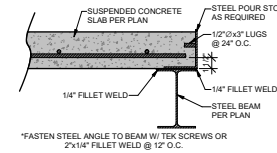
6 SUSPENDED PORCH STOOP SLAB
1 1/2" = 1'-0"



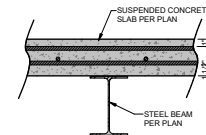
10 ZERO ENTRY GARAGE DETAIL
1 1/2" = 1'-0"



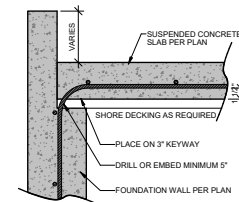
1 SUSPENDED SLAB BEAM/WALL CONNECTION
1 1/2" = 1'-0"



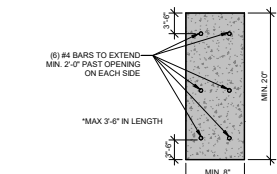
2 SUSPENDED SLAB POUR STOP
1 1/2" = 1'-0"



3 SUSPENDED SLAB/STEEL BEAM CROSS SECTION
1 1/2" = 1'-0"



4 SUSPENDED SLAB/WALL CONNECTION
1 1/2" = 1'-0"



5 CONCRETE HEADER DETAIL
1 1/2" = 1'-0"

IMPORTANT NOTE:
FOR SUSPENDED SLABS A MAXIMUM OF 10' ABOVE FLOOR BELOW: TEMPORARY SHORING WALLS SHALL BE PLACED AT A MAXIMUM OF 4' O.C. / #2x4 STUDS AT 16" O.C. W/ TOP AND BOTTOM PLATE. WALL TO HAVE CONTINUOUS DIAGONAL BRACING. LATERAL BRACING TO BE RUN FROM WALL TO WALL AT MID HEIGHT 4' ON CENTER. SHORING TO REMAIN IN PLACE FOR AT LEAST 21 DAYS.
ANY CAST IN PLACE SLABS FORMED MORE THAN 10' ABOVE THE FLOOR BELOW SHALL HAVE A SITE SPECIFIC SHORING DESIGN DONE. OUR FIRM SHOULD BE CONSULTED FOR THIS DESIGN ONCE FOUNDATION WALLS ARE IN PLACE TO EVALUATE SHORING CONDITIONS. IT SHALL BE NOTED THAT FAILURE TO HAVE AN ADEQUATE SHORING DESIGN CAN RESULT IN FORM COLLAPSE AND/OR CATASTROPHIC FAILURE.

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ASPEN HOMES, INC.
HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
2022 SW HARVEST MOON LN, LEE'S SUMMIT, MO
STRUCTURAL DETAILS & NOTES

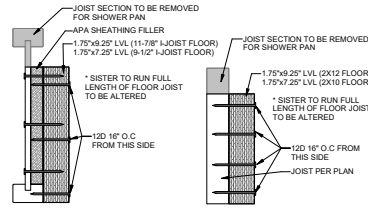
HD#: 43036
DATE: 04/28/2022
CHECKED BY: CLS

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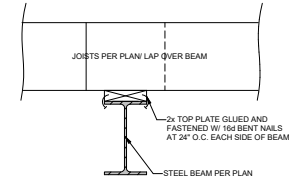
SUSPENDED SLAB DETAILS

S-3.1

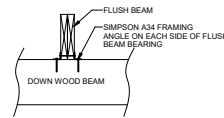
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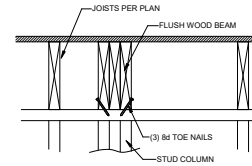
10 ZERO ENTRY SHOWER DETAIL
1/4" = 1'-0"



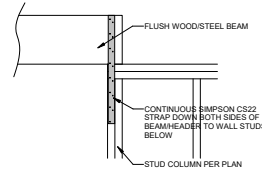
5 STEEL BEAM TO WOOD PLATE
1 1/2" = 1'-0"



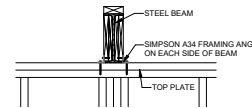
9 WOOD TO WOOD STACKED CONNECTION
1" = 1'-0"



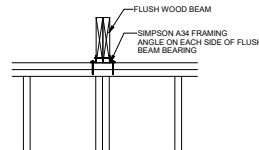
4 FLUSH WOOD BEAM CONNECTION
1 1/2" = 1'-0"



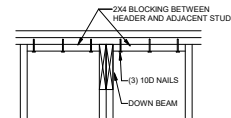
8 UPSET WOOD/STEEL PARALLEL TO WALL
1" = 1'-0"



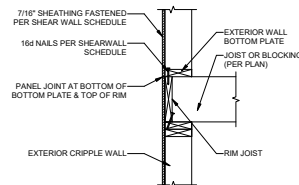
3 EXTERIOR WALL STEEL BEAM BEARING
1" = 1'-0"



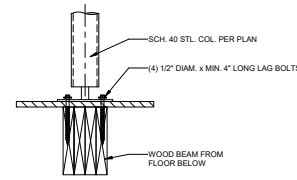
7 UPSET WOOD PERPENDICULAR TO WALL
1" = 1'-0"



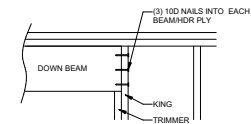
2 DOWN WOOD BEAM PERPENDICULAR
1" = 1'-0"



11 SHEATHING JOINT LOCATION
1" = 1'-0"

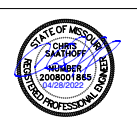


6 STEEL COLUMN TO WOOD FLOOR
1 1/2" = 1'-0"



1 DOWN WOOD BEAM PARALLEL
1" = 1'-0"

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GENERAL DETAILS

S-4.0

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