LEAH COURT HOMES



2823 SOUTH 9150 WEST MAGNA, UTAH 84044

APPLICABLE CODE:

2018 INTERNATIONAL RESIDENCIAL CODE. (I.R.C.) 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL PLUMBING CODE 2017 NATIONAL ELECTRIC CODE

PROJECT LOCATION: ADDRESS: 2823 S 9150 W CITY: MAGNA, UT 84044

BUILDING AREAS: SECOND FLOOR: 985 SF MAIN FLOOR: 751 SF

PROJECT INFORMATION:

THESE DRAWINGS ARE PART OF A SET OF CONSTRUCTION DOCUMENTS. THE CONSTRUCTION DOCUMENTS CONSIST OF ONE OR MORE OF THE FOLLOWING **ELEMENTS**:

CONSTRUCTION DRAWINGS SPECIFICATIONS STRUCTURAL CALCULATIONS CONTRACT FORMS AND CONDITIONS ADDENDA MODIFICATIONS AND REVISIONS

CONTRACTORS, SUBCONTRACTORS, AND OTHERS WHO PROVIDE LABOR AND/OR MATERIALS REFERENCING THESE DRAWINGS ARE RESPONSIBLE FOR OBTAINING AND REVIEWING ALL CURRENT CONSTRUCTION DOCUMENTS. DISCREPANCIES NOT REPORTED IMMEDIATELY ARE RESPONSIBILITY OF CONTRACTOR.

CONTRACTORS, SUBCONTRACTORS, AND OTHERS ARE TO REPORT ANY DISCREPANCIES OR ERRORS TO LURADIANCE IMMEDIATELY. ANY CHANGES TO THE PROJECT WILL BE VERIFIED WITH THE OWNER AND BY THE DESIGNER AND REVISIONS WILL BE ISSUED BY LURADIANCE. CONTRACTORS ARE NOT TO MAKE ALTERATIONS OF ANY KIND WITHOUT THE PRIOR WRITTEN CONSENT OF LURADIANCE OR THE OWNER.

CONTRACTORS SHALL NOT SCALE FROM DRAWINGS. DIMENSIONS ARE PROVIDED TO ALLOW FOR ACCURATE CONSTRUCTION OF BUILDING. QUESTIONS ARISING FROM DIMENSIONS SHOULD BE RESOLVED BY CONTACTING LURADIANCE.

DRAWING SCHEDULE

DI
Cover Sheet
Site Plan 4 Units
Elevations 1
Elevations 2
Perspectives
Foundation
Main Floor
Main Electrical
Second Floor
Second Electrical
Roof
Cross Sections
Main Mech
Second Mech

AREA SCHEDULE		
NAME	AREA	
Main Floor	751 sq ft	
Second Floor	985 sq ft	

Kessleı

Homes As Noted Court Leah SCALE: DATE: 8

9150 W نے S S S کرے Magna Utah

9150 West 8'-0" 24'-0" 22'-6" 24'-0" 8'-0" 8'-0" 24'-0" DRIVEWAY DRIVEWAY DRIVEWAY DRIVEWAY --| 3 Bedroom 2 1/2 Bath Unit 1737 SF Total. 2 Car Garage 3 Bedroom 2 1/2 Bath Unit 1737 SF Total. 2 Car Garage 3 Bedroom 2 1/2 Bath Unit 1737 SF Total. 2 Car Garage 3 Bedroom 2 1/2 Bath Unit 1737 SF Total. 2 Car Garage South 2820 **(1)** 20'-0" Proposed Lot #1 5115 SF .117 Acre , 46'-6" x 110' Proposed Lot #2 3520 SF .08 Acre Proposed Lot #3© 3520 SF .08 Acre 32' x 110' 72 Proposed Lot #4 -0-3520 SF .08 Acre 32' x 110' **CHAMBERS TOWNSITE ADD #1**

SITE - 4 UNITS

SCALE: 1" = 20'-0"

Vike Kessler

801-856-5754

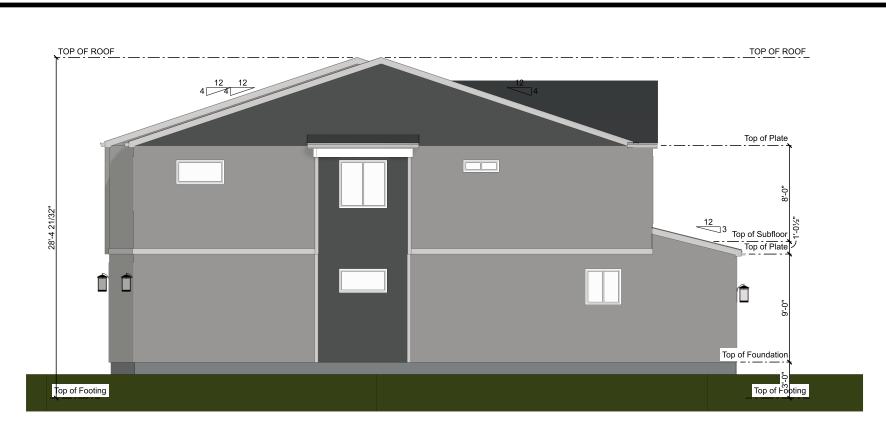
2823 S 9150 W Magna Utah 84044

LURADIANCE DESIGN AND CONSTRUCTION SERVICES mike@axesshomebuyers.com

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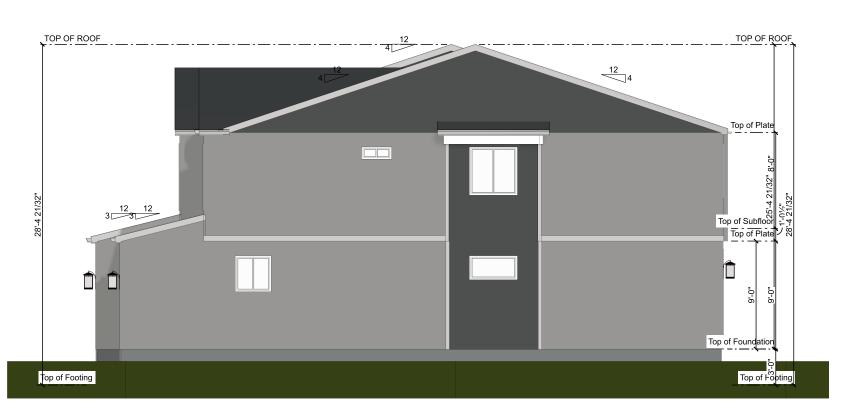
SCALE: 1" = 20'-0" DATE: 8/10/2023 dave@luradiance.com PHONE:801-860-4687

Site Plan PAGE:



NORTH ELEVATION

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



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

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SCALE: 1/8" = 1'-0" DATE: 8/10/2023

Wike Kessler

2823 S 9150 W Magna Utah 84044 801-856-5754



WEST ELEVATION

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



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

Mike Kessler

801-856-5754

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Mike Kessler

mike@axesshomebuyers.com 801-856-5754

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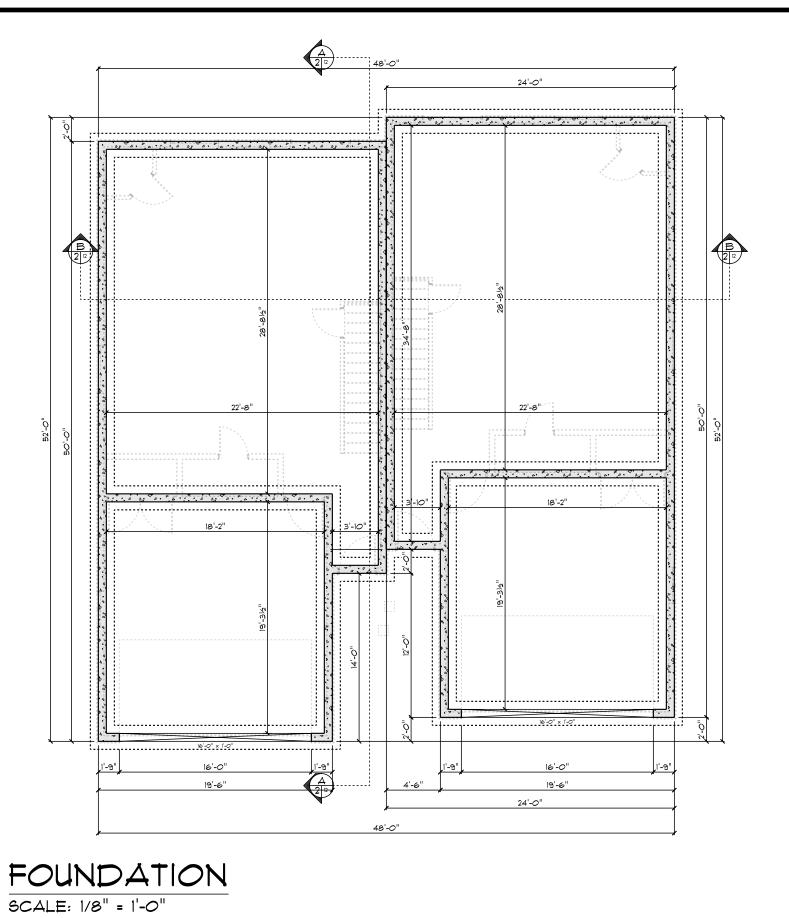


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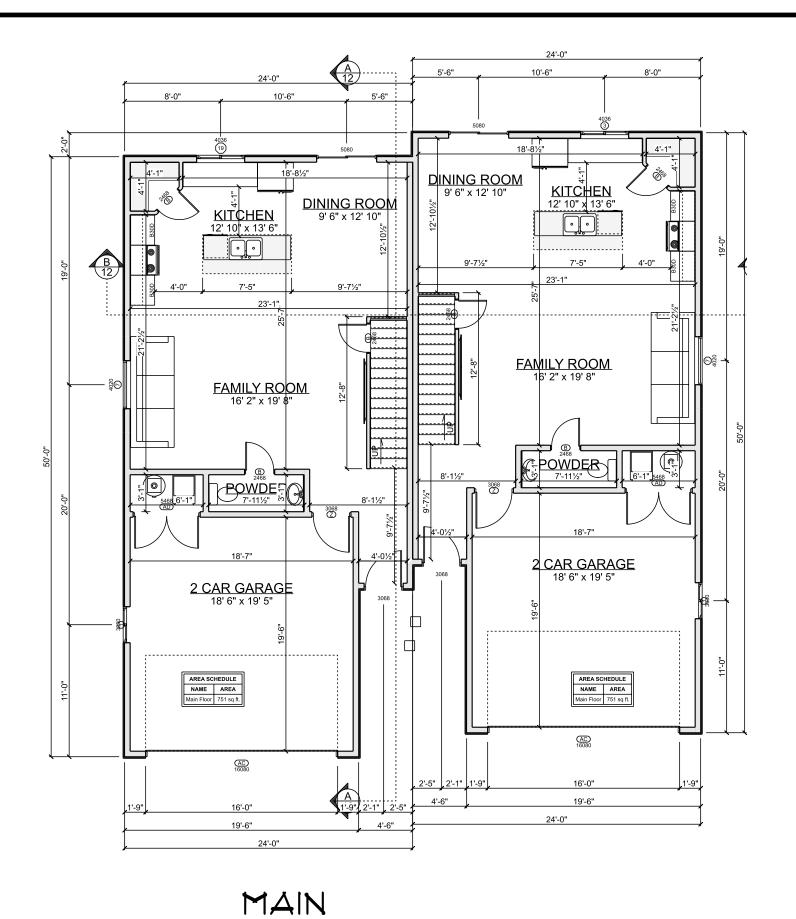
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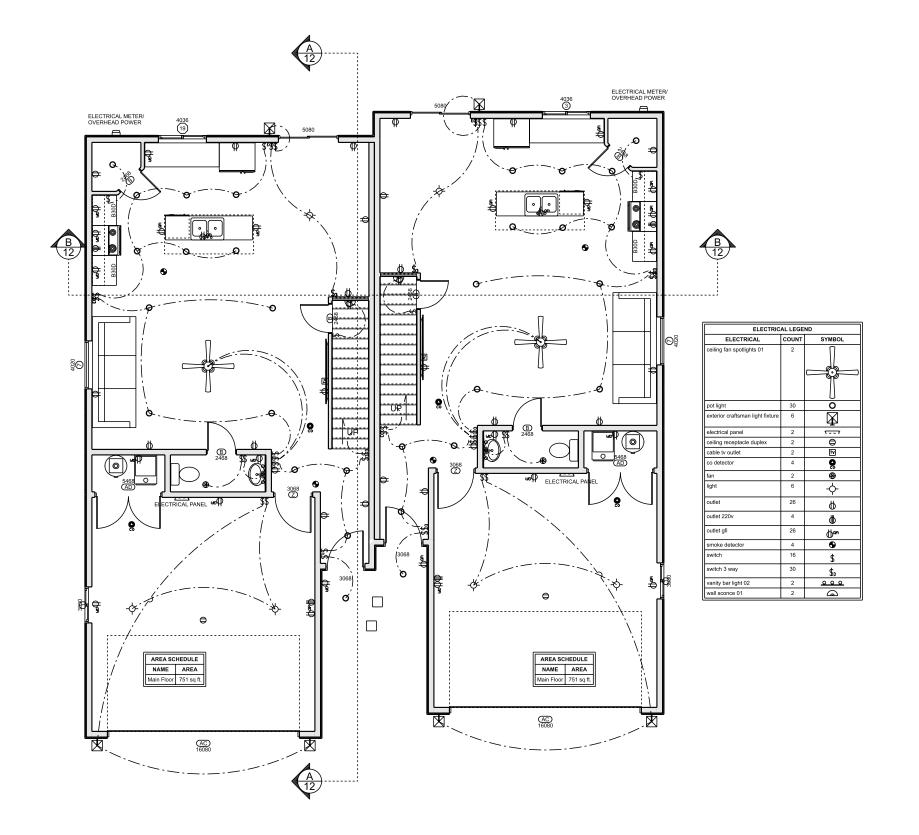
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= 1'-0" SCALE: 1/8" = 1'-DATE: 8/10/2023

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MAIN - ELECTRICAL

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

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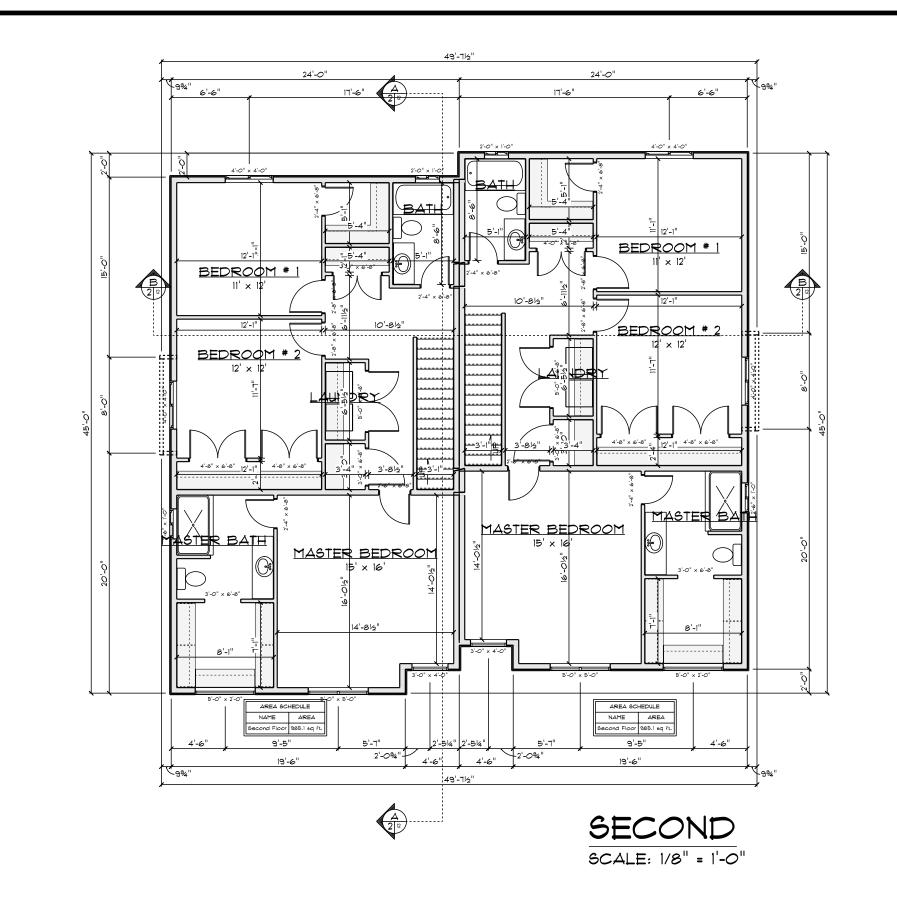
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SCALE: 1/8" = 1'-0" DATE: 8/10/2023 LURADIANCE DESIGN AND CONSTRUCTION SERVICES

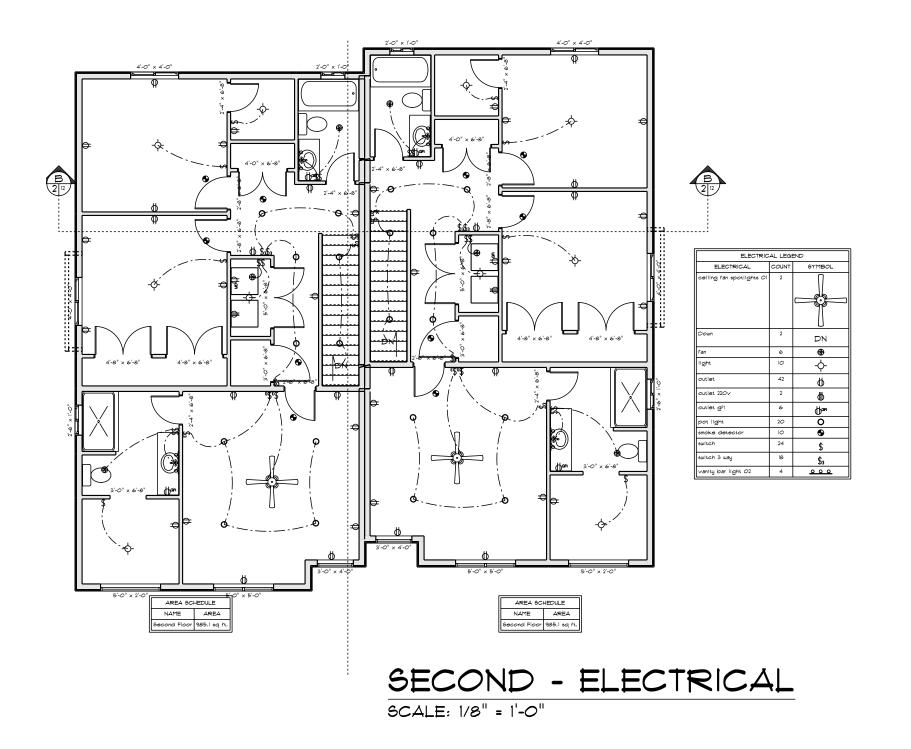
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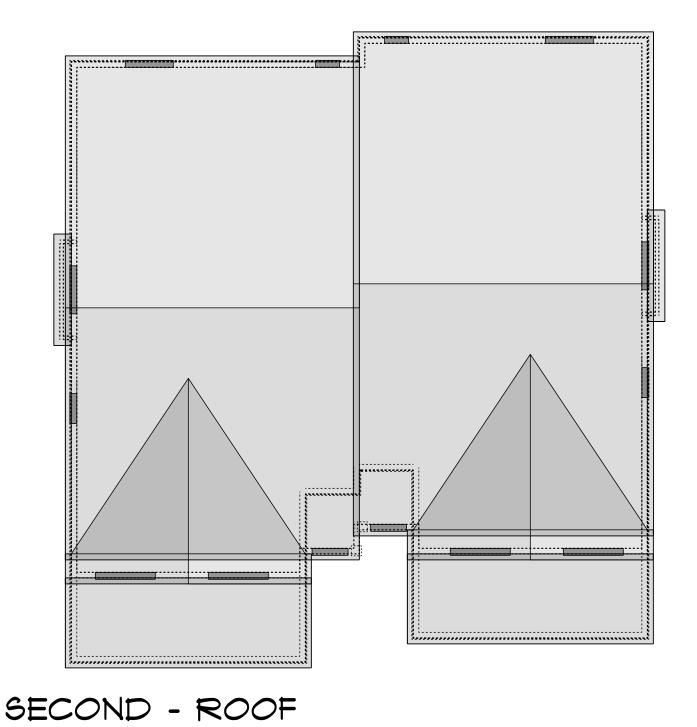
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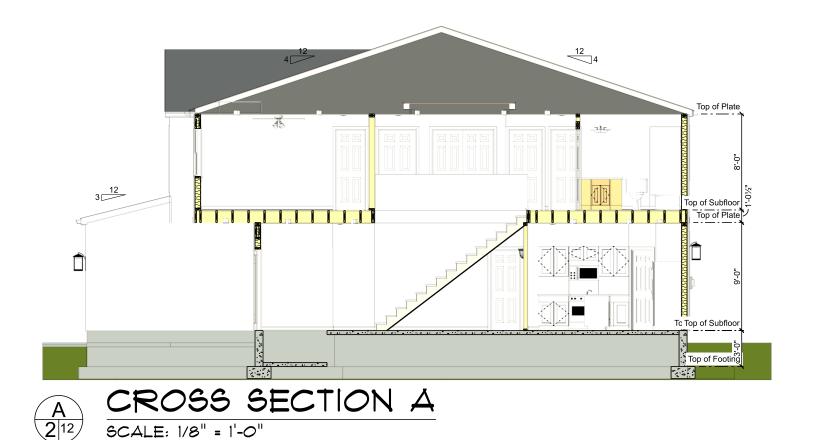
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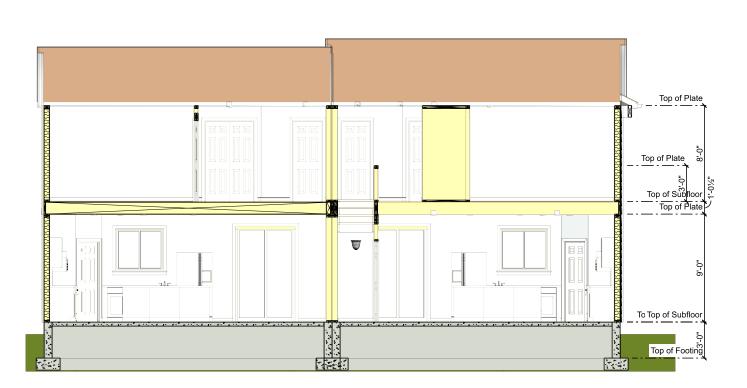
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CROSS SECTION B

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

B 2 12

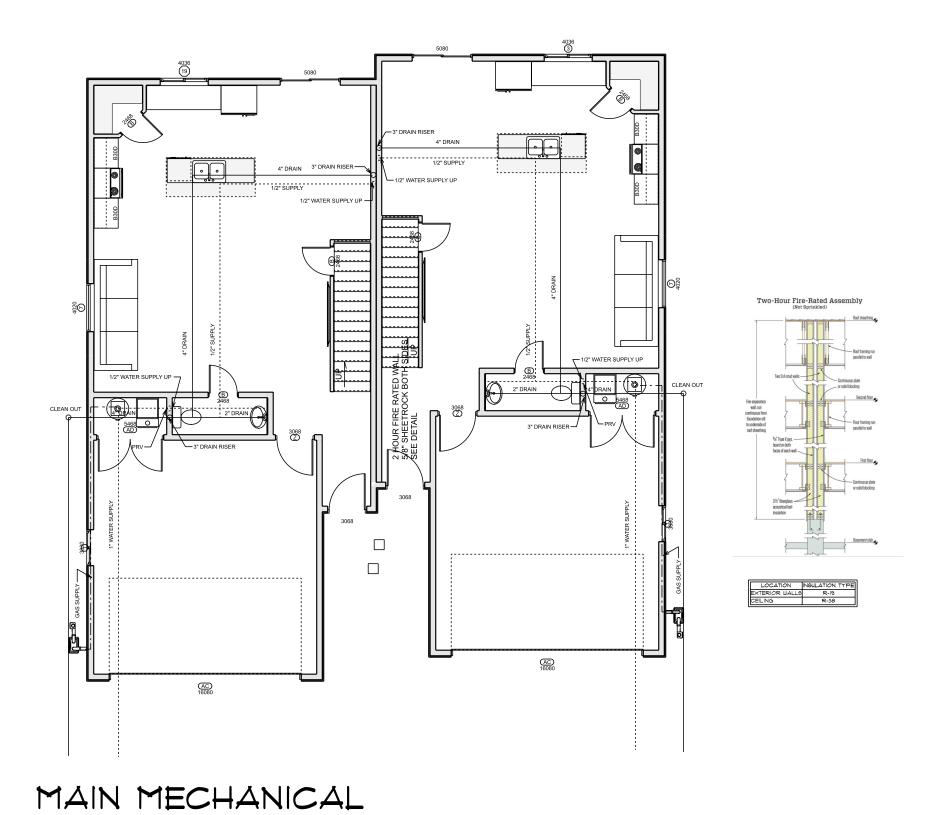
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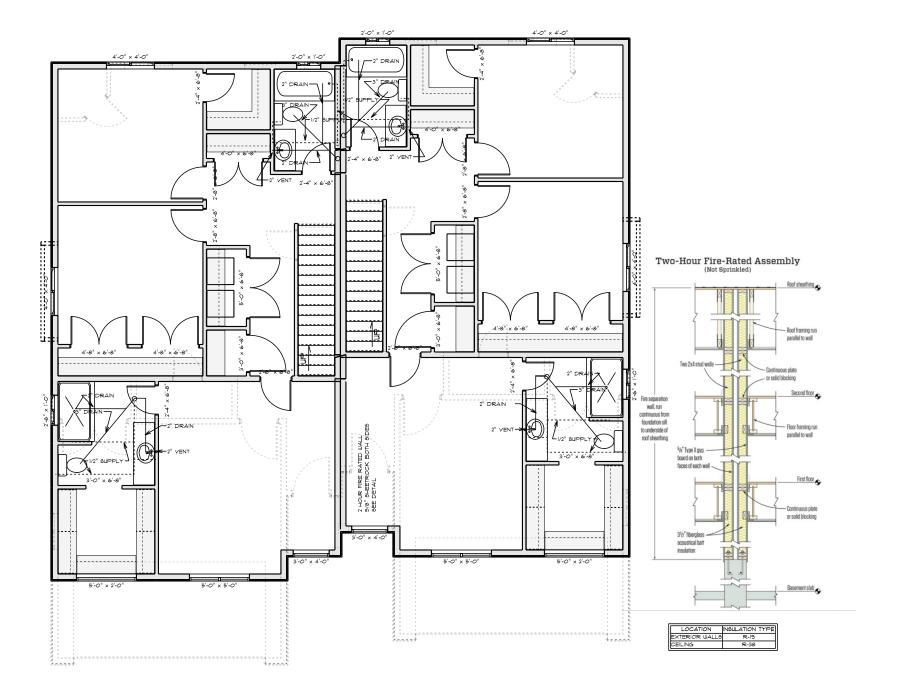
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Leah Court Homes

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



SECOND MECHANICAL

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

Leah Court Homes

LURADIANCE DESIGN AND CONSTRUCTION SERVICES

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SCALE: 1/8" = 1'-0" DATE: 8/10/2023

FOUNDATION WALL SCHEDULE					
MARK ⁽²⁾	FND8 - 8" TH	FND8 - 8" THICK CONCRETE FOUNDATION WALLS			
MAX	VERT. HORIZ. LINTELS ⁽⁵⁾			ELS ⁽⁵⁾	
HEIGHT	STEEL ⁽³⁾	STEEL (4)	MAX SPAN	MIN DEPTH	
2'	#4 @ 32" O.C.	(2) #4	2'	6"	
3'	#4 @ 32" O.C.	(3) #4	2'	6"	
4'	#4 @ 32" O.C.	(4) #4	3'	6"	

FOUNDATION WALL SCHEDULE

MARK ⁽²⁾	FND12 - 12" THICK CONCRETE FOUNDATION WALLS			
MAX	VERT. HORIZ.			
HEIGHT	STEEL ⁽³⁾	STEEL (4)	MAX SPAN	MIN DEPTH
4'	#4 @ 12" O.C.	#4 @ 8" O.C.	2'	6"

- VALUES IN THE TABLE ABOVE BETWEEN 2'-9' ARE PROVIDED FROM UTAH STATE CODE 15A-3-108.
- STATE CODE 19A-3-108.
 FOUNDATION WALLS SHALL BE 8" THICK (FND8) U.N.O. (FND_)
 VERTICAL REINFORCEMENT SHALL BE PLACED IN THE CENTER OF THE
 WALL. REBAR EXTENSION BARS INTO THE FOOTINGS SHALL EXTEND UP
 INTO FOUNDATION WALL A MINIMUM OF 24"
- INTO FOUNDATION WALL A MINIMUM OF 24"

 ONE HORIZONTAL BAR SHALL BE PLACED 4" FROM THE TOP OF THE WALL

 AND 4" FROM THE BOTTOM OF THE WALL WITH ALL OTHER HORIZONTAL

 BARS EVENLY SPACED. PROVIDE REINFORCING AROUND CORNERS SUCH

 THAT IT LAPS HORIZONTAL BARS A MINIMUM OF 24"

 PROVIDE (2)#4 BARS ABOVE MAX LINTEL SPAN SHOWN IN TABLE WITH

 (1)#4 ON EACH SIDE AND (1)#4 BELOW THE OPENING. BARS SHALL BE
- PLACED WITHIN 2" OF THE OPENING AND EXTEND 24" (MIN.) BEYOND THE OPENING. VERTICAL BARS MAY TERMINATE 3" BELOW THE TOP OF WALL. CONCRETE SHALL CURE A MINIMUM OF 7 DAYS AND HAVE INTERIOR SLAB INSTALLED PRIOR TO ANY BACKFILL. FOUNDATION WALLS 6" IN HEIGHT
- AND ABOVE DESIGNED FOR TOP SUPPORT. CONTRACTOR SHALL INSTAL FLOOR OR ROOF DIAPHRAGM PRIOR TO BACKFILL AND SHALL NOT COMPACT ANY BACKFILL PLACED AROUND THESE WALLS.
- ALL FOUNDATIONS SHALL HAVE 6" MIN. EXPOSED ABOVE GRADE

FOOTING SCHEDULE

1 OOTING GOTIEBOEE				
	ST DEPTH FOR ALL ERIOR FOOTINGS		30"	
	СО	NTINUOUS F	OOTINGS	
MARK ON PLANS	FOOTING WIDTH			PERP. REINF.
F18	18"	10"	(2) #4	N/A
F20	20" 10"		(2) #4	N/A
		SPOT FOOT	TINGS	
MARK ON PLANS	FOOTING	SQ DIM.	FOOTING DEPTH	REINF.
SF24	24" X 24"		10"	(3) #4 B.W.
PIER SCHEDULE		DULE		
MARK ON PLANS	PIER DIA. SQ. PIER DIM.		VERT	. REINF.
P12	12"	12" 12" X 12"		TIES @ 12" O.C.

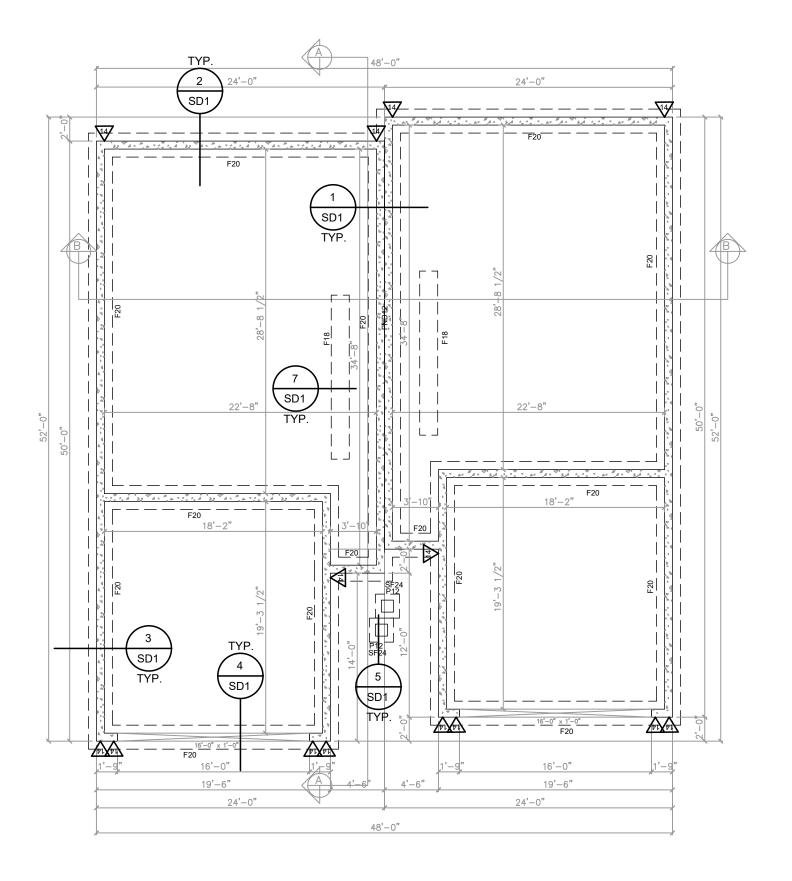
- CONTINUOUS FOOTINGS SHALL BE F18 INTERIOR, F20 EXTERIOR U.N.O. FOOTINGS SHALL BE PLACED ON COMPACTED NATIVE SOILS AT FROST DEPTH SPECIFIED OR ON ENGINEERED FILL MATERIAL AS SPECIFIED BY A LICENSED GEOTECHNICAL ENGINEER.
- FOOTING REINFORCEMENT SHALL BE PLACED 3" FROM BOTTOM OF FOOTING AND LAPPED 24" MINIMUM WHERE NECESSARY

HOLDOWN SCHEDULE

MARK	HOLDOWN	NOTES
$\overline{\mathbb{S}}$	SIMPSON #LSTHD8 (RJ)	CAST IN PLACE
10/	SIMPSON #STHD10 (RJ)	CAST IN PLACE
14	SIMPSON #STHD14 (RJ)	CAST IN PLACE
5	SIMPSON #HTT5 ⁽²⁾⁽³⁾	INSTALL §" Ø THREADED ROD WITH 3"X3-1/2" MIN. WOOD MEMBER SIZE
**	SIMPSON #HDU8 ⁽³⁾	INSTALL \(\frac{7}{8}\) \(\tilde{\ti}
1 1	SIMPSON #HDU11 ⁽³⁾	INSTALL 1" Ø THREADED ROD WITH 3"X5-1/2" MIN. WOOD MEMBER SIZE

- FOLLOW SPECIFICATIONS IN LATEST SIMPSON WOOD CONSTRUCTION CONNECTORS CATALOG
- CONNECTORS OF TAILOG ALTERNATE TO ANY CAST IN PLACE STRAP ABOVE CAST IN THREADED ROD OR DRILL AND EPOXY IN FOUNDATION WALL 16" MIN. EMBED AND WITHIN 6" OF VERTICAL FOUNDATION REBAR USING

SEE SHEETS SD3 AND SD4 FOR GENERAL CONSTRUCTION NOTES AND SCHEDULES





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84318

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KESSLER TOWNHOMES MAGNA LEAH COURT SUBDIVISION LOTS SOUTH 9150 WEST

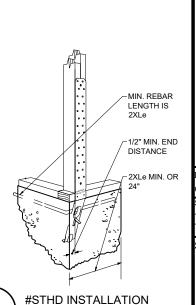


DESIGNED BY: J. SAGERS CHECKED BY: T. HILL

1/8" = 1'-0" (PRINTED ON 11X17) 1/4" = 1'-0" (PRINTED ON 22X34)

SHEET TITLE:

FOUNDATION PLAN



S1

SEE SD3 & SD4 FOR OTHER FRAMING AND SHEAR WALL SPECIFICATIONS NOT LISTED BELOW.

BEAM SCHEDULE

MARK	QUANTITY	PLY SIZE	TYPE
(#)2X6	SEE PLAN	2X6	SAWN
(#)2X8	SEE PLAN	2X8	SAWN
(#)2X10	SEE PLAN	2X10	SAWN
(#)2X12	SEE PLAN	2X12	SAWN
(#)5-1/2	SEE PLAN	1-3/4" X 5-1/2"	LVL
(#)7-1/4	SEE PLAN	1-3/4" X 7-1/4"	LVL
(#)9-1/2	SEE PLAN	1-3/4" X 9-1/2"	LVL
(#)11-7/8	SEE PLAN	1-3/4" X 11-7/8"	LVL
(#)14	SEE PLAN	1-3/4" X 14"	LVL
(#)16	SEE PLAN	1-3/4" X 16"	LVL
(#)18	SEE PLAN	1-3/4" X 18"	LVL
_X_DFRS	(1)	SEE PLAN	TIMBER
_X_GLB	(1)	SEE PLAN	GLULAM
W_X_	(1)	SEE PLAN	STEEL

- ALL SAWN LUMBER SHALL BE DF-L #2 MIN. ALL LVL BEAMS SHALL HAVE E=1900 KSI MIN. AND Fb=2600 PSI MIN. ALL TIMBER SHALL BE DF-L #1 MIN.
- ALL GLULAM BEAMS SHALL BE WESTERN 24F-V4 MIN.

- ALL GTELL BEAMS SHALL BE WESTERN 24F-V4 MIN.
 ALL STEEL BEAMS SHALL BE ASTM A992 (Fy=50 KSI MIN.) Fu=65 KSI MIN.)
 EACH PLY SHALL BE CONTINUOUS ALONG BEAM LENGTH.
 JOIN PLY'S TOGETHER WI (2)16D @ 12" O.C. EACH.
 PROVIDE (1) 2X TRIMMER AND (1) 2X KING STUD FOR BEAMS SPANNING
 UP TO 4-0". PROVIDE (2) 2X TRIMMER AND (2) 2X KING STUDS FOR SPANS
 4"-1" AND GREATER U.N.O.
- 4-1" AND GREATER U.N.O. PROVIDE AND TO AS THE LICE4 OR 12" LONG #CS16 ROTATED TO 45 DEGREES TO ATTACHED HEADERS TO TRIMMERS ON SPANS 6-0" AND GREATER. ANY BEAM MAY HAVE UP TO A 1" DIA HOLE DRILLED THROUGH. AS LONC AS THE LOCATION OF THE HOLE IS IN THE MIDDLE THIRD OF THE SPAN AND THE MIDDLE THIRD OF THE DEPTH. FOR OTHER SIZES/LOCATIONS, CONTACT THE ENGINEER.

 11. (BEAM#) SHOWN ON PLANS CORRESPONDS WITH BEAM CALCULATIONS
- PROVIDED IN THE STRUCTURAL CALCULATION PACKET.

COLUMN SCHEDULE

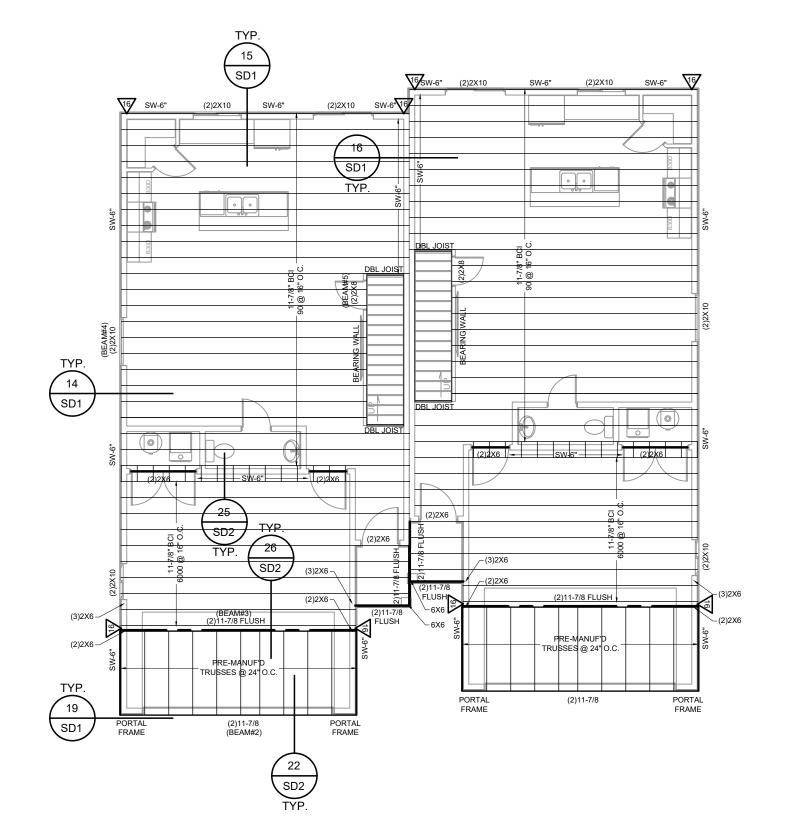
MARK	APPROX. DIMENSIONS	CAP/BASE TO BEAM	BASE TO CONC.
4X4	3-1/2" X 3-1/2"	#BC4	#ABU44Z
4X6	3-1/2" X 5-1/2"	#BC46	#ABU46Z
6X6	5-1/2" X 5-1/2"	#BC6	#ABU66Z
6X6R	6" X 6"	#BC6R	#ABU66RZ
8X8	7-1/2" X 7-1/2"	#BC8	#ABU88Z
8X8R	8" X 8"	SEE PLAN	#ABU88RZ
10X10	9-1/2" X 9-1/2"	SEE PLAN	#ABU1010Z
10X10R	10" X 10"	SEE PLAN	#ABU1010RZ
12X12	11-1/2" X 11-1/2"	SEE PLAN	#ABU1212Z
12X12R	12" X 12"	SEE PLAN	#ABU1212RZ
HSS_X_X_	STEEL COLUMN PER PLAN	CONNECTION PLATE PE	

- ALL POSTS AND COLUMNS SHALL BE DF-L #1 MIN.
 ALL STEEL HSS COLUMNS SHALL BE ASTM A500 GR. C (Fy=50 KSI MIN.,
 Fu=65 KSI MIN.)

VERTICAL STRAP SCHEDULE

MARK	HOLDOWN	NOTES
16	SIMPSON #CS16	PROVIDE 12" LAP
37	SIMPSON #MST37	PROVIDE (2) 2X STUDS
48	SIMPSON #MST48	PROVIDE (2) 2X STUDS
60	SIMPSON #MST60	PROVIDE (2) 2X STUDS
$\sqrt{2}$	SIMPSON #MST72	PROVIDE (2) 2X STUDS

- FOLLOW INSTALLATION SPECIFICATIONS IN LATEST SIMPSON WOOD CONSTRUCTION CONNECTORS CATALOG.
 WHEN STRAPPING FLOOR TO FLOOR, CENTER STRAP ON RIM JOIST AND
- NAIL TO STUDS ABOVE AND BELOW.





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84318 NO. DESCRIPTION

KESSLER TOWNHOMES MAGNA ∞ LEAH COURT SUBDIVISION LOTS 2823 SOUTH 9150 WEST

MAGNA, UTAH



DESIGNED BY: J. SAGERS CHECKED BY: T. HILL

SCALE:

1/8" = 1'-0" (PRINTED ON 11X17) 1/4" = 1'-0" (PRINTED ON 22X34)

SHEET TITLE:

SECOND FLOOR FRAMING PLAN

SEE SD3 & SD4 FOR OTHER FRAMING AND SHEAR WALL SPECIFICATIONS NOT LISTED BELOW.

BEAM SCHEDULE

MARK QUANTITY PLY SIZE TYPE (#)2X6 SEE PLAN 2X6 SAWN (#)2X8 SEE PLAN 2X8 SAWN (#)2X10 SEE PLAN 2X10 SAWN (#)2X12 SEE PLAN 2X12 SAWN (#)5-1/2 SEE PLAN 1-3/4" X 5-1/2" LVL (#)7-1/4 SEE PLAN 1-3/4" X 7-1/4" LVL (#)9-1/2 SEE PLAN 1-3/4" X 9-1/2" LVL (#)11-7/8 SEE PLAN 1-3/4" X 11-7/8" LVL (#)14 SEE PLAN 1-3/4" X 14" LVL (#)16 SEE PLAN 1-3/4" X 16" LVL (#)18 SEE PLAN 1-3/4" X 18" LVL _X_DFRS (1) SEE PLAN TIMBER _X_GLB (1) SEE PLAN SEE PLAN				
(#)2X8 SEE PLAN 2X8 SAWN (#)2X10 SEE PLAN 2X10 SAWN (#)2X12 SEE PLAN 2X12 SAWN (#)5-1/2 SEE PLAN 1-3/4" X 5-1/2" LVL (#)7-1/4 SEE PLAN 1-3/4" X 7-1/4" LVL (#)9-1/2 SEE PLAN 1-3/4" X 9-1/2" LVL (#)11-7/8 SEE PLAN 1-3/4" X 11-7/8" LVL (#)14 SEE PLAN 1-3/4" X 14" LVL (#)16 SEE PLAN 1-3/4" X 16" LVL (#)18 SEE PLAN 1-3/4" X 18" LVL X_DFRS (1) SEE PLAN TIMBER _X_GLB (1) SEE PLAN GLULAM	MARK	QUANTITY	PLY SIZE	TYPE
(#)2X10 SEE PLAN 2X10 SAWN (#)2X12 SEE PLAN 2X12 SAWN (#)5-1/2 SEE PLAN 1-3/4" X 5-1/2" LVL (#)5-1/2 SEE PLAN 1-3/4" X 7-1/4" LVL (#)9-1/2 SEE PLAN 1-3/4" X 9-1/2" LVL (#)11-7/8 SEE PLAN 1-3/4" X 11-7/8" LVL (#)14 SEE PLAN 1-3/4" X 14" LVL (#)16 SEE PLAN 1-3/4" X 16" LVL (#)18 SEE PLAN 1-3/4" X 18" LVL _X_DFRS (1) SEE PLAN TIMBER _X_GLB (1) SEE PLAN GLULAM	(#)2X6	SEE PLAN	2X6	SAWN
(#)2X12 SEE PLAN 2X12 SAWN (#)5-1/2 SEE PLAN 1-3/4" X 5-1/2" LVL (#)7-1/4 SEE PLAN 1-3/4" X 7-1/4" LVL (#)9-1/2 SEE PLAN 1-3/4" X 9-1/2" LVL (#)11-7/8 SEE PLAN 1-3/4" X 11-7/8" LVL (#)14 SEE PLAN 1-3/4" X 14" LVL (#)16 SEE PLAN 1-3/4" X 16" LVL (#)18 SEE PLAN 1-3/4" X 18" LVL _X_DFRS (1) SEE PLAN TIMBER _X_GLB (1) SEE PLAN GLULAM	(#)2X8	SEE PLAN	2X8	SAWN
(#)5-1/2 SEE PLAN 1-3/4" X 5-1/2" LVL (#)7-1/4 SEE PLAN 1-3/4" X 7-1/4" LVL (#)9-1/2 SEE PLAN 1-3/4" X 9-1/2" LVL (#)11-7/8 SEE PLAN 1-3/4" X 11-7/8" LVL (#)14 SEE PLAN 1-3/4" X 14" LVL (#)16 SEE PLAN 1-3/4" X 16" LVL (#)18 SEE PLAN 1-3/4" X 18" LVL _X_DFRS (1) SEE PLAN TIMBER _X_GLB (1) SEE PLAN GLULAM	(#)2X10	SEE PLAN	2X10	SAWN
(#)7-1/4 SEE PLAN 1-3/4" X 7-1/4" LVL (#)9-1/2 SEE PLAN 1-3/4" X 9-1/2" LVL (#)11-7/8 SEE PLAN 1-3/4" X 11-7/8" LVL (#)14 SEE PLAN 1-3/4" X 14" LVL (#)16 SEE PLAN 1-3/4" X 16" LVL (#)18 SEE PLAN 1-3/4" X 18" LVL _X_DFRS (1) SEE PLAN TIMBER _X_GLB (1) SEE PLAN GLULAM	(#)2X12	SEE PLAN	2X12	SAWN
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(#)11-7/8 SEE PLAN 1-3/4" X 11-7/8" LVL (#)14 SEE PLAN 1-3/4" X 14" LVL (#)16 SEE PLAN 1-3/4" X 16" LVL (#)18 SEE PLAN 1-3/4" X 18" LVL _X_DFRS (1) SEE PLAN TIMBER _X_GLB (1) SEE PLAN GLULAM	(#)7-1/4	SEE PLAN	1-3/4" X 7-1/4"	LVL
(#)14 SEE PLAN 1-3/4" X 14" LVL (#)16 SEE PLAN 1-3/4" X 16" LVL (#)18 SEE PLAN 1-3/4" X 18" LVL _X_DFRS (1) SEE PLAN TIMBER _X_GLB (1) SEE PLAN GLULAM	(#)9-1/2	SEE PLAN	1-3/4" X 9-1/2"	LVL
(#)16 SEE PLAN 1-3/4" X 16" LVL (#)18 SEE PLAN 1-3/4" X 18" LVL _X_DFRS (1) SEE PLAN TIMBER _X_GLB (1) SEE PLAN GLULAM	(#)11-7/8	SEE PLAN	1-3/4" X 11-7/8"	LVL
(#)18 SEE PLAN 1-3/4" X 18" LVL _X_DFRS (1) SEE PLAN TIMBER _X_GLB (1) SEE PLAN GLULAM	(#)14	SEE PLAN	1-3/4" X 14"	LVL
_X_DFRS (1)	(#)16	SEE PLAN	1-3/4" X 16"	LVL
_X_GLB (1) SEE PLAN GLULAM	(#)18	SEE PLAN	1-3/4" X 18"	LVL
	_X_DFRS	(1)	SEE PLAN	TIMBER
W_X_ (1) SEE PLAN STEEL	_X_GLB	(1)	SEE PLAN	GLULAM
	W_X_	(1)	SEE PLAN	STEEL

- ALL SAWN LUMBER SHALL BE DF-L #2 MIN. ALL LVL BEAMS SHALL HAVE E=1900 KSI MIN. AND Fb=2600 PSI MIN. ALL TIMBER SHALL BE DF-L #1 MIN.
- ALL GLULAM BEAMS SHALL BE WESTERN 24F-V4 MIN.

- ALL GLULAM BEAMS SHALL BE WESTERN 24F-V4 MIN.
 ALL STEEL BEAMS SHALL BE ASTM A992 (Fy=50 KSI MIN., Fu=65 KSI MIN.)
 EACH PLY SHALL BE CONTINUOUS ALONG BEAM LENGTH.
 JOIN PLY'S TOGETHER W. (2)16D @ 12" O.C. EACH.
 PROVIDE (1) 2X TRIMMER AND (1) 2X KING STUD FOR BEAMS SPANNING
 UP TO 4-0". PROVIDE (2) 2X TRIMMER AND (2) 2X KING STUDS FOR SPANS
 4-1" AND GREATER U.N.O.
- 4-1" AND GREATER U.N.O.
 PROVIDE #LCE4 OR 12" LONG #CS16 ROTATED TO 45 DEGREES TO
 ATTACHED HEADERS TO TRIMMERS ON SPANS 6-0" AND GREATER.
 ANY BEAM MAY HAVE UP TO A 1" DIA HOLE DRILLED THROUGH. AS LONG
 AS THE LOCATION OF THE HOLE IS IN THE MIDDLE THIRD OF THE SPAN AND THE MIDDLE THIRD OF THE DEPTH. FOR OTHER SIZES/LOCATIONS, CONTACT THE ENGINEER.

 11. (BEAM #) SHOWN ON PLANS CORRESPONDS WITH BEAM CALCULATIONS
- PROVIDED IN THE STRUCTURAL CALCULATION PACKET.

COLUMN SCHEDULE

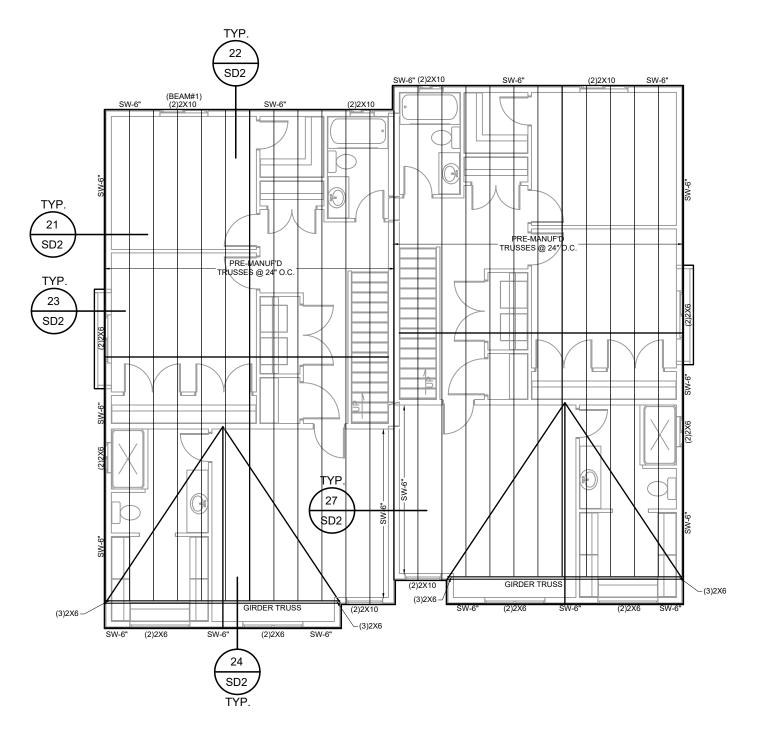
MARK	APPROX. DIMENSIONS	CAP/BASE TO BEAM	BASE TO CONC.
4X4	3-1/2" X 3-1/2"	#BC4	#ABU44Z
4X6	3-1/2" X 5-1/2"	#BC46	#ABU46Z
6X6	5-1/2" X 5-1/2"	#BC6	#ABU66Z
6X6R	6" X 6"	#BC6R	#ABU66RZ
8X8	7-1/2" X 7-1/2"	#BC8	#ABU88Z
8X8R	8" X 8"	SEE PLAN	#ABU88RZ
10X10	9-1/2" X 9-1/2"	SEE PLAN	#ABU1010Z
10X10R	10" X 10"	SEE PLAN	#ABU1010RZ
12X12	11-1/2" X 11-1/2"	SEE PLAN	#ABU1212Z
12X12R	12" X 12"	SEE PLAN	#ABU1212RZ
HSS_X_X_	STEEL COLUMN PER PLAN	CONNECTION PLATE PE	

- ALL POSTS AND COLUMNS SHALL BE DF-L #1 MIN.
 ALL STEEL HSS COLUMNS SHALL BE ASTM A500 GR. C (Fy=50 KSI MIN., Fu=65 KSI MIN.)

VERTICAL STRAP SCHEDULE

MARK	HOLDOWN	NOTES
16	SIMPSON #CS16	PROVIDE 12" LAP
37	SIMPSON #MST37	PROVIDE (2) 2X STUDS
48	SIMPSON #MST48	PROVIDE (2) 2X STUDS
60	SIMPSON #MST60	PROVIDE (2) 2X STUDS
$\sqrt{2}$	SIMPSON #MST72	PROVIDE (2) 2X STUDS

- FOLLOW INSTALLATION SPECIFICATIONS IN LATEST SIMPSON WOOD CONSTRUCTION CONNECTORS CATALOG.
 WHEN STRAPPING FLOOR TO FLOOR, CENTER STRAP ON RIM JOIST AND NAIL TO STUDS ABOVE AND BELOW.





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84318 NO. DESCRIPTION

KESSLER TOWNHOMES MAGNA ∞ LEAH COURT SUBDIVISION LOTS 2823 SOUTH 9150 WEST



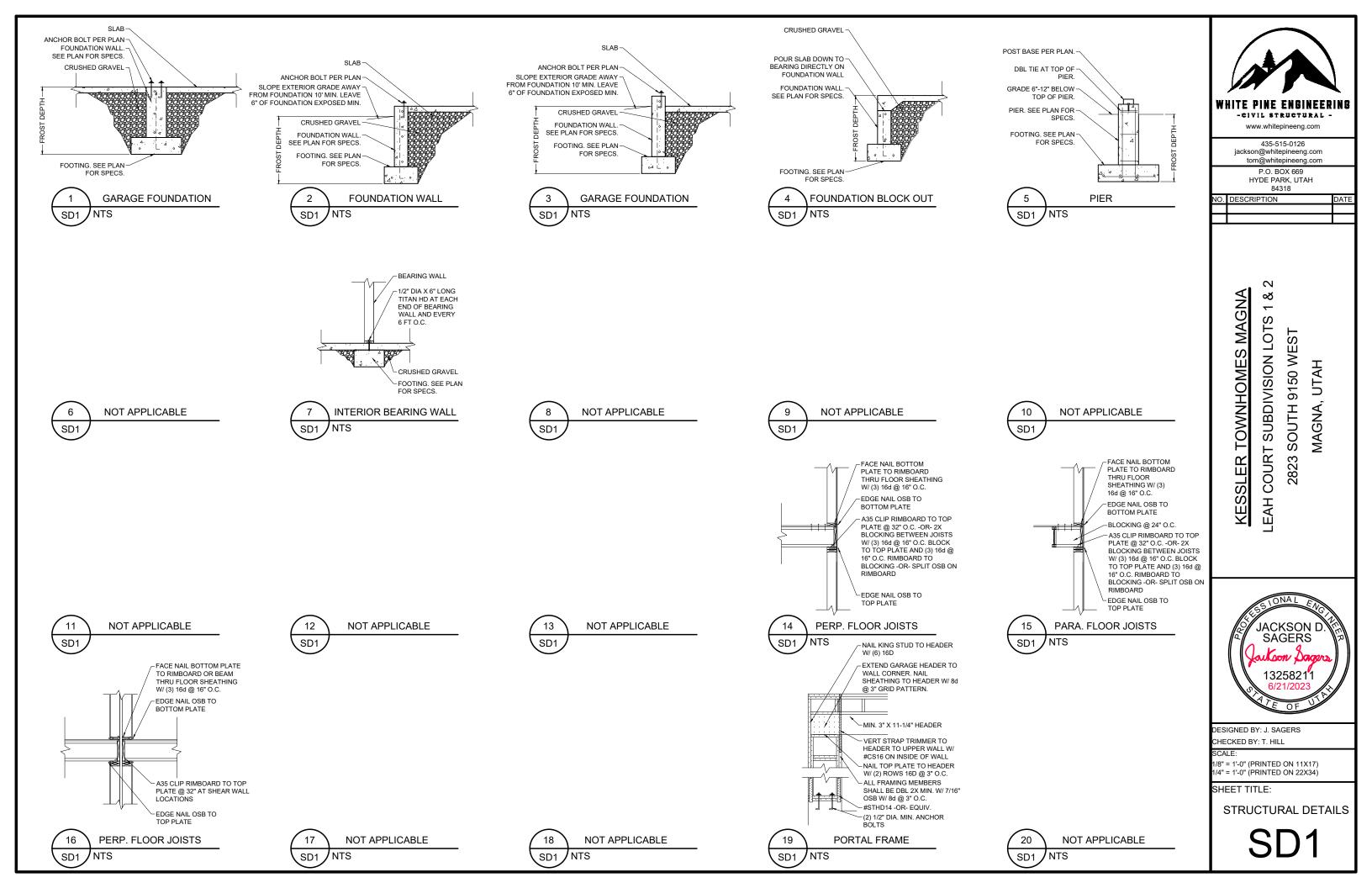
DESIGNED BY: J. SAGERS CHECKED BY: T. HILL

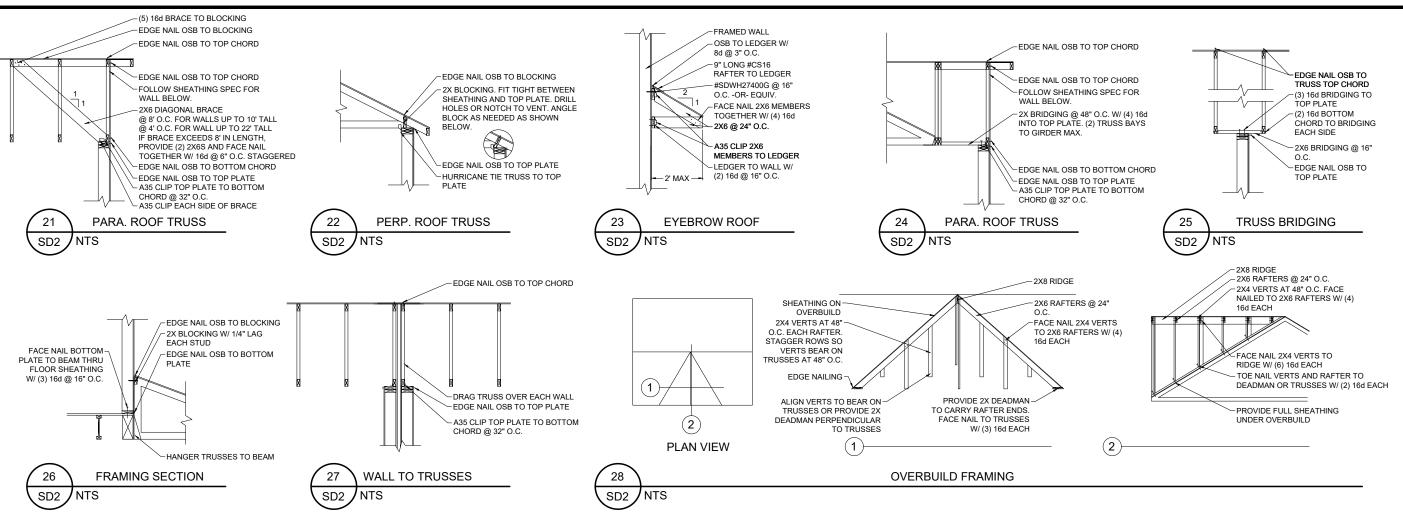
SCALE:

1/8" = 1'-0" (PRINTED ON 11X17) 1/4" = 1'-0" (PRINTED ON 22X34)

SHEET TITLE:

ROOF FRAMING PLAN







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84318

NO. DESCRIPTION

KESSLER TOWNHOMES MAGNA ∞ $\overline{}$ COURT SUBDIVISION LOTS SOUTH 9150 WEST MAGNA, UTAH 2823 LEAH



DESIGNED BY: J. SAGERS CHECKED BY: T. HILL

SCALE

1/8" = 1'-0" (PRINTED ON 11X17) 1/4" = 1'-0" (PRINTED ON 22X34)

SHEET TITLE:

STRUCTURAL DETAILS

DESIGN CRITERIA: RISK CATEGORY DESIGN RISK CATEGORY SNOW LOAD IMPORTANCE FACTOR (I_s): 1.0 SEISMIC IMPORTANCE FACTOR (I_E): 0.83 1.24 6.5 SITE CLASS: D (ASSUMED) 120 MPH EXPOSURE CATEGORY: C **ELEVATION:** 4306 FT SNOW LOADS 0 PSF 1.0 1.0 1.0 30 PSF 30 PSF DEAD LOADS ROOF: 1 FLOOR: 15 PSF WALLS: 10 PSF DECKS: 10 PSF **CONCRETE: 145 PSF** LIVE LOADS ROOF 20 PSF FLOOR: 40 PSF BEDROOM: 30 PSF DECK 60 PSF GARAGE: 40 PSF SOIL LOADS AND VALUES (ASSUMED) SOIL BEARING PRESSURE: 1500 PS ACTIVE PRESSURE 35 PCF 250 PCF PASSIVE PRESSURE AT-REST PRESSURE 60 PCF SEE NOTES FOR SOIL ASSUMPTIONS AS FOUND IN THE CONCRETE FOOTINGS & FOUNDATIONS SECTION, THIS PAGE *ENGINEER ASSUMES STABLE SOIL CONDITIONS. IF THERE ARE ANY GLOBAL STABILITY CONCERNS, A GEOTECHNICAL REPORT IS REQUIRED. **GENERAL CONSTRUCTION NOTES:** ALL CONSTRUCTION WORK SHALL FOLLOW THE STANDARDS FOUND IN THE INTERNATIONAL BUILDING CODE (IBC 2021), INTERNATIONAL RESIDENTIAL CODE (IRC 2021), AND THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS 2018) THE ENGINEERED DRAWINGS PROVIDED HEREIN WERE COMPLETED USING THE PROFESSIONAL STANDARD OF CARE REQUIRED BY THE GOVERNING MUNICIPALITY AND/OR STATE THESE DRAWINGS HOWEVER, DO NOT AND CAN NOT PROVIDE EVERY EXPLICIT ELEMENT OR CONDITION OF THE STRUCTURE. AS SUCH, CONTRACTOR SHALL

- PROVIDE INDUSTRY STANDARD GOOD CARE AND PRACTICE FOR MISCELLANEOUS ELEMENTS NOT SHOWN ON PLANS AND SHALL CONTACT ENGINEER FOR FURTHER INFORMATION IF REQUIRED
- STRUCTURAL ENGINEERING PROVIDED HEREIN ASSUMES FINAL CONSTRUCTED CONDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR STRUCTURAL INTEGRITY OF UNFINISHED STRUCTURE DURING ALL STAGES OF CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LIVE LOADS SHOWN IN DESIGN CRITERIA. CONTRACTOR SHALL PROVIDE BRACING OR SHORING AS NECESSARY TO SUPPORT UNFINISHED STRUCTURE.
- WHITE PINE ENGINEERING (WPE) ASSUMES NO LIABILITY FOR THE MEANS AND METHODS OF CONSTRUCTION PRACTICES. CONTRACTOR IS RESPONSIBLE FOR ALL MEANS OF CONSTRUCTION AND FOR JOBSITE SAFETY PER OSHA REGULATIONS
- CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING APPROVAL AND ANY NECESSARY PERMITS FROM THE GOVERNING MUNICIPALITY PRIOR TO BEGINNING OF CONSTRUCTION.
- ANY OBSERVATIONS PROVIDED BY WPE DURING CONSTRUCTION SHALL BE CONSIDERED OBSERVATIONS LIMITED TO THE SCOPE REQUESTED. AND NOT FULL INSPECTIONS OR APPROVAL. THE GOVERNING MUNICIPALITY SHALL BE SOLELY RESPONSIBLE FOR INSPECTIONS AND APPROVAL OF FINAL CONSTRUCTION.
- CONTRACTOR SHALL INFORM ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND CONDITIONS ASSUMED ON THESE PLANS (I.E. DIMENSIONS, MATERIALS, ASSUMED LOADS, ETC).
- 6. SHOP DRAWINGS FOR ANY PREMANUFACTURED STRUCTURAL FLEMENTS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONSTRUCTION AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD TO REVIEW IF DIMENSIONS OR OTHER ASPECTS OF SHOP DRAWINGS DIFFER FROM THOSE ON THESE PLANS.

CONCRETE FOOTINGS, FOUNDATIONS, AND SLABS

- 1. CONCRETE SHALL MEET REQUIREMENTS OUTLINED IN THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI318-19)
- 2. LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM ALL FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 IN WITHIN THE FIRST 10 FT DISTANCE FROM THE BUILDING.
- IMPERVIOUS SURFACES (I.E. CONCRETE, ASPHALT) SHALL BE SLOPED A MINIMUM OF 2% AWAY FROM THE BUILDING
- CONTRACTOR SHALL DAMP PROOF ALL CONCRETE WALLS THAT RETAIN EARTH OR HAVE ENCLOSED USABLE SPACES BY PLACING A BITUMINOUS COATING ON BELOW GRADE EXTERIOR SECTIONS OF FOUNDATION WALL OR WITH ANOTHER APPROVED DAMP PROOFING METHOD AS OUTLINED IN R406 OF THE IRC.
- 5. FOUNDATION DRAINAGE SYSTEM IS NOT REQUIRED IF BACKFILLED WITH WELL-DRAINING BACKFILL OR SAND-GRAVEL MIXTURE SOILS OF GROUP 1 SOILS OF THE UNIFIED SOILS CLASSIFICATION SYSTEM AS SHOWN IN TABLE R405.1 OF THE IRC.
- 6. ALL CONCRETE WALLS THAT RETAIN EARTH AND ANY FOUNDATION WALLS THAT ENCLOSE USABLE AREAS WITH GROUP II-GROUP IV SOILS OF THE UNIFIED SOILS CLASSIFICATIONS SYSTEM AS SHOWN TABLE R405.1 OF THE IRC SHALL HAVE A FOUNDATION DRAIN INSTALLED CONSISTING OF A PERFORATED DRAIN PIPE NOT LESS THAN 1' BEYOND THE OUTSIDE EDGE OF THE FOOTINGS AND 6" ABOVE THE TOP OF FOOTING WITH A GRAVEL DRAIN WRAPPED IN AN APPROVED FILTER FABRIC
- ANY FOUNDATION WALLS THAT ENCLOSE USABLE SPACE WITH A HIGH WATER TABLE OR OTHER SEVERE GROUND WATER CONDITIONS SHALL BE WATERPROOFED AS REQUIRED IN SECTION R406.2 OF THE
- 8. WPE ASSUMES STABLE SOIL CONDITIONS. CONTACT ENGINEER IF SOIL CONDITIONS DIFFER FROM THOSE ASSUMED. SEE DESIGN CRITERIA FOR ASSUMED VALUES. THESE VALUES SHALL BE REPLACED BY DATA INCLUDED IN A SITE SPECIFIC GEOTECHNICAL REPORT IF AVAILABLE.
- CRUSHED ROCK OR GRAVEL FILL WITH RELATIVELY LOW AMOUNTS OF FINES MAY BE USED TO BRING BOTTOM OF FOOTINGS OR SLABS UP TO GRADE WITH A MAXIMUM GRAVEL FILL DEPTH OF 2'. GRAVEL OR CRUSHED ROCK FILLS SHALL BE COMPACTED USING A VIBRATORY PLATE COMPACTOR
- 10. ANY FILL SOILS OR GRAVEL FILL DEEPER THAN 2' THAT SUPPORT FOOTINGS AND FOUNDATIONS SHALL BE DESIGNED BY A LICENSED GEOTECHNICAL ENGINEER. FILL SOILS SHALL BE INSTALLED, AND TESTED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE.
- 11. WHERE QUANTIFIABLE DATA OR OBSERVATIONS INDICATE EXPANSIVE, COMPRESSIBLE, SHIFTING, OR OTHER QUESTIONABLE SOIL CHARACTERISTICS OR GEOTECHNICAL HAZARDS ARE LIKELY TO BE PRESENT, THE BUILDING OFFICIAL SHALL DETERMINE WHETHER TO REQUIRE A SITE SPECIFIC GEOTECHNICAL STUDY TO DETERMINE SOIL CHARACTERISTICS OF THE SITE.
- 12. FROST DEPTH OF FOOTINGS AND MINIMUM FREEBOARD OF FOUNDATION WALLS SHALL BE MET AS SPECIFIED ON SHEET S1.0. NO FOOTINGS IN UNCONDITIONED SPACE SHALL BE CONSTRUCTED SHALLOWER THAN THE MINIMUM FROST DEPTH.
- 13. CONCRETE SHALL BE BE MECHANICALLY VIBRATED WHEN PLACED TO AVOID HONEYCOMBING ALONG FORMS AND TO HELP CONCRETE FREELY FLOW AROUND REINFORCEMENT.
- 14. CONCRETE SHALL NOT BE DROPPED MORE THAN 5' MAXIMUM DURING PLACEMENT
- 15. CONCRETE FOR FOUNDATION WALLS SHALL CURE A MINIMUM OF 7 DAYS AND HAVE INTERIOR SLAB INSTALLED PRIOR TO ANY BACKFILL FOUNDATION WALLS 6' IN HEIGHT AND ABOVE DESIGNED FOR TOP SUPPORT, CONTRACTOR SHALL INSTALL FLOOR OR ROOF DIAPHRAGM PRIOR TO BACKFILL AND SHALL NOT COMPACT ANY BACKFILL PLACED AROUND THESE WALLS.
- 16. ALL FOUNDATIONS SHALL HAVE 6" MIN. EXPOSED ABOVE GRADE. 17. CONTRACTOR SHALL ROUGHEN COLD JOINT BETWEEN FOOTING AND
- WALL TO 1" AMPLITUDE. 18. ALL SLABS ON GRADE SHALL HAVE CONTROL JOINTS IN SLAB AT 15'
- O.C. MAXIMUM SPACING. 19. ALL CONCRETE SLABS ON GRADE SHALL BE A MINIMUM OF 4" THICK
- ON 4" PLATE COMPACTED GRAVEL OR OTHER APPROVED FREE DRAINING MATERIAL
- 20. REINFORCING STEEL IN CONCRETE SHALL MEET THE REQUIREMENTS OF THE FOLLOWING SECTION ENTITLED "REINFORCING STEEL" 21. ALL REINFORCEMENT IN CONCRETE SHALL BE PROPERTY TIED AND
- SECURED PRIOR TO POURING CONCRETE IN SUCH A WAY THAT REINFORCEMENT REMAINS IN DESIGNED LOCATION. VERTICAL REINFORCING STEEL FOR MASONRY CONSTRUCTION MAY BE FLOATED INTO PLACE
- 22. ANY COMPONENTS THAT ARE CAST IN PLACE SHALL BE SECURELY PLACED IN THE FORMS (I.E. STRAPS, BOLTS, SLEEVES, ETC.)
- 23. REINFORCEMENT IN FOUNDATION WALLS SHALL BE CENTERED IN WALL U.N.O. REINFORCEMENT FOR CONCRETE WALLS RETAINING EARTH SHALL BE PLACED WHERE DESIGNED ON PLANS.
- 24. ENGINEER ASSUMES 2,500 PSI COMPRESSIVE STRENGTH IN STRUCTURAL CONCRETE, THEREFORE CONCRETE FOR FOOTINGS, FOUNDATION WALLS, AND SLABS ON GRADE CAN BE EXEMPT FROM SPECIAL INSPECTIONS ACCORDING TO EXEMPTIONS LISTED IN SECTION 1705.3 IN THE IBC UNLESS NOTED OTHERWISE

	CON	CRETE SPECIFI	CATIONS		REBAR CONCR	ETE COVERAGE DIS	STANCES	
	STRUCTURAL ELEMENT	MIN. COMRESSIVE STRENGTH (fc)	AIR CONTENT	W/C RATIO	EXPOSURE CONDITION	BAR SIZE OR MEMBER	REBAR CLR DISTANCE (MIN.)	
G		, ,			CAST AGAINST AND			İ
LL	FOUNDATION WALLS AND FOOTINGS, NOT	3000 PSI	5%-7% ⁽¹⁾	.55	PERMANENTLY EXPOSED TO EARTH	ANY	3"	
ΞD	EXPOSED TO WEATHER	3000 1 01	370-170	.55		#5 AND SMALLER	1-1/2"	"
	SLABS (EXCLUDING GARAGE SLABS)	3000 PSI	5%-7% ⁽¹⁾	.55	EXPOSED TO WEATHER	#6 AND LARGER	2"	F
3	WALLS, EXPOSED TO WEATHER	3000 PSI	5%-7%	.45		#14 AND # 18; SLABS, JOISTS, AND WALLS	1-1/2"	_
OF	SLABS EXPOSED TO WEATHER (INCLUDING GARAGE AND SUSP SLABS)	3500 PSI	5%-7%	.45	NOT EXPOSED TO WEATHER OR IN CONTACT	#11 AND SMALLER; SLABS, JOISTS, AND	3/4"	NC
IN	NOTES TO TABLE ABO	VE:			WITH GROUND	WALLS		H

TYPE OF

HOOK

90° HOOK

1809

HOOK

- 1. AIR ENTRAINMENT ONLY REQUIRED IN CONCRETE NOT EXPOSED TO WEATHER IF EXPOSED TO FREEZE/THAW DURING CONSTRUCTION **PROCESS**
- 2. fc IS CONCRETE COMPRESSIVE STRENGTH AT 28-DAYS
- 3. PORTLAND CEMEMT TYPE I/II
- 4. W/C RATIO BASED ON ALL CEMENTITIOUS AND SUPPLEMENTARY CEMENTITIOUS MATERIAL IN CONCRETE MIXTURE.
- 5. CONCRETE SHALL NOT INCLUDE CALCIUM CHLORIDE ADMIXTURE 6. NOMINAL MAXIMUM AGGREGATE SIZE OF 3/4" AND SHALL CONFORM TO ASTM C33
- 7. CONCRETE MIXTURE MAY HAVE A MAXIMUM OF 25% BY MASS OF FLY ASH OR OTHER NATURAL POZZOLANS CONFORMING TO ASTM C618
- 8. SEE SECTION R404.1.3.3.4 (IRC 2021) FOR SLUMP REQUIREMENTS. SLUMP OF CONCRETE SHALL BE ADEQUATE TO PROVIDE WORKABILITY AROUND REINFORCEMENT

ANCHOR BOLTS

- 1. ANCHORING OF SILL PLATES TO FOUNDATION SHALL FOLLOW SECTION 2308.3 (IBC 2021)
- 2. ANCHOR BOLTS SHALL BE A MINIMUM OF # DIAMETER X 10" LONG "J" BOLTS @ 32" O.C. ANCHOR BOLTS SHALL BE GRADE A307 AND SHALL HAVE 7" MINIMUM EMBEDMENT IN CONCRETE. SEE SHEAR WALL SCHEDULE FOR SHEAR WALL SPECIFIC ANCHOR BOLT SPACING.
- ANCHOR BOLTS SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SILL PLATE.
- EACH SECTION OF FOUNDATION WALL SHALL HAVE A MINIMUM OF (2) ANCHOR BOLTS (ONE ON EACH END). PROVIDE EDGE ANCHOR BOLTS WITHIN FIRST FOOT OF FOUNDATION SECTION WHEN
- 5. PROVIDE 3" X 3" X 3" PLATE WASHER FOR EACH ANCHOR BOLT. DIAGONALLY SLOTTED HOLE IN PLATE WASHER ALLOWED TO BE 3/6" WIDER THAN ANCHOR BOLT DIAMETER NOT TO EXCEED 1 $\frac{3}{4}$ " IF A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND NUT
- 6. $\frac{1}{2}$ " DIA. X 7" LONG SIMPSON TITAN HD BOLTS @ SPACING MATCHING SHEAR WALL SCHEDULE MAY BE SUBSTITUTED FOR ANCHOR BOLT SPECIFICATION ABOVE

REINFORCING STEEL:

- PLACEMENT OF REINFORCING STEEL SHALL MEET REQUIREMENTS OF CHAPTER 25 OF ACI 318-19.
- 2. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 (Fy = 60 KSI).
- REINFORCING STEEL SHALL NOT BE WELDED UNLESS SPECIFIED ON THE PLANS. REINFORCING STEEL THAT IS WELDED SHALL BE ASTM
- REINFORCING WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-185.
- ALL REINFORCING STEEL DIMENSIONS SHALL BE TO CENTER OF BAR UNLESS DIMENSION IS SPECIFIED AS "CLEAR" OR "CLR" IN WHICH CASE THE DIMENSION IS TO EDGE OF REBAR
- EDGE DISTANCE, HOOK AND BEND RADII, AND REBAR LAP LENGTHS SHALL MEET THE FOLLOWING REQUIREMENTS ON THIS SHEET AND THE REQUIREMENTS IN THE ACI 318.
- REINFORCING IN FOUNDATION WALLS AND AROUND OPENINGS SHALL MEET REQUIREMENTS OF THE FOUNDATION SCHEDULE SHOWN ON S1.0 AND THE UTAH AMENDMENT TO THE CODE 15A-3-108.
- ON CENTER (O.C.) SPACING SHOWN ON PLANS SHALL BE MAXIMUM SPACING ALLOWABLE.
- BARS SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS (d_b) TO MEET DEVELOPMENT LENGTH, DEVELOPMENT LENGTH ASSUMES UNEPOXIED REBAR AND NORMAL WEIGHT CONCRETE. CONTACT ENGINEER FOR OTHER CONDITIONS IF NEEDED.

HYDE PARK, UTAH DESCRIPTION ALL SIZE BARS: BEAMS COLUMNS, AND 1-1/2" **TENSION TIES** NOTES TO TABLE ABOVE: 1. SEE TABLE 20.5.1.3.1 ACI 318-19 2. ALL SLAB ON GRADE REINFORCEMENT SHALL BE CENTERED IN SLAB UNLESS NOTED OTHERWISE STANDARD HOOK GEOMETRY OF DEFORMED BARS IN TENSION (SEE ACI 318-19 TABLE 25.3.1 FOR ALL BAR SIZES AND REQUIREMENTS) STRAIGHT RAR

TYPE OF HOOK

STANDARD HOOK GEOMETRY FOR STIRRUPS, TIES AND HOOPS (SEE ACI 318-19 TABLE 25.3.2 FOR ALL BAR SIZES AND REQUIREMENTS)

INSIDE

DIAMETER

 $6d_b$

 $6d_h$

SIZE

#3-#8

#3-#8

EXTENSION

MIN. (I_{ext})

 $12d_b$

GREATER

OF 4d_h and

2.5"

TYPE OF HOOK	BAR SIZE	MIN. INSIDE DIAMETER	STRAIGHT EXTENSION MIN. (I _{ext})	TYPE OF HOOK
90° HOOK	#3-#5	4d _b	GREATER OF 6d _b and 3"	90-degree bend Diameter
135° HOOK	#3-#5	4d _b	GREATER OF 6d _b and 3"	Diameter Laxt
180° HOOK	#3-#5	4d _b	GREATER OF 6d _b and 3"	Diameter 180-degree bend
	90° HOOK 135° HOOK	90° #3-#5 HOOK #3-#5 135° #3-#5 HOOK #3-#5	90° HOOK #3-#5 4db INSIDE DIAMETER 135° HOOK #3-#5 4db	TYPE OF HOOK BAR SIZE INSIDE DIAMETER EXTENSION MIN. (I _{ext}) 90° HOOK #3-#5 4d _b GREATER OF 6d _b and 3" 135° HOOK #3-#5 4d _b GREATER OF 6d _b and 3" 180° HOOK #3-#5 4d _b GREATER OF 6d _b and 3"

- NOTES TO TABLE ABOVE:

 1. A LONGER STRAIGHT EXTENSION IS ALLOWABLE BUT DOES NOT INCREASE ANCHORAGE CAPACITY
- 2. MINIMUM DEVELOPMENT LENGTH SHALL BE 40 BAR DIAMETERS (d_b)

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84318



DESIGNED BY: J. SAGERS CHECKED BY: T. HILL

SCALE /8" = 1'-0" (PRINTED ON 11X17)

/4" = 1'-0" (PRINTED ON 22X34) SHEET TITLE:

> STRUCTURAL NOTES AND SCHEDULES

	MINIMUM NAILING SCHEDULE (IBC 2304.10.2)						
No.	BUILDING ELEMENT	No.	SIZE	SPACING	LOCATION	-	
1.1	BLOCKING BETWEEN CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	(4)	8d	-	EACH END, TOENAIL	1	
1.2	BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	(2)	16d	-	END NAIL		
8	STUD TO STUD (NOT AT BRACED WALL PANELS)	-	16d	24" O.C.	FACE NAIL		
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	-	16d	12" O.C.	FACE NAIL		
10	BUILT-UP HEADER (2" TO 2" HEADER)	-	16d	12" O.C.	EACH EDGE, FACE NAIL		
11	CONTINUOUS HEADER TO STUD	(5)	8d	-	TOENAIL	1	
12	TOP PLATE TO TOP PLATE	-	16d	16" O.C.	FACE NAIL	1	
13	TOP PLATE TO TOP PLATE, AT END JOINTS (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)	(12)	16d	-	EACH SIDE OF END JOINT, FACE NAIL		
14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACE WALL PANELS)	-	16d	12" O.C.	FACE NAIL	1	
15	BOTTOM PLATE TO JOIST, RIM JOIST, BANDS JOIST, OR BLOCKING AT BRACE WALL PANELS	(3)	16d	16" O.C.	FACE NAIL		
16	STUD TO TOP OR BOTTOM PLATE	(2)	16d	-	END NAIL	1	
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	(2)	16d	-	FACE NAIL	1	
21	JOIST TO SILL, TOP PLATE, OR GIRDER	(4)	8d	-	TOENAIL	1	
22	RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL, OR OTHER FRAMING BELOW	-	8d	4" O.C.	TOENAIL	1	
26	BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	(2)	16d	12" O.C.	FACE NAIL	1	
28	JOIST TO BAND JOIST OR RIM JOIST	(3)	16d	-	END NAIL	1	
29	BRIDGING OR BLOCKING TO JOIST, RAFTER, OR TRUSS	(2)	8d	-	EACH END, TOENAIL	1	

LOCATIONS REQUIRING PRESERVATIVE-TREATED OR NATURALLY DURABLE WOOD

NOTES:
1. WOOD JOISTS/FLOORS CLOSER THAN 18" AND WOOD GIRDERS CLOSER THAN 12" TO EXPOSED GROUND IN CRAWL SPACES OR UNEXCAVATED AREAS WITHIN THE PERIMETER OF THE BUILDING FOUNDATION.

2. WOOD FRAMING MEMBERS IN CONTACT W/ THE EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8" FROM EXPOSED EARTH.

WOOD FRAMING MEMBERS AND FURRING STRIPS IN DIRECT CONTACT W/ MASONRY OR CONCRETE.

*WOOD USED IN THE LOCATIONS SPECIFIED SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED IN ACCORDANCE W/ AWPA U1. FASTENERS INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. STAPLES SHALL BE OF STAINLESS STEEL, FASTENERS OTHER THAN NAILS, STAPLES, TIMBER RIVETS, WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL.

SHEAR WALL SCHEDULE

MARK	SHEATHING	EDGE NAILING	EDGE STAPLING	EDGE MEMBER	FIELD NAILING	FIELD STAPLING	FIELD MEMBER	ANCHOR BOLT SPACING	2
SW-6"	7/16" OSB, 1 SIDE	8d @ 6" O.C.	1-1/2" LONG 16 GAUGE @ 3" O.C.	(1) 2X	8d @ 12" O.C.	1-1/2" LONG 16 GAUGE @ 6" O.C.	(1) 2X	1/2" DIA X 10" L @ 32" O.C.	5
SW-4"	7/16" OSB, 1 SIDE	8d @ 4" O.C.	1-1/2" LONG 16 GAUGE @ 2" O.C.	(1) 3X OR (2) 2X W/ 16d @ 4" O.C.	8d @ 12" O.C.	1-1/2" LONG 16 GAUGE @ 6" O.C.	(1) 2X	1/2" DIA X 10" L @ 32" O.C.	7
SW-3"	7/16" OSB, 1 SIDE	8d @ 3" O.C.	N/A	(1) 3X OR (2) 2X W/ 16d @ 4" O.C.	8d @ 12" O.C.	N/A	(1) 2X	1/2" DIA X 10" L @ 24" O.C.] :
SW-2"	7/16" OSB, 1 SIDE	8d @ 2" O.C.	N/A	(1) 3X OR (2) 2X W/ 16d @ 3" O.C.	8d @ 12" O.C.	N/A	(1) 2X	1/2" DIA X 10" L @ 16" O.C.	s
(2)SW-4"	7/16" OSB, BOTH SIDES	8d @ 4" O.C.	1-1/2" LONG 16 GAUGE @ 2" O.C.	(1) 3X OR (2) 2X W/ 16d @ 4" O.C.	8d @ 12" O.C.	1-1/2" LONG 16 GAUGE @ 6" O.C.	(1) 2X	1/2" DIA X 10" L @ 16" O.C.	<u>N</u>
(2)SW-3"	7/16" OSB, BOTH SIDES	8d @ 3" O.C.	N/A	(1) 3X OR (2) 2X W/ 16d @ 4" O.C.	8d @ 12" O.C.	N/A	(1) 2X	1/2" DIA X 10" L @ 12" O.C.	2
(2)SW-2"	7/16" OSB, BOTH SIDES	8d @ 2" O.C.	N/A	(1) 3X OR (2) 2X W/ 16d @ 3" O.C.	8d @ 12" O.C.	N/A	(1) 2X	1/2" DIA X 10" L @ 8" O.C.] `

NOTES TO TABLE ABOVE

STUDS SHALL BE DF-L @ 16" O.C.

- NAILS SHALL BE CARBON STEEL SMOOTH SHANK 8d COMMON OR 8d GALVANIZED BOX. GALVANIZED NAILS SHALL BE HOT-DIPPED OR MECHANICALLY DEPOSITED.
- STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16" AND SHALL BE INSTALLED WITH THEIR CROWNS PARALLEL TO THE LONG DIMENSION OF THE FRAMING MEMBERS
- NAILS/STAPLES SHALL BE DRIVEN WITH THE HEAD/CROWN OF THE NAIL/STAPLE FLUSH WITH THE SURFACE OF THE SHEATHING
- DOUBLE SIDED SHEAR WALLS SHALL HAVE PANEL JOINTS OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS. NAILS AT PANEL EDGES SHALL BE
- BLOCK ALL PANEL EDGES. FLAT BLOCKING IS ACCEPTABLE ON SINGLE SIDED SHEAR WALLS.
- ALL WALLS SHALL FOLLOW SW-6" U.N.O.
- STRUCTURAL PANELS SHALL BE APA APPROVED, EXPOSURE 1, AND MEET THE REQUIREMENTS OF USDOC PS 2.
- NAILS SHALL BE LOCATED AT LEAST 3/8" FROM THE PANEL EDGES.
- 10. PANELS SHALL NOT BE LESS THAN 4'X8' EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING. ALL EDGES OF ALL PANELS SHALL BE SUPPORTED BY AND FASTENED TO FRAMING MEMBERS OR BLOCKING.
- I. ANCHOR BOLTS SHALL HAVE A STEEL PLATE WASHER UNDER EACH NUT NOT LESS THAN 0.229"X3"X3" IN SIZE. THE HOLE IN THE PLATE WASHER SHALL BE PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1-3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. THE PLATE WASHER SHALL EXTENDED TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE(S) WITH SHEATHING.

IFRAMING

- <u>IOTES:</u>
 1. FULL HEIGHT SOLID BLOCKING REQUIRED AT ALL BEARING POINTS OF TRUSSES, RAFTERS, AND JOISTS.
- 2. WALLS SHALL BE BALLOON FRAMED (CONTINUOUS STUDS FROM FOUNDATION TO ROOF) EXCEPT WHERE LATERALLY SUPPORTED BY A FLOOR OR ROOF DIAPHRAGM.
- 3. ALL LUMBER SHALL MEET PLANS SPECIFICATIONS AND BE GRADED AND STAMPED BY AN APPROVED AGENCY (I.E. APA, WWPA, ETC.)
- 4. BEAMS ON PLAN ARE SIZED AS A MINIMUM. LARGER SIZES AND HIGHER GRADES MAY REPLACE MEMBERS ON PLAN.
- 5. FLOOR BEAMS MAY BE FLUSH MOUNTED OR DROP BEAMS. 6. BEAMS CONSISTING OF (4) OR MORE PLYS SHALL BE FASTENED W/
- (2) ROWS OF 1/2" DIA THRÚ BOLTS @ 12" O.C. 2" FROM TOP AND 2" FROM BOTTOM OF BEAM.
- 7. HOLES FOR BOLTS SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. A STANDARD CUT WASHER SHALL BE PROVIDED BETWEEN THE WOOD AND THE BOLT HEAD AND BETWEEN THE WOOD AND THE NUT.
- 8. LEAD HOLES FOR LAG SCREWS SHALL BE BORED AS FOLLOWS A) THE CLEARANCE HOLE FOR THE THE SHANK SHALL HAVE THE SAME
- DIAMETER AS THE SHANK AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK.
- B) THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 40%-70% OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. THE LARGER PERCENTILE SHALL APPLY TO LAG SCREWS OF GREATER DIAMETERS
- 9. POSTS AND WALLS SHALL BE CENTERED ON CONTINUOUS AND SPOT FOOTINGS U.N.O.
- 10. SQUASH BLOCKING AND LOWER COLUMNS SHALL BE PROVIDED TO CARRY ALL COLUMN LOADS TO FOOTINGS AND FOUNDATIONS. SQUASH BLOCKING AND LOWER COLUMNS SHALL BE ALIGNED W/ AND MATCH UPPER COLUMN SIZE U.N.O.
- 11. BUILT UP 2X COLUMNS SHALL BE FACE NAILED TOGETHER W/ 16d @ 4" O.C STAGGERED EACH PLY.
- 12. COLUMNS SHALL SUPPORT FULL WIDTH OF BEAM ENDS.
- 13. ENGINEERED WOOD RIM BOARDS SHALL CONFORM TO ANSI/APA PRR 410 OR SHALL BE EVALUATED IN ACCORDANCE W/ ASTM D7672.
- 14. WHERE THE DBL TOP PLATE LAP AND NAILING REQUIREMENTS PER IBC2304.10.2 No. 13 ARE NOT MET, PROVIDE #CS16 W/ 12" LAP MIN.
- 15. WOOD CONSTRUCTION CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.

TRUSS AND JOIST

- NOTES:

 1. PRE-MANUFACTURED TRUSSES SHALL FOLLOW LAYOUT SHOWN ON PLANS. ANY CHANGES IN TRUSS LAYOUT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 2. CONTRACTOR AND MANUFACTURER SHALL VERIFY CEILING HEIGHTS, TRAYS, VAULTS, AND STEPS PRIOR TO CONSTRUCTION. MULTI PLY TRUSSES OR JOISTS SHALL BE FASTENED PER
- MANUFACTURER'S SPECIFICATIONS. TRUSSES AND JOISTS SHALL BE BRACED PER MANUFACTURER.
- 5. PROVIDE WEB STIFFENERS ON JOISTS WHEN REQUIRED BY MANUFACTURER. 6. NO ALTERATIONS OF TRUSSES OR JOISTS ARE ALLOWED WITHOUT
- APPROVAL FROM MANUFACTURER. 7. PROVIDE HURRICANE TIE EACH END OF EVERY ROOF
- TRUSS/RAFTER TO TOP PLATE. #H2.5A OR #H1 FOR STANDARD TRUSSES AND BEVELED RAFTERS
- #H1 OR #H10A FOR ATTIC AND TALL HEEL TRUSSES - #VPA FOR NON BEVELED RAFTERS

STEEL

- 1. W SECTIONS SHALL COMPLY W/ ASTM A992 AND HAVE Fy=50 KSI MIN. AND Fu=65 KSI MIN
- 2. HSS RECTANGULAR SECTIONS SHALL COMPLY W/ ASTM A500 GRADE C AND HAVE Fy=50 KSI MIN. AND Fu=62 KSI MIN.

 3. C AND L SECTION SHALL COMPLY W/ ASTM A36 AND HAVE Fy=36 KSI
- MIN. AND Fu=58 KSI MIN. 4. ALL WELDS ARE 1/4" FILLET CONFORMING TO THE REQUIREMENTS IN
- AWS D1.1 W/ AN ELECTRODE Fexx=70 KSI U.N.O.
- 5. ALL STRUCTURAL STEEL BOLTS SHALL COMPLY W/ A307 GRADE A AND HAVE Fnt=45 KSI AND Fnv=27 KSI U.N.O.
- 6. ALL WIDE FLANGE BEAMS SHALL HAVE 3/8" WEB STIFFENER EACH SIDE AT BEARING LOCATIONS U.N.O.
- WHERE LEVELING NUTS ARE USED UNDER BASE PLATES, NON SHRINK GROUT SHALL FILL THE VOID BETWEEN CONCRETE AND STEEL. GROUT SHALL BE RATED FOR 5000 PSI MIN.
- 8. WOOD NAILERS ON BEAMS SHALL BE 2X OR 3X W/ 1/2" DIA BOLTS SPACED AT 32" O.C. MIN.

EPOXY

- EPOXY SHALL BE SIMPSON SET-XP U.N.O.
- 2. DRILL AND CLEAN HOLE PER MANUFACTURER SPECIFICATIONS
- 3. HOLE SHALL BE FREE OF DUST, DEBRIS, AND STANDING WATER PRIOR TO EPOXY INSTALLATION.

DIAPHRAGM/SHEATHING SCHEDULE

LOCATION	NOMINAL THICKNESS	SPAN RATING	EDGE NAILING	FIELD NAILING	
ROOF W/ DESIGN SNOW LOAD UP TO 40 PSF	7/16"	24/16	8d @ 6" O.C.	8d @ 12" O.C.	V
ROOF W/ DESIGN SNOW LOAD UP TO 120 PSF	19/32"	40/20	8d @ 6" O.C.	8d @ 12" O.C.	
FLOOR	3/4" TONGUE AND GROOVE	48/24	10d @ 6" O.C.	10d @ 12" O.C.	

- ROOF AND FLOOR FRAMING MEMBERS SHALL BE PLACED NO FURTHER THAN 24" O.C.
- NAILS SHALL BE CARBON STEEL SMOOTH SHANK COMMON OR GALVANIZED BOX. GALVANIZED NAILS SHALL BE HOT-DIPPED OR MECHANICALLY DEPOSITED.
- NAILS SHALL BE DRIVEN WITH THE HEAD OF THE NAIL FLUSH WITH THE SURFACE OF THE SHEATHING.
- STRUCTURAL PANELS SHALL BE APA APPROVED, EXPOSURE 1, AND MEET THE REQUIREMENTS OF USDOC PS 2. FLOOR SHEATHING SHALL BE GLUED TO FRAMING MEMBERS PRIOR TO
- NAILING W/ AN ADHESIVE CONFORMING TO APA SPECIFICATIONS. STRENGTH AXIS (LONG DIRECTION) OF PANELS SHALL BE ORIENTED
- PERPENDICULAR TO FRAMING MEMBERS AND PANEL END JOINTS SHALL BE STAGGERED. NAILS SHALL BE LOCATED AT LEAST 3/8" FROM THE EDGES OF PANELS
- 1-1/2" LONG 16 GAGE STAPLES W/ 7/16" CROWN MAY BE SUBSTITUTED
- FOR 8d NAILS AT HALF THE SPACING FOR 7/16" PANELS ONLY. CROWNS MUST BE INSTALLED PARALLEL TO FRAMING MEMBERS. PANELS SHALL NOT BE LESS THAN 4'X8' EXCEPT AT BOUNDARIES AND
- CHANGES IN FRAMING WHERE MINIMUM PANEL DIMENSION SHALL BE 24" UNLESS ALL EDGES OF THE UNDERSIZED PANELS ARE SUPPORTED BY AND FASTENED TO FRAMING MEMBERS OR BLOCKING.

STUD HEIGHT SCHEDULE

SIZE/TYPE	SPACING	MAX HEIGHT
2X4 DF-L #2	16" O.C.	10'-0"
2X4 DF-L #2	12" O.C.	12'-0"
2X6 DF-L #2	16" O.C.	14'-0"
2X6 DF-L #2	12" O.C.	16'-0"
2X6 DF-L #2	8" O.C.	18'-0"
2X6 LSL	16" O.C.	16'-0"
2X6 LSL	12" O.C.	18'-0"

NOTES TO TABLE ABOVE

- 1. CONTACT ENGINEER FOR OTHER STUDS AND SPACING.
- 2. 2X6 LSL STUDS SHALL BE 1-3/4" X 5-1/2" W/ E=1.55X10^6 PSI MIN.

CHIMNEY FRAMING

NOTES:

- 1. PROVIDE STUDS SIZED FROM STUD HEIGHT SCHEDULE USING THE DISTANCE FROM ROOF SHEATHING TO TOP OF CHIMNEY AND 1/2 THE MAX HEIGHT SHOWN ON SCHEDULE.
- SHEET ALL CHIMNEY SIDES PER SW-6" SCHEDULE U.N.O
- HORIZONTAL STRAP CHIMNEY TO ROOF BLOCKING BETWEEN TRUSS TOP CHORDS OR TO TRUSS TO CHORD W/ #CS16 W/ 12" LAP EACH CORNER EACH DIRECTION.
- TRUSSES SHALL BE DESIGNED TO CARRY VERTICAL LOADS FROM
- (3) STUDS SHALL BE PROVIDE AT EACH CORNER OF THE CHIMNEY. STUDS MAY BE SPLICED WITH FULL LENGTH STUDS FACE NAILED
- TOGETHER W/ 16d @ 6" O.C. STAGGERED.
- IF CHIMNEY FRAMING DOES NOT EXTEND FROM TOP OF CHIMNEY TO FLOOR, THEN 2X DEAD MAN BLOCKS MAY BE LAID FLAT ON ROOF SHEATHING AND EDGE NAILED PER SW-6" AND #CS16 VERTICAL STRAPS W/ 12" LAP SHALL BE PLACED AT EACH CORNER DOWN AROUND (2)2X6 X 8' BLOCKING (EXTENDING UNDERNEATH 4 TRUSS TOP CHORDS) AND BACK UP TO NAIL ONTO OTHER SIDE OF CORNER
- CHIMNEY WALLS SHALL NOT EXCEED 3.5:1 HEIGHT TO WIDTH RATIO.



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> HYDE PARK, UTAH 84318

NO. DESCRIPTION

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KESSLER TOWNHOMES MAGNA **SUBDIVISION LOTS** 9150 W SOUTH (COURT EAH



DESIGNED BY: J. SAGERS

CHECKED BY: T. HILL

CALE

/8" = 1'-0" (PRINTED ON 11X17) /4" = 1'-0" (PRINTED ON 22X34)

SHEET TITLE:

STRUCTURAL NOTES AND SCHEDULES

FOUNDATION WALL SCHEDULE						
MARK ⁽²⁾	FND8 - 8" TH	ICK CONCR	ETE FOUNDA	TION WALLS		
MAX	VERT. STEEL ⁽³⁾	HORIZ. STEEL (4)	LINTELS ⁽⁵⁾			
HEIGHT			MAX SPAN	MIN DEPTH		
2'	#4 @ 32" O.C.	(2) #4	2'	6"		
3'	#4 @ 32" O.C.	(3) #4	2'	6"		
4'	#4 @ 32" O.C.	(4) #4	3'	6"		

FOUNDATION WALL SCHEDULE

MARK ⁽²⁾	FND12 - 12" THICK CONCRETE FOUNDATION WALLS			
MAX	VERT.	HORIZ.	LINTE	ELS ⁽⁵⁾
HEIGHT	STEEL ⁽³⁾	STEEL (4)	MAX SPAN	MIN DEPTH
4'	#4 @ 12" O.C.	#4 @ 8" O.C.	2'	6"

- VALUES IN THE TABLE ABOVE BETWEEN 2'-9' ARE PROVIDED FROM UTAH STATE CODE 15A-3-108.
- STATE CODE 19A-3-108.
 FOUNDATION WALLS SHALL BE 8" THICK (FND8) U.N.O. (FND_)
 VERTICAL REINFORCEMENT SHALL BE PLACED IN THE CENTER OF THE
 WALL. REBAR EXTENSION BARS INTO THE FOOTINGS SHALL EXTEND UP
 INTO FOUNDATION WALL A MINIMUM OF 24"
- INTO FOUNDATION WALL A MINIMUM OF 24"

 ONE HORIZONTAL BAR SHALL BE PLACED 4" FROM THE TOP OF THE WALL

 AND 4" FROM THE BOTTOM OF THE WALL WITH ALL OTHER HORIZONTAL

 BARS EVENLY SPACED. PROVIDE REINFORCING AROUND CORNERS SUCH

 THAT IT LAPS HORIZONTAL BARS A MINIMUM OF 24"

 PROVIDE (2)#4 BARS ABOVE MAX LINTEL SPAN SHOWN IN TABLE WITH

 (1)#4 ON EACH SIDE AND (1)#4 BELOW THE OPENING. BARS SHALL BE
- PLACED WITHIN 2" OF THE OPENING AND EXTEND 24" (MIN.) BEYOND THE OPENING. VERTICAL BARS MAY TERMINATE 3" BELOW THE TOP OF WALL. CONCRETE SHALL CURE A MINIMUM OF 7 DAYS AND HAVE INTERIOR SLAB INSTALLED PRIOR TO ANY BACKFILL. FOUNDATION WALLS 6" IN HEIGHT
- AND ABOVE DESIGNED FOR TOP SUPPORT. CONTRACTOR SHALL INSTAL FLOOR OR ROOF DIAPHRAGM PRIOR TO BACKFILL AND SHALL NOT COMPACT ANY BACKFILL PLACED AROUND THESE WALLS.
- ALL FOUNDATIONS SHALL HAVE 6" MIN. EXPOSED ABOVE GRADE

FOOTING SCHEDULE

FOOTING SCHEDULE					
	T DEPTH FOI RIOR FOOTI		30"		
	CO	NTINUOUS F	OOTINGS		
MARK ON PLANS	FOOTING WIDTH	FOOTING DEPTH	CONT. REINF.	PERP. REINF.	
F18	18"	10"	(2) #4	N/A	
F20	20"	10"	(2) #4	N/A	
		SPOT FOOT	INGS		
MARK ON PLANS	FOOTING	SQ DIM.	FOOTING DEPTH	REINF.	
SF24	24" X 24"		10"	(3) #4 B.W.	
PIER SCHEDULE					
MARK ON PIER DIA. SQ. PIER DIM.			VERT. REINF.		
P12	12"	12" X 12"	(4) #4 W/ #3	TIES @ 12" O.C.	

- CONTINUOUS FOOTINGS SHALL BE F18 INTERIOR, F20 EXTERIOR U.N.O. FOOTINGS SHALL BE PLACED ON COMPACTED NATIVE SOILS AT FROST DEPTH SPECIFIED OR ON ENGINEERED FILL MATERIAL AS SPECIFIED BY A LICENSED GEOTECHNICAL ENGINEER.
- FOOTING REINFORCEMENT SHALL BE PLACED 3" FROM BOTTOM OF FOOTING AND LAPPED 24" MINIMUM WHERE NECESSARY

HOLDOWN SCHEDULE

MARK	HOLDOWN	NOTES			
\otimes	SIMPSON #LSTHD8 (RJ)	CAST IN PLACE			
10/	SIMPSON #STHD10 (RJ)	CAST IN PLACE			
14	SIMPSON #STHD14 (RJ)	CAST IN PLACE			
5	SIMPSON #HTT5 ⁽²⁾⁽³⁾	INSTALL & Ø THREADED ROD WITH 3"X3-1/2" MIN. WOOD MEMBER SIZE			
**	SIMPSON #HDU8 ⁽³⁾	INSTALL $\frac{7}{8}$ " Ø THREADED ROD WITH 3"X3-1/2" MIN. WOOD MEMBER SIZE			
1	SIMPSON #HDU11 ⁽³⁾	INSTALL 1" Ø THREADED ROD WITH 3"X5-1/2" MIN. WOOD MEMBER SIZE			

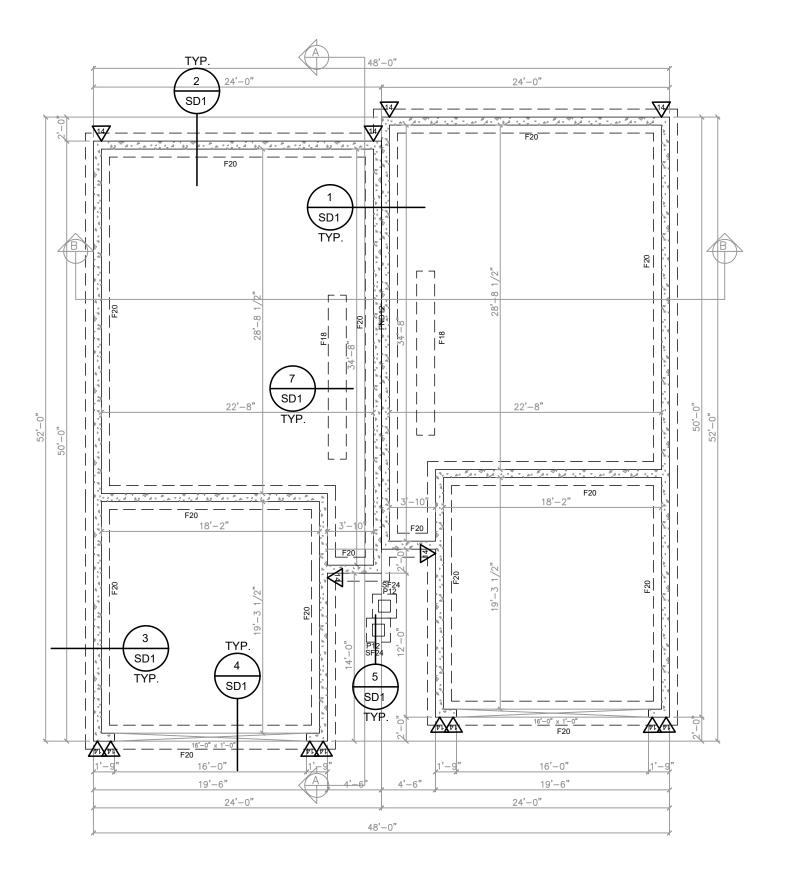
- CONNECTORS CATALOG
- CONNECTORS ATTACOS

 ALTERNATE TO ANY CAST IN PLACE STRAP ABOVE

 CAST IN THREADED ROD OR DRILL AND EPOXY IN FOUNDATION WALL

 16" MIN. EMBED AND WITHIN 6" OF VERTICAL FOUNDATION REBAR USIN

SEE SHEETS SD3 AND SD4 FOR GENERAL CONSTRUCTION NOTES AND SCHEDULES





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HYDE PARK, UTAH 84318

KESSLER TOWNHOMES MAGNA ∞ က LEAH COURT SUBDIVISION LOTS

SOUTH 9150 WEST



DESIGNED BY: J. SAGERS CHECKED BY: T. HILL

-MIN. REBAR

LENGTH IS

DISTANCE

2XLe

#STHD INSTALLATION

S1

1/8" = 1'-0" (PRINTED ON 11X17) 1/4" = 1'-0" (PRINTED ON 22X34)

SHEET TITLE:

FOUNDATION PLAN

SEE SD3 & SD4 FOR OTHER FRAMING AND SHEAR WALL SPECIFICATIONS NOT LISTED BELOW.

BEAM SCHEDULE

MARK	QUANTITY	PLY SIZE	TYPE
(#)2X6	SEE PLAN	2X6	SAWN
(#)2X8	SEE PLAN	2X8	SAWN
(#)2X10	SEE PLAN	2X10	SAWN
(#)2X12	SEE PLAN	2X12	SAWN
(#)5-1/2	SEE PLAN	1-3/4" X 5-1/2"	LVL
(#)7-1/4	SEE PLAN	1-3/4" X 7-1/4"	LVL
(#)9-1/2	SEE PLAN	1-3/4" X 9-1/2"	LVL
(#)11-7/8	SEE PLAN	1-3/4" X 11-7/8"	LVL
(#)14	SEE PLAN	1-3/4" X 14"	LVL
(#)16	SEE PLAN	1-3/4" X 16"	LVL
(#)18	SEE PLAN	1-3/4" X 18"	LVL
_X_DFRS	(1)	SEE PLAN	TIMBER
_X_GLB	(1)	SEE PLAN	GLULAM
W_X_	(1)	SEE PLAN	STEEL

- ALL SAWN LUMBER SHALL BE DF-L #2 MIN.
 ALL LVI. BEAMS SHALL HAVE E=1900 KSI MIN. AND Fb=2600 PSI MIN.
 ALL TIMBER SHALL BE DF-L #1 MIN.
 ALL GLULAM BEAMS SHALL BE WESTERN 24F-V4 MIN.

- ALL GLULAM BEAMS SHALL BE WESTERN 24F-V4 MIN.
 ALL STEEL BEAMS SHALL BE ASTM A992 (Fy=50 KSI MIN., Fu=65 KSI MIN.)
 EACH PLY SHALL BE CONTINUOUS ALONG BEAM LENGTH.
 JOIN PLY'S TOGETHER WI (2)16D @ 12" O.C. EACH.
 PROVIDE (1) 2X TRIMMER AND (1) 2X KING STUD FOR BEAMS SPANNING
 UP TO 4"-0". PROVIDE (2) 2X TRIMMER AND (2) 2X KING STUD FOR SPANS
 4"-1" AND GREATER UN O.
 PROVIDE #LCE4 OR 12" LONG #CS16 ROTATED TO 45 DEGREES TO
 ATTACHED HEADERS TO TRIMMERS ON SPANS 6"-0" AND GREATER.
 ANY BEAM MAY HAVE UP TO A 1" DIA HOLE DRILLED THROUGH. AS LONG
 AS THE LOCATION OF THE HOLE IS IN THE MIDDLE THIRD OF THE SPAN
 AND THE MIDDLE THIRD OF THE DEPTH FOR OTHER SIZES/LOCATIONS.
- AND THE MIDDLE THIRD OF THE DEPTH. FOR OTHER SIZES/LOCATIONS, CONTACT THE ENGINEER.

 11. (BEAM#) SHOWN ON PLANS CORRESPONDS WITH BEAM CALCULATIONS
- PROVIDED IN THE STRUCTURAL CALCULATION PACKET.

COLUMN SCHEDULE

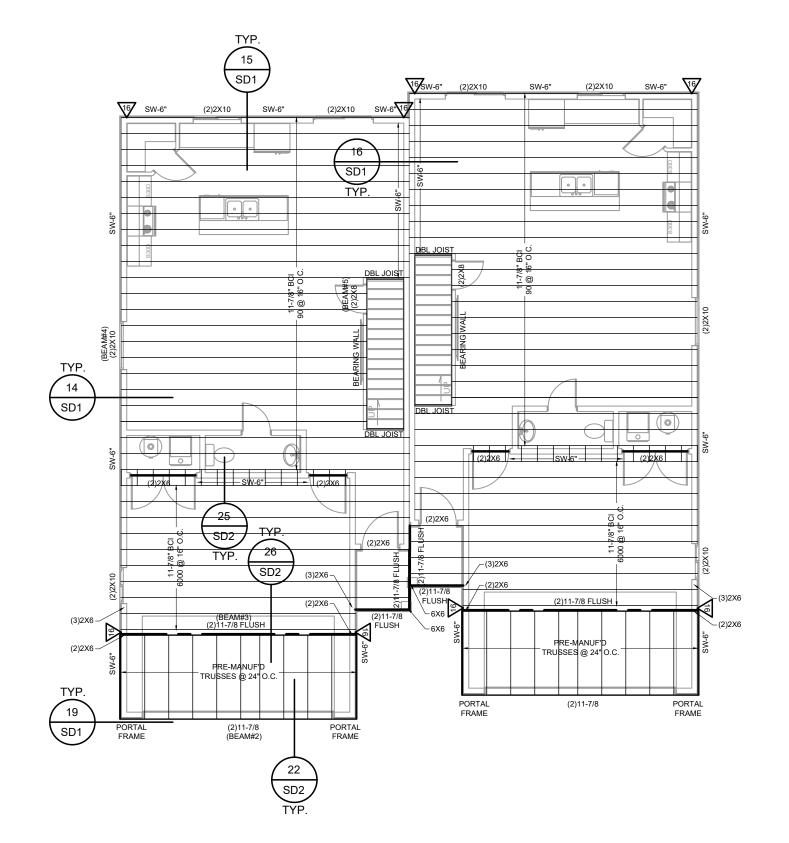
MARK	APPROX. CAP/BASE TO BEAM		BASE TO CONC.	
4X4	3-1/2" X 3-1/2"	#BC4	#ABU44Z	
4X6	3-1/2" X 5-1/2"	#BC46	#ABU46Z	
6X6	5-1/2" X 5-1/2"	#BC6	#ABU66Z	
6X6R	6" X 6"	#BC6R	#ABU66RZ	
8X8	7-1/2" X 7-1/2"	#BC8	#ABU88Z	
8X8R	8" X 8"	SEE PLAN	#ABU88RZ	
10X10	9-1/2" X 9-1/2"	SEE PLAN	#ABU1010Z	
10X10R	10" X 10"	SEE PLAN	#ABU1010RZ	
12X12	11-1/2" X 11-1/2"	SEE PLAN	#ABU1212Z	
12X12R	12" X 12"	SEE PLAN	#ABU1212RZ	
HSS_X_X_	STEEL COLUMN PER PLAN	CONNECTION AND BASE PLATE PER PLAN		

- ALL POSTS AND COLUMNS SHALL BE DF-L #1 MIN.
 ALL STEEL HSS COLUMNS SHALL BE ASTM A500 GR. C (Fy=50 KSI MIN.,
 Fu=65 KSI MIN.)

VERTICAL STRAP SCHEDULE

MARK	HOLDOWN	NOTES
16	SIMPSON #CS16	PROVIDE 12" LAP
37	SIMPSON #MST37	PROVIDE (2) 2X STUDS
48	SIMPSON #MST48	PROVIDE (2) 2X STUDS
60	SIMPSON #MST60	PROVIDE (2) 2X STUDS
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SIMPSON #MST72	PROVIDE (2) 2X STUDS

- FOLLOW INSTALLATION SPECIFICATIONS IN LATEST SIMPSON WOOD CONSTRUCTION CONNECTORS CATALOG.
 WHEN STRAPPING FLOOR TO FLOOR, CENTER STRAP ON RIM JOIST AND
- NAIL TO STUDS ABOVE AND BELOW.





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84318

NO. DESCRIPTION

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KESSLER TOWNHOMES MAGNA က LEAH COURT SUBDIVISION LOTS 2823 SOUTH 9150 WEST MAGNA, UTAH



DESIGNED BY: J. SAGERS CHECKED BY: T. HILL

SCALE:

1/8" = 1'-0" (PRINTED ON 11X17) 1/4" = 1'-0" (PRINTED ON 22X34)

SHEET TITLE:

SECOND FLOOR FRAMING PLAN

SEE SD3 & SD4 FOR OTHER FRAMING AND SHEAR WALL SPECIFICATIONS NOT LISTED BELOW.

BEAM SCHEDULE

MARK	QUANTITY	PLY SIZE	TYPE
(#)2X6	SEE PLAN	2X6	SAWN
(#)2X8	SEE PLAN	2X8	SAWN
(#)2X10	SEE PLAN	2X10	SAWN
(#)2X12	SEE PLAN	2X12	SAWN
(#)5-1/2	SEE PLAN	1-3/4" X 5-1/2"	LVL
(#)7-1/4	SEE PLAN	1-3/4" X 7-1/4"	LVL
(#)9-1/2	SEE PLAN	1-3/4" X 9-1/2"	LVL
(#)11-7/8	SEE PLAN	1-3/4" X 11-7/8"	LVL
(#)14	SEE PLAN	1-3/4" X 14"	LVL
(#)16	SEE PLAN	1-3/4" X 16"	LVL
(#)18	SEE PLAN	1-3/4" X 18"	LVL
_X_DFRS	(1)	SEE PLAN	TIMBER
_X_GLB	(1)	SEE PLAN	GLULAM
W_X_	(1)	SEE PLAN	STEEL

- ALL SAWN LUMBER SHALL BE DF-L #2 MIN. ALL LVL BEAMS SHALL HAVE E=1900 KSI MIN. AND Fb=2600 PSI MIN. ALL TIMBER SHALL BE DF-L #1 MIN.
- ALL GLULAM BEAMS SHALL BE WESTERN 24F-V4 MIN.

- ALL GLULAM BEAMS SHALL BE WESTERN 24F-V4 MIN.
 ALL STEEL BEAMS SHALL BE ASTM A992 (Fy=50 KSI MIN., Fu=65 KSI MIN.)
 EACH PLY SHALL BE CONTINUOUS ALONG BEAM LENGTH.
 JOIN PLY'S TOGETHER W. (2)16D @ 12" O.C. EACH.
 PROVIDE (1) 2X TRIMMER AND (1) 2X KING STUD FOR BEAMS SPANNING
 UP TO 4-0". PROVIDE (2) 2X TRIMMER AND (2) 2X KING STUDS FOR SPANS
 4-1" AND GREATER U.N.O.
- 4-1" AND GREATER U.N.O.
 PROVIDE #LCE4 OR 12" LONG #CS16 ROTATED TO 45 DEGREES TO
 ATTACHED HEADERS TO TRIMMERS ON SPANS 6-0" AND GREATER.
 ANY BEAM MAY HAVE UP TO A 1" DIA HOLE DRILLED THROUGH. AS LONG
 AS THE LOCATION OF THE HOLE IS IN THE MIDDLE THIRD OF THE SPAN AND THE MIDDLE THIRD OF THE DEPTH. FOR OTHER SIZES/LOCATIONS, CONTACT THE ENGINEER.

 11. (BEAM #) SHOWN ON PLANS CORRESPONDS WITH BEAM CALCULATIONS
- PROVIDED IN THE STRUCTURAL CALCULATION PACKET.

COLUMN SCHEDULE

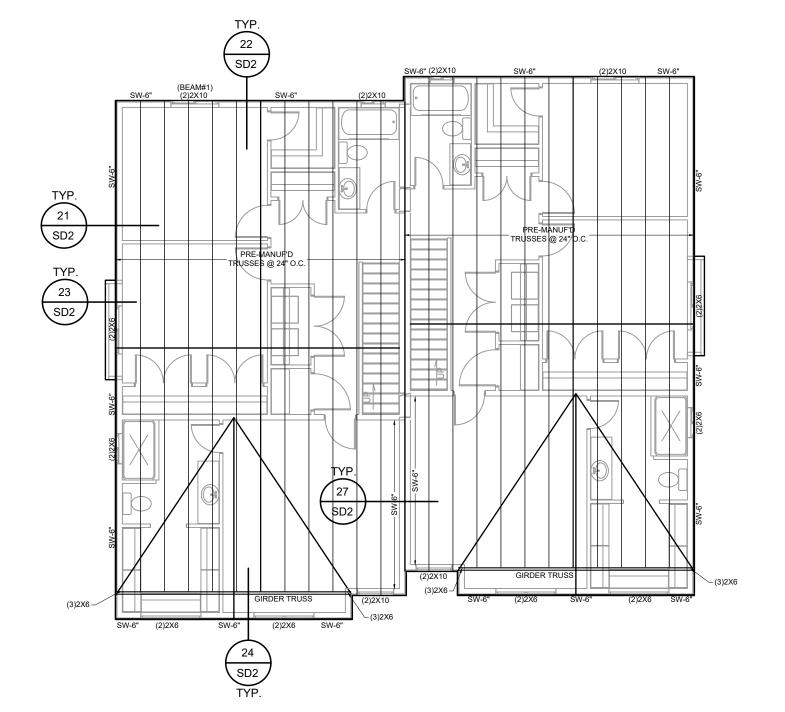
MARK	APPROX. DIMENSIONS	CAP/BASE TO BEAM	BASE TO CONC.	
4X4	3-1/2" X 3-1/2"	#BC4	#ABU44Z	
4X6	3-1/2" X 5-1/2"	#BC46	#ABU46Z	
6X6	5-1/2" X 5-1/2"	#BC6	#ABU66Z	
6X6R	6" X 6"	#BC6R	#ABU66RZ	
8X8	7-1/2" X 7-1/2"	#BC8	#ABU88Z	
8X8R	8" X 8"	SEE PLAN	#ABU88RZ	
10X10	9-1/2" X 9-1/2"	SEE PLAN	#ABU1010Z	
10X10R	10" X 10"	SEE PLAN	#ABU1010RZ	
12X12	11-1/2" X 11-1/2"	SEE PLAN	#ABU1212Z	
12X12R	12" X 12"	SEE PLAN #ABU1212F		
HSS_X_X_	STEEL COLUMN PER PLAN	CONNECTION AND BASE PLATE PER PLAN		

- ALL POSTS AND COLUMNS SHALL BE DF-L #1 MIN.
 ALL STEEL HSS COLUMNS SHALL BE ASTM A500 GR. C (Fy=50 KSI MIN., Fu=65 KSI MIN.)

VERTICAL STRAP SCHEDULE

MARK	HOLDOWN	NOTES
16	SIMPSON #CS16	PROVIDE 12" LAP
37	SIMPSON #MST37	PROVIDE (2) 2X STUDS
48	SIMPSON #MST48	PROVIDE (2) 2X STUDS
60	SIMPSON #MST60	PROVIDE (2) 2X STUDS
$\sqrt{2}$	SIMPSON #MST72	PROVIDE (2) 2X STUDS

- FOLLOW INSTALLATION SPECIFICATIONS IN LATEST SIMPSON WOOD CONSTRUCTION CONNECTORS CATALOG.
 WHEN STRAPPING FLOOR TO FLOOR, CENTER STRAP ON RIM JOIST AND
- NAIL TO STUDS ABOVE AND BELOW.





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HYDE PARK, UTAH

84318 NO. DESCRIPTION

∞ 2823 SOUTH 9150 WEST

KESSLER TOWNHOMES MAGNA LEAH COURT SUBDIVISION LOTS 3



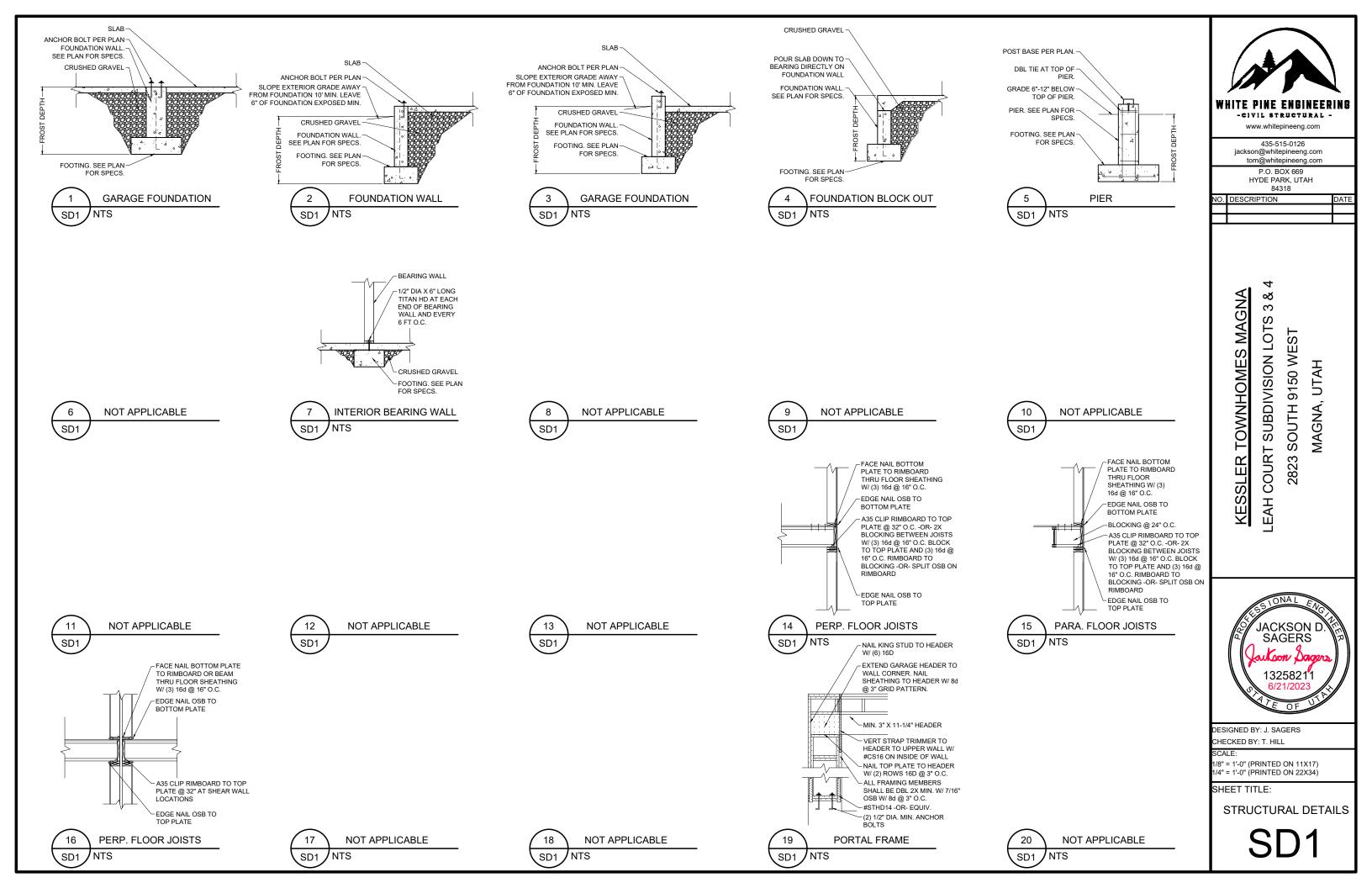
DESIGNED BY: J. SAGERS CHECKED BY: T. HILL

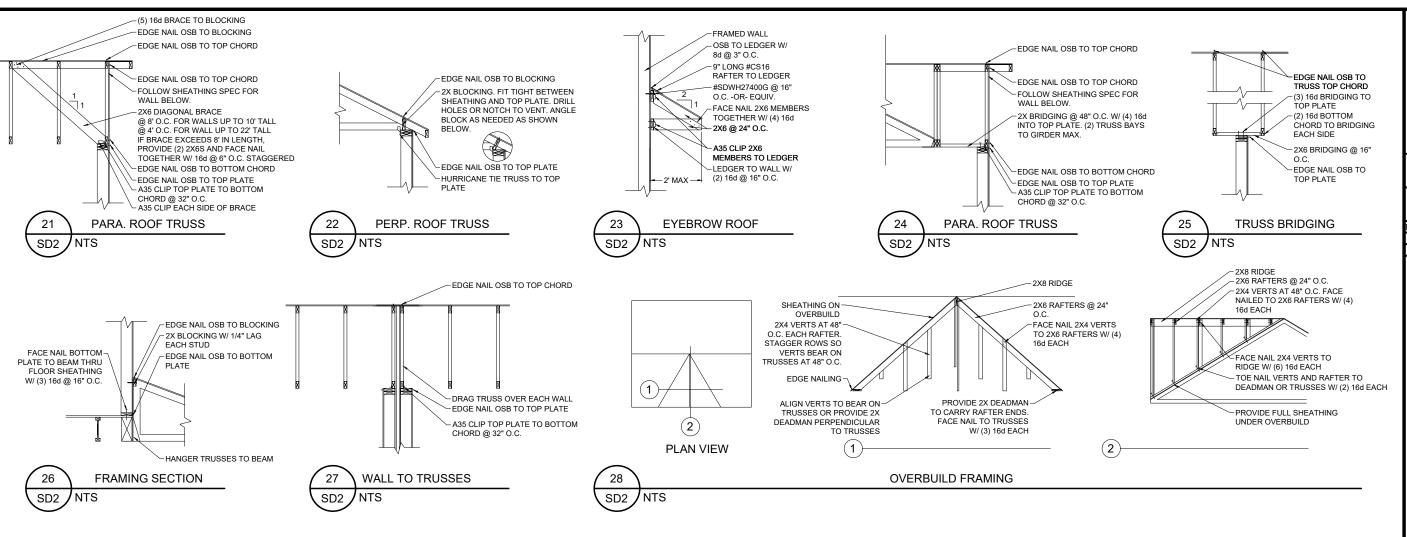
SCALE:

1/8" = 1'-0" (PRINTED ON 11X17) 1/4" = 1'-0" (PRINTED ON 22X34)

SHEET TITLE:

ROOF FRAMING PLAN







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84318

P.O. BOX 669 HYDE PARK, UTAH

NO. DESCRIPTION

KESSLER TOWNHOMES MAGNA ∞ က COURT SUBDIVISION LOTS SOUTH 9150 WEST 2823 LEAH

MAGNA, UTAH



DESIGNED BY: J. SAGERS CHECKED BY: T. HILL

SCALE

1/8" = 1'-0" (PRINTED ON 11X17) 1/4" = 1'-0" (PRINTED ON 22X34)

SHEET TITLE:

STRUCTURAL DETAILS

DESIGN CRITERIA: RISK CATEGORY DESIGN RISK CATEGORY SNOW LOAD IMPORTANCE FACTOR (I_s): 1.0 SEISMIC IMPORTANCE FACTOR (I_E): 0.83 1.24 6.5 SITE CLASS: D (ASSUMED) 120 MPH EXPOSURE CATEGORY: C **ELEVATION:** 4306 FT SNOW LOADS 0 PSF 1.0 1.0 1.0 30 PSF 30 PSF DEAD LOADS ROOF: 1 15 PS FLOOR: 15 PSF WALLS: 10 PSF DECKS: 10 PSF **CONCRETE: 145 PSF** LIVE LOADS ROOF 20 PSF FLOOR: 40 PSF BEDROOM: 30 PSF DECK 60 PSF GARAGE: 40 PSF SOIL LOADS AND VALUES (ASSUMED) SOIL BEARING PRESSURE: 1500 PS ACTIVE PRESSURE 35 PCF PASSIVE PRESSURE 250 PCF AT-REST PRESSURE 60 PCF SEE NOTES FOR SOIL ASSUMPTIONS AS FOUND IN THE CONCRETE FOOTINGS & FOUNDATIONS SECTION, THIS PAGE *ENGINEER ASSUMES STABLE SOIL CONDITIONS. IF THERE ARE ANY GLOBAL STABILITY CONCERNS, A GEOTECHNICAL REPORT IS REQUIRED. **GENERAL CONSTRUCTION NOTES:** ALL CONSTRUCTION WORK SHALL FOLLOW THE STANDARDS FOUND IN THE INTERNATIONAL BUILDING CODE (IBC 2021), INTERNATIONAL RESIDENTIAL CODE (IRC 2021), AND THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS 2018) THE ENGINEERED DRAWINGS PROVIDED HEREIN WERE COMPLETED USING THE PROFESSIONAL STANDARD OF CARE REQUIRED BY THE GOVERNING MUNICIPALITY AND/OR STATE THESE DRAWINGS HOWEVER, DO NOT AND CAN NOT PROVIDE EVERY EXPLICIT ELEMENT OR CONDITION OF THE STRUCTURE. AS SUCH, CONTRACTOR SHALL

- PROVIDE INDUSTRY STANDARD GOOD CARE AND PRACTICE FOR MISCELLANEOUS ELEMENTS NOT SHOWN ON PLANS AND SHALL CONTACT ENGINEER FOR FURTHER INFORMATION IF REQUIRED
- STRUCTURAL ENGINEERING PROVIDED HEREIN ASSUMES FINAL CONSTRUCTED CONDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR STRUCTURAL INTEGRITY OF UNFINISHED STRUCTURE DURING ALL STAGES OF CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LIVE LOADS SHOWN IN DESIGN CRITERIA. CONTRACTOR SHALL PROVIDE BRACING OR SHORING AS NECESSARY TO SUPPORT UNFINISHED STRUCTURE.
- WHITE PINE ENGINEERING (WPE) ASSUMES NO LIABILITY FOR THE MEANS AND METHODS OF CONSTRUCTION PRACTICES. CONTRACTOR IS RESPONSIBLE FOR ALL MEANS OF CONSTRUCTION AND FOR JOBSITE SAFETY PER OSHA REGULATIONS
- CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING APPROVAL AND ANY NECESSARY PERMITS FROM THE GOVERNING MUNICIPALITY PRIOR TO BEGINNING OF CONSTRUCTION.
- ANY OBSERVATIONS PROVIDED BY WPE DURING CONSTRUCTION SHALL BE CONSIDERED OBSERVATIONS LIMITED TO THE SCOPE REQUESTED. AND NOT FULL INSPECTIONS OR APPROVAL. THE GOVERNING MUNICIPALITY SHALL BE SOLELY RESPONSIBLE FOR INSPECTIONS AND APPROVAL OF FINAL CONSTRUCTION.
- CONTRACTOR SHALL INFORM ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND CONDITIONS ASSUMED ON THESE PLANS (I.E. DIMENSIONS, MATERIALS, ASSUMED LOADS, ETC).
- 6. SHOP DRAWINGS FOR ANY PREMANUFACTURED STRUCTURAL ELEMENTS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONSTRUCTION AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD TO REVIEW IF DIMENSIONS OR OTHER ASPECTS OF SHOP DRAWINGS DIFFER FROM THOSE ON THESE PLANS.

CONCRETE FOOTINGS, FOUNDATIONS, AND SLABS

- 1. CONCRETE SHALL MEET REQUIREMENTS OUTLINED IN THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI318-19)
- 2. LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM AL FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 IN WITHIN THE FIRST 10 FT DISTANCE FROM THE BUILDING.
- IMPERVIOUS SURFACES (I.E. CONCRETE, ASPHALT) SHALL BE SLOPEI A MINIMUM OF 2% AWAY FROM THE BUILDING
- CONTRACTOR SHALL DAMP PROOF ALL CONCRETE WALLS THAT RETAIN EARTH OR HAVE ENCLOSED USABLE SPACES BY PLACING A BITUMINOUS COATING ON BELOW GRADE EXTERIOR SECTIONS OF FOUNDATION WALL OR WITH ANOTHER APPROVED DAMP PROOFING METHOD AS OUTLINED IN R406 OF THE IRC.
- 5. FOUNDATION DRAINAGE SYSTEM IS NOT REQUIRED IF BACKFILLED WITH WELL-DRAINING BACKFILL OR SAND-GRAVEL MIXTURE SOILS OF GROUP 1 SOILS OF THE UNIFIED SOILS CLASSIFICATION SYSTEM AS SHOWN IN TABLE R405.1 OF THE IRC.
- 6. ALL CONCRETE WALLS THAT RETAIN EARTH AND ANY FOUNDATION WALLS THAT ENCLOSE USABLE AREAS WITH GROUP II-GROUP IV SOILS OF THE UNIFIED SOILS CLASSIFICATIONS SYSTEM AS SHOWN TABLE R405.1 OF THE IRC SHALL HAVE A FOUNDATION DRAIN INSTALLED CONSISTING OF A PERFORATED DRAIN PIPE NOT LESS THAN 1' BEYOND THE OUTSIDE EDGE OF THE FOOTINGS AND 6" ABOVE THE TOP OF FOOTING WITH A GRAVEL DRAIN WRAPPED IN AN APPROVED FILTER FABRIC
- ANY FOUNDATION WALLS THAT ENCLOSE USABLE SPACE WITH A HIGH WATER TABLE OR OTHER SEVERE GROUND WATER CONDITIONS SHALL BE WATERPROOFED AS REQUIRED IN SECTION R406.2 OF THE
- WPE ASSUMES STABLE SOIL CONDITIONS. CONTACT ENGINEER IF SOIL CONDITIONS DIFFER FROM THOSE ASSUMED. SEE DESIGN CRITERIA FOR ASSUMED VALUES. THESE VALUES SHALL BE REPLACED BY DATA INCLUDED IN A SITE SPECIFIC GEOTECHNICAL REPORT IF AVAILABLE.
- CRUSHED ROCK OR GRAVEL FILL WITH RELATIVELY LOW AMOUNTS OF FINES MAY BE USED TO BRING BOTTOM OF FOOTINGS OR SLABS UP TO GRADE WITH A MAXIMUM GRAVEL FILL DEPTH OF 2'. GRAVEL OR CRUSHED ROCK FILLS SHALL BE COMPACTED USING A VIBRATORY PLATE COMPACTOR
- 10. ANY FILL SOILS OR GRAVEL FILL DEEPER THAN 2' THAT SUPPORT FOOTINGS AND FOUNDATIONS SHALL BE DESIGNED BY A LICENSED GEOTECHNICAL ENGINEER. FILL SOILS SHALL BE INSTALLED, AND TESTED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE.
- 11. WHERE QUANTIFIABLE DATA OR OBSERVATIONS INDICATE EXPANSIVE, COMPRESSIBLE, SHIFTING, OR OTHER QUESTIONABLE SOIL CHARACTERISTICS OR GEOTECHNICAL HAZARDS ARE LIKELY TO BE PRESENT, THE BUILDING OFFICIAL SHALL DETERMINE WHETHER TO REQUIRE A SITE SPECIFIC GEOTECHNICAL STUDY TO DETERMINE SOIL CHARACTERISTICS OF THE SITE.
- 12. FROST DEPTH OF FOOTINGS AND MINIMUM FREEBOARD OF FOUNDATION WALLS SHALL BE MET AS SPECIFIED ON SHEET S1.0. NO FOOTINGS IN UNCONDITIONED SPACE SHALL BE CONSTRUCTED SHALLOWER THAN THE MINIMUM FROST DEPTH.
- 13. CONCRETE SHALL BE BE MECHANICALLY VIBRATED WHEN PLACED TO AVOID HONEYCOMBING ALONG FORMS AND TO HELP CONCRETE FREELY FLOW AROUND REINFORCEMENT.
- 14. CONCRETE SHALL NOT BE DROPPED MORE THAN 5' MAXIMUM DURING PLACEMENT
- 15. CONCRETE FOR FOUNDATION WALLS SHALL CURE A MINIMUM OF 7 DAYS AND HAVE INTERIOR SLAB INSTALLED PRIOR TO ANY BACKFILL FOUNDATION WALLS 6' IN HEIGHT AND ABOVE DESIGNED FOR TOP SUPPORT, CONTRACTOR SHALL INSTALL FLOOR OR ROOF DIAPHRAGM PRIOR TO BACKFILL AND SHALL NOT COMPACT ANY BACKFILL PLACED AROUND THESE WALLS.
- 16. ALL FOUNDATIONS SHALL HAVE 6" MIN. EXPOSED ABOVE GRADE. 17. CONTRACTOR SHALL ROUGHEN COLD JOINT BETWEEN FOOTING AND
- WALL TO 1" AMPLITUDE. 18. ALL SLABS ON GRADE SHALL HAVE CONTROL JOINTS IN SLAB AT 15'
- O.C. MAXIMUM SPACING. 19. ALL CONCRETE SLABS ON GRADE SHALL BE A MINIMUM OF 4" THICK
- ON 4" PLATE COMPACTED GRAVEL OR OTHER APPROVED FREE DRAINING MATERIAL 20. REINFORCING STEEL IN CONCRETE SHALL MEET THE REQUIREMENTS
- OF THE FOLLOWING SECTION ENTITLED "REINFORCING STEEL" 21. ALL REINFORCEMENT IN CONCRETE SHALL BE PROPERTY TIED AND SECURED PRIOR TO POURING CONCRETE IN SUCH A WAY THAT REINFORCEMENT REMAINS IN DESIGNED LOCATION. VERTICAL REINFORCING STEEL FOR MASONRY CONSTRUCTION MAY BE
- FLOATED INTO PLACE 22. ANY COMPONENTS THAT ARE CAST IN PLACE SHALL BE SECURELY PLACED IN THE FORMS (I.E. STRAPS, BOLTS, SLEEVES, ETC.)
- 23. REINFORCEMENT IN FOUNDATION WALLS SHALL BE CENTERED IN WALL U.N.O. REINFORCEMENT FOR CONCRETE WALLS RETAINING EARTH SHALL BE PLACED WHERE DESIGNED ON PLANS.
- 24. ENGINEER ASSUMES 2,500 PSI COMPRESSIVE STRENGTH IN STRUCTURAL CONCRETE, THEREFORE CONCRETE FOR FOOTINGS, FOUNDATION WALLS, AND SLABS ON GRADE CAN BE EXEMPT FROM SPECIAL INSPECTIONS ACCORDING TO EXEMPTIONS LISTED IN SECTION 1705.3 IN THE IBC UNLESS NOTED OTHERWISE

	CON	CRETE SPECIFI	CATIONS		REBAR CONCRE	ETE COVERAGE DIS	STANCES	
	STRUCTURAL ELEMENT	MIN. COMRESSIVE STRENGTH (fc)	AIR CONTENT	W/C RATIO	EXPOSURE CONDITION	BAR SIZE OR MEMBER	REBAR CLR DISTANCE (MIN.)	
G	ELEMENT	(,	OOMEN		CAST AGAINST AND			
.LL	FOUNDATION WALLS AND FOOTINGS, NOT	3000 PSI	5%-7% ⁽¹⁾ .55		PERMANENTLY EXPOSED TO EARTH	ANY	3"	l
ED	EXPOSED TO WEATHER	00001 01	370-170	.00		#5 AND SMALLER	1-1/2"	"
	SLABS (EXCLUDING GARAGE SLABS)	3000 PSI	5%-7% ⁽¹⁾	.55	EXPOSED TO WEATHER	#6 AND LARGER	2"	H
3	WALLS, EXPOSED TO WEATHER	3000 PSI	5%-7%	.45		#14 AND # 18; SLABS, JOISTS, AND WALLS	1-1/2"	L
OF S	SLABS EXPOSED TO WEATHER (INCLUDING GARAGE AND SUSP SLABS)	3500 PSI	5%-7%	.45	NOT EXPOSED TO WEATHER OR IN CONTACT	#11 AND SMALLER; SLABS, JOISTS, AND	3/4"	NO
I IN	NOTES TO TABLE ABO	VE:	ONOBETE NOT		WITH GROUND	WALLS		Г

- AIR ENTRAINMENT ONLY REQUIRED IN CONCRETE NOT EXPOSED TO WEATHER IF EXPOSED TO FREEZE/THAW DURING CONSTRUCTION **PROCESS**
- 2. fc IS CONCRETE COMPRESSIVE STRENGTH AT 28-DAYS
- 3. PORTLAND CEMEMT TYPE I/II
- 4. W/C RATIO BASED ON ALL CEMENTITIOUS AND SUPPLEMENTARY CEMENTITIOUS MATERIAL IN CONCRETE MIXTURE.
- 5. CONCRETE SHALL NOT INCLUDE CALCIUM CHLORIDE ADMIXTURE 6. NOMINAL MAXIMUM AGGREGATE SIZE OF 3/4" AND SHALL CONFORM TO ASTM C33
- 7. CONCRETE MIXTURE MAY HAVE A MAXIMUM OF 25% BY MASS OF FLY ASH OR OTHER NATURAL POZZOLANS CONFORMING TO ASTM C618
- 8. SEE SECTION R404.1.3.3.4 (IRC 2021) FOR SLUMP REQUIREMENTS. SLUMP OF CONCRETE SHALL BE ADEQUATE TO PROVIDE WORKABILITY AROUND REINFORCEMENT

ANCHOR BOLTS

- 1. ANCHORING OF SILL PLATES TO FOUNDATION SHALL FOLLOW SECTION 2308.3 (IBC 2021)
- 2. ANCHOR BOLTS SHALL BE A MINIMUM OF 1" DIAMETER X 10" LONG "J" BOLTS @ 32" O.C. ANCHOR BOLTS SHALL BE GRADE A307 AND SHALL HAVE 7" MINIMUM EMBEDMENT IN CONCRETE. SEE SHEAR WALL SCHEDULE FOR SHEAR WALL SPECIFIC ANCHOR BOLT SPACING.
- ANCHOR BOLTS SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SILL PLATE.
- 4. EACH SECTION OF FOUNDATION WALL SHALL HAVE A MINIMUM OF (2) ANCHOR BOLTS (ONE ON EACH END). PROVIDE EDGE ANCHOR BOLTS WITHIN FIRST FOOT OF FOUNDATION SECTION WHEN
- 5. PROVIDE 3" X 3" X 3" PLATE WASHER FOR EACH ANCHOR BOLT. DIAGONALLY SLOTTED HOLE IN PLATE WASHER ALLOWED TO BE 3/6" WIDER THAN ANCHOR BOLT DIAMETER NOT TO EXCEED 1 $\frac{3}{4}$ " IF A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND NUT.
- 6. $\frac{1}{2}$ " DIA. X 7" LONG SIMPSON TITAN HD BOLTS @ SPACING MATCHING SHEAR WALL SCHEDULE MAY BE SUBSTITUTED FOR ANCHOR BOLT SPECIFICATION ABOVE

REINFORCING STEEL:

- . PLACEMENT OF REINFORCING STEEL SHALL MEET REQUIREMENTS OF CHAPTER 25 OF ACI 318-19.
- 2. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 (Fy = 60 KSI)REINFORCING STEEL SHALL NOT BE WELDED UNLESS SPECIFIED ON
- THE PLANS. REINFORCING STEEL THAT IS WELDED SHALL BE ASTM
- REINFORCING WELDED WIRE FABRIC SHALL CONFORM TO ASTM
- ALL REINFORCING STEEL DIMENSIONS SHALL BE TO CENTER OF BAR UNLESS DIMENSION IS SPECIFIED AS "CLEAR" OR "CLR" IN WHICH CASE THE DIMENSION IS TO EDGE OF REBAR.
- EDGE DISTANCE, HOOK AND BEND RADII, AND REBAR LAP LENGTHS SHALL MEET THE FOLLOWING REQUIREMENTS ON THIS SHEET AND THE REQUIREMENTS IN THE ACI 318.
- REINFORCING IN FOUNDATION WALLS AND AROUND OPENINGS SHALL MEET REQUIREMENTS OF THE FOUNDATION SCHEDULE SHOWN ON S1.0 AND THE UTAH AMENDMENT TO THE CODE 15A-3-108.
- ON CENTER (O.C.) SPACING SHOWN ON PLANS SHALL BE MAXIMUM SPACING ALLOWABLE.
- BARS SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS (d_b) TO MEET DEVELOPMENT LENGTH, DEVELOPMENT LENGTH ASSUMES UNEPOXIED REBAR AND NORMAL WEIGHT CONCRETE. CONTACT ENGINEER FOR OTHER CONDITIONS IF NEEDED.

ALL SIZE BARS: BEAMS. COLUMNS, AND 1-1/2" **TENSION TIES** NOTES TO TABLE ABOVE SEE TABLE 20.5.1.3.1 ACI 318-19 2. ALL SLAB ON GRADE REINFORCEMENT SHALL BE CENTERED IN SLAB UNLESS NOTED OTHERWISE

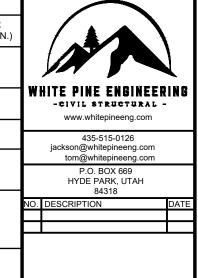
STANDARD HOOK GEOMETRY OF DEFORMED BARS IN TENSION (SEE ACI 318-19 TABLE 25.3.1 FOR ALL BAR SIZES AND REQUIREMENTS)

TYPE OF HOOK	BAR SIZE	MIN. INSIDE DIAMETER	STRAIGHT EXTENSION MIN. (I _{ext})	TYPE OF HOOK
90° HOOK	#3-#8	6d _b	12d _b	Point at which bar is developed db 90-degree bend Diameter Lan
180° HOOK	#3-#8	6d₀	GREATER OF 4d _b and 2.5"	Point at which ber is developed 6 180-degree bend

STANDARD HOOK GEOMETRY FOR STIRRUPS. TIES AND HOOPS (SEE ACI 318-19 TABLE 25.3.2 FOR ALL BAR SIZES AND REQUIREMENTS)

TYPE OF HOOK	BAR SIZE	MIN. INSIDE DIAMETER	STRAIGHT EXTENSION MIN. (I _{ext})	TYPE OF HOOK
90° HOOK	#3-#5	4d _b	GREATER OF 6d _b and 3"	90-degree bend Diameter
135° HOOK	#3-#5	4d _b	GREATER OF 6d _b and 3"	Diameter Laxt
180° HOOK	#3-#5	4d _b	GREATER OF 6d _b and 3"	Diameter 180-degree 1

- 1. A LONGER STRAIGHT EXTENSION IS ALLOWABLE BUT DOES NOT INCREASE ANCHORAGE CAPACITY
- 2. MINIMUM DEVELOPMENT LENGTH SHALL BE 40 BAR DIAMETERS (d_b)



∞ **TOWNHOMES MAGNA** က **SUBDIVISION LOTS** 9150 WE SOUTH COURT ER. KESSL LEAH



DESIGNED BY: J. SAGERS CHECKED BY: T. HILL

SCALE /8" = 1'-0" (PRINTED ON 11X17)

/4" = 1'-0" (PRINTED ON 22X34)

SHEET TITLE:

STRUCTURAL NOTES AND SCHEDULES

MINIMUM NAILING SCHEDULE (IBC 2304.10.2)					
No.	BUILDING ELEMENT	No.	SIZE	SPACING	LOCATION
1.1	BLOCKING BETWEEN CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	(4)	8d	-	EACH END, TOENAIL
1.2	BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	(2)	16d	-	END NAIL
8	STUD TO STUD (NOT AT BRACED WALL PANELS)	-	16d	24" O.C.	FACE NAIL
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	-	16d	12" O.C.	FACE NAIL
10	BUILT-UP HEADER (2" TO 2" HEADER)	-	16d	12" O.C.	EACH EDGE, FACE NAIL
11	CONTINUOUS HEADER TO STUD	(5)	8d	-	TOENAIL
12	TOP PLATE TO TOP PLATE	-	16d	16" O.C.	FACE NAIL
13	TOP PLATE TO TOP PLATE, AT END JOINTS (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)	(12)	16d	-	EACH SIDE OF END JOINT, FACE NAIL
14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACE WALL PANELS)	-	16d	12" O.C.	FACE NAIL
15	BOTTOM PLATE TO JOIST, RIM JOIST, BANDS JOIST, OR BLOCKING AT BRACE WALL PANELS	(3)	16d	16" O.C.	FACE NAIL
16	STUD TO TOP OR BOTTOM PLATE	(2)	16d	-	END NAIL
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	(2)	16d	-	FACE NAIL
21	JOIST TO SILL, TOP PLATE, OR GIRDER	(4)	8d	-	TOENAIL
22	RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL, OR OTHER FRAMING BELOW	-	8d	4" O.C.	TOENAIL
26	BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	(2)	16d	12" O.C.	FACE NAIL
28	JOIST TO BAND JOIST OR RIM JOIST	(3)	16d	-	END NAIL
29	BRIDGING OR BLOCKING TO JOIST, RAFTER, OR TRUSS	(2)	8d	-	EACH END, TOENAIL

LOCATIONS REQUIRING PRESERVATIVE-TREATED OR NATURALLY DURABLE WOOD

NOTES:
1. WOOD JOISTS/FLOORS CLOSER THAN 18" AND WOOD GIRDERS CLOSER THAN 12" TO EXPOSED GROUND IN CRAWL SPACES OR UNEXCAVATED AREAS WITHIN THE PERIMETER OF THE BUILDING FOUNDATION.

2. WOOD FRAMING MEMBERS IN CONTACT W/ THE EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8" FROM EXPOSED EARTH.

WOOD FRAMING MEMBERS AND FURRING STRIPS IN DIRECT CONTACT W/ MASONRY OR CONCRETE.

*WOOD USED IN THE LOCATIONS SPECIFIED SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED IN ACCORDANCE W/ AWPA U1. FASTENERS INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. STAPLES SHALL BE OF STAINLESS STEEL, FASTENERS OTHER THAN NAILS, STAPLES, TIMBER RIVETS, WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL.

SHEAR WALL SCHEDULE

									1 3
MARK	SHEATHING	EDGE NAILING	EDGE STAPLING	EDGE MEMBER	FIELD NAILING	FIELD STAPLING	FIELD MEMBER	ANCHOR BOLT SPACING	2
SW-6"	7/16" OSB, 1 SIDE	8d @ 6" O.C.	1-1/2" LONG 16 GAUGE @ 3" O.C.	(1) 2X	8d @ 12" O.C.	1-1/2" LONG 16 GAUGE @ 6" O.C.	(1) 2X	1/2" DIA X 10" L @ 32" O.C.	
SW-4"	7/16" OSB, 1 SIDE	8d @ 4" O.C.	1-1/2" LONG 16 GAUGE @ 2" O.C.	(1) 3X OR (2) 2X W/ 16d @ 4" O.C.	8d @ 12" O.C.	1-1/2" LONG 16 GAUGE @ 6" O.C.	(1) 2X	1/2" DIA X 10" L @ 32" O.C.] -
SW-3"	7/16" OSB, 1 SIDE	8d @ 3" O.C.	N/A	(1) 3X OR (2) 2X W/ 16d @ 4" O.C.	8d @ 12" O.C.	N/A	(1) 2X	1/2" DIA X 10" L @ 24" O.C.	-
SW-2"	7/16" OSB, 1 SIDE	8d @ 2" O.C.	N/A	(1) 3X OR (2) 2X W/ 16d @ 3" O.C.	8d @ 12" O.C.	N/A	(1) 2X	1/2" DIA X 10" L @ 16" O.C.	S
(2)SW-4"	7/16" OSB, BOTH SIDES	8d @ 4" O.C.	1-1/2" LONG 16 GAUGE @ 2" O.C.	(1) 3X OR (2) 2X W/ 16d @ 4" O.C.	8d @ 12" O.C.	1-1/2" LONG 16 GAUGE @ 6" O.C.	(1) 2X	1/2" DIA X 10" L @ 16" O.C.	<u>N</u>
(2)SW-3"	7/16" OSB, BOTH SIDES	8d @ 3" O.C.	N/A	(1) 3X OR (2) 2X W/ 16d @ 4" O.C.	8d @ 12" O.C.	N/A	(1) 2X	1/2" DIA X 10" L @ 12" O.C.	2
(2)SW-2"	7/16" OSB, BOTH SIDES	8d @ 2" O.C.	N/A	(1) 3X OR (2) 2X W/ 16d @ 3" O.C.	8d @ 12" O.C.	N/A	(1) 2X	1/2" DIA X 10" L @ 8" O.C.	

NOTES TO TABLE ABOVE

STUDS SHALL BE DF-L @ 16" O.C.

- NAILS SHALL BE CARBON STEEL SMOOTH SHANK 8d COMMON OR 8d GALVANIZED BOX. GALVANIZED NAILS SHALL BE HOT-DIPPED OR MECHANICALLY DEPOSITED.
- STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16" AND SHALL BE INSTALLED WITH THEIR CROWNS PARALLEL TO THE LONG DIMENSION OF THE FRAMING MEMBERS
- NAILS/STAPLES SHALL BE DRIVEN WITH THE HEAD/CROWN OF THE NAIL/STAPLE FLUSH WITH THE SURFACE OF THE SHEATHING
- DOUBLE SIDED SHEAR WALLS SHALL HAVE PANEL JOINTS OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS. NAILS AT PANEL EDGES SHALL BE
- BLOCK ALL PANEL EDGES. FLAT BLOCKING IS ACCEPTABLE ON SINGLE SIDED SHEAR WALLS.
- ALL WALLS SHALL FOLLOW SW-6" U.N.O.
- STRUCTURAL PANELS SHALL BE APA APPROVED, EXPOSURE 1, AND MEET THE REQUIREMENTS OF USDOC PS 2.
- NAILS SHALL BE LOCATED AT LEAST 3/8" FROM THE PANEL EDGES.
- 10. PANELS SHALL NOT BE LESS THAN 4'X8' EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING. ALL EDGES OF ALL PANELS SHALL BE SUPPORTED BY AND FASTENED TO FRAMING MEMBERS OR BLOCKING.
- I. ANCHOR BOLTS SHALL HAVE A STEEL PLATE WASHER UNDER EACH NUT NOT LESS THAN 0.229"X3"X3" IN SIZE. THE HOLE IN THE PLATE WASHER SHALL BE PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1-3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. THE PLATE WASHER SHALL EXTENDED TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE(S) WITH SHEATHING.

IFRAMING

- <u>IOTES:</u>
 1. FULL HEIGHT SOLID BLOCKING REQUIRED AT ALL BEARING POINTS OF TRUSSES, RAFTERS, AND JOISTS.
- 2. WALLS SHALL BE BALLOON FRAMED (CONTINUOUS STUDS FROM FOUNDATION TO ROOF) EXCEPT WHÈRE LATERALLY SUPPORTED BY A FLOOR OR ROOF DIAPHRAGM.
- 3. ALL LUMBER SHALL MEET PLANS SPECIFICATIONS AND BE GRADED AND STAMPED BY AN APPROVED AGENCY (I.E. APA, WWPA, ETC.)
- 4. BEAMS ON PLAN ARE SIZED AS A MINIMUM. LARGER SIZES AND HIGHER GRADES MAY REPLACE MEMBERS ON PLAN.
- 5. FLOOR BEAMS MAY BE FLUSH MOUNTED OR DROP BEAMS.
- 6. BEAMS CONSISTING OF (4) OR MORE PLYS SHALL BE FASTENED W/ (2) ROWS OF 1/2" DIA THRÚ BOLTS @ 12" O.C. 2" FROM TOP AND 2" FROM BOTTOM OF BEAM.
- 7. HOLES FOR BOLTS SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. A STANDARD CUT WASHER SHALL BE PROVIDED BETWEEN THE WOOD AND THE BOLT HEAD AND BETWEEN THE WOOD AND THE NUT.
- 8. LEAD HOLES FOR LAG SCREWS SHALL BE BORED AS FOLLOWS A) THE CLEARANCE HOLE FOR THE THE SHANK SHALL HAVE THE SAME
- DIAMETER AS THE SHANK AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK. B) THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A
- DIAMETER EQUAL TO 40%-70% OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. THE LARGER PERCENTILE SHALL APPLY TO LAG SCREWS OF GREATER DIAMETERS
- 9. POSTS AND WALLS SHALL BE CENTERED ON CONTINUOUS AND SPOT FOOTINGS U.N.O.
- 10. SQUASH BLOCKING AND LOWER COLUMNS SHALL BE PROVIDED TO CARRY ALL COLUMN LOADS TO FOOTINGS AND FOUNDATIONS. SQUASH BLOCKING AND LOWER COLUMNS SHALL BE ALIGNED W/ AND MATCH UPPER COLUMN SIZE U.N.O.
- 1. BUILT UP 2X COLUMNS SHALL BE FACE NAILED TOGETHER W/ 16d @ 4" O.C STAGGERED EACH PLY.
- 12. COLUMNS SHALL SUPPORT FULL WIDTH OF BEAM ENDS.
- 13. ENGINEERED WOOD RIM BOARDS SHALL CONFORM TO ANSI/APA PRR 410 OR SHALL BE EVALUATED IN ACCORDANCE W/ ASTM D7672.
- 14. WHERE THE DBL TOP PLATE LAP AND NAILING REQUIREMENTS PER IBC2304.10.2 No. 13 ARE NOT MET, PROVIDE #CS16 W/ 12" LAP MIN.
- 15. WOOD CONSTRUCTION CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.

TRUSS AND JOIST

- NOTES:

 1. PRE-MANUFACTURED TRUSSES SHALL FOLLOW LAYOUT SHOWN ON PLANS. ANY CHANGES IN TRUSS LAYOUT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 2. CONTRACTOR AND MANUFACTURER SHALL VERIFY CEILING HEIGHTS, TRAYS, VAULTS, AND STEPS PRIOR TO CONSTRUCTION. MULTI PLY TRUSSES OR JOISTS SHALL BE FASTENED PER
- MANUFACTURER'S SPECIFICATIONS. TRUSSES AND JOISTS SHALL BE BRACED PER MANUFACTURER. 5. PROVIDE WEB STIFFENERS ON JOISTS WHEN REQUIRED BY
- MANUFACTURER. 6. NO ALTERATIONS OF TRUSSES OR JOISTS ARE ALLOWED WITHOUT
- APPROVAL FROM MANUFACTURER. 7. PROVIDE HURRICANE TIE EACH END OF EVERY ROOF
- TRUSS/RAFTER TO TOP PLATE. #H2.5A OR #H1 FOR STANDARD TRUSSES AND BEVELED RAFTERS
- #H1 OR #H10A FOR ATTIC AND TALL HEEL TRUSSES - #VPA FOR NON BEVELED RAFTERS

STEEL

- 1. W SECTIONS SHALL COMPLY W/ ASTM A992 AND HAVE Fy=50 KSI MIN. AND Fu=65 KSI MIN
- 2. HSS RECTANGULAR SECTIONS SHALL COMPLY W/ ASTM A500 GRADE C AND HAVE Fy=50 KSI MIN. AND Fu=62 KSI MIN.

 3. C AND L SECTION SHALL COMPLY W/ ASTM A36 AND HAVE Fy=36 KSI
- MIN. AND Fu=58 KSI MIN. 4. ALL WELDS ARE 1/4" FILLET CONFORMING TO THE REQUIREMENTS IN
- AWS D1.1 W/ AN ELECTRODE Fexx=70 KSI U.N.O. 5. ALL STRUCTURAL STEEL BOLTS SHALL COMPLY W/ A307 GRADE A
- AND HAVE Fnt=45 KSI AND Fnv=27 KSI U.N.O.
- 6. ALL WIDE FLANGE BEAMS SHALL HAVE 3/8" WEB STIFFENER EACH SIDE AT BEARING LOCATIONS U.N.O.
- WHERE LEVELING NUTS ARE USED UNDER BASE PLATES, NON SHRINK GROUT SHALL FILL THE VOID BETWEEN CONCRETE AND STEEL. GROUT SHALL BE RATED FOR 5000 PSI MIN.
- 8. WOOD NAILERS ON BEAMS SHALL BE 2X OR 3X W/ 1/2" DIA BOLTS SPACED AT 32" O.C. MIN.

EPOXY

- EPOXY SHALL BE SIMPSON SET-XP U.N.O.
- 2. DRILL AND CLEAN HOLE PER MANUFACTURER SPECIFICATIONS
- 3. HOLE SHALL BE FREE OF DUST, DEBRIS, AND STANDING WATER PRIOR TO EPOXY INSTALLATION.

DIAPHRAGM/SHEATHING SCHEDULE

LOCATION	NOMINAL THICKNESS	SPAN RATING	EDGE NAILING	FIELD NAILING
ROOF W/ DESIGN SNOW LOAD UP TO 40 PSF	7/16"	24/16	8d @ 6" O.C.	8d @ 12" O.C.
ROOF W/ DESIGN SNOW LOAD UP TO 120 PSF	19/32"	40/20	8d @ 6" O.C.	8d @ 12" O.C.
FLOOR	3/4" TONGUE AND GROOVE	48/24	10d @ 6" O.C.	10d @ 12" O.C.

NOTES TO TABLE ABOVE:

- ROOF AND FLOOR FRAMING MEMBERS SHALL BE PLACED NO FURTHER THAN 24" O.C.
- NAILS SHALL BE CARBON STEEL SMOOTH SHANK COMMON OR GALVANIZED BOX. GALVANIZED NAILS SHALL BE HOT-DIPPED OR MECHANICALLY DEPOSITED.
- NAILS SHALL BE DRIVEN WITH THE HEAD OF THE NAIL FLUSH WITH THE SURFACE OF THE SHEATHING.
- STRUCTURAL PANELS SHALL BE APA APPROVED, EXPOSURE 1, AND MEET THE REQUIREMENTS OF USDOC PS 2. FLOOR SHEATHING SHALL BE GLUED TO FRAMING MEMBERS PRIOR TO
- NAILING W/ AN ADHESIVE CONFORMING TO APA SPECIFICATIONS. STRENGTH AXIS (LONG DIRECTION) OF PANELS SHALL BE ORIENTED
- PERPENDICULAR TO FRAMING MEMBERS AND PANEL END JOINTS SHALL BE STAGGERED.
- NAILS SHALL BE LOCATED AT LEAST 3/8" FROM THE EDGES OF PANELS
- 1-1/2" LONG 16 GAGE STAPLES W/ 7/16" CROWN MAY BE SUBSTITUTED FOR 8d NAILS AT HALF THE SPACING FOR 7/16" PANELS ONLY. CROWNS MUST BE INSTALLED PARALLEL TO FRAMING MEMBERS.
- PANELS SHALL NOT BE LESS THAN 4'X8' EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING WHERE MINIMUM PANEL DIMENSION SHALL BE 24" UNLESS ALL EDGES OF THE UNDERSIZED PANELS ARE SUPPORTED BY AND FASTENED TO FRAMING MEMBERS OR BLOCKING.

STUD HEIGHT SCHEDULE

SIZE/TYPE	SPACING	MAX HEIGHT
2X4 DF-L #2	16" O.C.	10'-0"
2X4 DF-L #2	12" O.C.	12'-0"
2X6 DF-L #2	16" O.C.	14'-0"
2X6 DF-L #2	12" O.C.	16'-0"
2X6 DF-L #2	8" O.C.	18'-0"
2X6 LSL	16" O.C.	16'-0"
2X6 LSL	12" O.C.	18'-0"

NOTES TO TABLE ABOVE

- 1. CONTACT ENGINEER FOR OTHER STUDS AND SPACING.
- 2. 2X6 LSL STUDS SHALL BE 1-3/4" X 5-1/2" W/ E=1.55X10^6 PSI MIN.

CHIMNEY FRAMING

NOTES:

- 1. PROVIDE STUDS SIZED FROM STUD HEIGHT SCHEDULE USING THE DISTANCE FROM ROOF SHEATHING TO TOP OF CHIMNEY AND 1/2 THE MAX HEIGHT SHOWN ON SCHEDULE.
- SHEET ALL CHIMNEY SIDES PER SW-6" SCHEDULE U.N.O.
- HORIZONTAL STRAP CHIMNEY TO ROOF BLOCKING BETWEEN TRUSS TOP CHORDS OR TO TRUSS TO CHORD W/ #CS16 W/ 12" LAP EACH CORNER EACH DIRECTION.
- TRUSSES SHALL BE DESIGNED TO CARRY VERTICAL LOADS FROM
- (3) STUDS SHALL BE PROVIDE AT EACH CORNER OF THE CHIMNEY. STUDS MAY BE SPLICED WITH FULL LENGTH STUDS FACE NAILED
- TOGETHER W/ 16d @ 6" O.C. STAGGERED.
- IF CHIMNEY FRAMING DOES NOT EXTEND FROM TOP OF CHIMNEY TO FLOOR, THEN 2X DEAD MAN BLOCKS MAY BE LAID FLAT ON ROOF SHEATHING AND EDGE NAILED PER SW-6" AND #CS16 VERTICAL STRAPS W/ 12" LAP SHALL BE PLACED AT EACH CORNER DOWN
- AROUND (2)2X6 X 8' BLOCKING (EXTENDING UNDERNEATH 4 TRUSS TOP CHORDS) AND BACK UP TO NAIL ONTO OTHER SIDE OF CORNER
- CHIMNEY WALLS SHALL NOT EXCEED 3.5:1 HEIGHT TO WIDTH RATIO.



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DESCRIPTION

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KESSLER TOWNHOMES MAGNA **SUBDIVISION LOTS SOUTH 9150 W** COURT LEAH



DESIGNED BY: J. SAGERS CHECKED BY: T. HILL

CALE

/8" = 1'-0" (PRINTED ON 11X17) /4" = 1'-0" (PRINTED ON 22X34)

SHEET TITLE:

STRUCTURAL NOTES AND SCHEDULES