TABLE R402.2(a)

FOR USE WITH SOILS CONTAINING EFFECTIVE PLASTICITY INDEX OF B-20[3]

AREA OF TOTAL RESIDENCE (SQUARE FOOTAGE)	NUMBER OF STORIES	DEPTH	MINIMUM WIDTH OF CONCRETE GRADE BEAM	SIZE, # OF CONTINUOUS REINFORCEMENT (TOP + BOTTOM) a, c	DEPTH/DEPTH OF INTERIOR GRADE BEAM (SF GL)	INTERIOR BEAM SIZE, # FOR CONTINUOUS REINFORCEMENT
UP TO 2,400 SQ. FT.	1	24"	12	2- #4	8/8	2- #4
	2	24"	12	2- #5 or 3- #4	8/8	2- #5 or 3- #5
	3	24"	12	2- #5 or 3- #4	12/12	2- #5 or 3- #5
2,400-5,000 SQ. FT.	1	24"	12	2- #5 or 3- #4	8/8 10/16	2- #5 2- #4
	2	24"	12	2- #5 or 3- #4 or 2- #5	12/12 12/16	2- #5 or 3- #4 or 3- #5
	3	24"	12	2- #5	12/14	3- #5
5,000 SQ. FT. PLUS 1000 UNCONDITIONED	1	24"	12	2- #5	12/16 <GRADE BEAM 11' OC MAX>	2- #5
	2	24"	12	2- #5	12/16 <GRADE BEAM 11' OC MAX>	2- #5
OVER 5,000 SQ. FT.[d]	RESIDENTIAL DESIGN PROFESSIONAL REQUIRED c,d					

a) Reinforcement required top and bottom of footing in accordance with ACI-318
b) At intersections and corners, the #5 reinforcing bars can be tied using two bundled #4 "L" bars with minimum leg length of 5'
c) Design Professionals are required to be licensed as an Architect or Engineer in the State of Texas in accordance with applicable laws
d) Consisting of Over 5,000 sq. ft.-- Designed by a Residential Design Professional approved by the City of Amarillo Building official

TABLE R802.4(2)
CEILING JOIST SPANS FOR COMMON LUMBER SPECIES
(UNINHABITABLE ATTICS WITH LIMITED STORAGE, LIVE LOAD= 20 PSF, L/Δ 240)

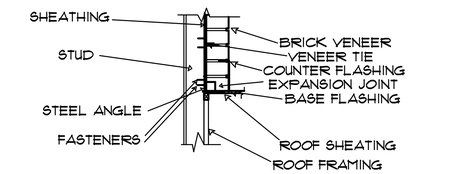
	2 x 4			2 x 6			2 x 8			2 x 10		
SPECIES AND GRADE	12" OC	16" OC	24" OC	12" OC	16" OC	24" OC	12" OC	16" OC	24" OC	12" OC	16" OC	24" OC
# 2 HEM FIR	9'-2"	8'-4"	7'-1"	14'-5"	12'-8"	10'-4"	18'-6"	16'-0"	13'-1"	22'-1"	19'-1"	16'-0"

TABLE R802.4(1)
CEILING JOIST SPANS FOR COMMON LUMBER SPECIES
(UNINHABITABLE ATTICS WITHOUT STORAGE, LIVE LOAD= 10 PSF, L/Δ 240)

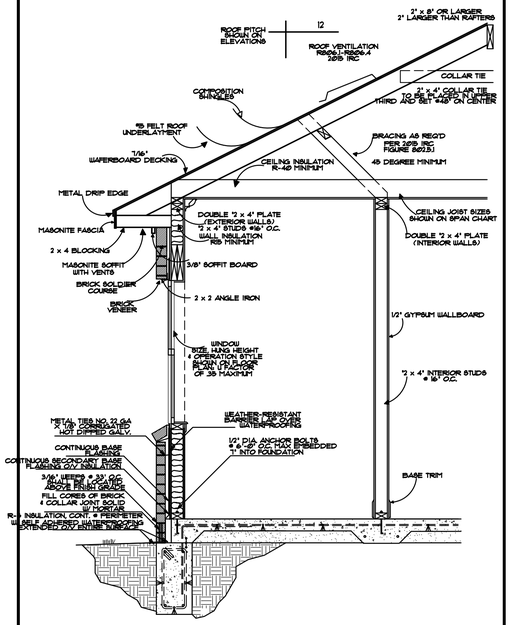
	2 x 4			2 x 6			2 x 8			2 x 10		
SPECIES AND GRADE	12" OC	16" OC	24" OC	12" OC	16" OC	24" OC	12" OC	16" OC	24" OC	12" OC	16" OC	24" OC
# 2 HEM FIR	11'-1"	10'-6"	9'-2"	18'-2"	16'-6"	14'-5"	24'-0"	21'-5"	18'-6"	26'-1	26'-1	22'-1"

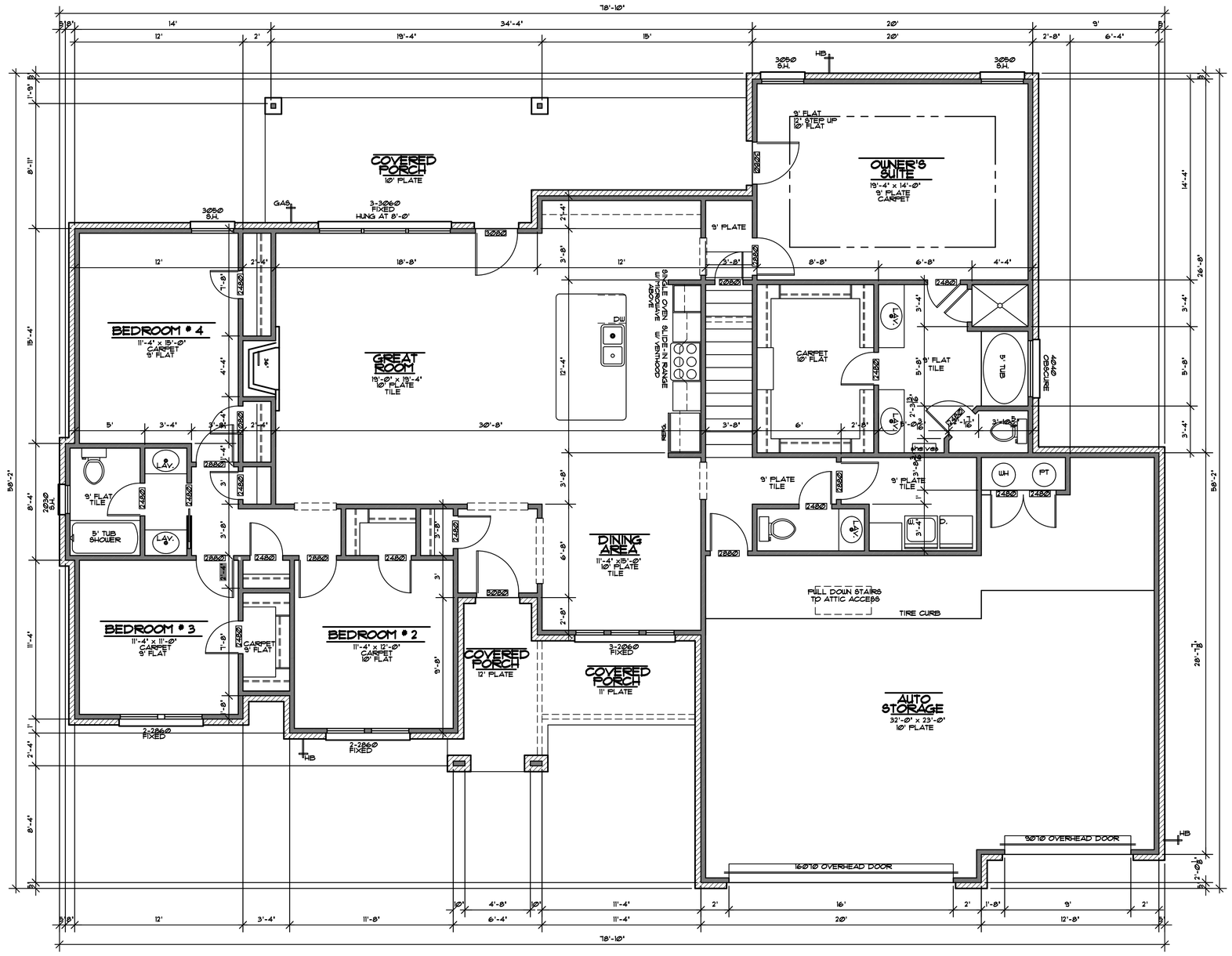
TABLE R802.5.1(2)
RAFTER SPANS SPANS FOR COMMON LUMBER SPECIES
(ROOF LIVE LOAD= 20 PSF,CEILING ATTACHED TO RAFTERS),L/Δ 240)

DEAD LOAD = 20PSF															
	2 x 4			2 x 6			2 x 8			2 x 10			2 x 12		
SPECIES AND GRADE	12" OC	16" OC	24" OC	12" OC	16" OC	24" OC	12" OC	16" OC	24" OC	12" OC	16" OC	24" OC	12" OC	16" OC	24" OC
# 2 HEM FIR	9'-2"	8'-4"	6'-10"	14'-2"	12'-3"	10'-0"	17'-11"	15'-6"	12'-8"	21'-11"	18'-11"	15'-6"	25'-5"	22'-0"	17'-11"



SUPPORT BY STEEL ANGLE





AREAS:	
FIRST FLOOR L.A.	2306 SQ. FT.
SECOND FLOOR L.A.	276 SQ. FT.
AUTO STORAGE	863 SQ. FT.
COVERED PORCH	134 SQ. FT.
COVERED PATIO	270 SQ. FT.
TOTAL UNDER ROOF	3849 SQ. FT.

ALL AREAS APPROXIMATE

FLOOR PLAN

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

DRAWN BY:
RENAISSANCE DESIGN
ZACHARY SALDIVAR
6666 AMARILLO BLVD. W
AMARILLO, TX
79106 / (806)570-3489

A NEW RESIDENCE BY:
B&M AMARILLO HOMES
2140 SOUTHRIDGE DRIVE
AMARILLO, TEXAS

REVISIONS:

PLAN # 1967
DATE 9/23/20