ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP 328236

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4637 -00 -4447

APPLICANT/OWNER: Bacon Development APPLICANT ADDRESS: 109 Magnolia Pear Drive Mooresville NC 28117

SITE ADDRESS: 148 Direct Drive Mooresville NC 28117 PHONE: 423-732-7633 ALT. PHONE

SITE DIRECTIONS: Blum to Brawley Park Rd Subdivision Left SAP CONTROLLED: ☐ YES ☒ NO

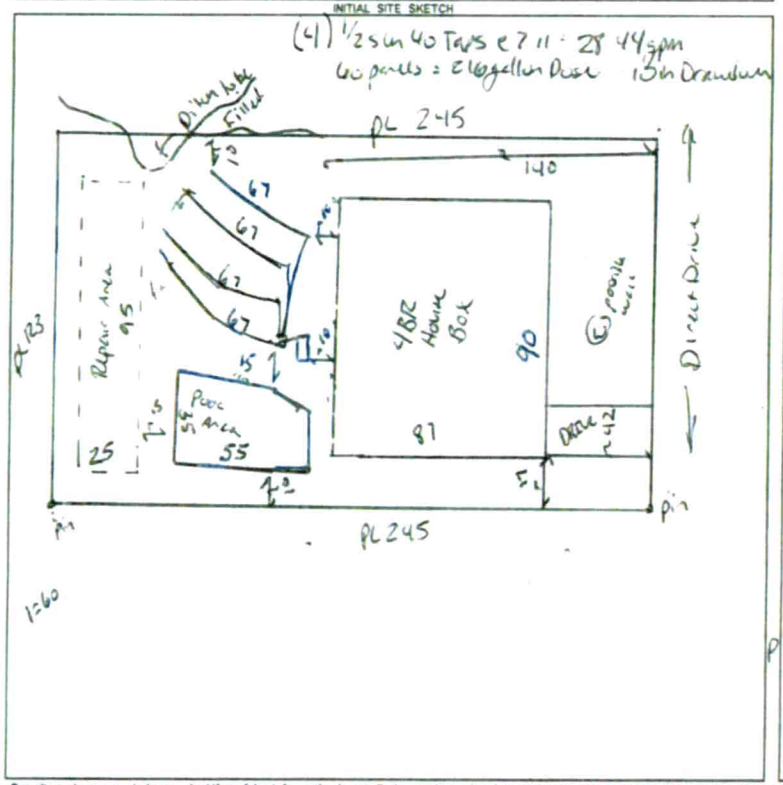
SUBDIVISION: Lakeview Haven SECTION: - LOT # 8 LOT AREA: DESIGN FLOW: 450 L.T.A.R. .30

Septic Tank	1000 (gal)	STB	700	Date	9-12-2022	☒ New System ☐ Repair ☐ Expansion	System Type: I II III IV V VI	☒ Residence	No. Bedrooms	4
Pump Tank	1000 (gal)	PT	363	Date	9-7-2022	System Description:	AM-50 Infiltrator	☐ Business	No. Persons	8
Pump Make		Model		Serial #		Repair System Description:	PM-50 Infiltrator	☐ Other	No. Employees	
# Nitrification Fields	1	# Lines	4	Linear Ft	268	Maintenance Agreement Required:	☐ YES ☒ NO	☐ Slab	☒ Crawl Space	
Trench Width	24in	Trench Bottom Depth	36in max	Gravel Depth	-	☐ GRAVITY	PRESSURE	☐ Basement w/ plumbing	☐ Basement w/o plumbing	

Water Supply: ☒ Private ☐ Public ☐ Community

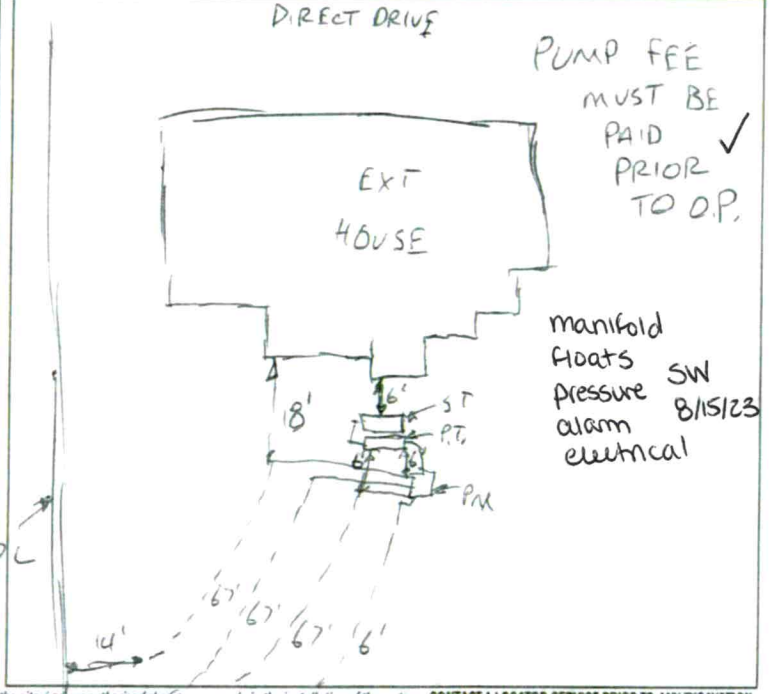
Comments / Conditions: Install Sump Drainage on the Corner of Yard. Utilize pressure manifold Direct Drive, pump, pavement decking within the Drainfield Area.

INITIAL SITE SKETCH



AS BUILT SKETCH

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 between 8am-9am the day the inspection is needed. Be sure to speak with an inspector to confirm your time.



Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION

☐ IMPROVEMENT PERMIT *with plat* valid without expiration. ☒ IMPROVEMENT PERMIT *with site plan* valid for 60 mos. ☐ AUTHORIZATION TO CONSTRUCT valid for period equal to IMPROVEMENT PERMIT - not to exceed 60 mo.

Owner / Applicant Signature: Date: 6-28-22 Installed by: WILLIAMS EXCAVATION

IMPROVEMENT PERMIT by: Date: 6/27/2022 OPERATION PERMIT by: Sarah Williams Date: 8/15/23

AUTHORIZATION TO CONSTRUCT by: Date: 6/27/2022 Existing System Inspected by: Date:

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed.

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet ____ of ____
PROPERTY ID #: _____
COUNTY: _____

Lot 8

SOIL/SITE EVALUATION
***for* ON-SITE WASTEWATER SYSTEM**
(Complete all fields in full)

OWNER: Bacon Development
ADDRESS: 104 Myandia Drive
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____
LOCATION OF SITE: 148 Direct Drive
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☐ Pit ☐ Cut

APPLICATION DATE _____
DATE EVALUATED: _____
PROPERTY SIZE: _____
PROPERTY RECORDED: _____
TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	Site S-Ab	0-24	C SBk	SSS, FI SS	2.5Y 4/6	53	-	—	PS .30
		24-53	CL WSBk	SSS, FR L					
2		0-14	SC SBk	SSS, FI SS	2.5Y 4/6	57			PS .30
		14-38	C SBk	SSS, FR					
		38-57	CL WSBk	SSS, FR L					
3		0-15	SC SBk	SSS, FI SS	2.5Y 4/8	53			PS .30
		15-53	CL WSBk	SSS, FR					
4		0-10	SC		2.5Y 4/6	57			PS .30
		10-34	C SBk	SSS, FI SS					
		34-57	CL WSBk	SSS, FR L					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____

COMMENTS: _____

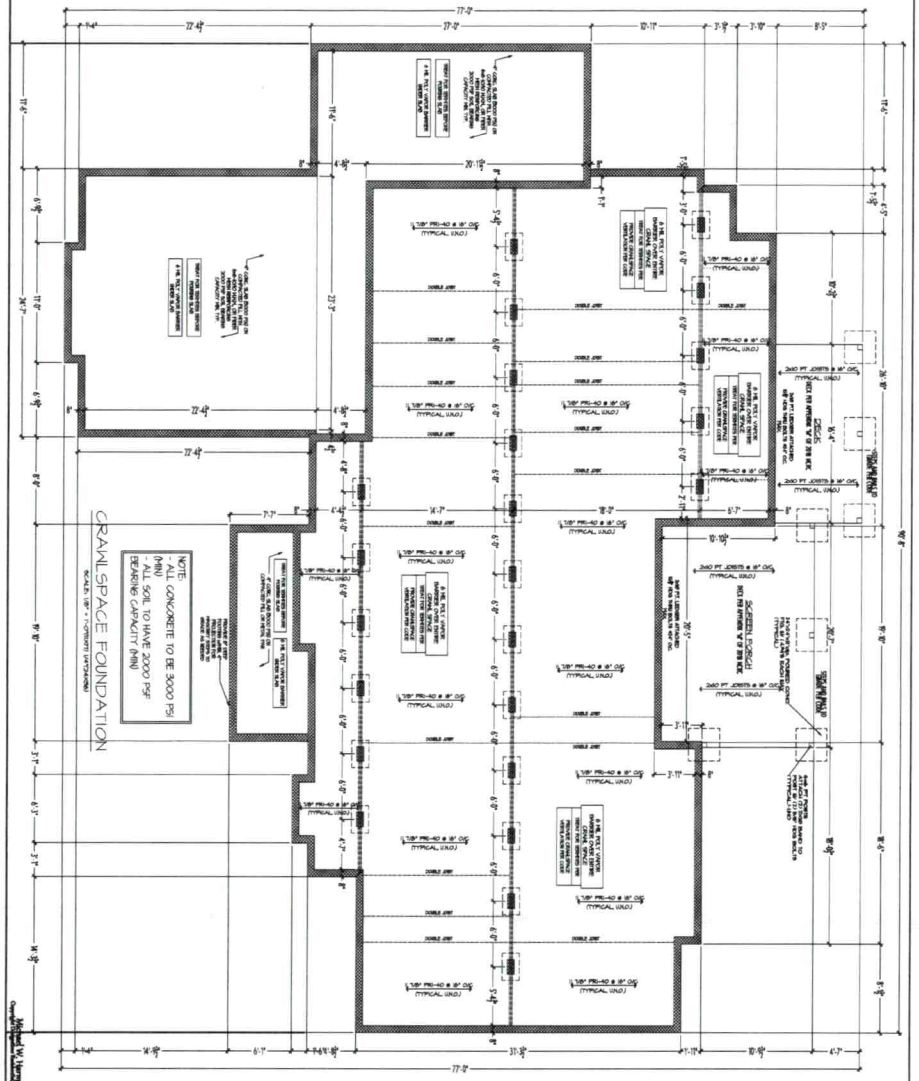
GENERAL NOTES

GENERAL STRUCTURAL NOTES

FRAMING LUMBER

1) Design loads are all dead loads plus:
a) Sleeping rooms _____ 30 PSF
b) All other floors _____ 40 PSF
c) Balconies _____ 60 PSF
d) Attic floor live loading with the following:
i) over accessible by ladder _____ 20 PSF
ii) Roof slopes < 3/12 _____ 30 PSF
iii) Roof slopes > 3/12 _____ 20 PSF
e) Roof live load _____ 20 PSF, or as required by code
f) Wind load _____ 110 MPH, or as required by code
2) All framing lumber shall be new, clean, sound, straight, and conform to the following grades as specified by the American Forest & Paper Association's National Design Specification for Wood Construction and the American Wood Council's Design Values for Wood Construction:
a) Joists, rafters, and beams: Douglas Fir-Larch, No. 2 or better
b) Studs: Douglas Fir-Larch, Stud or better
c) Plates, sills, sleepers, blocking, and miscellaneous framing: Douglas Fir-Larch, No. 2 or better
d) Timbers: Douglas Fir-Larch, No. 1 or better
e) Posts and timbers: Douglas Fir-Larch, No. 1 or better
f) Headers: Douglas Fir-Larch, No. 2 or better
g) Decking: Douglas Fir-Larch, No. 2 or better
3) All framing lumber shall be surfaced four sides (S4S) unless otherwise noted.
4) Moisture content of framing lumber shall be less than 19% horizontal distance less one foot.
5) Framing lumber in contact with concrete or less than 8" above exposed ground shall be pressure treated.
6) Provide double joists under all parallel partitions.
7) Provide solid blocking between joists at all supports, at cantilevers, at partitions perpendicular to joists, and at 8'-0" o.c. maximum spacing between supports.
8) Provide full depth bridging at mid-span for spans greater than 8'-0".
9) Provide joist header at all openings in floor framing. Openings 4'-0" or less in width may be framed with single header and trimmer joists. Openings greater than 4'-0" in width shall be framed with double header and trimmer joists.
10) Provide double joists under all bearing partitions.
11) Provide solid blocking at all floor joist bearings.
12) Provide double rafters at all ridges, hips, and valleys.
13) Provide collar ties at every third pair of rafters.
14) Provide solid blocking at all rafter bearings.
15) Provide double rafters at all openings greater than 4'-0" in width.
16) Provide double header and trimmer rafters at all openings.
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617) Provide 2x4 rib

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S1

CONST. NO.	
JOB NO.	2022-18
DRAWN BY:	MWH
CHECKED BY:	CAD
DATE:	2.15.22

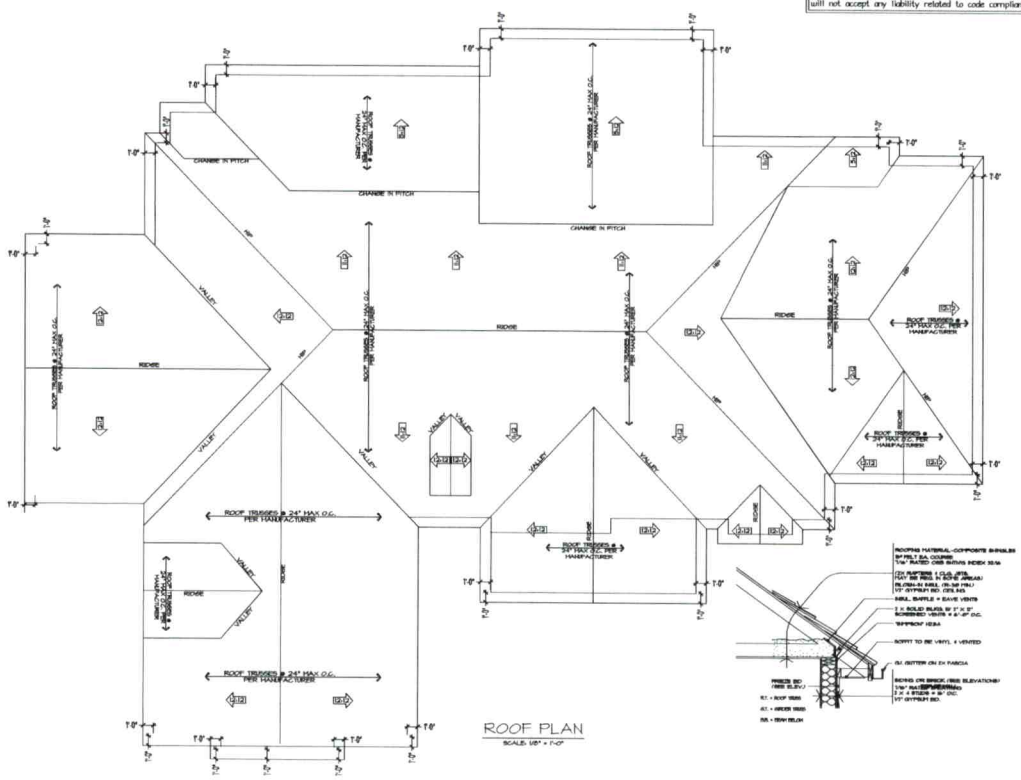
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ROOF PLAN

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

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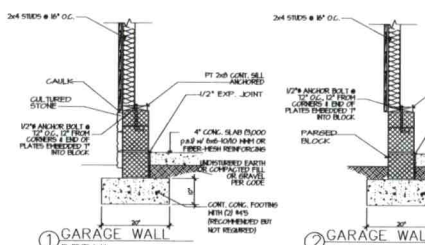
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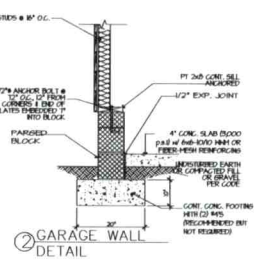
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CHECKED BY:	CAD
REVISIONS:	
DATE:	2.15.22

SHEET NO.
S2

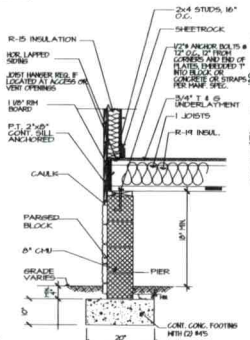
ALL WALL CONSTRUCTION TO COMPLY WITH R103



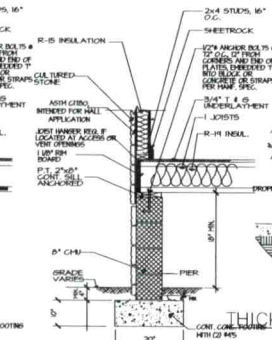
1 GARAGE WALL DETAIL



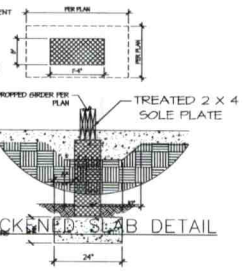
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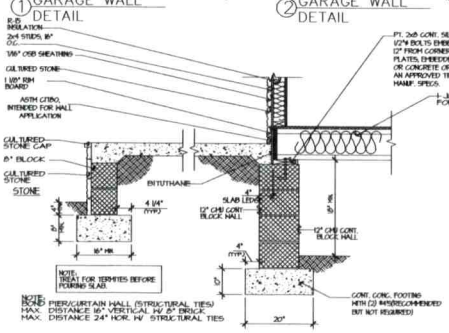
4 CURTAIN WALL DETAIL



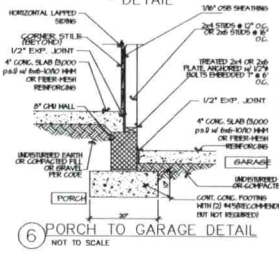
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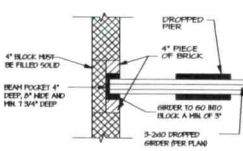
7 DROPPED PIER DETAIL



3 TYPICAL SLAB ON GRADE AT PORCH
NOT TO SCALE

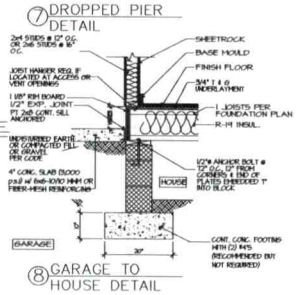


6 PORCH TO GARAGE DETAIL
NOT TO SCALE



*MINIMUM 2000 PSF SOIL BEARING CAPACITY
6 MIL P.V.B TYP. BELOW SLAB

ALL CONCRETE TO BE 3000 PSI MIN.



8 GARAGE TO HOUSE DETAIL

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Michael W. Herman
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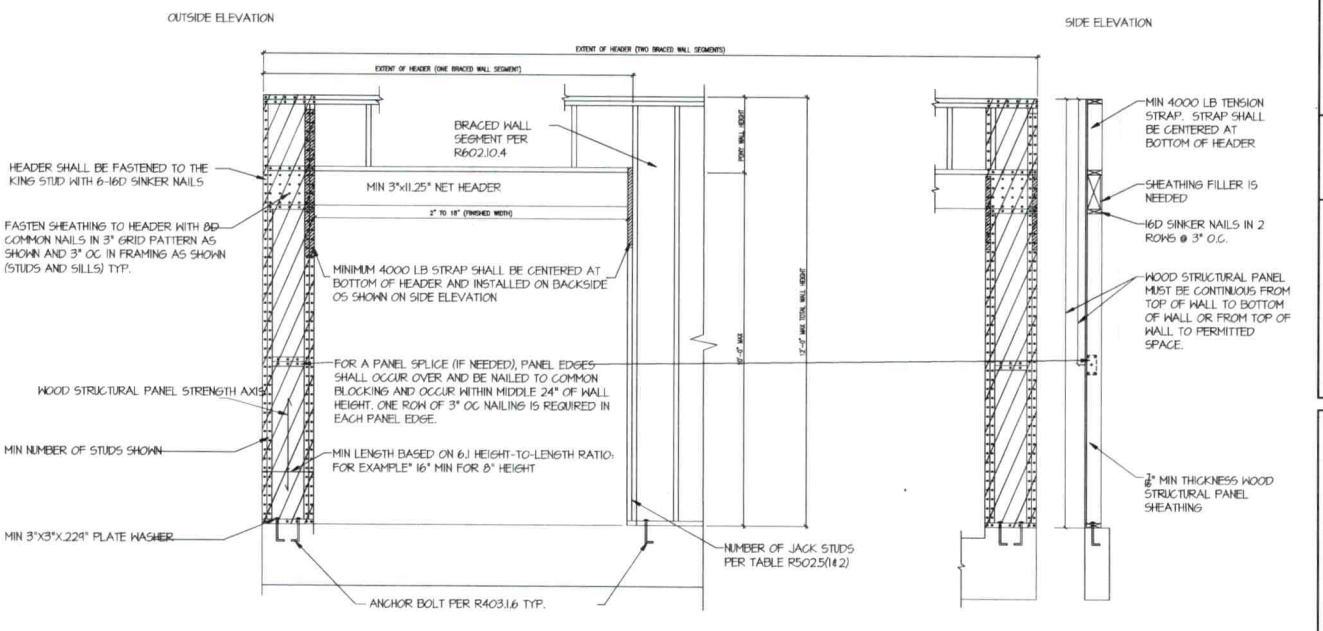
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CHECKED BY:	CMD
REVISIONS	
DATE	2.15.22

SHEET NO.
SD1



CS-PF METHOD: CONTINUOUSLY SHEATHED PORTAL FRAME-GARAGE DOOR GARAGE DOORS AND OPENINGS 8' AND GREATER

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SD2

CLIMATE ZONES	FENESTRATION U-FACTOR	SKYLIGHT [b] U-FACTOR	GLAZED FENESTRATION SHGC [b,e]	WOOD FRAMED WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT [c,i] WALL R-VALUE	SLAB [d] R-VALUE AND DEPTH	CRAWL SPACE [c] WALL R-VALUE
3	0.35	0.55	0.30	38 or 30 cont	13 or 17 + 2.5 [a]	6/13 or 8/10 cont	19	5/13 [f]	0	5/13
4	0.35	0.55	0.30	38 or 30 cont	15 or 13 + 2.5 [a]	6/13 or 8/10 cont	19	10/15	10	10/15
5	0.35	0.55	NR	38 or 30 cont	19 or 13 + 5 or 15 + 3	13/17 or 13/13.5 cont	30 [g]	10/15	10	10/18

TABLE N1102.1 CLIMATE ZONES 3–5

NO SCALE

a. R-VALUES ARE MINIMUMS. U-FACTORS AND SHGC ARE MAXIMUMS. WHEN INSULATION IS INSTALLED IN A CAVITY WHICH IS LESS THAN THE LABEL OR DESIGN THICKNESS OF THE INSULATION, THE INSTALLED R-VALUE OF THE INSULATION SHALL NOT BE LESS THAN THE R-VALUE SPECIFIED IN THE TABLE.

b. THE FENESTRATION U-FACTOR COLUMN EXCLUDES SKYLIGHTS. THE SOLAR HEAT GAIN COEFFICIENT COLUMN APPLIES TO ALL GLAZED FENESTRATION.

c. "10/13" MEANS R-10 CONTINUOUS INSULATED SHEATHING ON THE INTERIOR OR EXTERIOR OF THE HOME OR R-13 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL.

d. FOR MONOLITHIC SLABS, INSULATION SHALL BE APPLIED FROM THE TOP DOWNWARD AND EXTENDED TO THE BOTTOM OF THE FOOTING OR A MINIMUM OF 24" BELOW GRADE, WHICHEVER IS LESS. FOR FLOATING SLABS, INSULATION SHALL BE APPLIED FROM THE TOP DOWNWARD A MINIMUM OF 24" OR TO THE BOTTOM OF THE FOOTING.

e. DELETED.

f. BASEMENT WALL INSULATION IS NOT REQUIRED IN WARM-HUMID LOCATIONS AS DEFINED BY FIGURE R301.1 AND TABLE R301.1.

g. OR INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY, R-19 MINIMUM.

h. THE FIRST VALUE IS CAVITY INSULATION, THE SECOND VALUE IS CONTINUOUS INSULATION, SO "13+5" MEANS R-13 CAVITY INSULATION PLUS R-5 INSULATED SHEATHING. "13&17" MEANS R-13 CAVITY INSULATION PLUS R-5 INSULATED SHEATHING. IF STRUCTURAL SHEATHING COVERS MORE THAN 25% OF THE EXTERIOR OF THE EXTERIOR, WALLS SHALL BE CONSIDERED WOOD FRAME WALLS. "13 + 2.5" MEANS R-13 CAVITY INSULATION PLUS R-2.5 SHEATHING.

i. FOR MASS WALLS, THE SECOND R-VALUE APPLIES WHEN MORE THAN HALF THE INSULATION IS ON THE INTERIOR OF THE MASS WALL.

j. DELETED.

k. DELETED.

l. DELETED.

m. DELETED.

n. DELETED.

o. DELETED.

p. DELETED.

q. DELETED.

r. DELETED.

s. DELETED.

t. DELETED.

u. DELETED.

v. DELETED.

w. DELETED.

x. DELETED.

y. DELETED.

z. DELETED.

aa. DELETED.

bb. DELETED.

cc. DELETED.

dd. DELETED.

ee. DELETED.

ff. DELETED.

gg. DELETED.

hh. DELETED.

ii. DELETED.

jj. DELETED.

kk. DELETED.

ll. DELETED.

mm. DELETED.

nn. DELETED.

oo. DELETED.

pp. DELETED.

qq. DELETED.

rr. DELETED.

ss. DELETED.

tt. DELETED.

uu. DELETED.

vv. DELETED.

ww. DELETED.

xx. DELETED.

yy. DELETED.

zz. DELETED.

aaa. DELETED.

bbb. DELETED.

ccc. DELETED.

ddd. DELETED.

eee. DELETED.

fff. DELETED.

ggg. DELETED.

hhh. DELETED.

iii. DELETED.

jjj. DELETED.

kkk. DELETED.

lll. DELETED.

mmm. DELETED.

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rrr. DELETED.

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vvv. DELETED.

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xxx. DELETED.

yyy. DELETED.

zzz. DELETED.

aaaa. DELETED.

bbbb. DELETED.

cccc. DELETED.

dddd. DELETED.

eeee. DELETED.

ffff. DELETED.

gggg. DELETED.

hhhh. DELETED.

iiii. DELETED.

jjjj. DELETED.

kkkk. DELETED.

llll. DELETED.

mmmm. DELETED.

nnnn. DELETED.

oooo. DELETED.

pppp. DELETED.

qqqq. DELETED.

rrrr. DELETED.

ssss. DELETED.

tttt. DELETED.

uuuu. DELETED.

vvvv. DELETED.

wwww. DELETED.

xxxx. DELETED.

yyyy. DELETED.

zzzz. DELETED.

DRAWING INDEX

1.0 COVER SHEET
2.0 FIRST FLOOR PLAN
3.0 SECOND FLOOR PLAN
4.0 FRONT ELEVATION
5.0 RIGHT ELEVATION
6.0 LEFT ELEVATION
7.0 REAR RIGHT ELEVATION
GN GENERAL NOTES
S1 FOUNDATION PLAN
S2 ROOF PLAN
SD1 DETAILS
SD2 DETAILS

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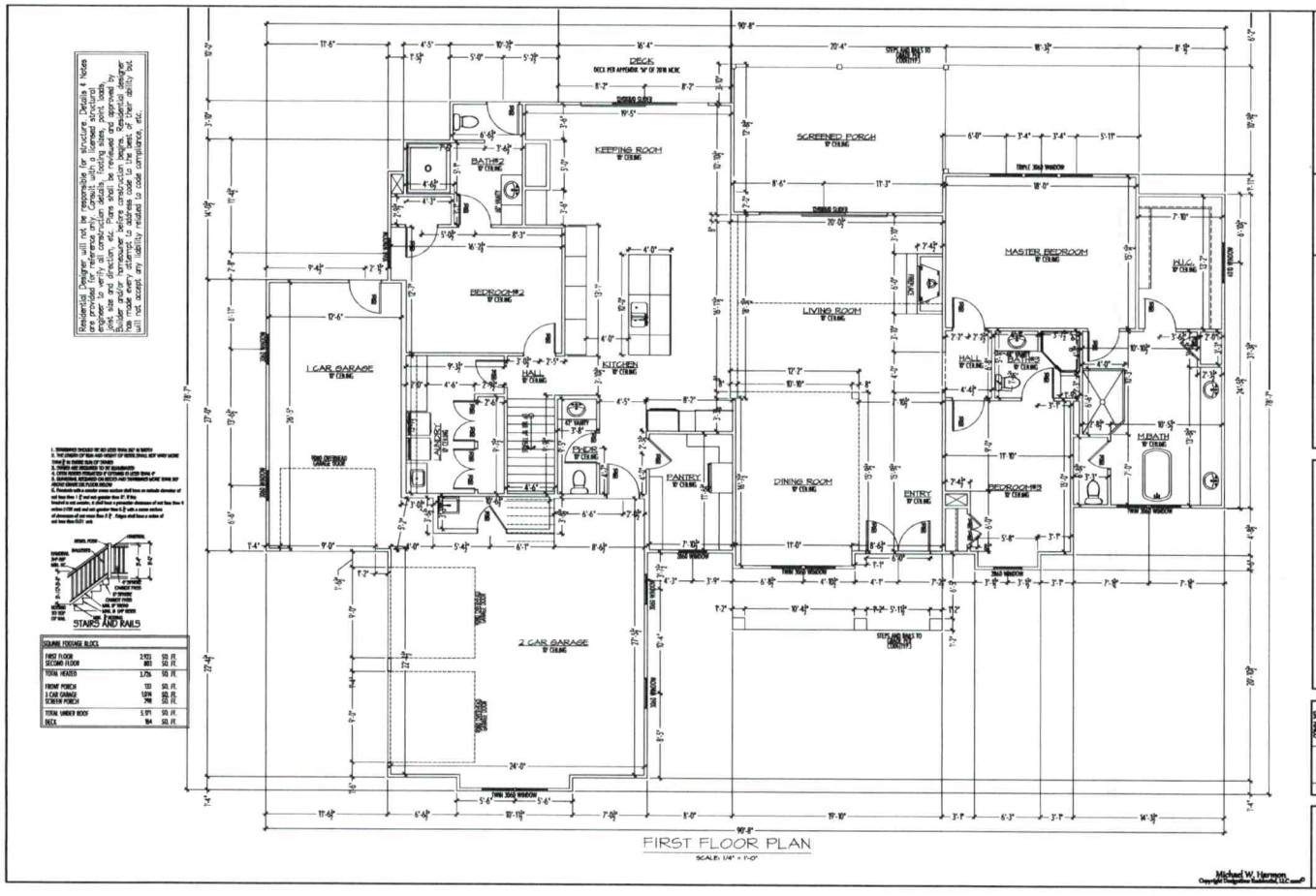
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SHEET NO.
1.0



FIRST FLOOR PLAN

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

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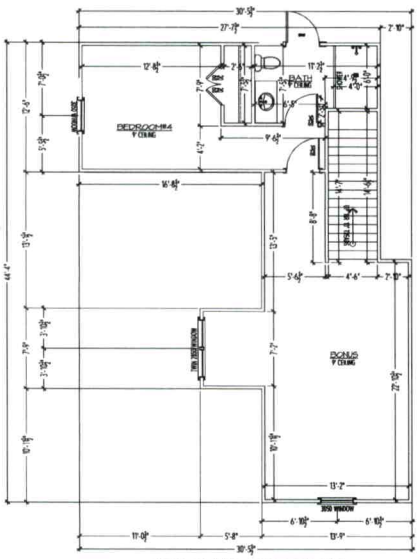
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SECOND FLOOR PLAN

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

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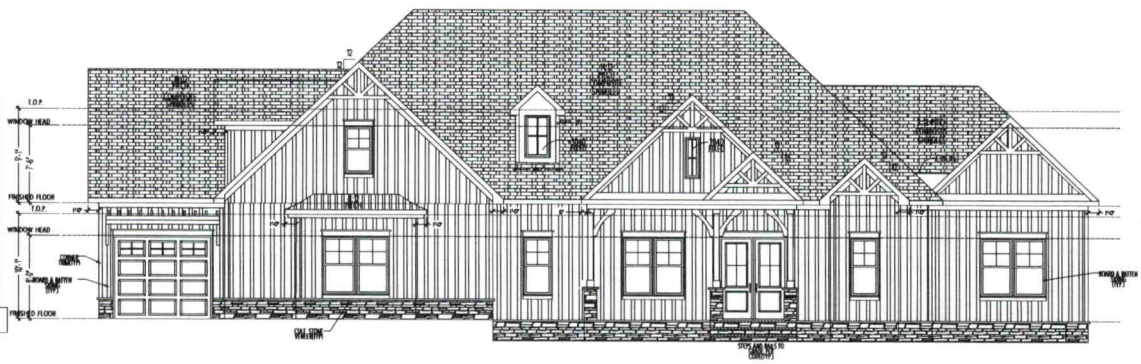
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ELEVATION NOTES

1. GRADE ELEVATIONS SHOWN DO NOT NECESSARILY REFER TO THIS OR ANY OTHER LOT. THEY ARE FOR DIAGRAMMATIC PURPOSES ONLY AND MAY VARY. BUILDER IS RESPONSIBLE FOR ADAPTING THIS PLAN TO SUIT THE EXISTING TOPOGRAPHY OF THE SITE.
2. WINDOW GRILLS SHOWN ARE TO SCHEMATICALLY EXPRESS DESIGN INTENT. ACTUAL STD. GRILLS MAY VARY PER MANUFACTURER OR CUSTOM GRILLS MAY BE REQUIRED. ANY VARIATIONS FROM THAT SHOWN MUST BE APPROVED BY BUILDER
3. ROOF VENTILATION TO BE DETERMINED BY BUILDER AS PER CODE
4. CONTRACTOR TO VERIFY LOCATIONS W/ OWNER
5. ALL CONSTRUCTION TO COMPLY WITH WITH NCRC 2018 RESIDENTIAL CODE

THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE CORRECT INSTALLATION OF ALL EXTERIOR FINISHES AND WEATHERPROOFING.

FRONT ELEVATION

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

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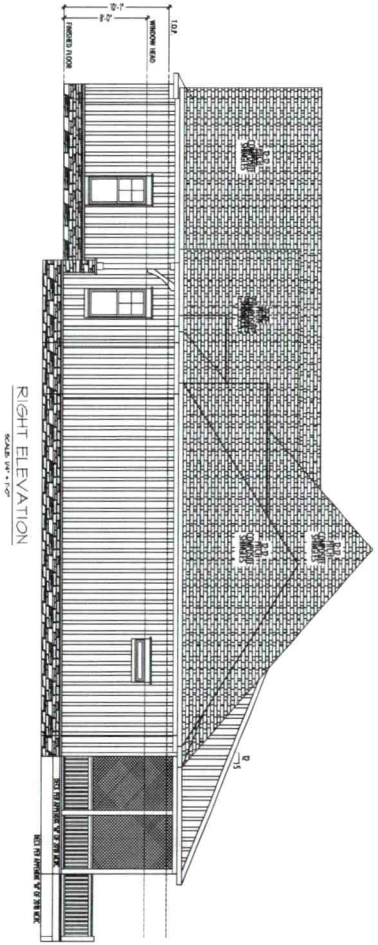
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RIGHT ELEVATION

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

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LEFT ELEVATION

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

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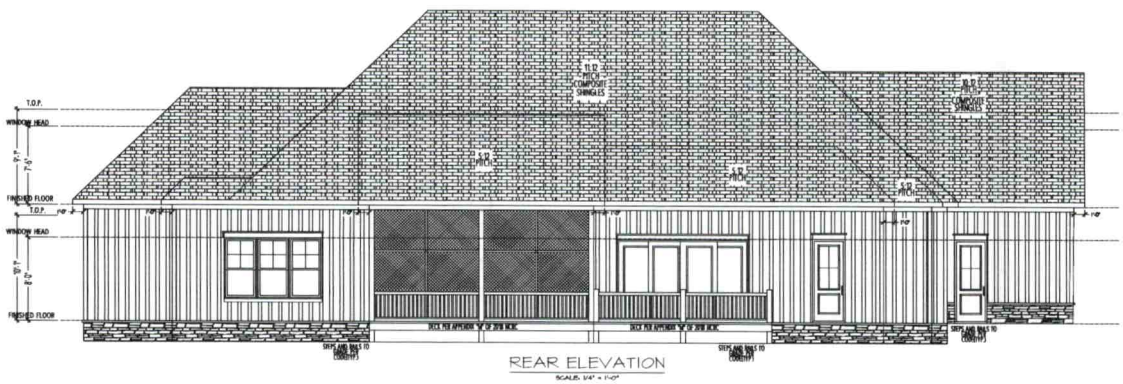
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REAR ELEVATION

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

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