### Door Schedule

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### Window Schedule

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ELECTRICAL SPECIFICATION

A. GENERAL
1. THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM TO THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL JURISDICTION REQUIREMENTS.

B. SHOP DRAWINGS
1. PROVIDE SHOP DRAWINGS FOR THE FOLLOWING ITEMS: LIGHTING FIXTURES, OCCUPANCY SENSORS, RECEPTACLES AND FIRE ALARM DEVICES.

C. EQUIPMENT AND DEFINITIONS
1. ALL ELECTRICAL EQUIPMENT SHALL BE UNDERWRITERS LABORATORIES LABEL.
2. UNLESS SPECIFICALLY NOTED ON THE PLANS ALL CIRCUITRY, EQUIPMENT, DEVICES, ETC., NOT NOTED EXISTING ON OR TO BE RELOCATED SHALL BE NEW.

D. JUNCTION BOXES LABELING REQUIREMENTS
1. ALL JUNCTION BOXES FOR BRANCH CIRCUITARY SHALL BE CLEARLY LABELED WITH PANEL DESIGNATION AND CIRCUIT NUMBERS.

E. PANELBOARDS
1. PROVIDE A TYPED CIRCUIT DIRECTORY FOR THE ENTIRE PANELBOARD REVISED UNDER THIS CONTRACT.
2. CONTRACTOR SHALL PHASE BALANCE ALL PANELBOARDS AS NECESSARY.
3. THE BRANCH CIRCUITS SHOWN FOR ITEMS SERVED AS INDICATED. CONTRACTOR SHALL FIELD COORDINATE ALL BRANCH CIRCUITS ACCORDINGLY.

F. BRANCH CIRCUITY SHOWN ON FLOOR PLAN CONNECTED TO A DESIGNATED CIRCUIT EXACT POSITION OF CIRCUIT BREAKER SHALL BE AFTER REMOVAL OF OUTLETS UNDER DEMOLITION. CONTRACTOR SHALL UTILIZE ALL GB'S BECOMING SPARE.

G. COLOR CODE: ALL WIRING SHALL BE COLOR CODED THROUGHOUT AS PER N.E.C. REQUIREMENTS.

H. LIGHTING FIXTURES
1. PROVIDE SHOP DRAWINGS FOR THE FOLLOWING ITEMS: LIGHTING FIXTURES, OCCUPANCY SENSORS, RECEPTACLES AND FIRE ALARM DEVICES.

I. BRANCH CIRCUITY AND FEEDER
1. ALL CONDUCTORS SHALL BE COPPER.
2. ALL BRANCH CIRCUITY AND FEEDER SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE (N.E.C.) LOCAL JURISDICTION AND LOCAL STATE CODE REQUIREMENTS. THE FOLLOWING ARE SOME ACCEPTABLE WIRING METHOD REQUIREMENTS.

II. BRANCH CIRCUITY AND FEEDER
1. PROVIDE GROUND TO ALL CIRCUITRY PER N.E.C. REQUIREMENTS.
2. PROVIDE CAPACITOR GROUNDING CONDUCTORS SIZE PER N.E.C. REQUIREMENTS.
3. PROVIDE EQUIPMENT GROUNDING CONDUCTORS SIZE PER N.E.C. REQUIREMENTS.

J. GROUNDING
1. PROVIDE GROUND TO ALL CIRCUITRY AND FEEDER.
2. PROVIDE CAPACITOR GROUNDING CONDUCTORS SIZE PER N.E.C. REQUIREMENTS.
3. PROVIDE EQUIPMENT GROUNDING CONDUCTORS SIZE PER N.E.C. REQUIREMENTS.

K. FIRE SEALANT MATERIALS
1. ANY PENETRATION TO THE FIRE WALLS. CONTRACTOR SHALL PROVIDE FIRE SEALANT MATERIALS AT EVERY POINT WHERE OCCURRED. FIRE SEALANT MATERIALS MANUFACTURER SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO APPLICATION.

L. WORK SCHEDULE
1. COORDINATE WITH ARCHITECT AND/OR OWNERS REPRESENTATIVE FOR WORK SCHEDULE REQUIREMENTS.

M. TESTING
1. AT THE TIME OF FINAL INSPECTION AND TEST ALL CONNECTIONS AND TERMINATIONS AT PANELBOARDS, DEVICES, ETC. AS WELL ALL PLUGS MUST BE ALL COMPLETED. EACH BRANCH CIRCUIT AND ITS RESPECTIVE CONNECTED EQUIPMENT MUST TEST FREE OF SHORT CIRCUIT COMPLETION OF THE WORK. CLEAN AND POLISH ALL EXPOSED SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

N. ELECTRICAL SYMBOLS

**EXIT LIGHTING FIXTURE ON EMERGENCY CIRCUITARY ARROWS AS INDICATED, FIXTURES TO COMPLY WITH LOCAL JURISDICTION REQUIREMENTS - SEE SCHEDULE**

**MOTOR HOISTED Switch with Thermal Overload**

**WALL MOUNTED DUPLEX RECEPTACLE - 2P, 3W, 125V, GROUNDED (HUBBELL #5362). COLOR OF DEVICE AND FACE PLATE SHALL BE AS SELECTED BY THE ARCHITECT. MOUNTING HEIGHT TO CENTERLINE ABOVE FINISHED FLOOR 18” UON.**

**WALL MOUNTED DOUBLE DUPLEX RECEPTACLE - 2P, 3W, 125V, GROUNDED (HUBBELL #5362). COLOR OF DEVICE AND FACE PLATE SHALL BE AS SELECTED BY THE ARCHITECT. MOUNTING HEIGHT TO CENTERLINE ABOVE FINISHED FLOOR 18” UON.**

**3-HORD BATTERY LIGHTING UNIT**

**JUNCTION BOX - CEILING OR WALL MOUNTED**

**SINGLE POLE SWITCH - ARROW HAT #9511. COLOR OF DEVICE AND FACE PLATE SHALL BE WHITE. MOUNTING HEIGHT TO CENTERLINE ABOVE FINISHED FLOOR 4” - 6”**

**BABOKE**

**CARBON MONOXIDE DETECTOR**

**SPECIAL OUTLET. COORDINATE EXACT NEMA CONFIGURATIONS OF OUTLET WITH OWNERS REPRESENTATIVE AND EXACT MOUNTING HEIGHT PRIOR TO Rough IN.
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GENERAL REQUIREMENTS:
1. PRIOR TO STARTING ANY WORK THE CONTRACTOR SHALL REVIEW THESE PLANS AND SITE CONDITIONS AND NOTIFY THE ENGINEER IF ANY DISCREPANCIES ARE DISCOVERED.
2. THE ENGINEER IS NOT RESPONSIBLE FOR THE SUPERVISION OF THE CONTRACT NOR HIS EMPLOYEES DURING THE CONSTRUCTION. IT IS CONTRACTOR'S RESPONSIBILITY TO PROVIDE MEANS AND ESTABLISH METHODS OF THE CONSTRUCTION TO MEET REQUIREMENTS OF ALL APPLICABLE CODES, INDUSTRY STANDARDS AND REQUIREMENTS OF THESE PLANS.
3. QUALITY OF THE WORK SHALL MEET OR EXCEED INDUSTRY STANDARDS.
4. ANY DISAVOWALS FROM THESE PLANS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER.

DESIGN DATA:
1. APPLICABLE BUILDING CODE: IRC RESIDENTIAL, 4TH EDITION (2017)
2. APPLICABLE DESIGN LOADS PER IBC 2018
- ROOF LIVE LOAD: 20 PSF
- FLOOR LIVE LOAD: 40 PSF
- ROOF LIVE LOAD: 20 PSF (AS ROOF DECK)
- ROOF LEGAL LOAD: 100 PSF
- WALLS:
  - EXTERIOR: 40 PSF
  - INTERIOR: 20 PSF
3. WIND PRESSURE ON COMPONENTS AND CLADDING (CH 30 PART 1)
- SCALE: NTS
- TYP: 3'-0" TYP.

GENERAL STRUCTURAL REQUIREMENTS:
1. STRUCTURAL STEEL COMPONENTS SHALL BE AS DESCRIBED IN "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDING ASGC 2014 OR LATER EDITION"
2. MINIMUM FOUNDATION DEPTH SHALL BE 24" UNLESS OTHERWISE IS SPECIFIED ON THE PLANS. IF CRUSH-EXCAVATED - FULL SHALL NOT BE PLACED BACK INTO THE TRENCH UNLESS APPROVED BY THE ENGINEER.
3. ALL FOUNDATIONS, SLABS AND FOOTERS SHALL BE PLACED ON STABILIZED UNDISTURBED SUBGRADE.
4. MINIMUM FOUNDATION DEPTH SHALL BE 24" UNLESS OTHERWISE IS SPECIFIED ON THE PLANS. IF CRUSH-EXCAVATED - FULL SHALL NOT BE PLACED BACK INTO THE TRENCH UNLESS APPROVED BY THE ENGINEER.
5. QUALITY OF THE WORK SHALL MEET OR EXCEED INDUSTRY STANDARDS.
6. ALL CONNECTORS SHALL HAVE STAINLESS STEEL SCREWS AND FASTENERS OR ACQ APPROVED TREATED SIMPSON PRODUCTS, UNLESS OTHERWISE SPECIFIED.

CONCRETE:
1. ALL REBAR SHALL BE DEFORMED CARBON-STEEL ASTM A615/A615M-13 GRADE 60 UNLESS OTHERWISE SPECIFIED ON THE PLANS.
2. ALL REQUIREMENTS FOR PLACEMENT, COVER, TOLERANCES, ETC. SHALL BE PER AASHTO M185-11.
3. QUALITY OF THE WORK SHALL MEET OR EXCEED INDUSTRY STANDARDS.
4. ANY DEVIATIONS FROM THESE PLANS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER.

WALLS:
1. ALL WOOD MEMBERS SHALL MEET OR EXCEED REQUIREMENTS SPECIFIED BY "ANSI/AF&PA NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION" AND ALL REFERENCED STANDARDS.
2. ALL WOOD MEMBERS SHALL BE PRESSURE TREATED SOUTHERN PINE NO1 OR GREATER-LINE DRIED AS SPECIFIED IN W/C STANDARDS, UNLESS OTHERWISE SPECIFIED.
3. ALL STEEL connectors that contact with concrete or steel shall be Pressure-Treated (PT) GRADE PER W/C STANDARDS.
4. ALL CONNECTORS SHALL HAVE STAINLESS STEEL SCREWS AND FASTENERS OR ACQ APPROVED TREATED SIMPSON PRODUCTS, UNLESS OTHERWISE SPECIFIED.
5. ALL CAST-IN-PLACE CONCRETE SHALL BE CURED AND PROTECTED FROM OVERDRYING PER ACI 305R-10.
6. SHEATHING SHALL BE 5/8" PT CDX PLYWOOD SHEATHING GRADE, UNLESS OTHERWISE IS SPECIFIED ON THE PLANS.
7. ALL FIELD CUTS IN PT LUMBER SHALL TREATED ON SITE.
8. TOP LAYER SHALL BE TWO (2) COAT POLYURETHANE (3.0 MILS DFT EACH).
9. COLORS SHALL MATCH EXISTING OR TO BE SELECTED BY THE OWNER.
10. ALL EXTERIOR WINDOWS SHALL BE LARGE AND SMALL MISSILE IMPACT RATED.
11. FLOOD RESISTANT DESIGN AND CONSTRUCTION ASCE 24-14

WIND PRESSURES:
1. THE FULFILLING WIND RESISTANCE SHALL BE PERFORMED.
2. LOAD FACTOR OF 0.6
3. STRUCTURAL STEEL, WOOD, AND THE COVER ARE FOR EXISTING.
4. TOP LAYER SHALL BE TWO (2) COAT POLYURETHANE (3.0 MILS DFT EACH).
5. ALL CONSTRUCTION MATERIAL SHALL BE PLACED IN 6"-8" LAYERS AND COMPACTED TO 98% DENSITY USING THE MODIFIED PROCTOR TEST.

SOILS AND FOUNDATIONS:
1. ALL FOUNDATIONS, SLABS AND FOOTERS SHALL BE PLACED ON STABILIZED UNDISTURBED SUBGRADE.
2. MINIMUM FOUNDATION DEPTH SHALL BE 24" UNLESS OTHERWISE IS SPECIFIED ON THE PLANS. IF CRUSH-EXCAVATED - FULL SHALL NOT BE PLACED BACK INTO THE TRENCH UNLESS APPROVED BY THE ENGINEER.
3. ALL WELDING SHALL BE IN CONFORMANCE WITH THE LATEST SPECIFICATIONS AWS D1.1/D1.1M:2017, STRUCTURAL WELDING CODE - STEEL.
4. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION MEASUREMENTS OF ALL EXISTING OPENINGS PRIOR TO THE SUPERVISION OF THE CONTRACTOR.
5. APPLICABLE CODE ACI 318 LATEST EDITION AND ACI 301.
6. ALL FOUNDATIONS, SLABS AND FOOTERS SHALL BE PLACED ON STABILIZED UNDISTURBED SUBGRADE.
7. ALL EXTERIOR WINDOWS SHALL HAVE FLORIDA PRODUCT APPROVAL AND NOA.
8. ALL CONCRETE ELEMENTS SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE SPECIFIED ON THE PLANS.
9. ALL WELDING SHALL BE IN CONFORMANCE WITH THE LATEST SPECIFICATIONS AWS D1.1/D1.1M:2017, STRUCTURAL WELDING CODE - STEEL.
10. ALL CONCRETE ELEMENTS SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE SPECIFIED ON THE PLANS.
11. ALL FOUNDATIONS, SLABS AND FOOTERS SHALL BE PLACED ON STABILIZED UNDISTURBED SUBGRADE.
12. ALL CONSTRUCTION MATERIAL SHALL BE PLACED IN 6"-8" LAYERS AND COMPACTED TO 98% DENSITY USING THE MODIFIED PROCTOR TEST.
13. THE STANDARDS, UNLESS OTHERWISE SPECIFIED.
14. ALL CONSTRUCTION MATERIAL SHALL BE PLACED IN 6"-8" LAYERS AND COMPACTED TO 98% DENSITY USING THE MODIFIED PROCTOR TEST.
15. THE STANDARDS, UNLESS OTHERWISE SPECIFIED.
16. ALL CONSTRUCTION MATERIAL SHALL BE PLACED IN 6"-8" LAYERS AND COMPACTED TO 98% DENSITY USING THE MODIFIED PROCTOR TEST.
SPLICE LENGTH FOR DEVELOPED BARS (L)

- For Grade 60, uncoated bottom reinforcement in normal weight concrete.
- For Grade 40 steel, multiply development/splice lengths by 0.67.
- For lightweight concrete, multiply development/splice lengths by 1.3.
- For top bars, multiply development/splice lengths by 1.3.
- All splices shall be staggered per Figure 1 below except footing and slab splices.

TYP. TENSION DEVELOPMENT AND SPlice LENGTHS

NOT TO SCALE

NOTES:
1. Development/splice lengths listed in tables above are for Grade 60, Grade 40 steel, and lightweight concrete. Bottom bar is defined as horizontal reinforcement with a min. of 12" of fresh concrete cast above development/splice length.
2. Minimum development/splice length is 12".
3. For Grade 60 steel, multiply development/splice lengths by 0.67.
4. For Grade 40 steel, multiply development/splice lengths by 1.3.
5. For lightweight concrete, multiply development/splice lengths by 1.3.
6. For top bars, multiply development/splice lengths by 1.3.
7. Top bar is defined as horizontal reinforcement placed such that more than 12" of fresh concrete is cast below development/splice length.
8. All splices shall be staggered per Figure 1 below except footing and slab splices.

TYP. CONC. WALL OPENING

NOT TO SCALE

FIGURE 1

GENERAL NOTES

SILL REINF. PER SCHED.

LINTEL BEAM REINF. PER SCHED.

TYP. 2-#5 x 4'-0" LONG TYP. CENTERED AT CORNER OF OPENING, TYP. ROUND OR RECTANGULAR HOLES LESS THAN 12" DO NOT NEED EDGE REINF.

WHERE DEVELOPMENT LENGTH CANNOT BE OBTAINED EXTEND AS FAR AS POSSIBLE AND PROVIDE STD. 90° HOOK.

2ND FLOOR DEVELOPMENT LENGTH PER SCHED.
6" 4000 PSI SLAB, W/ #6 REBAR @ 8" O.C. TOP & #5 REBAR @ 8" O.C. BOTTOM EACH WAY
1-1/2" COVER ALL SIDES FOR SLABS
2-5/16" X 16" TJI® 360 @ 16" OC W/IUS2.37/11.88 HANGER EACH END
3'-6" (2)"X16" PT WOOD LEDGER W/ (2) 3/4" DIA. HDG J-BOLT @ 12 O.C. STAGGERED
BOND BEAM
SEE PLAN
6" CORE BUILDDECK ICF SYSTEM
SEE SCHEDULE FOR REINFORCEMENT
CANTILEVERED DECK SECTION
4 X 16" TJI® 110 @ 16" OC W/IUS2.37/11.88 HANGER EACH END
5-3/4X10-3/4X1/2 STEEL PLATE @ 4' O.C.
(2) 12" INSUL-DECK PANEL, 4000 PSI CONCRETE W/ (2) #6 REBAR BOTTOM, #6 REBAR TOP (AS SHOWN)
3" CONCRETE SLAB THICKNESS AS SHOWN W/ 6x6 2.9x2.9 WELDED WIRE MESH
(4) 2X16 PT WOOD LEDGER W/ (2) 3/4" DIA. HDG THRU BOLT @ 16 O.C. STAGGERED
BOND BEAM
SEE PLAN
6" CORE BUILDDECK ICF SYSTEM
SEE SCHEDULE FOR REINFORCEMENT
CONCRETE SLAB & STEEL BEAM SECTION
W16XX36 BEAM
PDPAT-62KP fasteners installed into existing top flange nail holes
Steel header thickness:
¼" to ½" p = 0.46" min. for A36 steel
Header thickness
Point of PDPAT-62KP must penetrate through the steel header
Steel header thickness:
> ½" to ¾" p = 0.36" min. for A572 or A992 steel
ITS Installed on a Steel Header with Powder-Actuated Fasteners (MIT and BA similar)
BOND BEAM
SEE PLAN
6" CORE BUILDDECK ICF SYSTEM
SEE SCHEDULE FOR REINFORCEMENT
STEEL BEAM TO WALL CONNECTION DETAIL
ZIP ROOF SHEETING OVER GRACE HT UNDERLAYMENT ALL ATTACHED PER NOA

3/4" PT CDX SHEATHING PLYWOOD W/ 10D RING-SHANK NAILS @ 4" EDGES AND 6" IN FIELD USE CASE 1 PATTERN (3" O.C. ALL SUPPORTS IN ZONE 3)

ROOF SHEETING NOTES:
2X12 AND 2X8 PT WOOD BLOCKING

2X12 PT WOOD SUB-FASCIA BOARD

2X12 PT WOOD SLIPPED JOIST EACH RAFTERS

ZIP ROOF SHEETING OVER GRACE HT UNDERLAYMENT ALL ATTACHED PER NOA

3/4" PT CDX SHEATHING PLYWOOD W/ 10D RING-SHANK NAILS @ 4" EDGES AND 6" IN FIELD USE CASE 1 PATTERN (3" O.C. ALL SUPPORTS IN ZONE 3)

1 3/4 X 16" TJI® 110 RAFTERS @ 24" OC

5/8" PLYWOOD FILLER EACH SIDE 24" LONG

2-HETA20Z EMBEDDED TRUSS ANCHOR (4" INTO BEAM) @ 16" O.C.

VAPOR BARRIER

30# TAR PAPER

6" CORE BUILDDECK ICF SYSTEM

SEE SCHEDULE FOR REINFORCEMENT

BOND BEAM

SEE PLAN

2X12 PT WOOD LEDGER W/ (2) 3/4" DIA. HDG THRU BOLT @ 16" O.C. STAGGERED

ROOF SECTION

EMBEDMENT LINE
1. PATIO STRUCTURAL PLAN

2. PATIO ROOF FRAMING PLAN