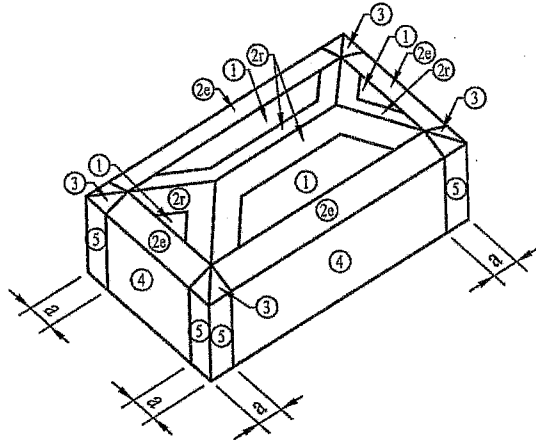
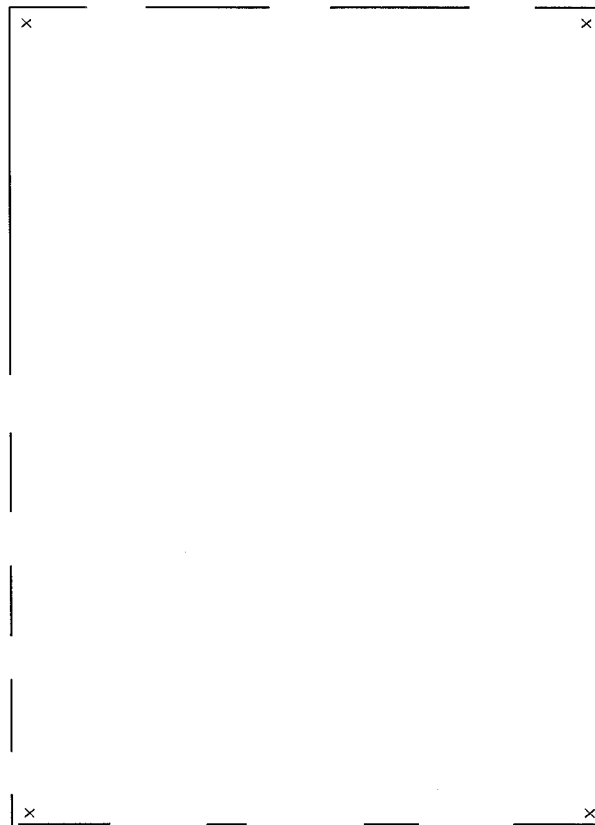


Wind Pressure Summary for C&C Zones based Upon Areas Ch 30 Pt 1 (Table 1 of 3)
All wind pressures include a load factor of 0.6

Zone	Figure	A = 2.00 sq ft psf	A = 4.00 sq ft psf	A = 10.00 sq ft psf
1	30.3-2C	11.16 -21.30	10.26 -21.30	9.60 -21.30
2e	30.3-2C	11.16 -21.30	10.26 -21.30	9.60 -21.30
2n	30.3-2C	11.16 -33.99	10.26 -33.99	9.60 -33.99
2r	30.3-2C	11.16 -33.99	10.26 -33.99	9.60 -33.99
3e	30.3-2C	11.16 -33.99	10.26 -33.99	9.60 -33.99
3r	30.3-2C	11.16 -47.93	10.26 -47.93	9.60 -39.65
4	30.3-1	14.96 -16.23	14.96 -16.23	14.96 -16.23
5	30.3-1	14.96 -20.04	14.96 -20.04	14.96 -20.04



Hip Roof ($7^\circ \leq \theta \leq 45^\circ$)



x = SIMPSON HTT4 CONNECTOR

SHEAR WALLS QUANTITY

TRANSVERSAL SHEARWALLS = 42'-0"

LONGITUDINAL SHEARWALLS = 80'-0"

PROFESSIONAL SERVICES BY

DRISCOLL ENGINEERING, INC.

PO BOX 357577

GAINESVILLE, FL 32609

PH (352) 331-1513

CA 8690

PLANS AND SPECIFICATIONS

The plans and specifications presented herein are applicable only for the anticipated construction at the locations shown. If construction plans change, the Design Professional should be notified so the plans and specifications can be re-evaluated. The Design Professional should be given the opportunity to review final plans and specifications to see if the intent of the plans and specifications has been followed and/or if supplemental details and recommendations are needed. The Design Professional warrants that the plans and specifications contained herein, have been prepared in accordance with generally accepted professional engineering practice. No other warranties are implied or expressed.

CORPORATE PROTECTION

It is understood and agreed that the Design Professional's Basic Services under this Agreement do not include project observation or review of the Contractor's performance or any other construction phase services, and that such services will be provided by the Client. The Client assumes all responsibility for interpretation of the contractor Documents and for construction observation and supervision and waives any claims against the Design Professional that may be in any way connected thereto.

In addition, the Client agrees, to the fullest extent permitted by law, to indemnify and hold the Design Professional harmless from any loss, claim or cost, including reasonable attorney's fees and costs of defense, arising or resulting from the performance of such services by other person or entities and from any and all claims arising from modifications, clarifications, interpretations, adjustments or changes made to Contract Documents to reflect changed field or other conditions, except for claims arising from the sole negligence or willful misconduct to the Design Professional.

OWNERSHIP OF INSTRUMENTS OF SERVICE

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by the Design Professional as instruments of service shall remain the property of the Design Professional. The Design Professional shall retain all common law, statutory and other reserved rights, including the copyright thereto.

DEFECTS IN SERVICE

The Client shall promptly report to the Design Professional any defects or suspected defects in the Design Professional's work or services of which the Client becomes aware, so that the Design Professional may take measures to minimize the consequences of such a defect. The Client warrants that he or she will impose a similar notification requirement on all contractors in his or her Client/Contractor contract and shall require all subcontractors at any level to contain a like requirement. Failure by the Client, and the Client's contractors or subcontractors to notify the Design Professional, shall relieve the Design Professional of the costs of remedying the defects above the sum such remedy would have cost had prompt notification been given.

VERIFICATION OF EXISTING CONDITIONS

Inasmuch as the remodeling and/or rehabilitation of an existing building requires that certain assumptions be made regarding existing conditions, and because some of these assumptions may not be verifiable without expending additional sums of money or destroying otherwise adequate or serviceable portions of the building, the Client agrees, to the fullest extent permitted by law, to indemnify and hold the Design Professional harmless from any claim, liability or cost (including reasonable attorney's fees and costs of defense) for injury or economic loss arising or allegedly arising out of the professional services provided under this Agreement, excepting only those damages, liabilities, or costs attributable to the sole negligence or willful misconduct of the Design Professional.



Digitally
signed by
Michael E.
Driscoll PE

Date:

2024.10.02

13:41:37

-04'00'

THIS ITEM HAS BEEN ELECTRONICALLY
SIGNED AND SEALED BY MICHAEL E.
DRISCOLL, P.E. USING A SHA AUTHENTICATION
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MICHAEL E DRISCOLL PE
FL REG # 43922

Certification

I hereby certify that the accompanying wind load analysis for a new residence demonstrates compliance with the FBC 2023 8th Edition Section 1609, to the best of my knowledge.

Project Wind load Information

1. Ultimate wind speed = 130 MPH
2. Nominal wind speed = 101 MPH
3. Risk Category = II
4. Wind exposure for this design is Exposure B
5. Interior Pressure Coefficient or Gcpi = +/- 0.18
6. For design of MWFRS: see attached MECAWind Version 2.1.0.6 per ASCE 7-22
7. Roof Design live load 20 psf.
8. Floor Design load 40 psf.

Drawings

See drawings for additional details. In case of conflict, the more restrictive requirements of the drawings or these calculations govern.

1. Roof Trusses: Pre-engineered wood roof trusses at 24" o.c. provided by WB Howland, Inc. Job# 24-1632
Signed & Sealed truss engineering shall be provided to Driscoll Engineering Inc for review prior to beginning construction.
2. Roof Sheathing: Sheathing to be or 15/32" Structural Sheathing or 7/16" osb. min. to adequately resist exterior shear and uplift forces due to nailing. Panels to be facenailed w/ #8 ring shank (0.113 Dia.) @ 6" oc along edges and @ 6" oc along interior supports. Galv. metal edging to be nailed @ 4" oc.
3. Roofing: Metal roof shall be installed per mfg. specifications to meet 130 m.p.h. windloading & in accord with the Florida Building Code 2023.

Exterior load bearing & shearwalls

- 1 Studs: Studs: 2 x 6 @ 16" o.c.
Governing load combination: dead + wind
Fv D+W = 55 psi
Fb D-W = 1900 psi
Use: SPF No. 2 grade or better

2. Shearwall Sheathing Minimum 7/16 structural sheathing, sheathing grade; attach all edges to framing with 8d common nails @ 6" o.c. attach to intermediate framing with 8d common nails @ 12" o.c. Sheathing shall be applied to outside face of all exterior frame walls. Use same nail pattern referenced above for non-shearwall segments also. Note that 8d common nails have a min 0.131 diameter.

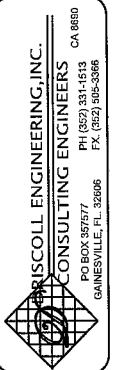
See this sheet for shearwalls & holdown locations for Simpson Holdown type & locations.

Headers

1. Wood headers @ windows, doors & porch 2- 2"x 12" #2 syp w/ 1/2" osb 6'-0" max

Foundations (sizes based on wind load requirements only :

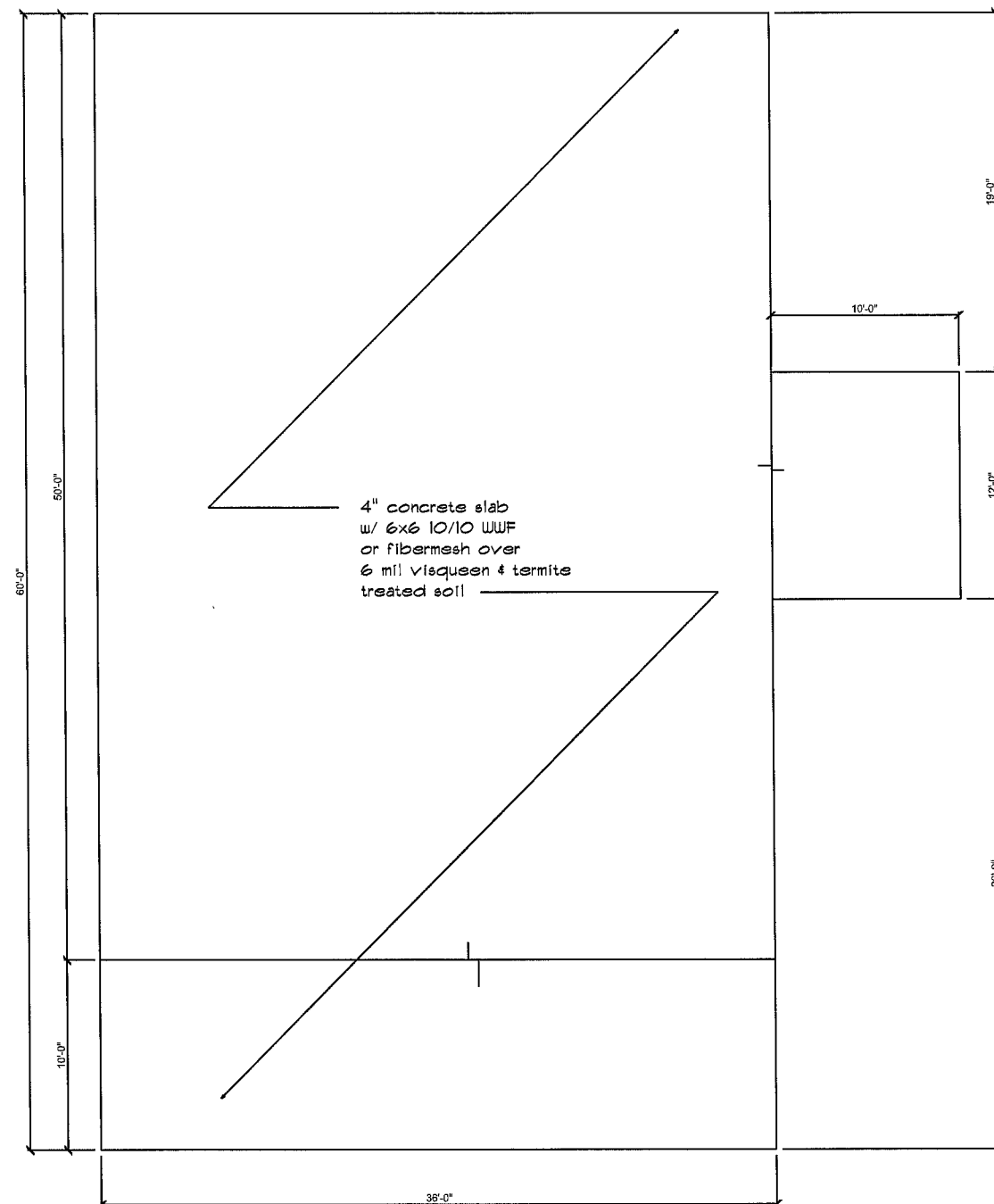
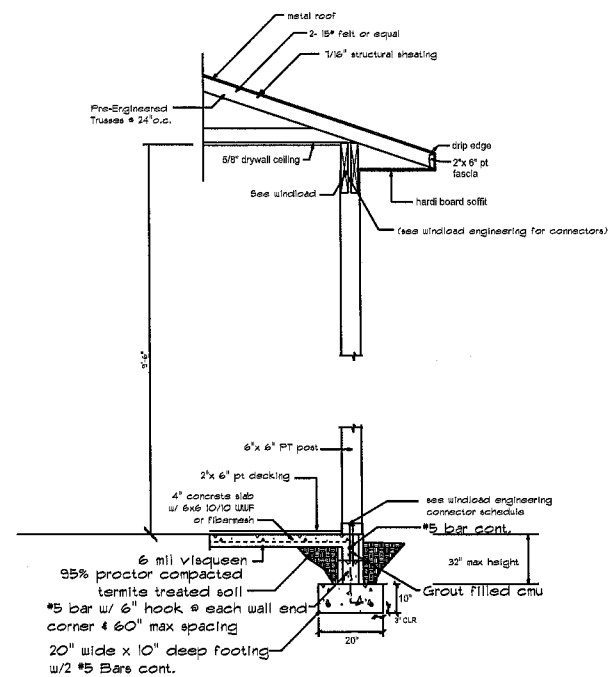
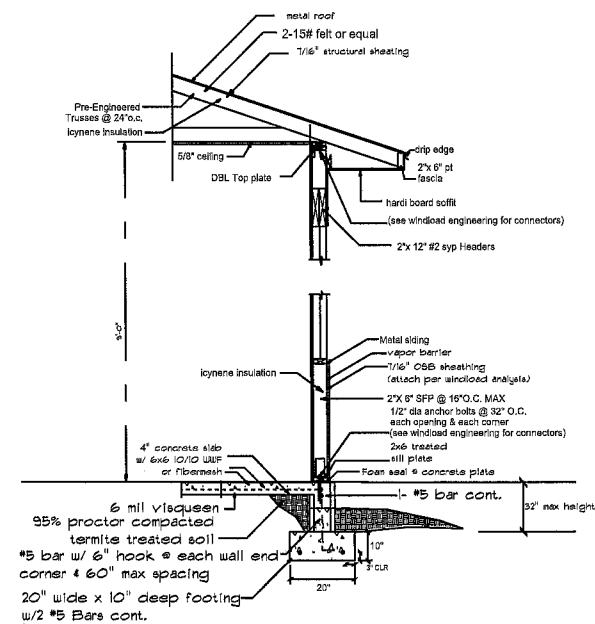
- (1) Stemwall footing: 20" wide x 10" deep w/ 2 #5 bars cont.
stem wall 1 #5 bar vertical @ each corner & 72" max spacing
6" 90 into slab & 24" into slab. max 32" ht.



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sheet
WL 1



concrete porches require 2% min.
slope from house

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Digitally signed by
Michael E. Driscoll PE
Date: 2024.10.02
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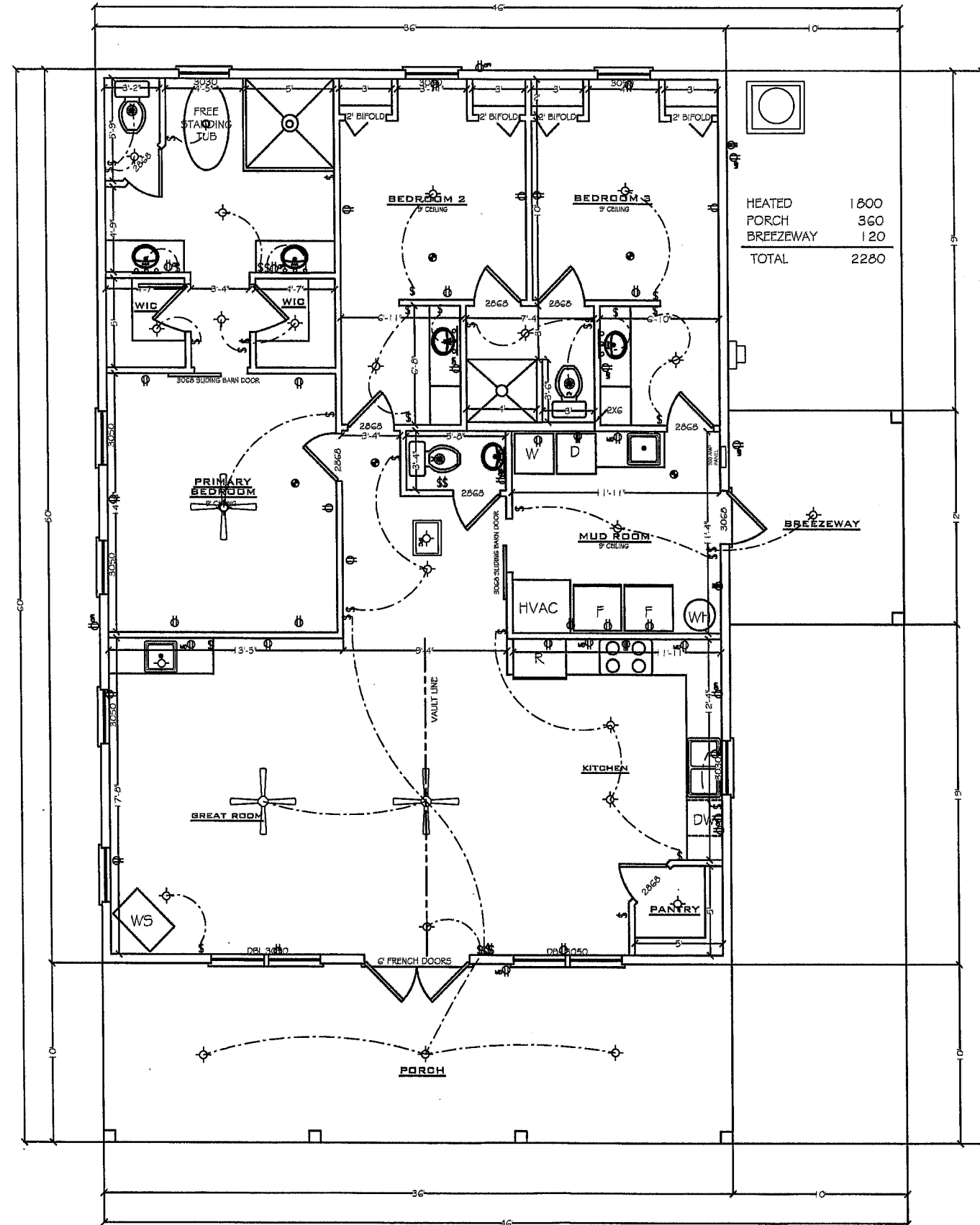


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 CA 8690
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 FX (352) 505-3366

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Fsheet



Electrical symbols	
	single pole switch
	dimmer switch
	3 way switch
	110 arc outlet tamper resistant
	220 OUTLET
	GFI outlet
	switched outlet
	std overhead light
	recessed light
	light / exhaust fan 80 cfm
	wall mount light fixture
	std overhead light
	double flood light
	track bar light
	vanity bar light
	fluorescent light
	ceiling fan - light
	smoke/ carbon monoxide detector
	phone outlet
	tv outlet
	THERMOSTAT

ELECTRICAL PLAN

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Sheet
EL