

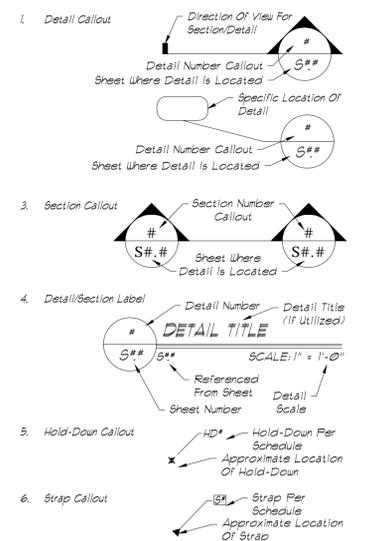
**FASTENER SCHEDULE**

The following are minimum fastener requirements for the conditions specified. Other nailing and/or fastening conditions may govern (i.e. top plate splices for shearwalls). See plans and other notes for conditions, locations and/or requirements which may exceed the minimums provided by this table. For fastening of manufactured products, refer to mfr recommendations.

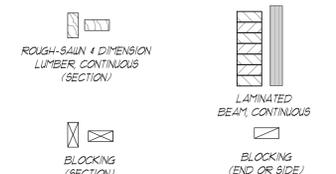
1. Jst to sill, bm or girder, TN	(3) 8d, (3) Ø13" x 3" nails, (3) 14 Ga x 3" staples
2. Bridging to jst, TN Ea end	(2) 8d, (2) Ø13" x 3" nails, (2) 14 Ga x 3" staples
3. 1x6 or less subfr to Ea jst, FN	(2) 8d
4. Wider than 1x6 subfr to Ea jst, FN	(3) 8d
5. 2x subfr to jst, bm or girder, blind 4 FN	(2) 16d
6. Sill E to jst or blk, FN	16d @ 16", Ø13" x 3" nails @ 8", 14 Ga x 3" staples @ 12"
7. Sill E to jst or blk at braced wall panels	(3) 16d @ 16", (4) Ø13" x 3" nails @ 16", (4) 14 Ga x 3" staples @ 16"
8. Stud to sill E, TN	(2) 16d, (3) Ø13" x 3" nails, (3) 14 Ga x 3" staples
9. Stud to sill E, EN	(4) 8d, (4) Ø13" x 3" nails, (3) 14 Ga x 3" staples
10. Dbl stud, FN	16d @ 24", Ø13" x 3" nails @ 8", 14 Ga x 3" staples @ 8"
11. Dbl top E's, FN	16d @ 16", Ø13" x 3" nails @ 8", 14 Ga x 3" staples @ 12"
12. Dbl top E's, lap splice	(8) 16d, (12) Ø13" x 3" nails, (12) 14 Ga x 3" staples
13. Blkg btwn jsts or rafters to top E, TN	(3) 8d, (3) Ø13" x 3" nails, (3) 14 Ga x 3" staples
14. Rim jst to top E, TN	8d @ 6", Ø13" x 3" nails @ 6", 14 Ga x 3" staples @ 6"
15. Top E's, laps 4 intersections, FN	(2) 16d, (3) Ø13" x 3" nails, (3) 14 Ga x 3" staples
16. Cont hor, (2) pieces	16d @ 16" along edge
17. Cing jst to E, TN	(3) 8d, (5) Ø13" x 3" nails, (5) 14 Ga x 3" staples
18. Cont hor to stud, TN	(4) 8d
19. Cing jst, laps o/partitions, FN	(3) 16d, (4) Ø13" x 3" nails, (4) 14 Ga x 3" staples
20. Cing jst to parallel rafters, FN	(3) 16d, (4) Ø13" x 3" nails, (4) 14 Ga x 3" staples
21. Rafter to E, TN	(3) 8d, (3) Ø13" x 3" nails, (3) 14 Ga x 3" staples
22. 1x diag brace to Ea stud 4 E, FN	(2) 8d, (3) Ø13" x 3" nails, (3) 14 Ga x 3" staples
23. 1x6 shg to Ea brng, FN	(3) 8d
24. Wider than 1x6 shg to Ea brng, FN	(3) 8d
25. Built-up corner studs	16d @ 24", Ø13" x 3" nails @ 16", 14 Ga x 3" staples @ 16"
26. Built-up girders 4 bms FN TAB, stgd, OS	20d @ 32", Ø13" x 3" nails @ 24", 14 Ga x 3" staples @ 24"
27. Built-up girders 4 bms, FN @ ends 4 Ea splice	(2) 20d, (3) Ø13" x 3" nails, (3) 14 Ga x 3" staples
28. 2x planks @ Ea brng	16d
29. Collar tie to rafter, FN	(3) 10d, (4) Ø13" x 3" nails, (4) 14 Ga x 3" staples
30. Jack rafter to hip, TN	(3) 10d, (4) Ø13" x 3" nails, (4) 14 Ga x 3" staples
31. Jack rafter to hip, FN	(2) 16d, (3) Ø13" x 3" nails, (3) 14 Ga x 3" staples
32. RF rafter to 2x ridge bm, TN or FN	(2) 16d, (3) Ø13" x 3" nails, (3) 14 Ga x 3" staples
33. Jst to band jst, FN	(3) 16d, (4) Ø13" x 3" nails, (4) 14 Ga x 3" staples
34. Ledger strip, FN	(3) 16d, (4) Ø13" x 3" nails, (4) 14 Ga x 3" staples
35. Wall struct panels 4 particleboard, subfr, rf 4 wall shg to framing	1/2 thk 4 less
36. 1/2 thk 4 less	6d @ Ø11 3/4" x 2 3/8" nail, 16 Ga x 1 3/4" staples @
37. 3/4 thk 4 less	8d or 6d def, Ø13" x 2 3/8" nail @ 4'10", 16 Ga x 2" staple @ 4'10"
38. 7/8 thk 4 less	8d common or def
39. 1 1/4 thk 4 less	10d or 8d
40. Wall struct panels 4 particleboard, single fr	1/2 thk 4 less
41. 1/2 thk 4 less	6d def
42. 3/4 thk 4 less	8d def
43. 7/8 thk 4 less	10d common or 8d def
44. Panel siding to framing	1/2 thk or less
45. 1/2 thk or less	6d corrosion-resistant siding or casing nail
46. 3/8 thk	8d corrosion-resistant siding or casing nail
47. Fiberboard shg to framing	1/2 thk
48. 1/2 thk	11 Ga x 1 1/2" roofing nail, 6d common, 16 Ga x 1 1/2" staple 1
49. 3/8 thk	11 Ga x 1 3/4" roofing nail, 8d common, 16 Ga x 1 1/2" staple 1
50. Interior paneling to framing	1/4 thk
51. 1/4 thk	4d casing or finish nails @ 6" EN/12" FN
52. 3/8 thk	6d Panel supports @ 24", casing or finish nails @ 6" EN/12" FN

**NOTES:**  
 a. Where EN & FN are noted, such may be designated as EN/FN @ 6" FN @ 12" unless otherwise noted, common or box nails permitted for all conditions. All staples shall have 1/4" min crown width.  
 b. Unless otherwise noted common or box nails permitted for all conditions. All spikes shall have 1/4" min crown width.  
 c. Nails spaced @ EN/12" FN except 6" FN where FN supports span 48" or more.  
 d. Common or deformed shg.  
 e. 8d nails req'd min for wood struct panel rf shg.  
 f. Fasteners spaced @ 4" EN/8" FN for subfr, 4 wall shg, 3" EN/6" FN for rf shg.  
 g. Corrosion-resistant roofing nails w/ 1/4" head.  
 h. Corrosion-resistant staples w/ 1/4" crown. FN supports @ 16".  
 i. Fasteners spaced @ 3" EN/6" FN when used as structural shg. Spacing shall be @ 6" EN/12" FN for non-struct application.  
 j. Fasteners spaced @ 3" EN/6" FN when used as structural shg. Spacing shall be @ 6" EN/12" FN for non-struct application.

**TYPICAL SYMBOLS**



**LUMBER LEGEND**



**TYPICAL CONSTRUCTION NOTES**

- All manufactured hardware and framing materials identified in these plans may be substituted for similar materials manufactured by others, provided all such substitutions are with materials of at least equal capacity as those specified in these plans. All such substitutions shall be submitted to the EOR prior to their use and/or installation.  
 \*Hardware manufactured by USP Structural Connectors may be used without prior approval of the Engineer-Of-Record, provided the strength requirements as previously described are met.
- As a minimum, the following shall be used, unless otherwise noted within these plans:
  - Sill Plates
    - All sill plates in contact with concrete shall be #7 DF #1 (Min) with a bolt between 6" and 9" from the end of each piece of sill plate, with two (2) bolts (Min) per sill plate. Sill plates of other wood products are prohibited.
    - Sill plates shall be anchored to concrete w/ #6 @ (min) anchor bolts embedded at least 10" and spaced at no more than 48" oc.
    - Double top plates shall be spliced with a minimum of (8) 10d nails at each side of each top- and bottom-piece joint splice. Concurrent splice joints shall be no closer than 48".
    - Shearwalls: All exterior walls shall be sheathed and nailed to match the minimum shearwall type per the shearwall schedule or plan notes, as applicable.
    - Post Alternate - Unless otherwise noted, it is acceptable to use built-up 2x studs in place of solid-sawn posts not exposed to weather, provided the following criteria are met:
      - The built-up section members are of the same material & grade as the post required, including pressure-treated where specified (see "TIMBER SPECIFICATIONS," this sheet.)
      - The built-up section is at least as large as the identified post section.
      - The built-up section members are sistered together with 16d nails spaced at no more than 12" oc, staggered, and driven at varying angles to tie each 2x ply to adjacent plys.
      - The ends of the built-up member are cut flush for full and uniform bearing.
      - Where a mechanical base or cap is required, the built-up section shall be either routed or shaved for proper fit-up. Another suitable base or cap may be used, provided capacities meet or exceed those of the base or cap specified.
      - Construction adhesive is applied between plys in addition to the sistering nails.

**TIMBER SPECIFICATIONS**

- All timber grades as specified in these notes are deemed acceptable to use, provided that better quality (i.e. higher strength) without first obtaining approval from the EOR for any such variance.
    - Timbers of nominal width equal to or larger than 4" shall not contain bowed hearts (i.e. "tree-of-heart-center," or FOHC), unless noted "No FOHC OK" in these plans.
    - All Douglas-Fir (DF) Products shall be graded by the Western Wood Products Association Grading Rules and any applicable ASTM standards (i.e. ASTM D245).
    - All load-bearing and shearwall framing shall be no less than Douglas-Fir #2. All studs 10'-0" to 14'-0" shall be Douglas-Fir #1. All studs 14'-0" and longer shall be manufactured 20E grade or equivalent.
    - All sawn beams 4 headers less than 10'-0" shall be Douglas-Fir #2, or Douglas-Fir #1 for spans 10'-0" or longer, unless noted otherwise.
    - All glue-laminated beams shall be 24F-V4 DF/DF. All multi-span 4 cantilever GLB's shall be 24F-V8 DF/DF.
    - All posts shall be Douglas-Fir #1 or Better, or manufactured 20E equivalent where manufactured studs are required.
    - No notching of timber products is allowed, unless otherwise noted in these plans or subsequently-issued via approved addendums or sketches. Any such addendums or sketches shall be accompanied by the wet stamp and signature of the EOR.
    - Holes in framing members not in conformance with the following criteria require consultation w/EOR for adequacy and/or mitigation:
 

Holes in horizontal framing members shall be limited to square or round holes with nominal width/diameter not exceeding one third the depth of the framing member. Such holes shall be located vertically within the center third portion of the framing member, spaced no closer than 3x the larger nominal hole width/diameter, and located horizontally within the center third of spans between supports.
    - Fasteners in preservative-treated and fire-retardant-treated wood shall be of hot dipped zinc-coated galvanized steel, stainless steel, silicon bronze or copper.
      - Steel washers shall be provided under heads and nuts of all lag screws and bolts which bear on wood. The following minimum requirements shall be followed for sizing of washers to be used in sill plate applications:
 

Bolt/Lag Diameter	Steel FL Washer Size	Malleable Iron Washer Size
1/4"	2" Sq x 1/4"	2 1/2" Dia x 1/4"
3/8"	2 1/2" Sq x 1/4"	2 3/4" Dia x 3/8"
1/2"	3" Sq x 3/8"	3" Dia x 1/2"
3/4"	3 1/2" Sq x 3/8"	3 1/2" Dia x 3/8"
1"	3 3/4" Sq x 3/8"	4" Dia x 1/2"
- For structures classified as "Seismic Design Category" D, E or F (See General Notes) this page), or for shearwalls where the design load exceeds 490 pounds per linear foot (plf), washers shall not be smaller than 3" Sq x 3/8" FL.
- \*Standard cut washers may be used for all other applications, unless noted otherwise in these plans.

**GENERAL STRUCTURAL NOTES**

- The Contractor shall verify all field dimensions prior to fabrication & erection.
- If there are any omissions, errors or discrepancies discovered within these plans (i.e. dimension conflicts), contact the Architect or Engineer of Record for clarification and/or correction prior to continuing with construction.
- All plan dimensions as indicated on these plans or on architectural plans are assumed to be from face of studs or face of concrete UNO.
- Design Loading Criteria
 

4.1. Roof:	Dead	12 psf
	Live (4.1.2)	20 psf
	Snow	100 psf
Floor:	Dead	12 psf
	Live	50 psf
Walls:	Exterior 4 Thermal:	12 psf
	Interior	10 psf
4.2. Risk Cat:	II	
4.3. Wind:	Ult. Speed (IBC)	105 mph
	Exposure	C
	Roof Pitch	4:12
	K <sub>z</sub> = 100	w = 100
4.4. Seismic:	Lat. - 43.862023° N	Long. - 111.020334° W
	Site Class = D	Des. Cat. = D
	S <sub>s</sub> = 1.05	S <sub>DS</sub> = 0.884
	S <sub>1</sub> = 0.340	S <sub>D1</sub> = 0.365
	I <sub>e</sub> = 1.00	I <sub>e</sub> = 1.00
	R <sub>us</sub> = 6.5	C <sub>us</sub> = 0.16

**FOUNDATION NOTES**

- Minimum allowable soil pressures, per IBC:
 

1. Dead + Live	5000 psf
2. Dead + Live + Wind/Earthquake	10000 psf
- All recommendations shall be implemented as indicated within the Geotechnical report in its entirety. Covenant Engineering shall not be responsible for any negative effects, damage or other detrimental results related to inadequate or uncompacted soil and/or backfill conditions or failure to properly implement Geotechnical recommendations.

**STRUCTURAL REFERENCE CODES**

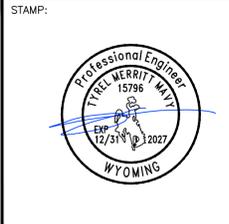
- \*\*\*\* All work to be performed under these project plans shall conform to the following applicable codes and any applicable supplements and amendments:
- 2024 International Building Code
  - ASCE 7-22 Minimum Design Loads for Buildings and Other Structures
  - ACI 318-19 Building Code and Commentary (Concrete)
  - ANSI/AIA/FPA NDS-2018 National Design Specification for Wood Construction
  - ANSI/AIA/FPA SDC/FAS 2021 Special Design Provisions For Wind & Seismic

**SAFETY NOTES**

- It is the Contractor's responsibility to comply with all federal and state regulations regarding maintaining a safe work environment and performing work in a safe manner. It is the Contractor's responsibility to be aware and comply with all OSHA requirements that may apply to this construction project.

**TYPICAL STRUCTURAL ABBREVIATIONS**

AB	Anchor Bolt	Dwl	Dowel	LLV	Long Leg Vertical	SDBT	Self Drilling Self Tapping Screw
Abv	Above	(E)	Existing	LP	Louisiana Pacific Corp.	LP	Louisiana Pacific Corp.
Adh	Adhesive	Es	Each	Lt	Light	Sh	Sheet
Adj	Adjacent, Adjust	Elev	Elevation	LWC	Li Weight Concrete	Shg	Sheathing
Adj1	Additional	EN	Edge or End Nailing	MB	Machine Bolt	Sh	Sheet
AF	Above Finish	Engr	Engineered	Mx	Maximum	SLV	Short Leg Vertical
Arch	Architect(ural)	EO	Edge Of	Mfr	Manufacturer	SMS	Sheet Metal Screw
BCI	Boise Cascade Inc.	EOR	Engineer Of Record	Manuf	Manufactured	SOG	Slab-On-Grade
Blgd	Building	Eq	Equal	Min	Minimum	Spec	Specification(s)
Blk	Block	ES	Each Side	Mtl	Metal	SS	Stainless Steel
Blkg	Blocking	EW	Each Way	(N)	New	Std	Standard
Blv	Below	Exp	Expansion	No.#	Number	Stgr	Staggered
BFF	Below Finish	Ext	Exterior	NS	Near Side	Stiff	Stiffener
Bm	Beam	FF	Finish Floor	NTS	Not To Scale	Stl	Steel
BN	Boundary Nailing	FG	Finish Grade	NWC	Normal Weight Concrete	Struct	Structural
BO	Bottom Of	FR	Floor	oc	On Center	Sq	Square
Bolt	Bottom	FN	Field or Face Nailing	OD	Outside Diameter	T&B	Top & Bottom
Brg	Bearing	Fdn	Foundation	Opn	Opening	T&G	Tongue & Groove
Btwn	Between	FO	Face Of	Opp	Opposite	TF	Top Flange
Bvnd	Beyond	FOHC	Free Of Heart Center	OS	Opposite Side(s)	Trk	Thick(enedness)
c	Center	Frm	Frame Framing	Par	Parallel	TJI	Trus-Joist Inc.
CJ	Construction Joint	FS	Far Side	Perp	Perpendicular	TO	Top Of
CL	Center Line	FG	Footing	PDF	Powder Driven Fastener	Trans	Transverse
Cg	Ceiling	Gal	Gauge	Plt	Plate	Transv	Transverse
Cl	Clear	GLB	GLU-Laminated Beam	Plywd	Plywood	Typ	Typical
CMU	Concrete Masonry Unit	(H)	Hilti Corp	Press	Pressure	(U)	Unistrut Corp.
Col	Column	HD	Hold-Down	psf	Pounds per Square	UNO	Unless Noted Otherwise
Conc	Concrete	Hdr	Header	Foot	Foot	URM	Unreinforced Masonry
Conn	Connect, Connection	Hgr	Hanger	psf	Pounds per Square Inch	UW	Open Web Joist
Cont	Continuous	HS	Hook	PT	Pressure Treated, Post	Vert	Vertical
Count	Countersink	Horiz	Horizontal	Pt	Post	W	Width
Ø	Diameter	Ht	Height	Fur	Furlin	w/o	Without
Diag	Diagonal	ID	Inside Diameter	Rad	Radius	WF	Wide Flange
Dbl	Double	Incl	Included	Reinf	Reinforcing	WP	Work Point
Demo	Demolition	Int	Interior	Reinf	Reinforcement	WS	Wood Screw
Det	Detail	ITW	ITW Red Head Corp.	Reqd	Required	Wt	Weight
DF	Douglas Fir	JH	Joist Hanger	(S)	Simpson Strong Tie	WLF	Welded Wire Fabric
Diag	Diagonal	Jnt	Joint	SC	Saw Cut, Slip-Critical	Wd	Wood
Dim(s)	Dimension(s)	Jst	Joist	Sched	Schedule	WY	Way



PROJECT:  
**TIENDA LA MEXICANA REMODEL/EXPANSION**

141 US HIGHWAY 89  
 ALPINE, WY 83128

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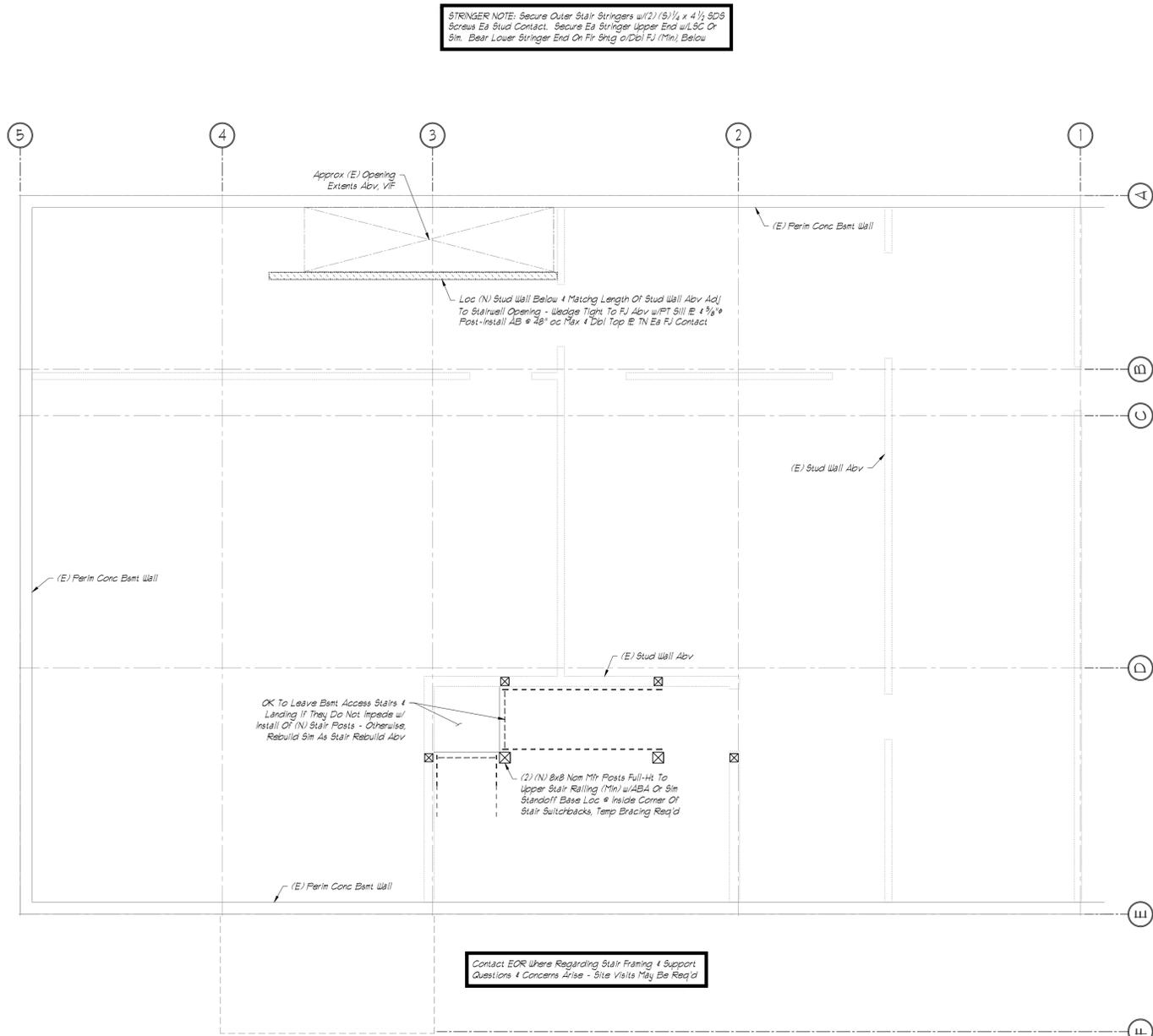
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**STRUCTURAL NOTES + REFERENCES**

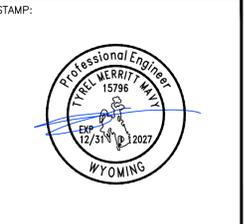
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 DATE: **12 MAR 2024**  
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 1 OF 5 PLAN SHEETS  
 CADD FILE NUMBER: **P24014.dwg**

**TIENDA LA MEXICANA REMODEL/EXPANSION - 25 FEB 2026 - BUILDING PERMIT**



**BASEMENT STRUCTURAL PLAN**  
SCALE: 1/4" = 1'-0"

(E) STRUCTURE NOTE: (E) Structural Components Shown To The Extent Such Is Req'd For Proposed Modifications. No Changes Occur To (E) Gravity 4 Lateral Structural Systems Beyond Those Indicated Herein. For Existing Conditions That Vary From Those Shown, Contact EOR For Consultation.



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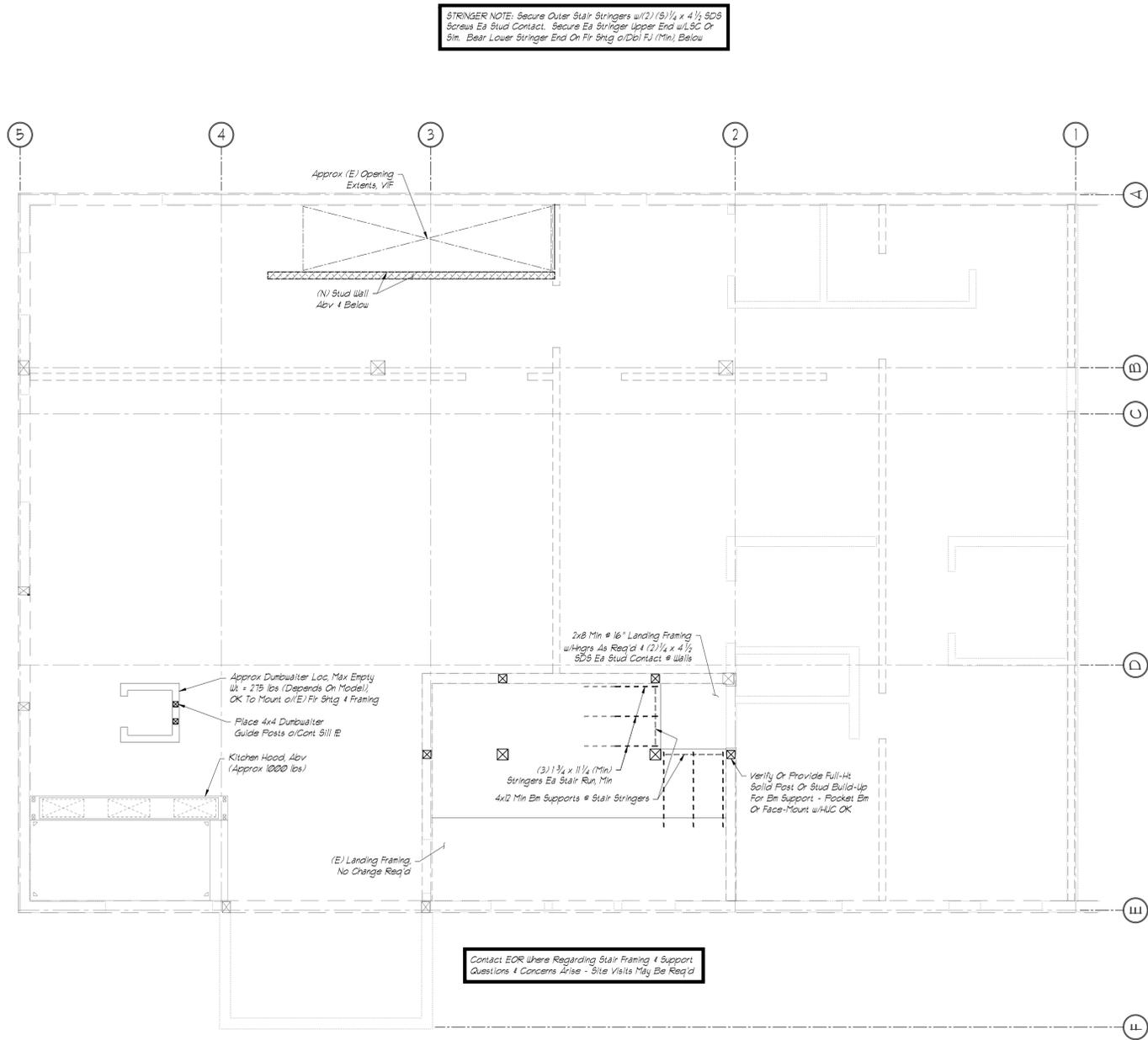
CONSULTANTS:  
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**S1.0**  
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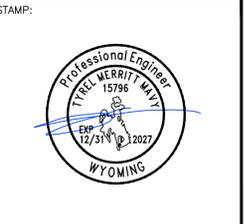


**STRINGER NOTE:** Secure Outer Stair Stringers w/ (2) (5) 1/4 x 4 1/2 SDS Screws Ea Stud Contact. Secure Ea Stringer Upper End w/ LGC Or Sim. Bear Lower Stringer End On Fr. Strg. o/ (2) (1) (Min) Below

Contact EOR Where Regarding Stair Framing & Support. Questions & Concerns Arise - Site Visits May Be Req'd

**MAIN FLOOR STRUCTURAL PLAN**  
SCALE: 1/4" = 1'-0"

(E) STRUCTURE NOTE: (E) Structural Components Shown To The Extent Such As Req'd For Proposed Modifications. No Changes Occur To (E) Gravity & Lateral Structural Systems Beyond Those Indicated Herein. For Existing Conditions That Vary From Those Shown, Contact EOR For Consultation.



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3 OF 5 PLAN SHEETS  
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