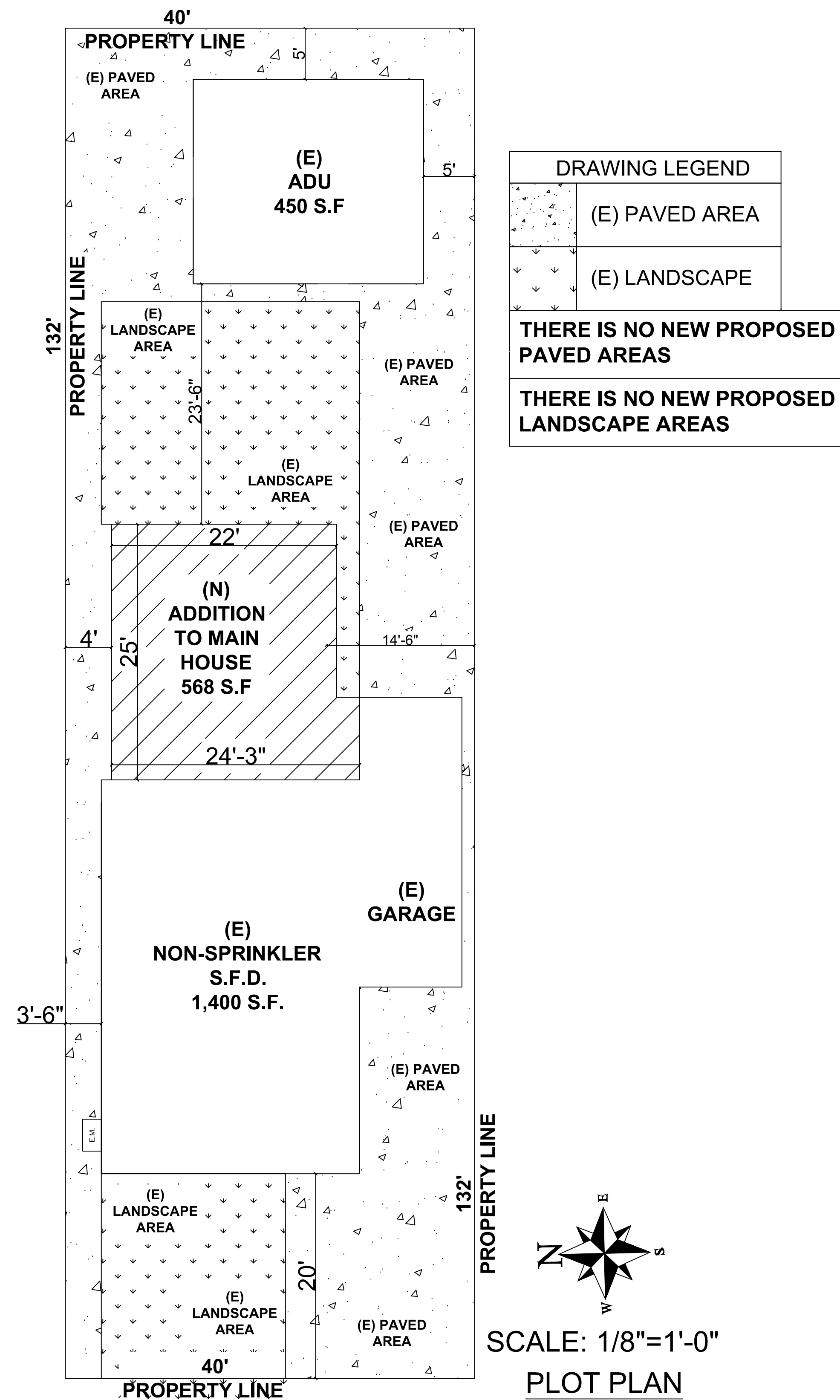


Drafted and Prepared by:
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 (818) 233-3816 & (818) 403-6466
 E-Mail: LA@USTEKNO.COM
 13731 Foothill Blvd. Sylmar, CA. 91342
www.USTEKNO.com

CODES ON THIS PROJECT ARE:

- 2019 CALIFORNIA RESIDENTIAL CODE (CRC)
- 2019 CALIFORNIA ELECTRICAL CODE (CEC)
- 2019 CALIFORNIA MECHANICAL CODE (CMC)
- 2019 CALIFORNIA PLUMBING CODE (CPC)
- 2019 CALIFORNIA ENERGY EFFICIENCY STANDARDS CODE (CEES)
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)
- 2019 LA COUNTY FIRE CODE



MARTIN ST

SCOPE OF WORK

NEW ADDITION TO MAIN HOUSE
 TOTAL = 568 S.F.

LEGAL DESCRIPTION

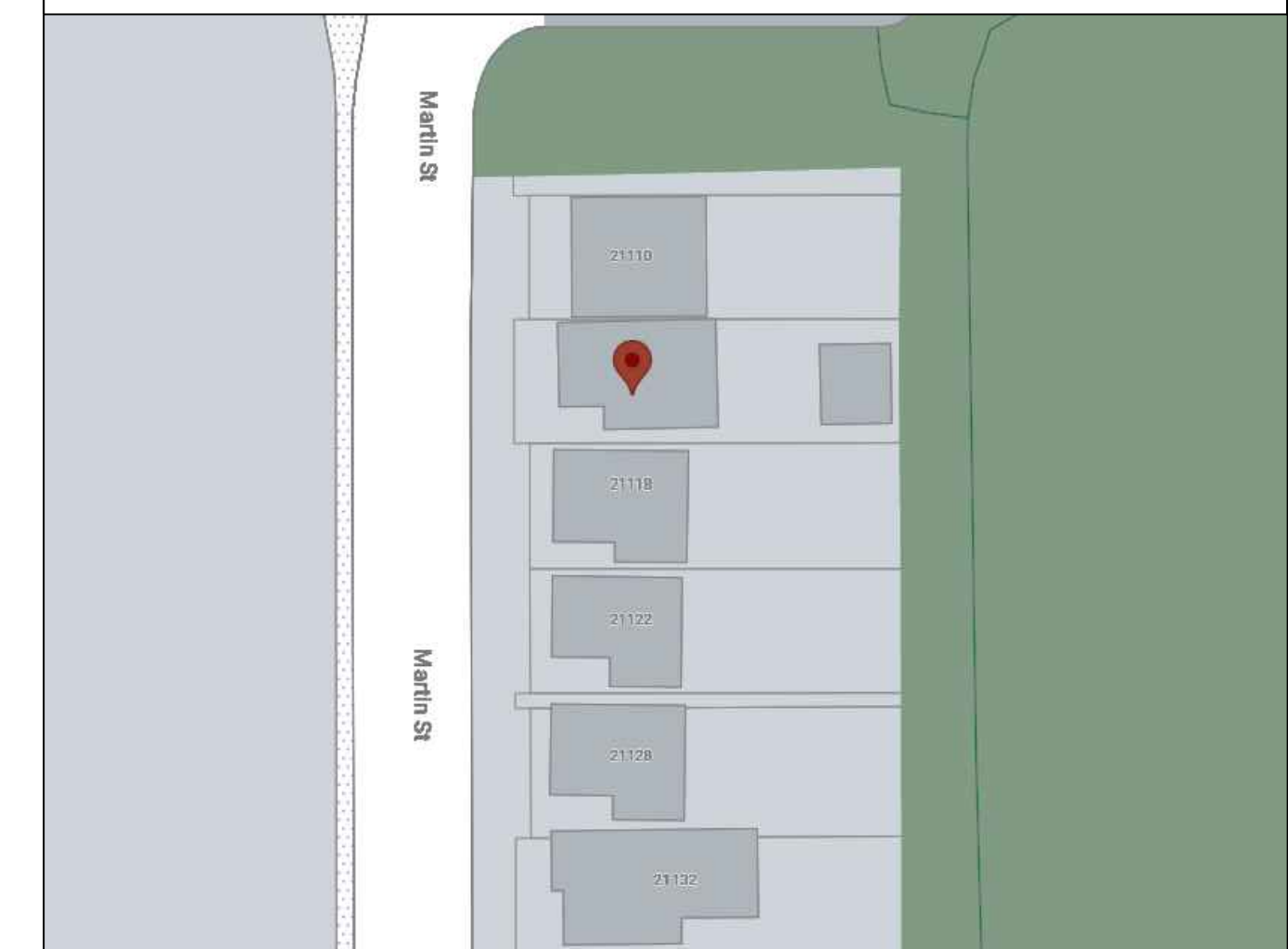
Assessor's ID No:7326-002-006
 Address: 21114 MARTIN ST CARSON CA 90745
 Property Type:Single Family Residential
 Region / Cluster:10 / 10118
 Tax Rate Area (TRA):01050
 Building Description
 Building Improvement
 Square Footage:1400
 Year Build / Effective Year Built:1954 / 1955
 Bedrooms / Bathrooms 4 / 2

BASELINE

LOT AREA = 5,280 Sq. Ft.

(E) S.F.D 1400 S.F.
 (E) ADU450 S.F.
 (N) ADDITION TO MAIN HOUSE550 S.F.

VICINITY MAP



INDEX TO PLANS

- A1. -PLOT PLAN
- A1.1 -EXISTING & PROPOSED FLOOR PLAN
- A2. -FOUNDATION &FRAMING
- A2.1 -ROOF PLAN
- A3. -ELEVATIONS & SECTIONS
- A4. -CONSTRUCTION DETAILS
- A5 to A6. - WOOD FRAME\
- A7. -TITLE 24
- A8. -MANDATORY SUMMARY

**21114 MARTIN ST,
 CARSON, CA 90745**

PROJECT:

SHEET NAME:

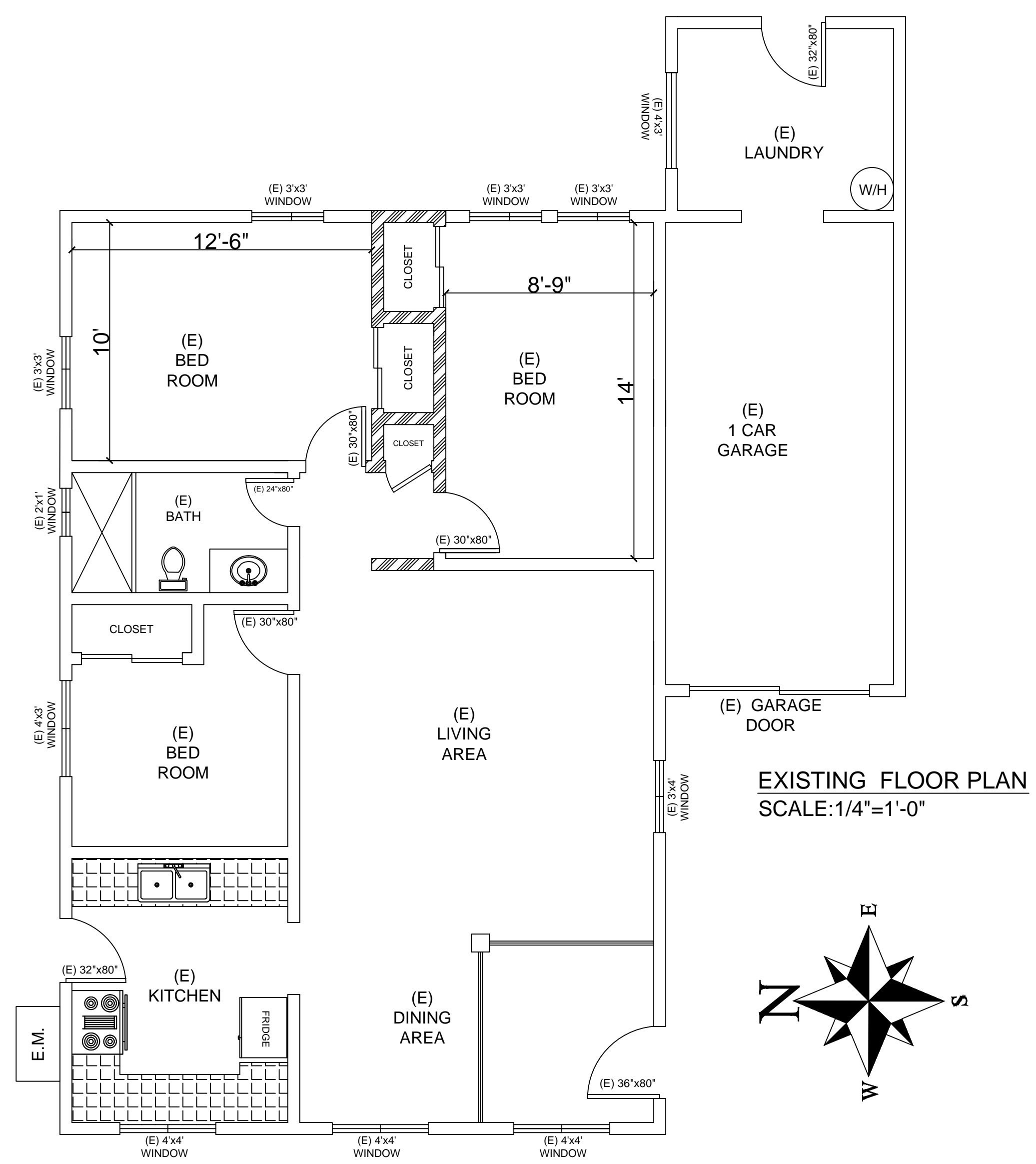
PLOT PLAN

OWNER(S):

**OSCAR
 JUAREZ**

SHEET #:

A1



CARBON MONOXIDE DETECTORS (CM)

- A. INSTALL OUTSIDE OF EACH SEPARATE DWELLING UNIT SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.
- B. BATTERY OPERATED CARBON MONOXIDE DETECTOR PERMITTED IN EXISTING CONSTRUCTION.
- C. CARBON MONOXIDE DETECTOR SHALL BE INTERCONNECTED SUCH THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL ALARMS.
- D. CARBON MONOXIDE DETECTORS SHALL BE "HARD WIRED" AND SHALL BE EQUIPPED WITH BATTERY BACK UP.
- E. THE ALARM IS PERMITTED TO BE SOLELY BATTERY OPERATED, RESULT IN THE REMOVAL OF WALL AND CEILING FINISHES, OR THERE IS NO ACCESS THROUGH AN ATTIC.

SMOKE DETECTORS (SD)

- A. IN NEW CONSTRUCTION SMOKE DETECTORS SHALL RECEIVE THEIR PRIMARY POWER SOURCE FROM THE BUILDING WIRING AND SHALL BE EQUIPPED WITH BATTERY BACK UP AND LOW BATTERY SIGNAL. SMOKE DETECTORS SHALL BE LOCATED IN EACH SLEEPING ROOM & HALLWAY OR AREA GIVING ACCESS TO A SLEEPING ROOM, AND ON EACH STORY AND BASEMENT FOR DWELLINGS WITH MORE THAN ONE STORY.
- B. IN EXISTING CONSTRUCTION SMOKE DETECTOR MAY BE BATTERY OPERATED, INSTALLED IN LOCATION AS SPECIFIED IN ABOVE.
 * SMOKE DETECTORS SHALL BE INTERCONNECTED WHEN MORE THAN 1 DETECTOR IS REQUIRED.

WINDOW SCHEDULE

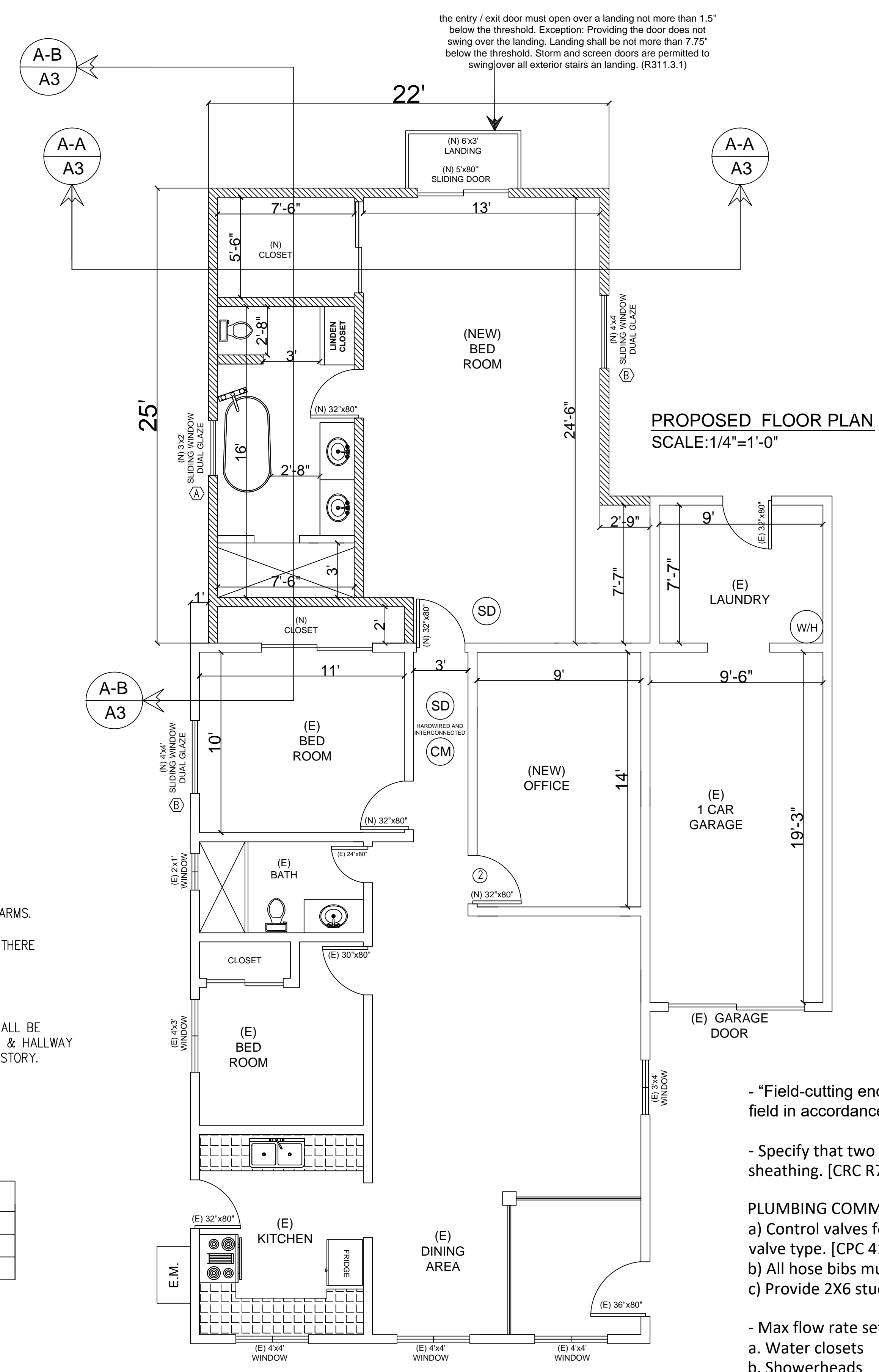
*NOTE: ALL NEW GLAZING WILL BE INSTALLED WITH LABELS TO REMAIN IN PLACE FOR INSPECTION

SYM.	SIZE	THK.	GLAZING	MATERIAL	TYPE	U-FACTOR	SHGC	REMARKS
(A)	36" X 24"	1 3/8"	DBL LOW "E" SH CC c/o,4	VINYL	SLIDER	0.30	0.23	PROVIDED BY OWNERS
(B)	48" X 48"	1 3/8"	DBL LOW "E" SH CC c/o,4	VINYL	SLIDER	0.30	0.23	PROVIDED BY OWNERS

DOOR SCHEDULE

*NOTE: SELF CLOSING, TIGHT-FITTING, SOLID WOOD 1-3/8" THK. DOOR OR A 20-MINUTE RATED DOOR AT OPENING TO DWELLING (302.4)

SYM.	SIZE	THK.	FRAME	MATERIAL	TYPE	REMARKS
(1)	36" X 80"	1 3/4"	WOOD	WOOD	SWINGING	DOOR w/ SECURITY LOCK PROVIDED BY OWNERS
(2)	32" X 80"	1 3/4"	WOOD	WOOD	SWINGING	



DRAWING LEGEND

- NEW WALLS
- EXISTING WALLS
- DEMO WALLS
- SMOKE DETECTORS
- CARBON MONOXIDE DETECTORS
- ENERGY STAR EXHAUST FAN MIN. 50 CFM
- BATHROOM EXHAUST FANS SHALL BE ENERGY STAR COMPLIANT AND CONTROLLED BY HUMIDISTAT. 4.506.1
- FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE TO THE OUTSIDE OF THE BUILDING.
- FANS, NOT FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, MUST BE CONTROLLED BY A HUMIDITY CONTROL

1

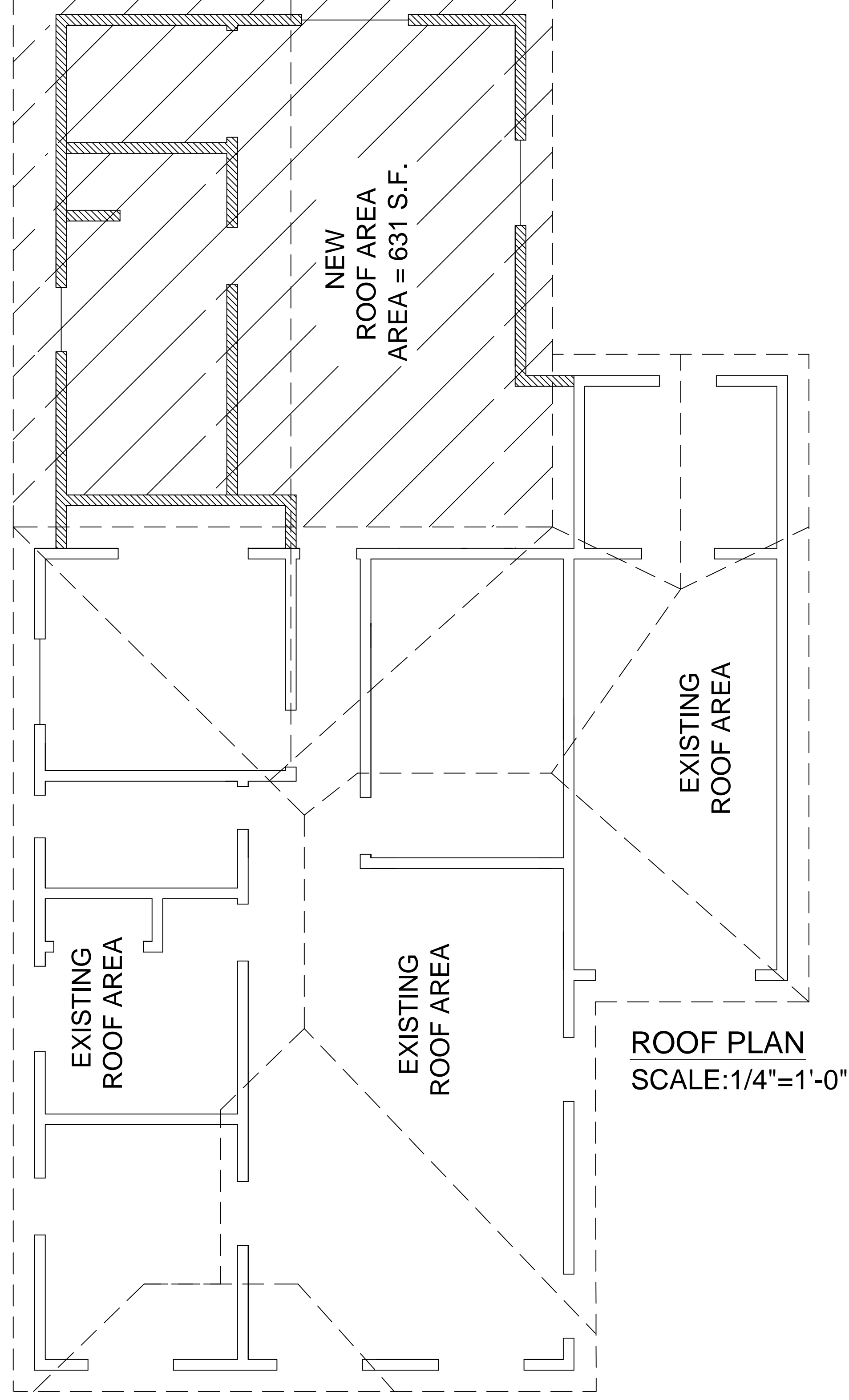
Method WSP (Wood Structural Panel) = 15/32-in. minimum thickness wood structural panel with 8d common (2-1/2-in x 0.131-in.) nails at 6-in. spacing along panel edges, 12-in. spacing at intermediate supports, and 3/8-in. distance to panel edge. 1/2-in. minimum thickness gypsum wall board shall be installed on the side of the wall opposite the bracing material, except when the minimum total length of braced wall panel in the Table is multiplied by a factor of 1.5.

- "Field-cutting ends, notches and drilled holes of preservative-treated wood shall be treated in the field in accordance with AWPA M4". [CRC R317.1.1]

- Specify that two layers of Grade D or one hour Grade D paper shall be applied over all wood base sheathing. [CRC R703.7.2.1]

PLUMBING COMMENTS:
 a) Control valves for shower & tub/shower shall be of the pressure balance or thermostatic mixing valve type. [CPC 418.0]
 b) All hose bibs must be protected by an anti-siphon device. [CPC 603.1]
 c) Provide 2X6 studs and plate for all plumbing walls, show it on the floor and framing plans.

- Max flow rate set by the Calif. Green Code. [4.303]
 a. Water closets 1.28 gallons/flush
 b. Showerheads 2.0 gpm @ 80 psi
 c. Lavatory faucets 1.2 gpm @ 60 psi
 d. Laundry sink faucets 1.2 gpm @ 60 psi
 e. Kitchen faucets 1.8 gpm @ 60 psi



SHEET #:

A2.1

PROJECT:

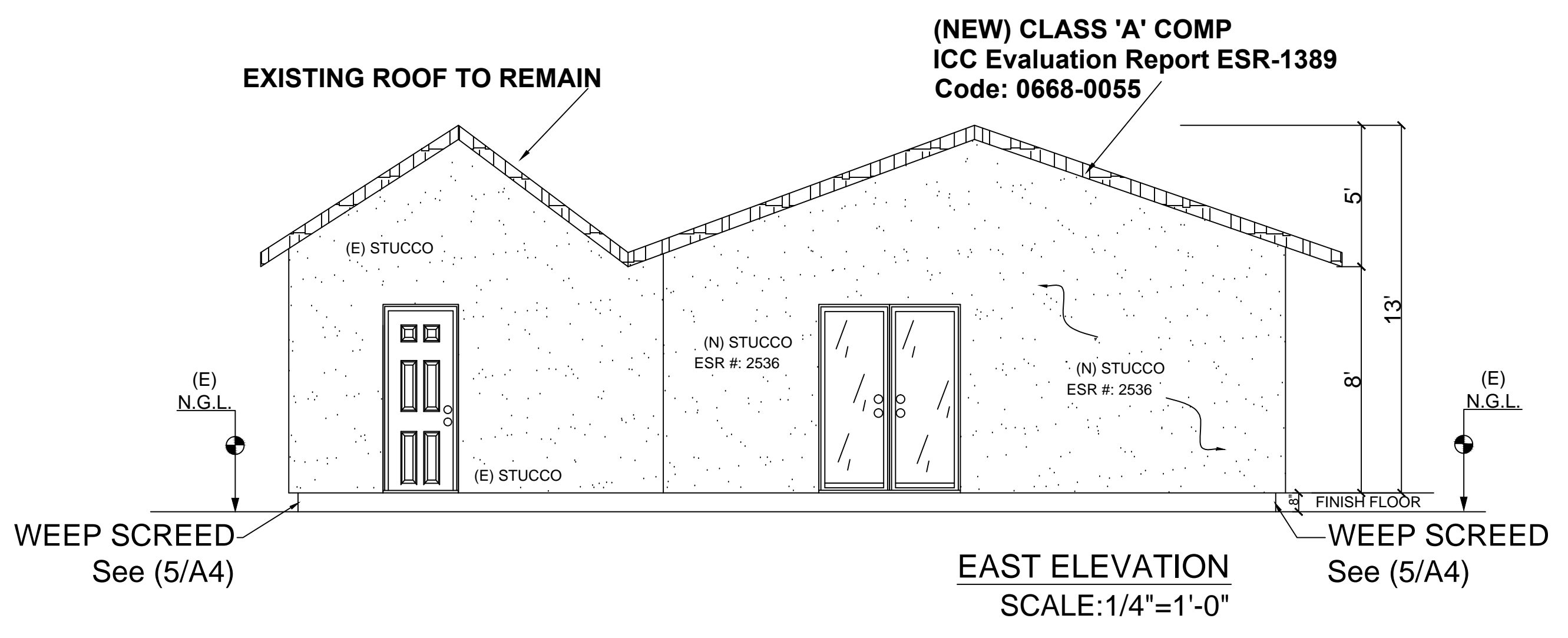
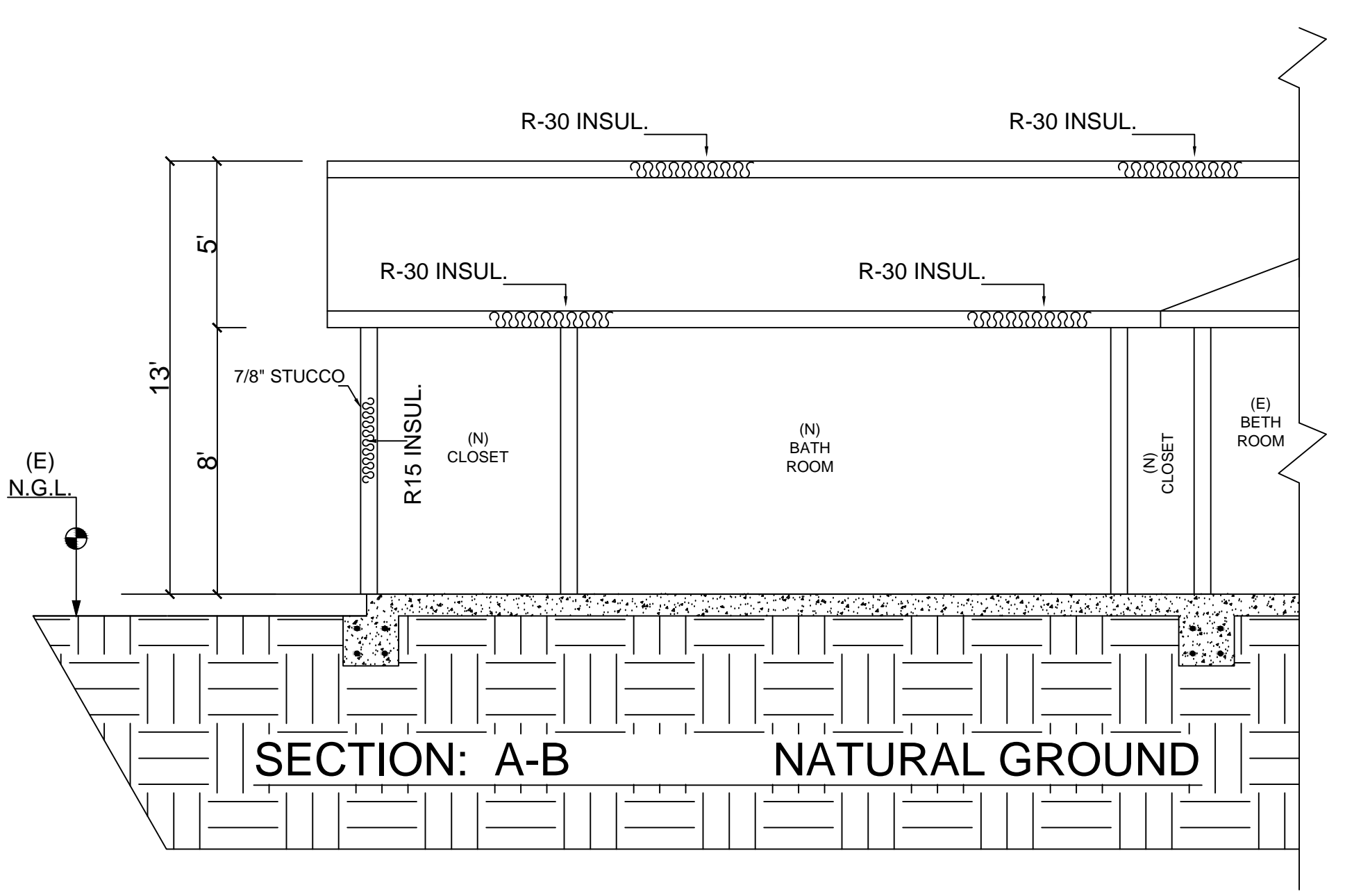
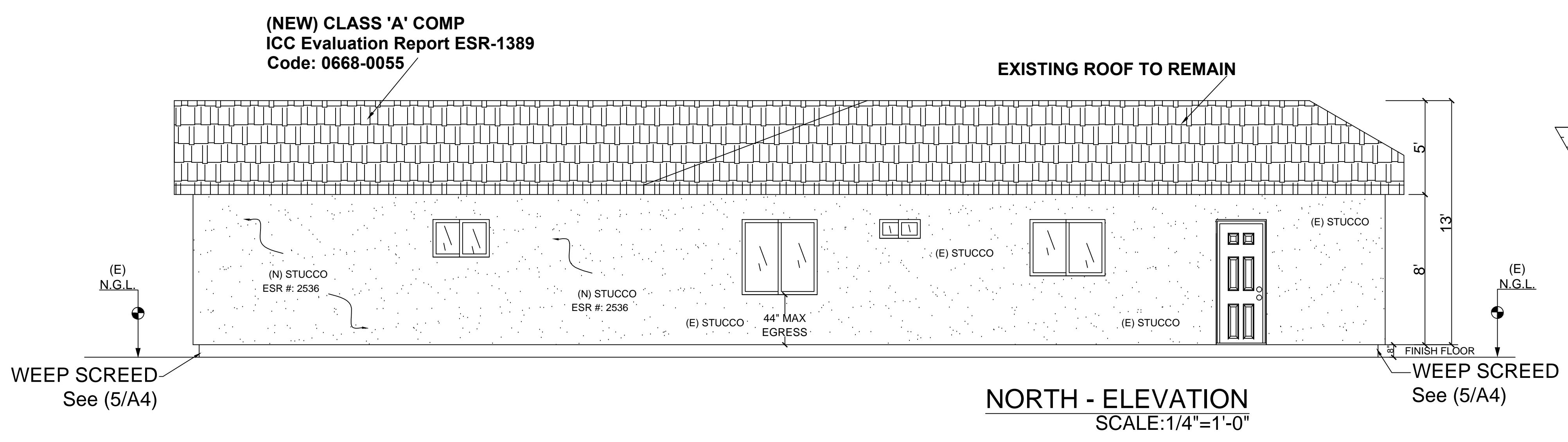
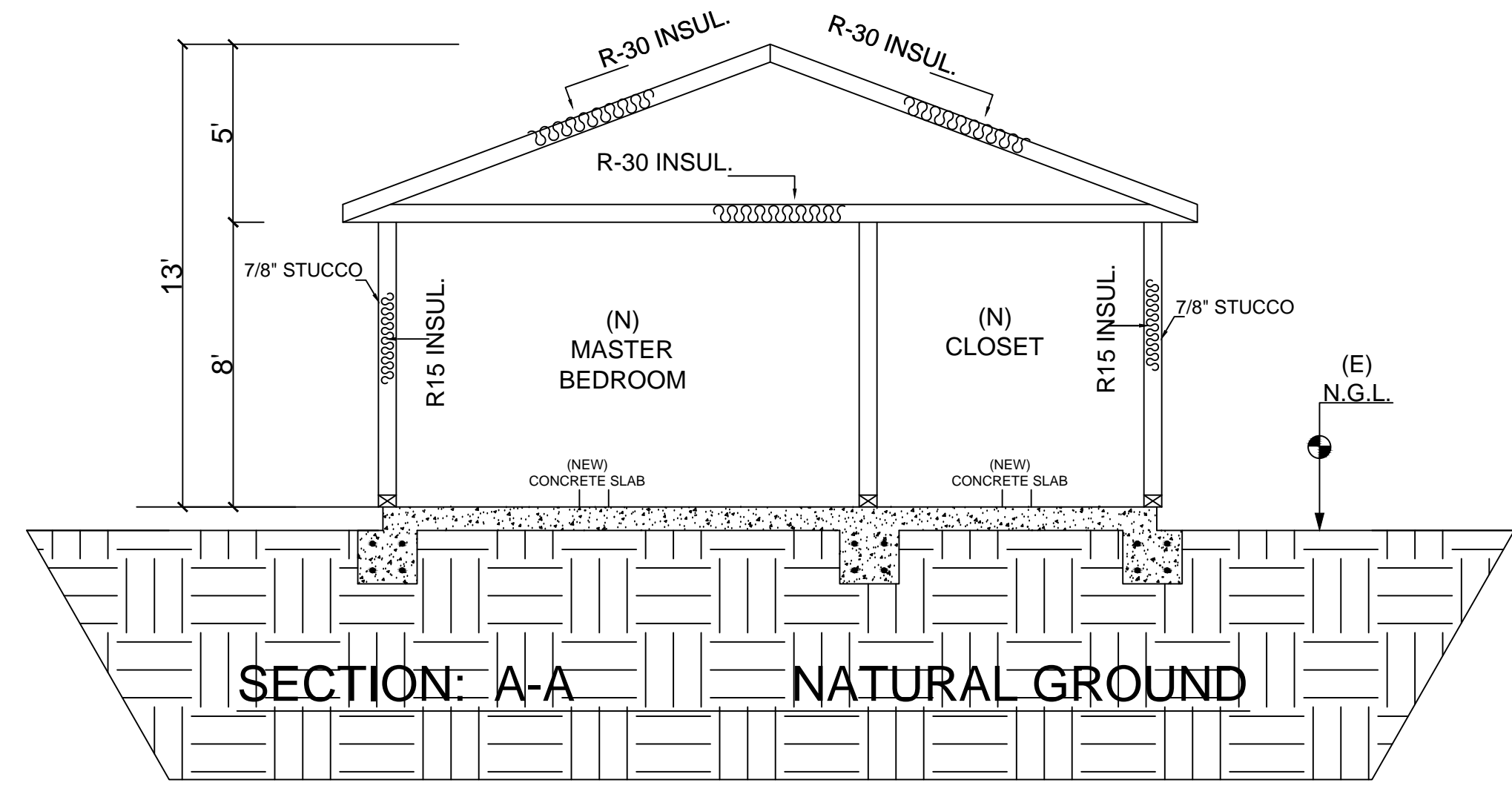
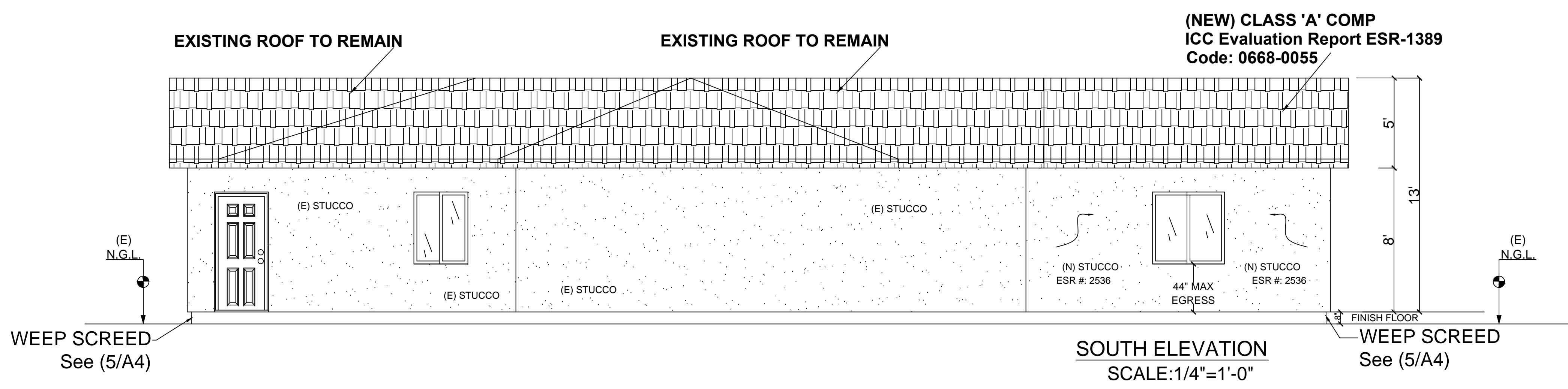
OSCAR
JUAREZ

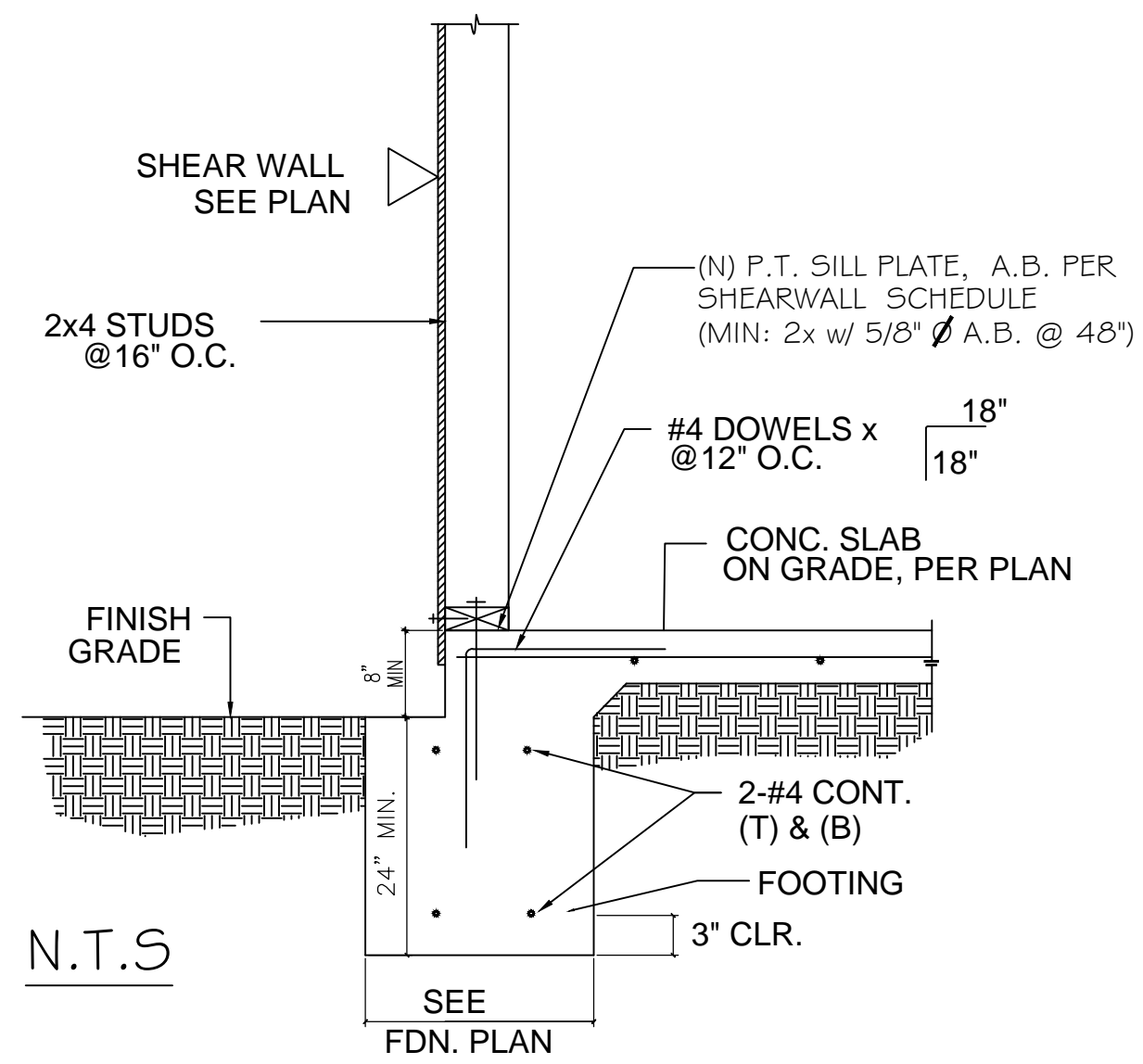
SHEET NAME:

ROOF PLAN

21114 Martin St,
Carson, CA 90745

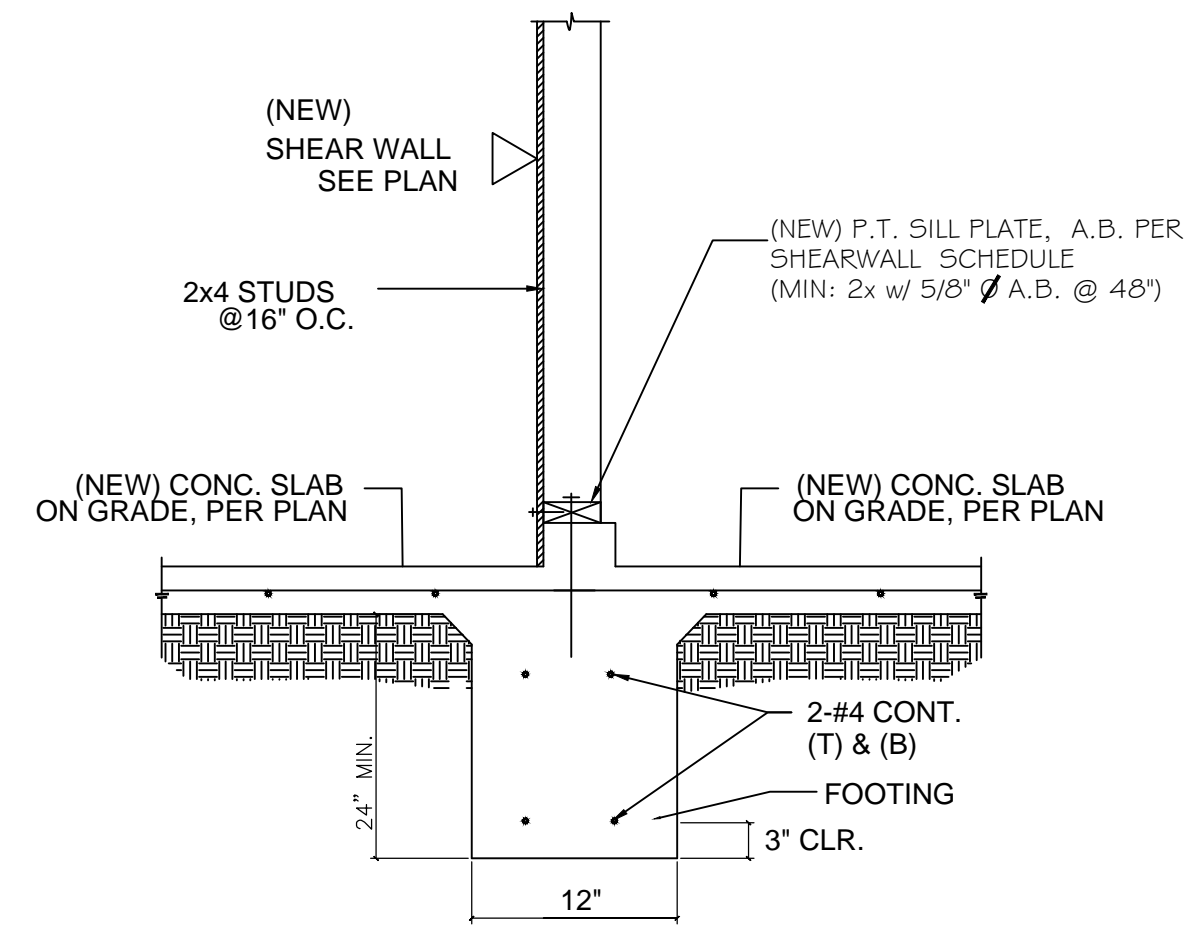
US TEKNO, LLC.
CAD DRAFTING DESIGN & PROCESSING
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EMAIL: LA@USTEKNO.COM
13731 FOOTHILL BLVD. SYLMAR, CA 91342





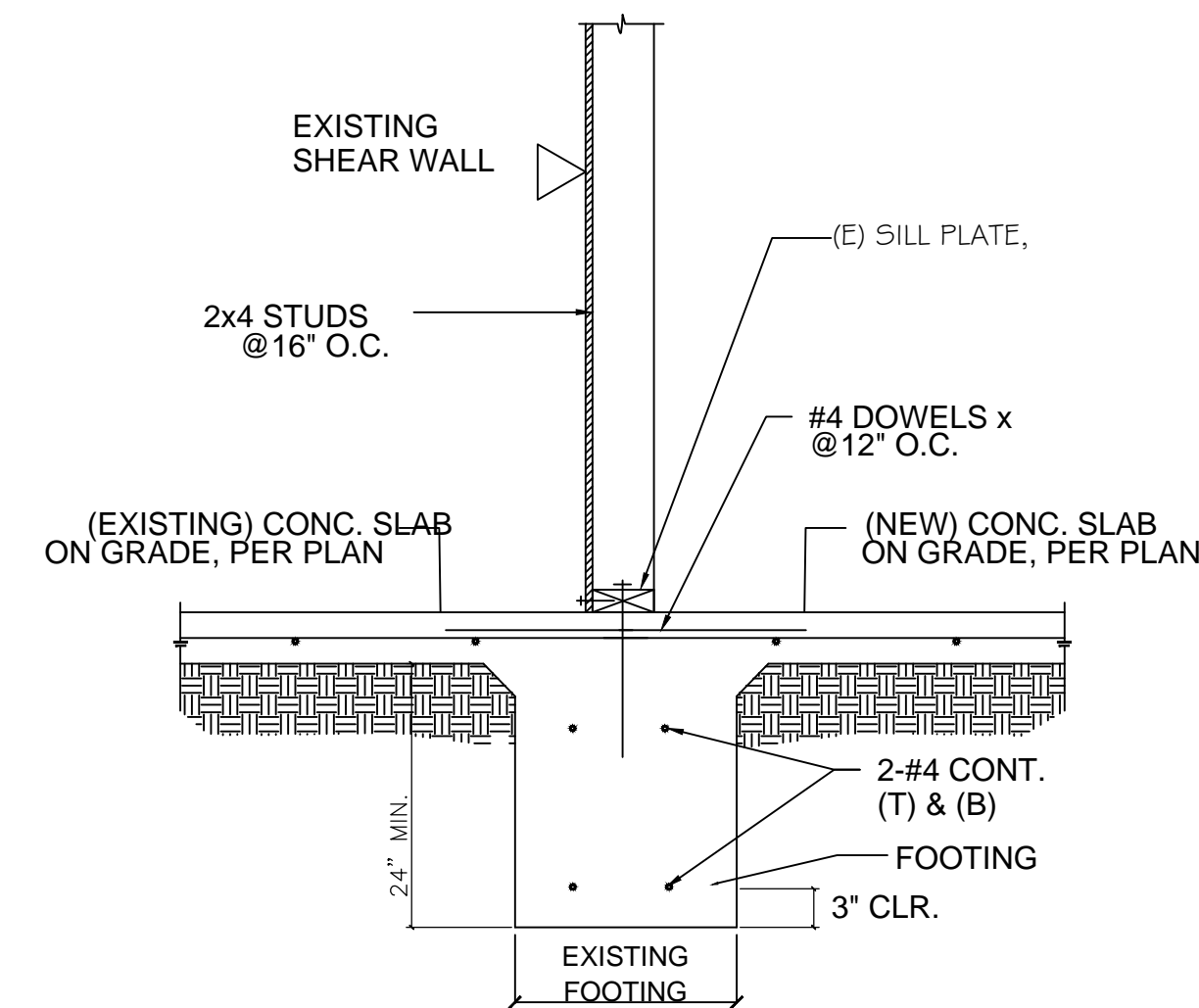
(N) EXTERIOR CONTINUOUS FOOTING (SLAB ON GRADE)

1



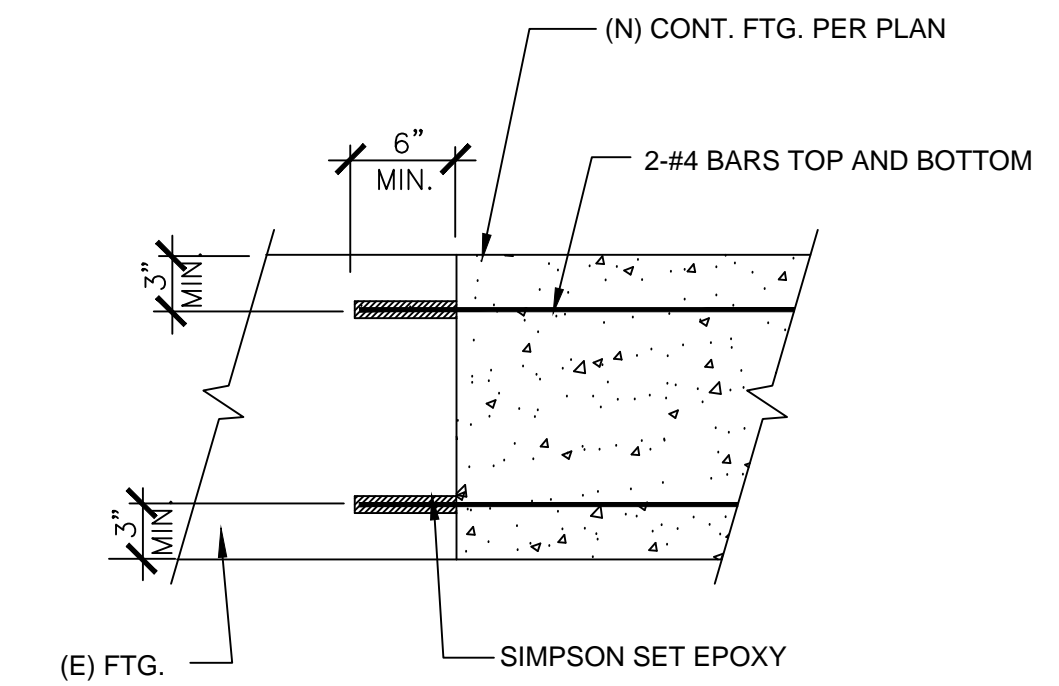
(N) INTERIOR CONTINUOUS FOOTING (SLAB ON GRADE)

2



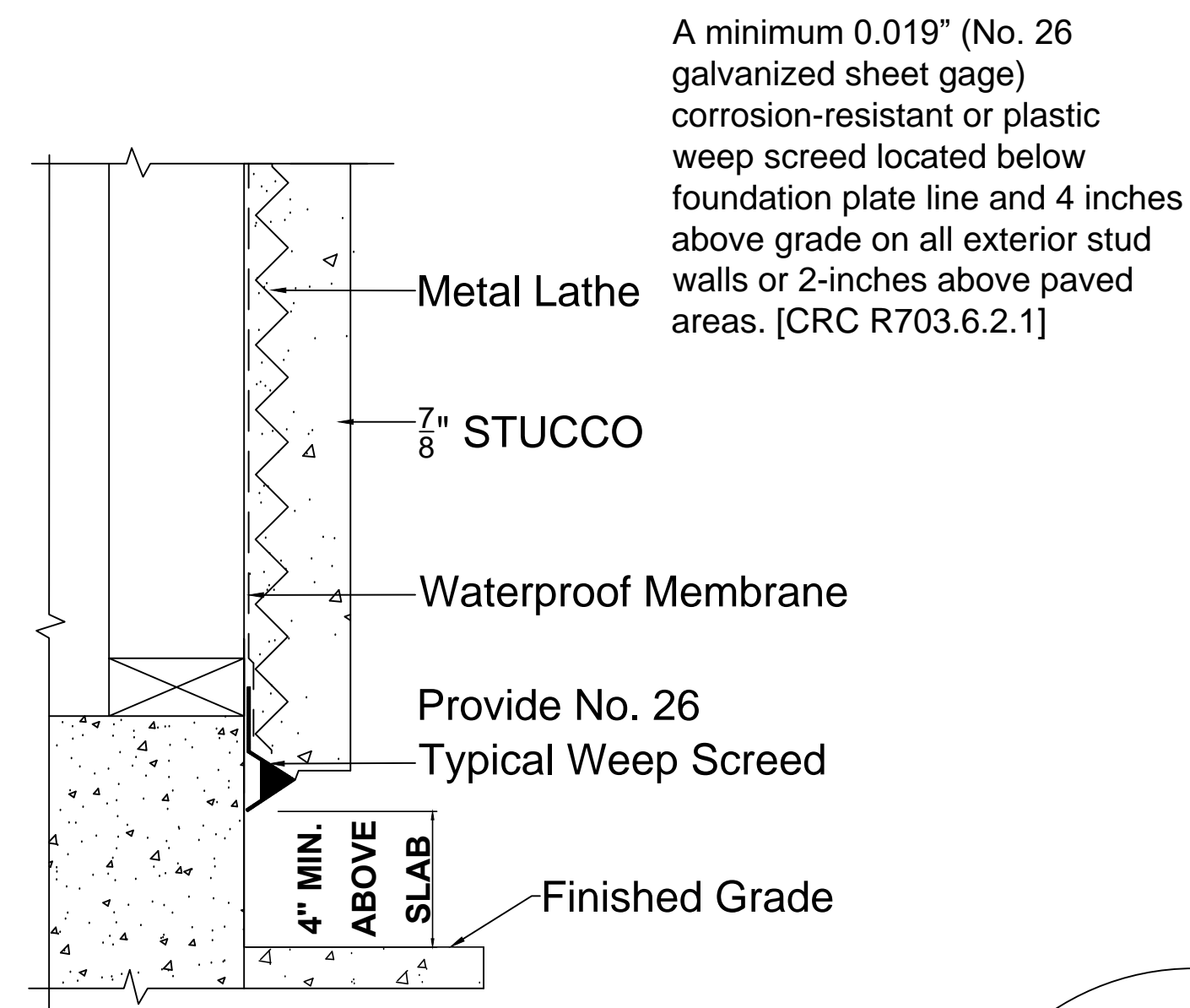
(E) FOUNDATION TO (NEW) (SLAB ON GRADE)

3



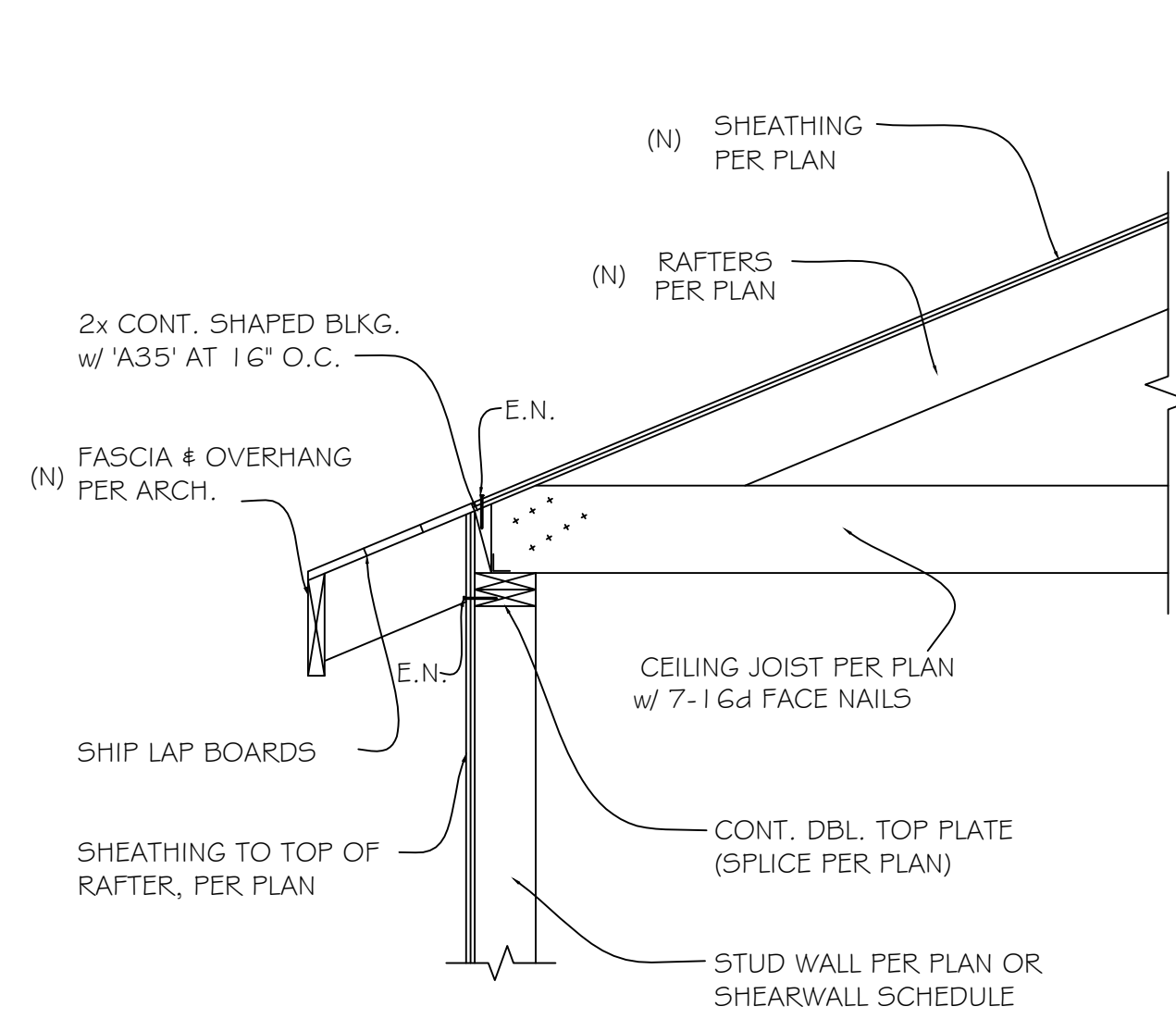
DOWELS, (N) TO (E) FOUNDATION

4



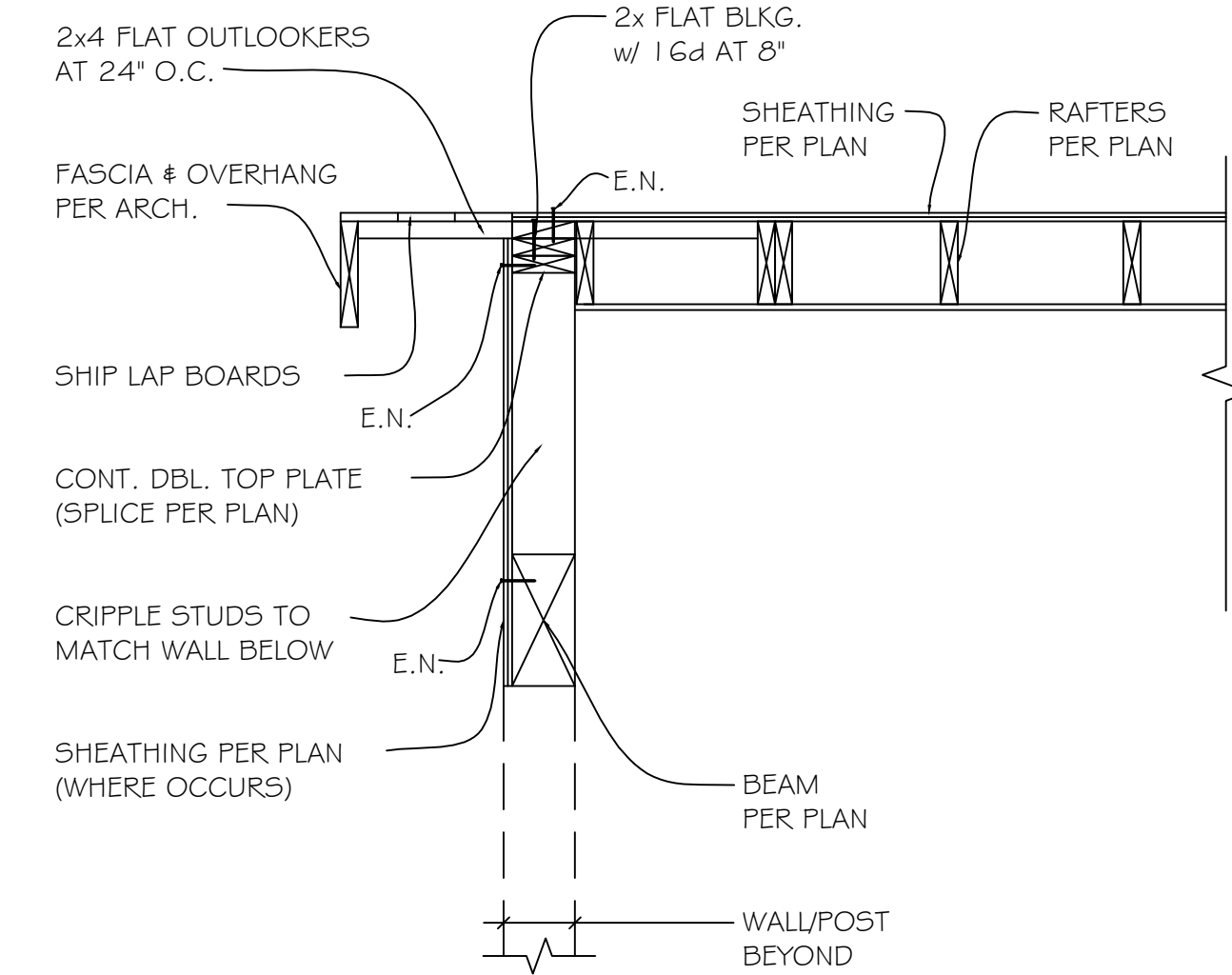
WEEP SCREED DETAIL TYPICAL.

5



SHEAR TRANSFER FROM ROOF TO WALL

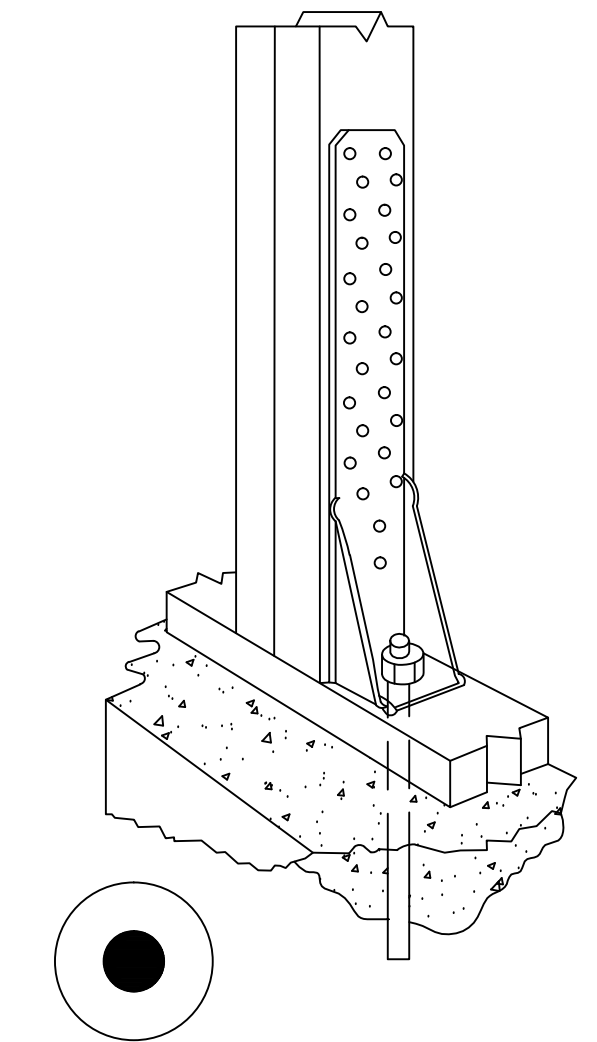
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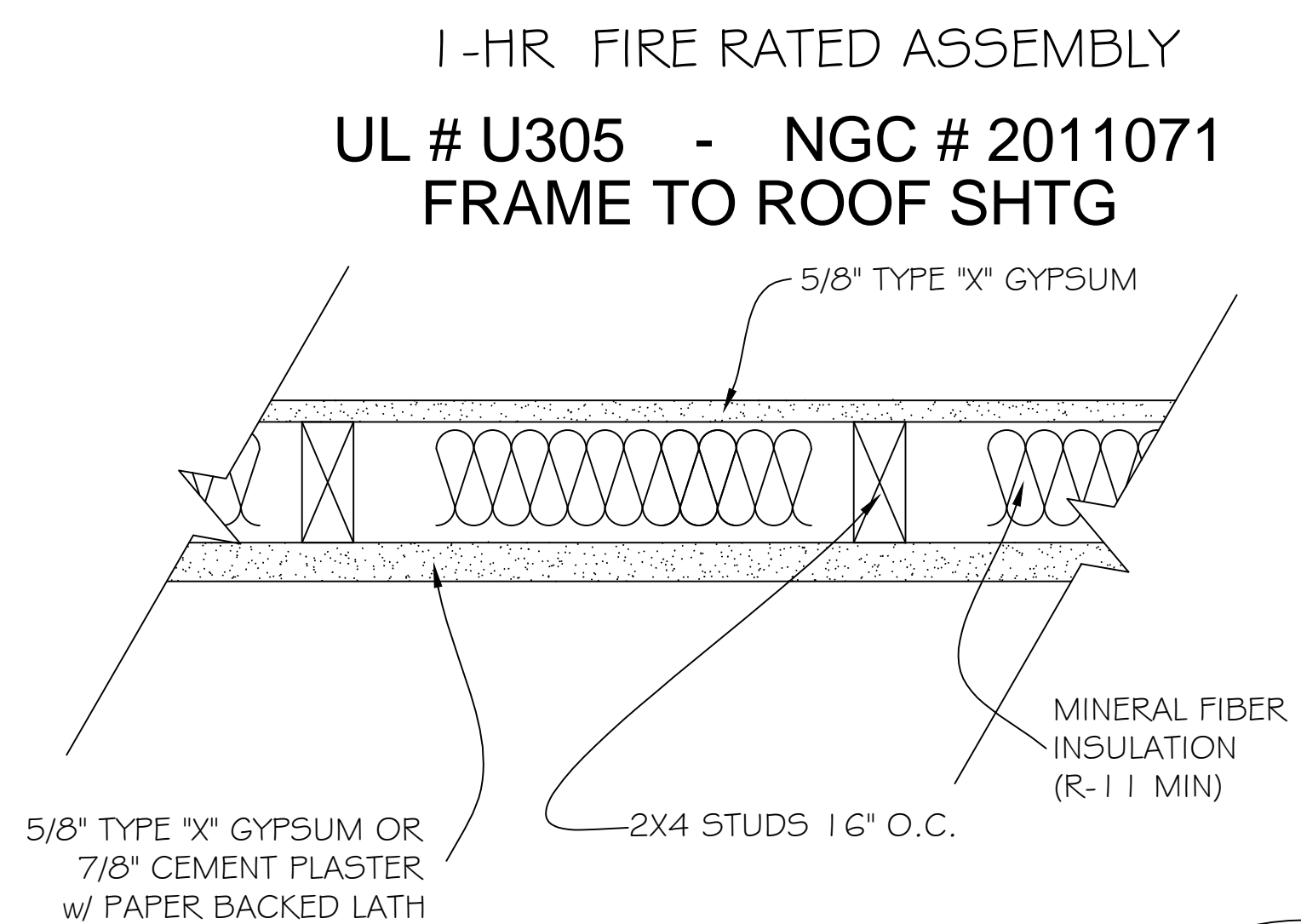
TYP. SHEAR TRANSFER AT ROOF

7

HOLD DOWN:
MODEL = HDU2
5/8" DIA. ANCHOR BOLTS
EMBEDDED
AT LEAST 7" INTO CONCRETE
AND SPACED NOT MORE
THAN 4FT APART WITH 0.229"
x 3"x3" PLATE WASHERS

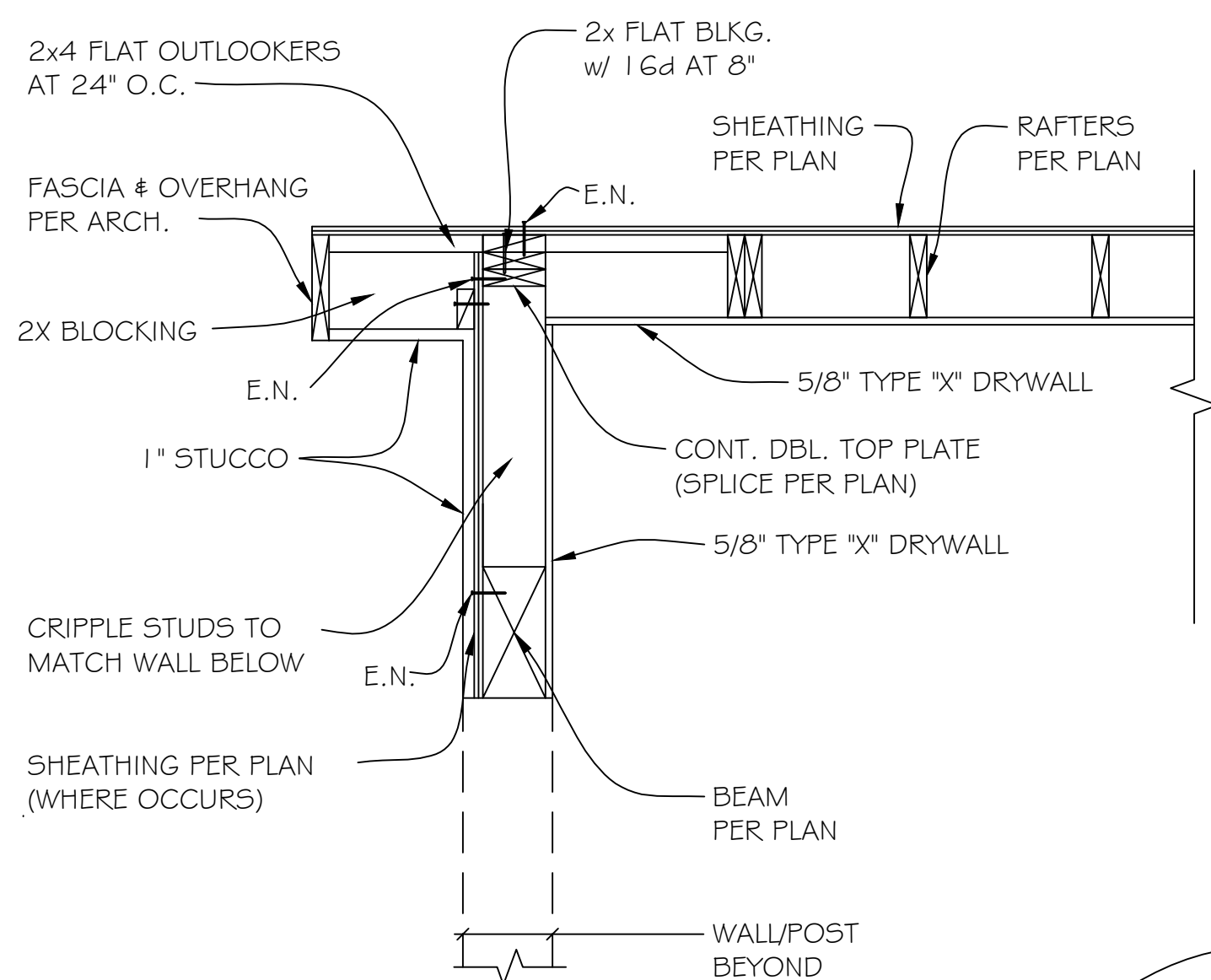


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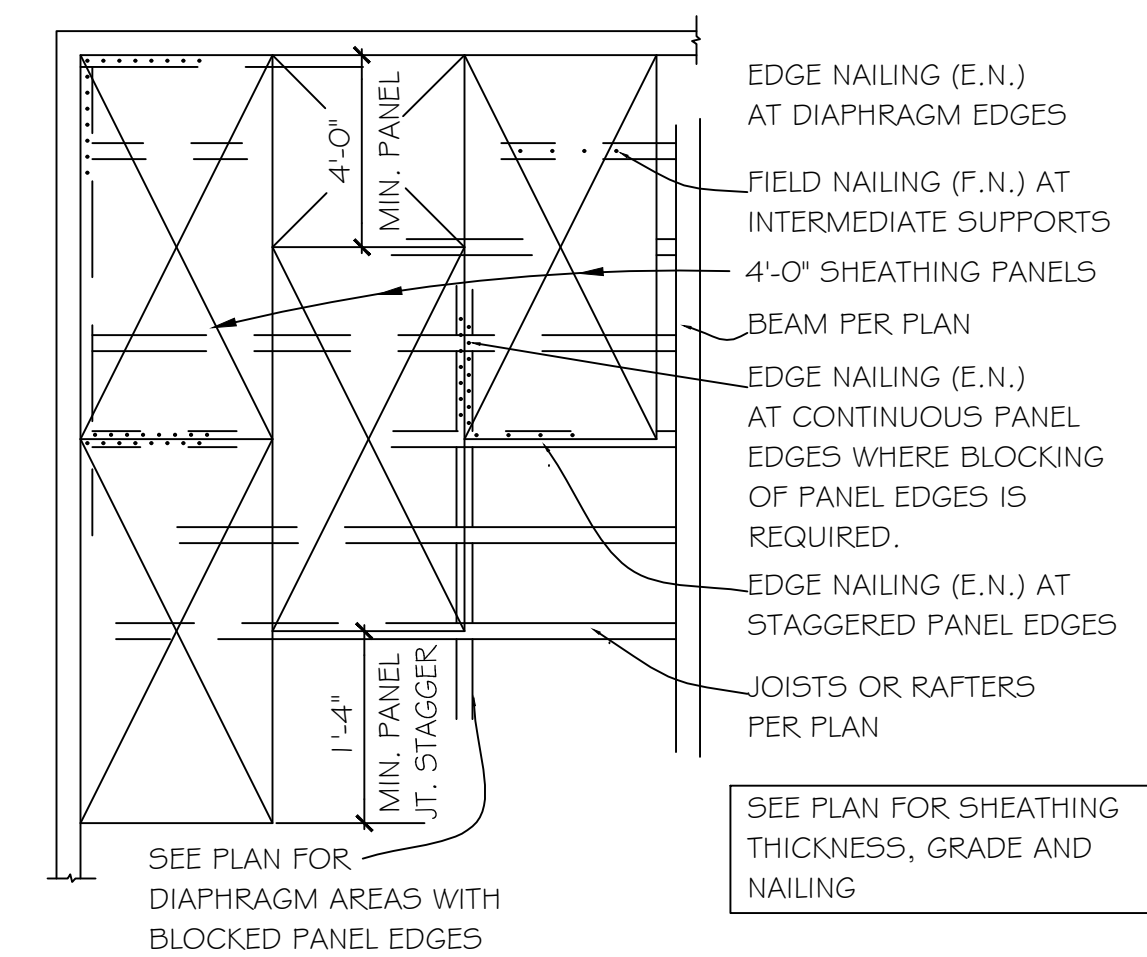
FIREWALL: MIN. 50 STC RATING ONE HOUR EXTERIOR WALL

9



1-HR FIRE RATED ASSEMBLY

10



TYPICAL FLOOR OR ROOF DIAPHRAGM ASSEMBLY

11

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21114 Martin St,
Carson, CA 90745

SHEET NAME:
CONSTRUCTIONS
DETAILS

PROJECT:
OSCAR
JUAREZ

SHEET #:
A4

12

CONVENTIONAL WOOD-FRAME CONSTRUCTION SHEET

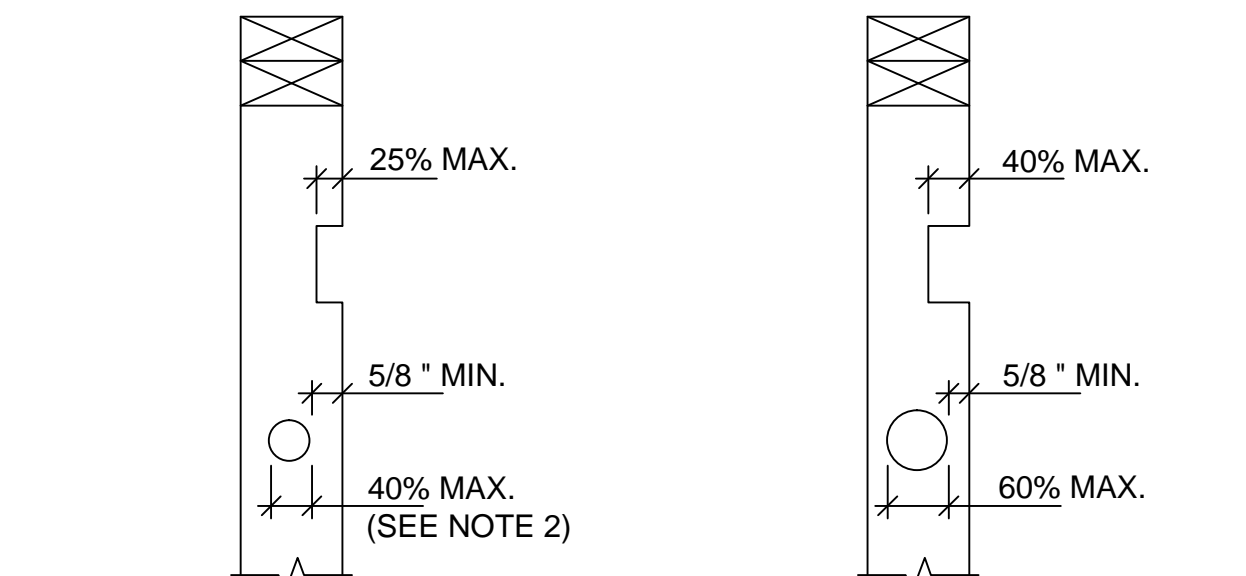
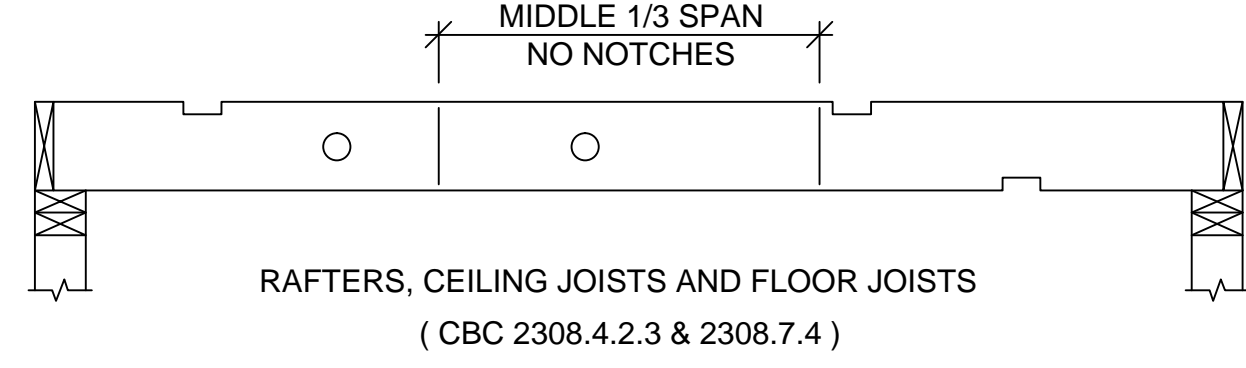
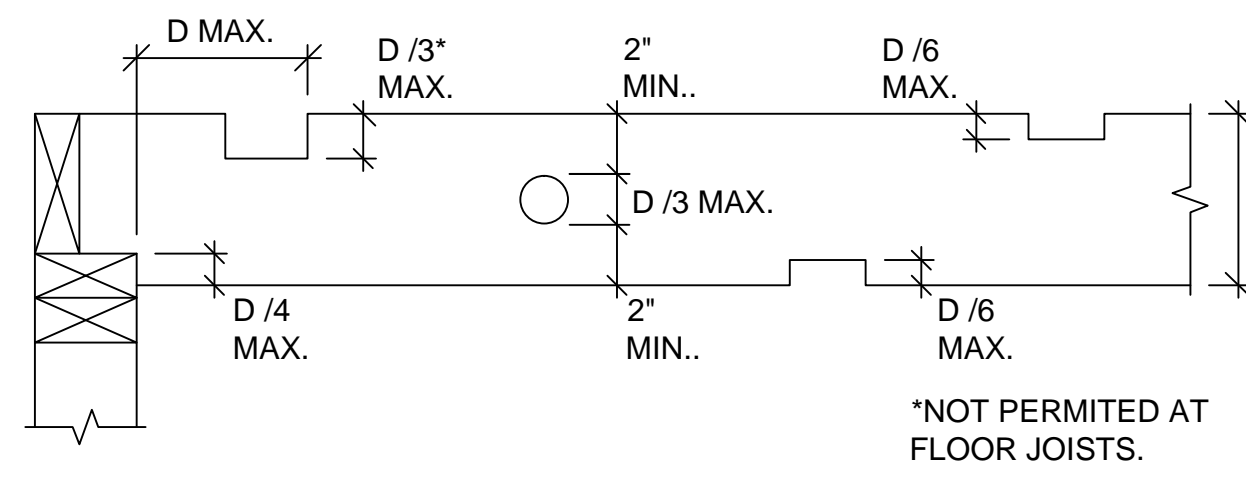
US TEKNO, LLC.
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 EMAIL: LA@USTEKNO.COM
 13731 FOOTHILL BLVD. SYLMAR, CA 91342

21114 Martin St,
 Carson, CA 90745

STANDARD
 WOOD FRAME

OSCAR
 JUAREZ

A6

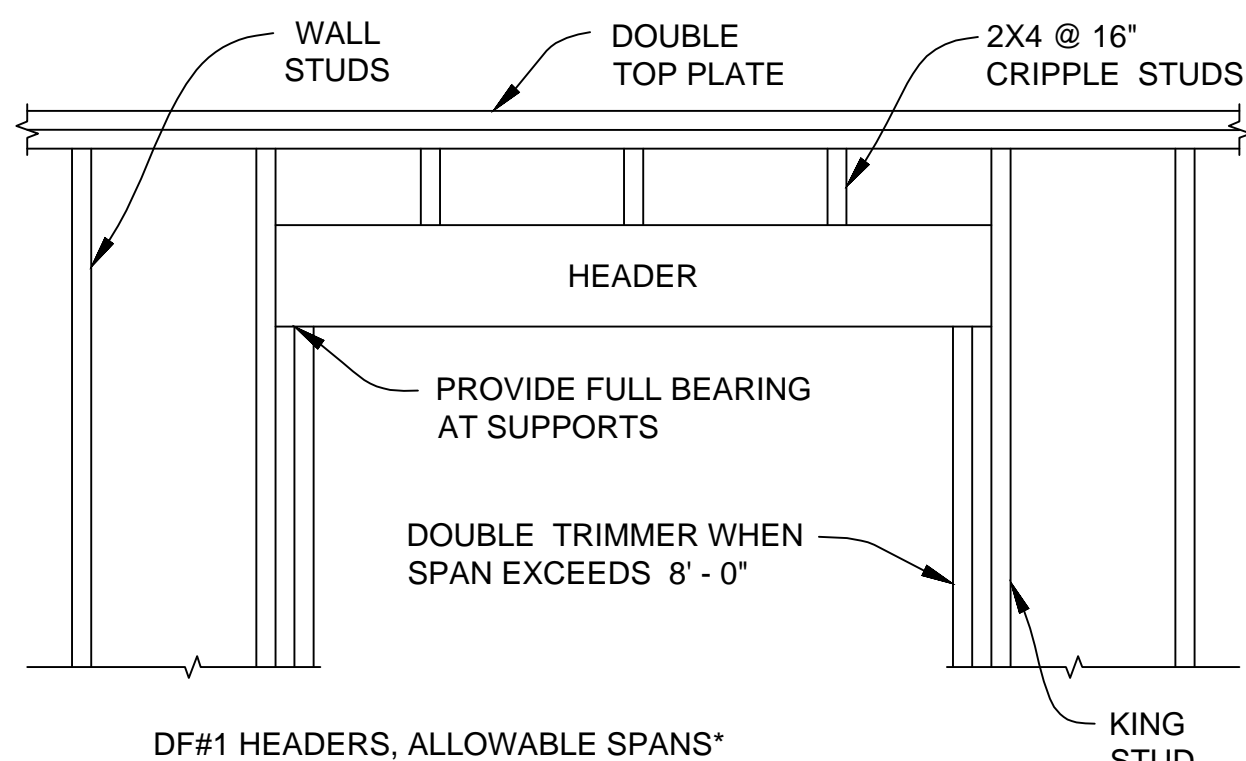


BEARING PARTITIONS & ALL EXTERIOR WALLS
 NON-BEARING PARTITIONS
 (CBC 2308.4.5.9 & 2308.5.10)

NOTES:
 (1) BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION AS A CUT OR NOTCH.
 (2) BORED HOLES IN BEARING STUDS MAY BE INCREASED TO 60% IF STUDS ARE DOUBLED; NO MORE THAN TWO SUCCESSIVE DOUBLED STUDS MAY BE BORED.

NOTCHING AND HOLES

2



SPAN	SIZE
UP TO 4' - 0"	4X4
4' - 1" TO 6' - 0"	4X6
6' - 1" TO 8' - 0"	4X8
8' - 1" TO 10' - 0"	4X10
10' - 1" TO 12' - 0"	4X12

*MAXIMUM TRIBUTARY WIDTH = 12'-6"

HEADER/LINTEL

CBC 2308.5.5.1

3

GENERAL:
 (1) SEE FASTENING SCHEDULE (CBC TABLE 23044.10.1) FOR NOT SHOWN
 (2) BEARING WALLS AND BRACED WALLS REQUIRE CONTINUOUS FOOTINGS.
 (3) "DF" ON THESE SHEETS REFER TO DOUGLAS FIR - LARCH SAWN LUMBER SHALL BE IDENTIFIED BY THE GRADE MARK OF AN APPROVED LUMBER GRADING OR INSPECTION AGENCY PER SBS SEC. 2303.1.1.
 (4) "DL" AN "LL" ON THESE SHEETS INDICATES "DEAD LOAD", RESPECTIVELY.
 (5) WOOD MEMBERS SHALL BE OF SUFFICIENT SIZE TO PREVENT SPLITTING DUE TO NAILING. SPLIT MEMBERS SHALL BE REMOVED AND REPLACED.
 (6) "P.T." ON THESE SHEETS INDICATES PRESERVATIVE-TREATED WOOD.
 (7) WHEN FRAMED WITH ENGINEERED WOOD TRUSSES, ROOF DIAPHRAGMS SHALL BE CONNECTED TO INTERIOR BRACED WALLS BY OF DRAG TRUSSES OR TRUSS BLOCKING.

DF#2 RAFTERS, ALLOWABLE SPANS*

RAFTER SPACING	DL=10 PSF, LL=20 PSF				
	2X4	2X6	2X8	2X10	2X12
12"	9'-10"	15'-6"	20'-8"	25'-8"	-
16"	8'-11"	14'-1"	18'-2"	22'-3"	25'-9"
24"	7'-10"	11'-9"	14'-10"	18'-2"	21'-0"

*DATA FROM CBC TABLE 2308.7.2(2)

DF#2 CEILING JOISTS, ALLOWABLE SPANS*

RAFTER SPACING	ATTICS WITHOUT STORAGE, LL=10 PSF				ATTICS WITH LIMITED SOTRAGE, LL=20 PSF			
	2X4	2X6	2X8	2X10	2X4	2X6	2X8	2X10
12"	12'-5"	19'-6"	25'-8"	-	9'-10"	14'-10"	18'-9"	22'-11"
16"	11'-3"	17'-8"	23'-0"	-	8'-9"	12'-10"	16'-3"	19'-10"
24"	9'-10"	14'-10"	18'-9"	22'-11"	7'-2"	10'-6"	13'-3"	16'-3"

*DATA FROM CBC TABLE 2308.7.1(1). ATTICS WITH STORAGE ARE THOSE WHERE THE CLEAR HEIGHT BETWEEN THE CEILING JOIST AND RAFTERS IS 42" OR GREATER. ATTICS SHALL BE UNINHABITABLE. CEILING DEAD LOAD SHALL NO EXCEED 5 PSF.

DF#2 CEILING JOISTS, ALLOWABLE SPANS*

RAFTER SPACING	ROOF PITCH																		
	3:12			4:12			5:12			7:12			9:12			12:12			
	SPAN	SPAN	SPAN	SPAN	SPAN	SPAN	SPAN	SPAN	SPAN	SPAN	SPAN	SPAN	SPAN	SPAN	SPAN	SPAN			
12"	12'	20'	25'	12'	20'	25'	12'	20'	25'	12'	20'	25'	12'	20'	25'	12'	20'	25'	
16"	4	6	7	3	4	5	3	3	4	3	3	3	3	3	3	3	3	3	3
24"	5	8	10	4	6	8	3	5	6	3	4	5	3	4	3	3	3	3	3
32"	7	11	13	5	8	10	4	7	8	3	5	6	3	4	5	3	3	3	3
48"	10	16	19	7	12	15	6	10	12	4	7	9	4	6	7	3	4	5	5

*CBC TABLE 2308.7.3.1 VALUES ADJUSTED FOR DF#2 FRAMING. THE NUMBER OF NAILS SPECIFIED IN THE TABLE SHALL BE PROVIDED AT EACH CONNECTION. WHEN FULL-HEIGHT INTERIOR BEARING WALLS OR PURLIN BRACING ARE PROVIDED, RAFTER NAILING MAY BE REDUCED PROPORTIONAL TO THE REDUCTION IN RAFTER SPAN; NO LESS THAN 3 NAILS SHALL PROVIDED AT EACH CONNECTION. NO LOAD.

DF#2 FLOOR JOISTS, ALLOWABLE SPANS*

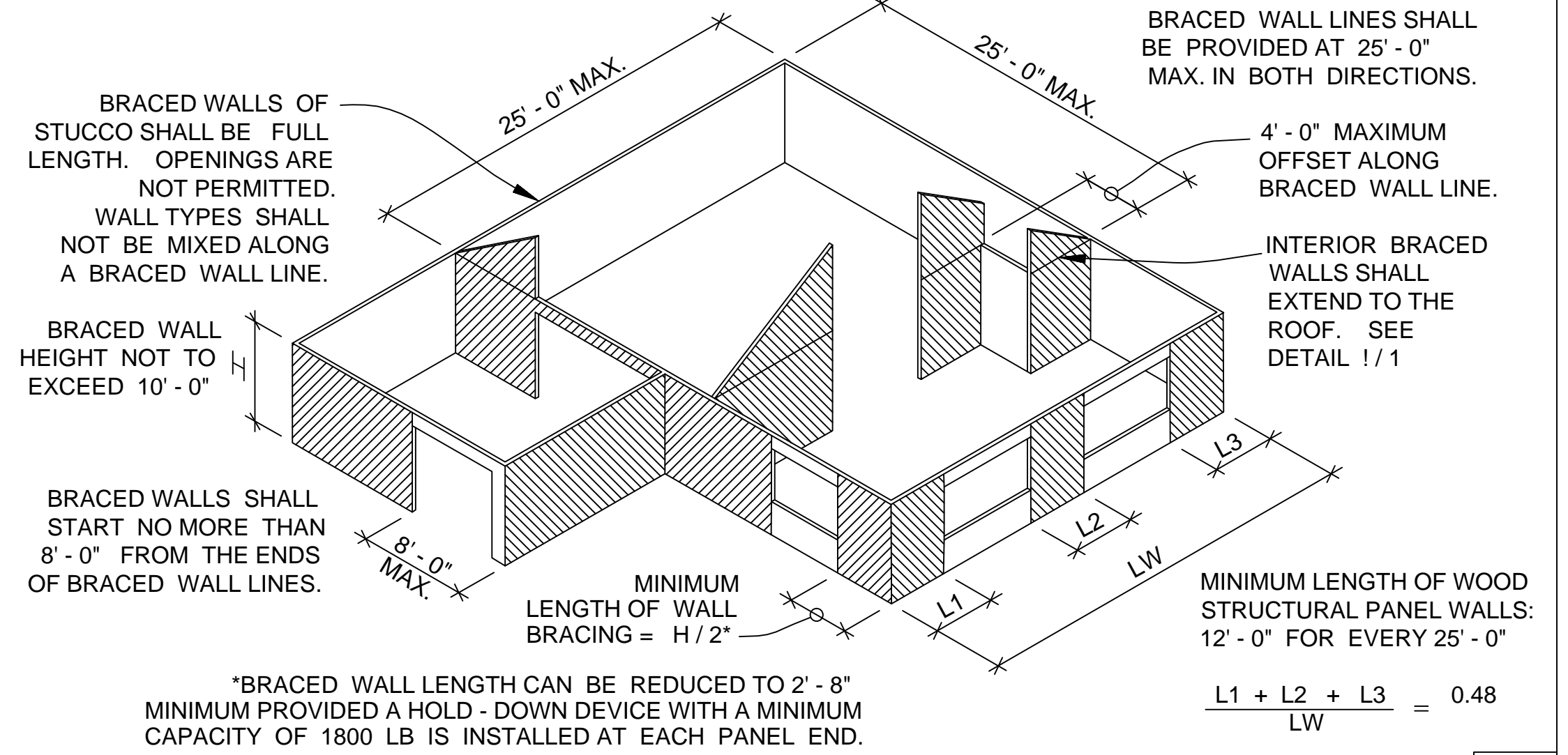
JOIST SPACING	DL=10 PSF, LL=40 PSF			
	2X6	2X8	2X10	2X12
12"	10'-9"	14'-2"	17'-9"	20'-7"
16"	9'-9"	12'-7"	15'-5"	17'-10"
24"	8'-1"	10'-3"	12'-7"	14'-7"

*DATA FROM CBC TABLE 2308.4.2.1(2).

DF#2 FLOOR JOISTS, ALLOWABLE SPANS*

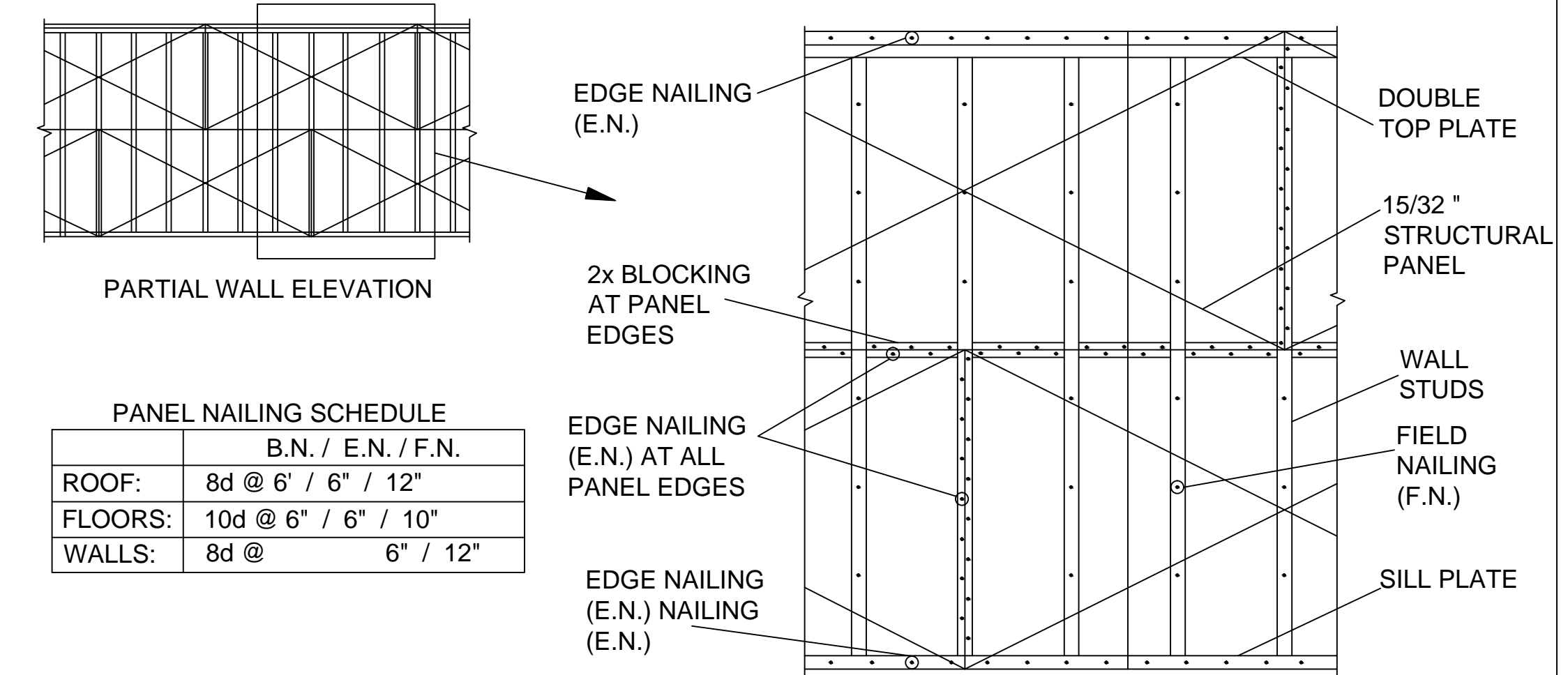
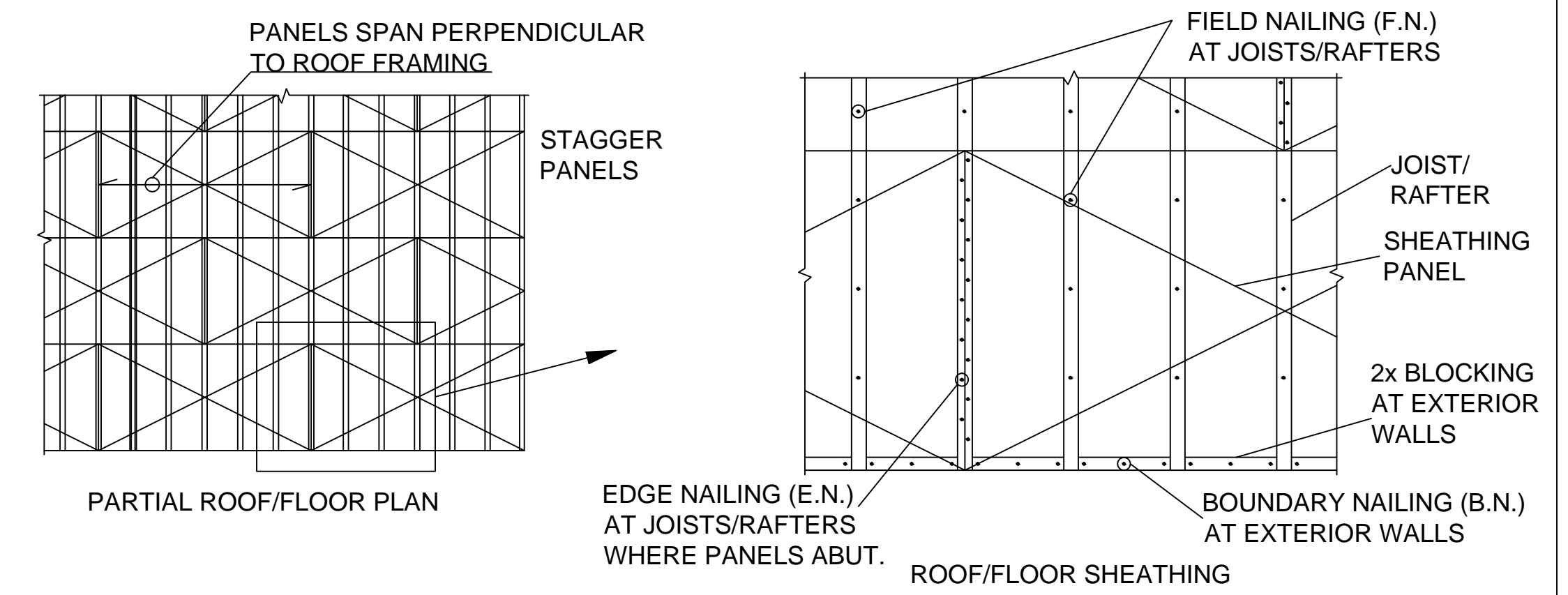
SPAN RATING ROOF/ FLOOR	SPAN THICKNESS	SHEATHING GRADES				ROOF				ROOF	
		MAX. SPAN (in.)		LOADS (psf.)		MAX. SPAN (in.)		PANEL EDGES WITH T&G JOINTS OR BLOCKING		MAX. SPAN (in.)	
		WITH EDGE SUPPORT	WITHOUT EDGE SUPPORT	TOTAL LOAD	LIVE LOAD	WITH EDGE SUPPORT	WITHOUT EDGE SUPPORT	TOTAL LOAD	LIVE LOAD	MAX. SPAN (in.)	MAX. SPAN (in.)
24/0	7/16, 1/2	24	20	40	30	0	0	0	0	0	0
14/16	7/16, 1/2	24	24	50	40	16	16	16	16	16	16
32/16	15/32, 1/2, 5/8	32	28	40	30	16	16	16	16	16	16
40/20	19/32, 5/8, 3/4, 7/8	40	32	40	30	20	20	20	20	20	20
48/24	23/32, 3/4, 7/8	48	36	45	35	24	24	24	24	24	24

*DATA FROM SBS TABLE 2304.8(3). SHEATHING PANELS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS AND PERPENDICULAR TO SUPPORTS. FOR 1/2" SHEATHING, MAXIMUM SPAN SHALL BE 24". EDGE SUPPORT MAY BE PROVIDED BY AND GROOVE EDGES, 2x BLOCKING, OR PANEL EDGE CLIPS.



BASIC COMPONENTS OF THE LATERAL BRACING SYSTEM

1



NOTES:
 (1) NAILS SHALL BE PLACED 3/8" FROM PANEL EDGES.
 (2) PROVIDE 1/8" GAP BETWEEN SHEATHING PANELS.
 (3) MINIMUM DIMENSION OF SHEATHING PANEL IN ANY DIRECTION SHALL BE 2'-0"
 (4) WALL SHEATHING PANELS MAY BE INSTALLED WITH THE LONG DIRECTION ORIENTED VERTICALLY.

PAGE 2 OF 2

SHEET NAME:

PROJECT:

SHEET #:

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD
 Project Name: 21114 Martin St - Addition
 Calculation Date/Time: 2023-04-17T21:28:01-07:00
 Calculation Description: Input File Name: 21114 Martin St Addition.rbd22
 CF1R-PRF-01-E (Page 1 of 9)

GENERAL INFORMATION

01	Project Name	21114 Martin St - Addition		
02	Run Title			
03	Project Location	21114 Martin St		
04	City	05	Standards Version	2022
06	Zip code	07	Software Version	CEEC-Res 2022.2.0
08	Climate Zone	09	Front Orientation (deg/ Cardinal)	270
10	Building Type	11	Number of Dwelling Units	1
12	Project Scope	13	Number of Bedrooms	4
14	Addition Cond. Floor Area (ft ²)	15	Number of Stories	1
16	Existing Cond. Floor Area (ft ²)	17	Fenestration Average U-factor	0.3
18	Total Cond. Floor Area (ft ²)	19	Glazing Percentage (%)	10.10%
20	ADU Bedroom Count	n/a		

ADDITION ALONE - Project Analysis Parameters

01	02	03	04	05	06
Existing Area (excl. new addition) (ft ²)	Addition Area (excl. existing) (ft ²)	Total Area (ft ²)	Existing Bedrooms	Addition Bedrooms	Total Bedrooms
1400	550	1950	3	1	4

COMPLIANCE RESULTS

01	Building Complies with Computer Performance
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.
03	This building incorporates one or more Special Features shown below

Registration Number: 423-P010064292A-000-000-0000000-0000
 Registration Date/Time: 04/17/2023 21:32
 HERS Provider: CHEERS
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 CA Building Energy Efficiency Standards - 2022 Residential Compliance
 Report Version: 2022.0.000
 Report Generated: 2023-04-17 21:28:14
 Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD
 Project Name: 21114 Martin St - Addition
 Calculation Date/Time: 2023-04-17T21:28:01-07:00
 Calculation Description: Input File Name: 21114 Martin St Addition.rbd22
 CF1R-PRF-01-E (Page 2 of 9)

ENERGY USE SUMMARY

Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kWh/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kWh/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	0	9.37	0	14.17	0	-4.8
Space Cooling	0	43.21	0	45.45	0	-2.24
IAQ Ventilation	0	11.87	0	4.75	0	7.12
Water Heating	0	102.59	0	102.59	0	0
Self Utilization/Flexibility Credit						
Efficiency Compliance Total	0	167.04	0	166.96	0	0.08
Photovoltaics		0		0		
Battery				0		
Flexibility						
Indoor Lighting	0	6.64	0	6.64		
Appl. & Cooking	0	56.65	0	56.56		
Plug Loads	0	66.85	0	66.85		
Outdoor Lighting	0	5.8	0	5.8		
TOTAL COMPLIANCE	0	302.98	0	302.81		

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ENERGY USE INTENSITY

	Standard Design (kBtu/ft ² -yr)	Proposed Design (kBtu/ft ² -yr)	Compliance Margin (kBtu/ft ² -yr)	Margin Percentage
Gross EUI ¹	56.39	56.9	-0.51	-0.9
Net EUI ²	56.39	56.9	-0.51	-0.9

Notes
 1. Gross EUI is Energy Use Total (not including PV) / Total Building Area.
 2. Net EUI is Energy Use Total (including PV) / Total Building Area.

REQUIRED SPECIAL FEATURES
 The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.
 • IAQ Ventilation System: as low as 0.14 W/CFM

HERS FEATURE SUMMARY
 The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry.
 • Minimum Airflow
 • Refrigerant Charge verification required if a refrigerant containing component is altered
 • Duct leakage testing

ZONE INFORMATION

01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft ²)	Avg. Ceiling Height	Water Heating System 1	Status
Addition	Conditioned	Existing HVAC System	550	8	Existing DHW System	New

OPAQUE SURFACES

01	02	03	04	05	06	07	08	09	10
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window and Door Area (ft ²)	Tilt (deg)	Wall Exceptions	Status
East Wall	Addition	R15 Exterior Wall	90	Back	176	33.35	90	none	New

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OPAQUE SURFACES

01	02	03	04	05	06	07	08	09	10
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window and Door Area (ft ²)	Tilt (deg)	Wall Exceptions	Status
South Wall	Addition	R15 Exterior Wall	180	Right	200	16	90	none	New
North Wall	Addition	R15 Exterior Wall	0	Left	200	6	90	none	New
Interior Wall Demising to SFH	Addition	RD Interior Wall	n/a	n/a	176	17.8	n/a	none	New
Ceiling (below attic)	Addition	R30 Ceiling	n/a	n/a	550	n/a	n/a	none	New

ATTIC

01	02	03	04	05	06	07	08
Name	Construction	Type	Roof Rise (x in 12)	Roof Reflectance	Roof Emissance	Radiant Barrier	Cool Roof
Attic	RD Roof w/ RB	Ventilated	4	0.1	0.85	Yes	No

FENESTRATION / GLAZING

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
6080 SGD	Window	East Wall	Back	90	5	6.67	1	33.35	0.3	NFRC	0.23	NFRC	Bug Screen
4040	Window	South Wall	Right	180	4	4	1	16	0.3	NFRC	0.23	NFRC	Bug Screen
3020	Window	North Wall	Left	0	3	2	1	6	0.3	NFRC	0.23	NFRC	Bug Screen

OPAQUE DOORS

01	02	03	04
Name	Side of Building	Area (ft ²)	U-factor
2 - 2868 Door	Interior Wall Demising to SFH	17.8	1

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SLAB FLOORS

01	02	03	04	05	06	07	08
Name	Zone	Area (ft ²)	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Slab On Grade	Addition	550	72	none	0	80%	No

OPAQUE SURFACE CONSTRUCTIONS

01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R15 Exterior Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-15	None / None	0.087	Inside Finish: Gypsum Board Cavity / Frame: R-15 / 2x4 Sheathing / Insulation: Wood Siding/sheathing/decking Exterior Finish: 3 Coat Stucco
RD Interior Wall	Interior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-0	None / None	0.232	Inside Finish: Gypsum Board Cavity / Frame: no insul. / 2x4 Sheathing / Insulation: Wood Siding/sheathing/decking Other Side Finish: Gypsum Board
RD Roof w/ RB	Attic Roofs	Wood Framed Ceiling	2x8 @ 16 in. O. C.	R-0	None / None	0.621	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x8
R30 Ceiling	Ceilings (below attic)	Wood Framed Ceiling	2x10 @ 24 in. O. C.	R-30	None / None	0.033	Over Ceiling Joists: R-6.0 Insul. Cavity / Frame: R-24.1 / 2x10 Inside Finish: Gypsum Board

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BUILDING ENVELOPE - HERS VERIFICATION

01	02	03	04	05
Quality Insulation Installation (QII)	High R-value Spray Foam Insulation	Building Envelope Air Leakage	CFM50	CFM50
Not Required	Not Required	N/A	n/a	n/a

WATER HEATING SYSTEMS

01	02	03	04	05	06	07	08	09
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	HERS Verification	Water Heater Name (#)
Existing DHW System	Domestic Hot Water (DHW)	Standard	0.56UEF Storage Water Heater	1	n/a	None	n/a	0.56UEF Storage Water Heater (1)

WATER HEATERS

01	02	03	04	05	06	07	08	09	10	11	12	13
Name	Heating Element Type	Tank Type	# of Units	Tank Vol. (gal)	Heating Efficiency Type	Efficiency	Rated Input Type	Input Rating or Pilot	Tank Insulation R-value (Int/Ext)	Standby Loss or Recovery Eff	1st Hr. Rating or Flow Rate	Tank Location
0.56UEF Storage Water Heater	Gas	Consumer Storage	1	50	UEF	0.56	8tu/Hr	75000	0	78	80	

WATER HEATING - HERS VERIFICATION

01	02	03	04	05	06	07
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Shower Drains Water Heat Recovery
Existing DHW System - 1/1	Not Required	Not Required	Not Required	None	Not Required	Not Required

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SPACE CONDITIONING SYSTEMS

01	02	03	04	05	06	07	08	09
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name	Required Thermostat Type
Existing HVAC System	Heating and cooling system other	80 AFUE Furnace	1	14 SEER Split AC	1	HVAC Fan System	Ducts in Attic	n/a

HVAC - HEATING UNIT TYPES

01	02	03	04
Name	System Type	Number of Units	Heating Efficiency
80 AFUE Furnace	Central gas furnace	1	AFUE-80

HVAC - COOLING UNIT TYPES

01	02	03	04	05	06	07	08	09
Name	System Type	Number of Units	Efficiency Metric	Efficiency EER/EER2/CEER	Efficiency SEER/SEER2	Zonally Controlled	Multi-speed Compressor	HERS Verification
14 SEER Split AC	Central split AC	1	EER/SEER	11.87	14	Not Zonal	Single Speed	14 SEER Split AC-hers-dist

HVAC - DISTRIBUTION SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
Name	Type	Design Type	Duct Ins. R-value Supply	Duct Ins. R-value Return	Duct Location Supply	Duct Location Return	Surface Area Supply	Surface Area Return	Bypass Duct	Duct Leakage	HERS Verification
Ducts in Attic	Unconditioned attic	Non-Verified	R-8	R-8	Attic	Attic	n/a	n/a	No Bypass Duct	Sealed and Tested	Ducts in Attic-hers-dist

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HVAC DISTRIBUTION - HERS VERIFICATION

01	02	03	04	05	06	07	08	09
Name	Duct Leakage Verification	Duct Leakage Target (%)	Verified Duct Location	Verified Duct Design	Buried Ducts	Deeply Buried Ducts	Low-leakage Air Handler	Low Leakage Ducts Entirely in Conditioned Space
Ducts in Attic-hers-dist	Yes	5.0	Not Required	Not Required	Not Required	Credit not taken	Not Required	No

HVAC - FAN SYSTEMS

01	02	03	04
Name	Type	Fan Power (Watts/CFM)	Name
HVAC Fan System	HVAC Fan	0.35	HVAC Fan System-hers-fan

HVAC FAN SYSTEMS - HERS VERIFICATION

01	02	03
Name	Verified Fan Watt Draw	Required Fan Efficacy (Watts/CFM)
HVAC Fan System-hers-fan	Not Required	0

INDOOR AIR QUALITY (IAQ) FANS

01	02	03	04	05	06	07	08	09
Dwelling Unit	Airflow (CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE	Includes Fault Indicator Display?	HERS Verification	Status
Sfsm IAQVentRpt 1-1	80	0.14	Exhaust	No	n/a	No	No	No

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I, I certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: Daniel Hernandez Rivera
 Company: DHR Engineering
 Address: 65 Pine Ave. Ste. 728
 City/State/Zip: Long Beach, CA 90802
 Phone: (777) 322-6379
 Signature Date: 04/17/2023
 CEAT/HERS Certification Identification (if applicable):

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.
 2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on any applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Responsible Designer Name: MANNY LOPES
 Responsible Designer Signature: MANNY LOPES
 Company: US TEKNO, LLC.
 Date Signed: 04/17/2023
 Address: 13731 Foothill Blvd
 License: N/A
 City/State/Zip: Sylmar, CA 91342
 Phone: (818)233-3816

Digitally signed by ConSol Home Energy Efficiency Rating System Services, Inc. (CHEERS). This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

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2022 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information. (04/2022)

Building Envelope:

Table with 2 columns: Code Section and Requirement. Includes sections for Air Leakage, Labeling, Field fabricated exterior doors and fenestration products, Insulation Certification by Manufacturers, Insulation Requirements for Heated Slab Floors, Roofing Products Solar Reflectance and Thermal Emittance, Radiant Barrier, Roof Deck, Ceiling and Rafters, Loose-Fill Insulation, Wall Insulation, Raised-Floor Insulation, Slab Edge Insulation, Vapor Retarder, Vapor Retarder, Vapor Retarder, Fenestration Products, Fireplaces, Decorative Gas Appliances, and Gas Log.

Space Conditioning, Water Heating, and Plumbing System:

Table with 2 columns: Code Section and Requirement. Includes sections for Certification, HVAC Efficiency, Controls for Heat Pumps with Supplementary Electric Resistance Heaters, Thermostats, Insulation, and Isolation Valves.

5/6/22



2022 Single-Family Residential Mandatory Requirements Summary

Table with 2 columns: Code Section and Requirement. Includes sections for Pilot Lights, Building Cooling and Heating Loads, Clearances, Liquid Line Drier, Water Piping, Solar Water-heating System Piping, Insulation Protection, Gas or Propane Water Heating Systems, and Solar Water-heating Systems.

Ducts and Fans:

Table with 2 columns: Code Section and Requirement. Includes sections for Ducts, Wall Insulation, Field-Fabricated Duct Systems, Factory-Fabricated Duct Systems, Field-Fabricated Duct Systems, Backdraft Damper, Gravity Ventilation Dampers, Protection of Insulation, Porous Inner Core Flex Duct, Duct System Sealing and Leakage Test, and Air Filtration.

5/6/22



2022 Single-Family Residential Mandatory Requirements Summary

Table with 2 columns: Code Section and Requirement. Includes section for Space Conditioning System Airflow Rate and Fan Efficacy.

Ventilation and Indoor Air Quality:

Table with 2 columns: Code Section and Requirement. Includes sections for Requirements for Ventilation and Indoor Air Quality, Central Fan Integrated (CFI) Ventilation Systems, Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses, Local Mechanical Exhaust, Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems, and Field Verification and Diagnostic Testing.

Pool and Spa Systems and Equipment:

Table with 2 columns: Code Section and Requirement. Includes sections for Certification by Manufacturers, Piping, Covers, Directional Inlets and Time Switches for Pools, Pilot Light, and Pool Systems and Equipment Installation.

Lighting:

Table with 2 columns: Code Section and Requirement. Includes sections for Lighting Controls and Components, Luminaire Efficacy, Recessed Downlight Luminaires in Ceilings, Light Sources in Enclosed or Recessed Luminaires, Blank Electrical Boxes, and Lighting Integral to Exhaust Fans.

5/6/22



2022 Single-Family Residential Mandatory Requirements Summary

Table with 2 columns: Code Section and Requirement. Includes sections for Screw based luminaires, Light Sources in Enclosed or Recessed Luminaires, Light Sources in Drawers, Cabinets, and Linen Closets, Interior Switches and Controls, Accessible Controls, Multiple Controls, Mandatory Requirements, Energy Management Control Systems, Automatic Shutoff Controls, Dimmers, Internally illuminated address signs, and Residential Garages for Eight or More Vehicles.

Solar Readiness:

Table with 2 columns: Code Section and Requirement. Includes sections for Single-family Residences, Minimum Solar Zone Area, Azimuth, Shading, Structural Design Loads on Construction Documents, Interconnection Pathways, Documentation, Main Electrical Service Panel, and Main Electrical Service Panel.

Electric and Energy Storage Ready:

Table with 2 columns: Code Section and Requirement. Includes section for Main Electrical Service Panel.

5/6/22



2022 Single-Family Residential Mandatory Requirements Summary

Table with 2 columns: Code Section and Requirement. Includes sections for Energy Storage System (ESS) Ready, Heat Pump Space Heater Ready, Electric Cooktop Ready, and Electric Clothes Dryer Ready.

*Exceptions may apply.

5/6/22

US TEKNO, LLC. CAD DRAFTING DESIGN & PROCESSING RESIDENTIAL AND COMMERCIAL EMAIL: LA@USTEKNO.COM 13731 FOOTHILL BLVD. SYLMAR, CA 91342

21114 Martin St, Carson, CA 90745

MANDATORY SUMMARY SHEET NAME:

OSCAR JUAREZ PROJECT:

A8 SHEET #: