METAL PRIVACY FENCE

100 LINEAR FT x 8 FT PANEL HEIGHT | STRAIGHT RUN STUDY

PROJECT / SITE INFORMATION

HOUSTON, TEXAS | NOV 16, 2026

PROJECT BASIS

PROPOSED SYSTEM

Vertical 24-gauge R-panel privacy fence on 14-gauge steel framing. Straight 100 ft study with 18 posts, 17 equal bays and three horizontal C-purlin rails per bay.

CRITICAL HEIGHT DISTINCTION

Panel top: 8 ft 0 in above grade. Modeled ornamental cap top: 8 ft 1.7 in above grade. The cap exceeds the 8 ft threshold; overall height must be resolved before permit determination.

CITY GUIDANCE / REVIEW STATUS

HEIGHT OVER 8 FT IN CURRENT MODEL

Houston Residential One-Stop Guide, revised Oct 2026: non-masonry, non-energized fences no higher than 8 ft do not require a building permit. Its fence checklist calls for a survey/site plan and a structural section designed by a Professional Engineer when plans are required.

Confirm project classification with Houston before filing.

SITE PLAN - OWNER / SURVEY INPUT REQUIRED

NO PROPERTY GEOMETRY PROVIDED

INSERT TEXAS REGISTERED SURVEY OR COMPLETE SITE PLAN HERE

Show the actual proposed fence alignment, dimensioned to property lines.



SCHEMATIC 100 FT STRAIGHT RUN - NOT A SITE LOCATION

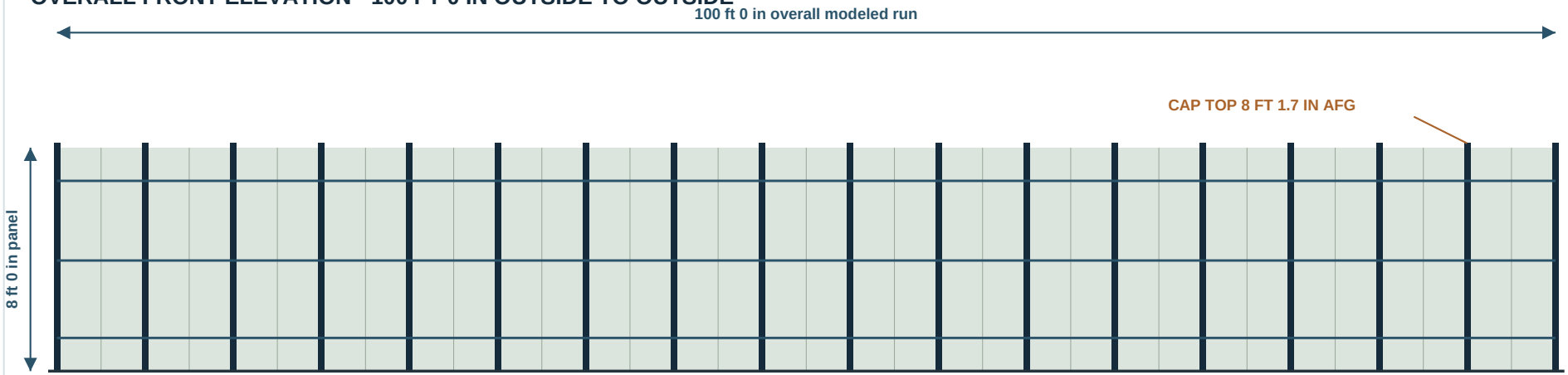
Add: address / lot and block / north arrow / property lines / setbacks / easements

REQUIRED BEFORE ANY SUBMITTAL

- ☐ Site address and Texas registered survey or accurate site plan
- ☐ Fence location, dimensions to all property lines and easements
- ☐ Street frontage, gates, access and visibility requirements
- ☐ Existing grade, utilities, drainage and adjacent conditions
- ☐ PE design: wind pressure, posts, connections and footing geometry
- ☐ Manufacturer R-panel profile, coverage and fastener schedule
- ☐ Verify historic district, deed restrictions and other approvals

No survey, address, gate or engineered details were supplied.

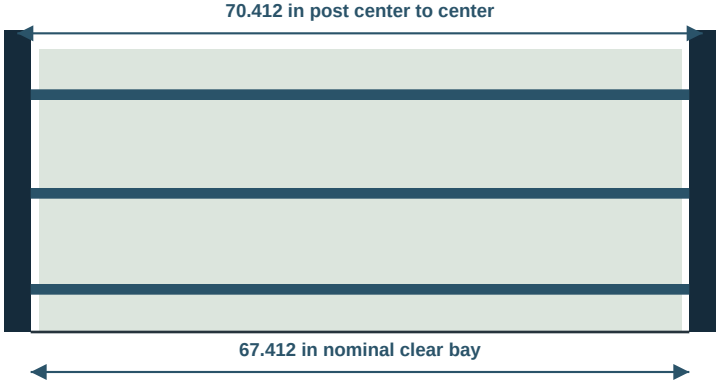
OVERALL FRONT ELEVATION - 100 FT 0 IN OUTSIDE TO OUTSIDE



18 POSTS AT 17 EQUAL BAYS | 70.412 IN POST C/C | 67.412 IN NOMINAL CLEAR BAY

34 SCHEMATIC PANELS (2 PER BAY) | 51 C-PURLIN RAIL SEGMENTS (3 PER BAY)

TYPICAL BAY - ENLARGED



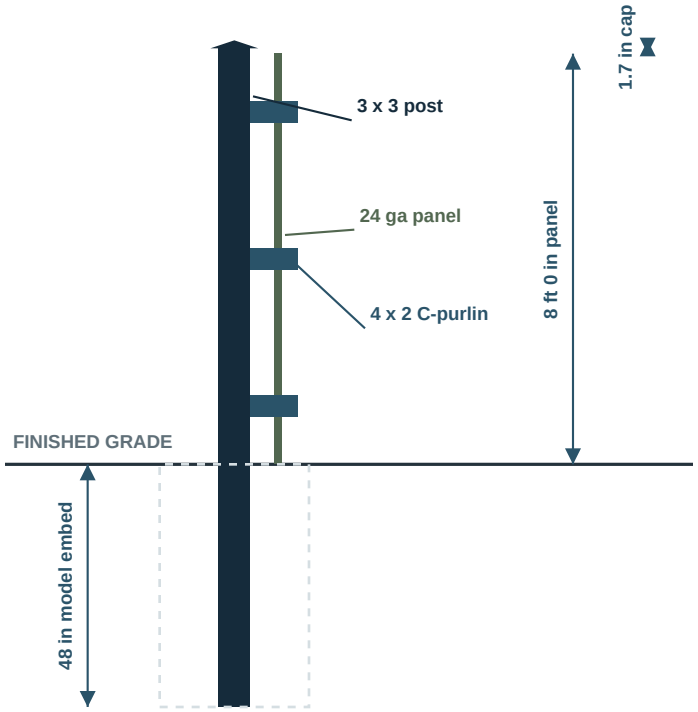
R-panel laps and actual net coverage: verify manufacturer data.

MODEL DIMENSIONS / FIELD VERIFICATION

Overall run	100 ft 0 in outside post faces
Panel height	8 ft 0 in above finished grade
Cap projection	1.7 in above panel; 8 ft 1.7 in total
Post section	3 x 3 in square tube, 14 ga (proposed)
Rail section	4 x 2 in C-purlin, 14 ga (proposed)
Panel	Vertical R-panel, 24 ga (proposed)
Rail center heights	14, 48, 82 in AFG in visual model

Dimensions shown are modeled assumptions, not structural approval.

POST / PANEL SECTION - CONCEPT ONLY



FOOTING DIA / DEPTH / CONCRETE: BY LICENSED PE

48 in embed is a visual CAD assumption only.

PROPOSED COMPONENT SCHEDULE

MARK	QTY	DESCRIPTION	REFERENCE
P01-P18	18	3 x 3 in square steel tube; 14 ga	12 ft cut (model)
R01-R51	51	4 x 2 in galvanized C-purlin; 14 ga	67.412 in visual cut
S01-S34	34	24 ga vertical R-panel	8 ft panel length
CAP01-18	18	Ornamental cap, black finish	style/attachment TBD

Specified wall thickness, steel grade, galvanizing, coatings, welding, fastener type/spacing and panel lap are NOT established by this study. Obtain product data and PE-approved details.

CONNECTIONS / DESIGN HOLD POINTS

- PE to establish wind design, post capacity and foundation size/depth for actual soils and site exposure.
- PE to detail rail-to-post welds or bolts, sheet fasteners, cap attachment and corrosion protection.
- Confirm buried utilities and keep piers out of easements; verify fence within property limits.
- Confirm exact panel profile and effective coverage before ordering or cutting materials.

Reference: Houston Residential One-Stop Guide CE-1050, Oct 2026.