

STRUCTURAL NOTES:

GENERAL NOTES:

- CODES AND SPECIFICATIONS:
 - FLORIDA BUILDING CODE 2023, 8TH EDITION
 - ALUMINUM DESIGN MANUAL 2020 EDITION
- ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. DO NOT SCALE THE DRAWINGS, FOLLOW THE WRITTEN DIMENSIONS ONLY. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTED AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES TO ENSURE SAFETY OF THE BUILDING AND IT'S COMPONENTS DURING ERECTION.
- DESIGN LOADS:

THE STRUCTURAL FRAMING WAS DESIGNED USING THE F.B.C. 2023 8th EDITION, AND THE FOLLOWING SUPERIMPOSED LOADS. DESIGN LOADS WIND WERE DETERMINED IN ACCORDANCE WITH ASCE 7-22.

WIND LOADS: (FENCE, GATES 6 FT. HEIGHT MAZ.)
WIND VELOCITY 115 MPH EXPOSURE CATEGORY C
IMPORTANCE FACTOR: 1.0
GCP: +/- 0.00 , KD: 0.85
LATERAL BEARING: 400 (PSF/FT BELOW NATURAL GRADE)
FACTOR: 3.00

5. STRUCTURAL ALUMINUM:

THESE SPECIFICATIONS SHALL APPLY TO DESIGN ALUMINUM ALLOY LOAD CARRYING MEMBERS. COMPUTATION OF FORCES, MOMENTS, STRESSES AND DEFLECTIONS SHALL BE IN ACCORDANCE WITH ACCEPTED METHODS OF ELASTIC STRUCTURAL ANALYSIS AND ENGINEERING DESIGN.

ALL ELEMENTS SHALL BE ALUMINUM ALLOY 6061-T6 UNLESS NOTED OTHERWISE.

ALUMINUM WELDING:

ALL WELDS TO COMPLY WITH AWS CODE (LATEST EDITION). COVER WELDS WITH CORROSION RESISTANT COATING. STRUCTURES ARE DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES: ALUMINUM DESIGN MANUAL.

ALL FRAMES HAVE BEEN DESIGNED USING RATIONAL ANALYSIS. ALL CONNECTIONS SHALL BE FULL WELDED (U.O.N.) WITH THE STRUCTURAL ALUMINUM ALLOY FILLET WELDS 5358, UUNLESS NOTED OTHERWISE. ALL WELDING OF STRUCTURAL ALUMINUM MEMBERS SHALL BE PERFORMED BY CERTIFIED WELDERS.

ALL FASTENERS SHALL BE SS SELF DRILLING FASTENERS BY ITW BUILDEX. ALL TAPCON ANCHORS SHALL BE SS TAPCON ANCHORS WITH WASHERS UNDER THE TURNED ELEMENT. BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH THE TURN-OF-THE-NUT METHOD.

ALUMINUM MEMBERS IN CONTACT WITH CONCRETE SHALL BE PROTECTED WITH ALKALI-RESISTANT COATING, SUCH AS HEAVY BODIED BITUMINOUS PAINT OR WATER-WHITE METHACRYLATE LACQUER ACCORDING TO THE FLORIDA BUILDING CODE 2020, 7TH EDITION, SECTION 200338.4.4. ALUMINUM CONTACTING METALS NOT CONSIDERED COMPATIBLE SHALL BE PROTECTED AS FOLLOWS:

- PAINTING THE DISSIMILAR METAL WITH A PRIME COAT OF ZINC-CHROMATE PRIMER OR OTHER SUITABLE PRIMER, FOLLOWED BY ONE OR TWO COATS ALUMINUM-METAL-AND-MASONRY PAINT OR OTHER SUITABLE PROTECTIVE COATING, EXCLUDING THOASE CONTAINING PIGMENTATION.
- PAINTING THE DISSIMILAR MATERIAL METAL WITH A COATING OF A HEAVY-BODIED BITUMINOUS PAINT
- PLACING A GOOD QUALITY CAULKING MATERIAL BETWEEN THE ALUMINUM AND THE DISSIMILAR METAL.
- APPLYING A NONABSORPTIVE TAPE OR GASKET.
- HOT-DIP GALVANIZING OR ZINC-PLATING STEEL MEMBERS AFTER FABRICATION.

6. CONCRETE NOTES:

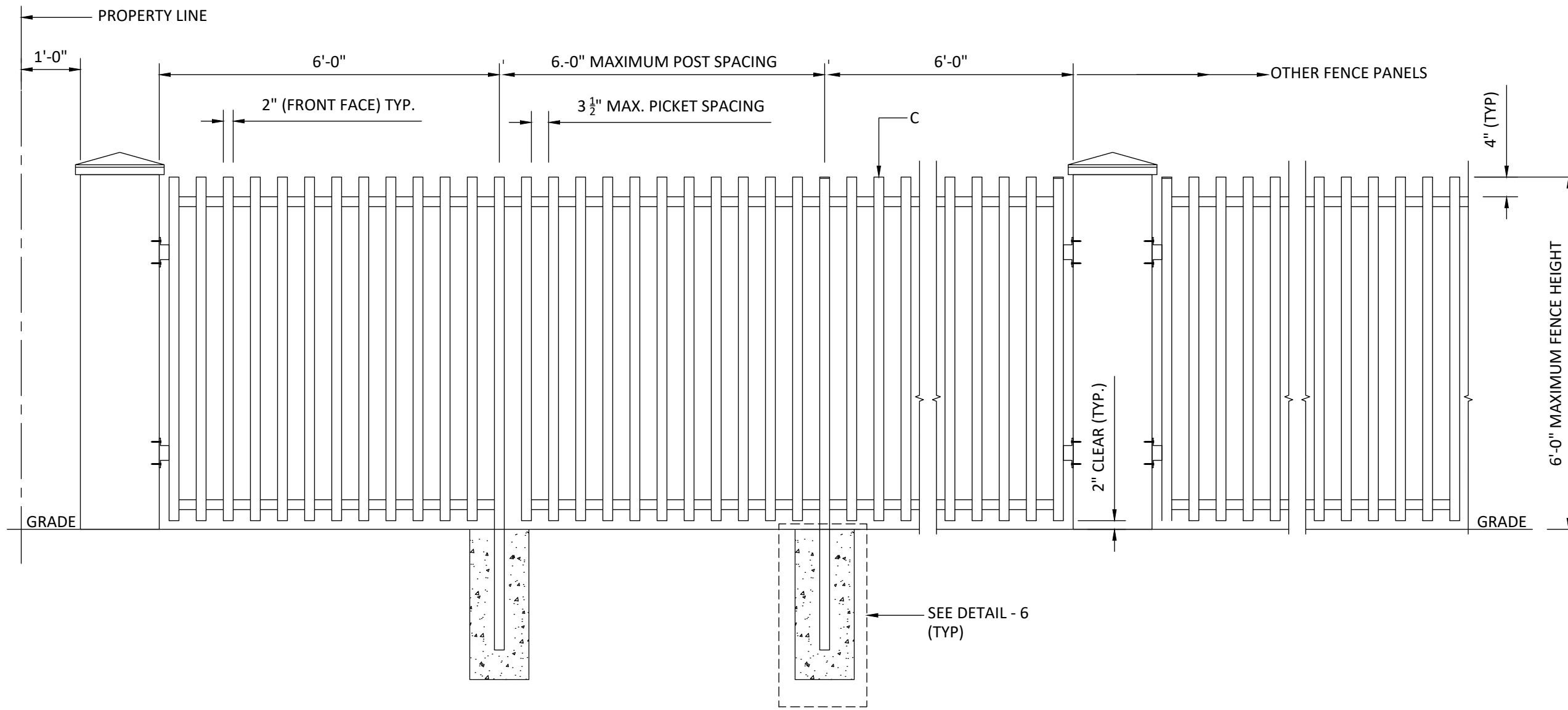
CONCRETE STRENGTH SHALL BE A MINIMUM OF 3000 PSI AT 28 DAYS. CONCRETE COVER ACCORDING TO ACI 318-18.

- SOIL STATEMENT:

FOUNDATIONS HAVE BEEN DESIGNED BASED ON AN ALLOWABLE BEARING LATERAL CAPACITY OF 400 PSF/FT AND AN END BEARING CAPACITY OF 2000 PSF.

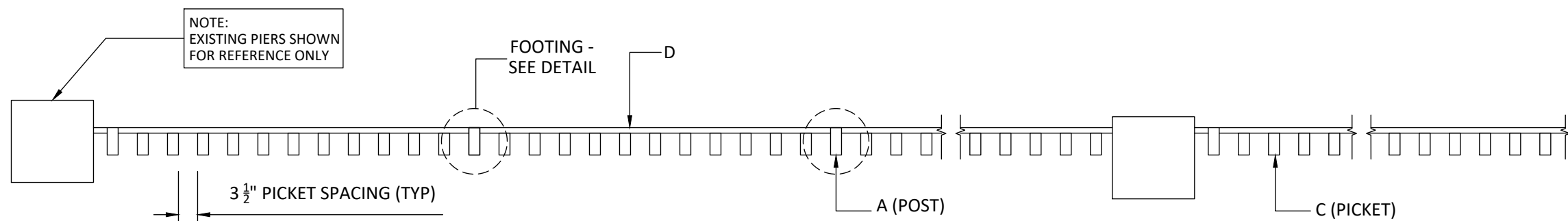
LEGEND:

- ALUMINUM POSTS TUBE 5"x2"x $\frac{1}{8}$ " (6'-0" MAX. HEIGHT)
- TOP CHORD ALUMINUM TUBE 4"x2"x $\frac{1}{8}$ "
- VERTICAL PICKETS 4"x2"x $\frac{1}{8}$ " SPACED AT 3 $\frac{1}{2}$ "
- FENCE HORIZONTALS ALUMINUM TUBE 2"x1"x $\frac{1}{8}$ " (BEHIND)
- ALUMINUM CHANNEL 1 $\frac{1}{2}$ " x $\frac{3}{4}$ " x $\frac{1}{8}$ "
- GATE FRAMING ALUMINUM TUBE 3"x2"x $\frac{1}{8}$ "
- POSTS BOTH SIDES OF GATE ALUMINUM TUBE 4"x4"x $\frac{1}{2}$ "
- SELF CLOSING LOCK
- HINGE
- SELF CLOSING SPRING
- ALUMINUM J BOLT LOCK. SEE DETAIL
- ALUMINUM PLATE 4"x4"x $\frac{1}{2}$ " (TYP.) OR 3"x3"x $\frac{1}{2}$ " (TYP.)
- ALUMINUM J BOLT LOCK. SEE DETAIL
- POLLY ROLLERS
- 4" STEEL WHEELS
- V-TRACK
- TOP RECEIVING PLATE
- ALUMINUM SHOE WITH EARS WITH 2-1/4" DIA. TAPCONS (2" EMBEDMENT)



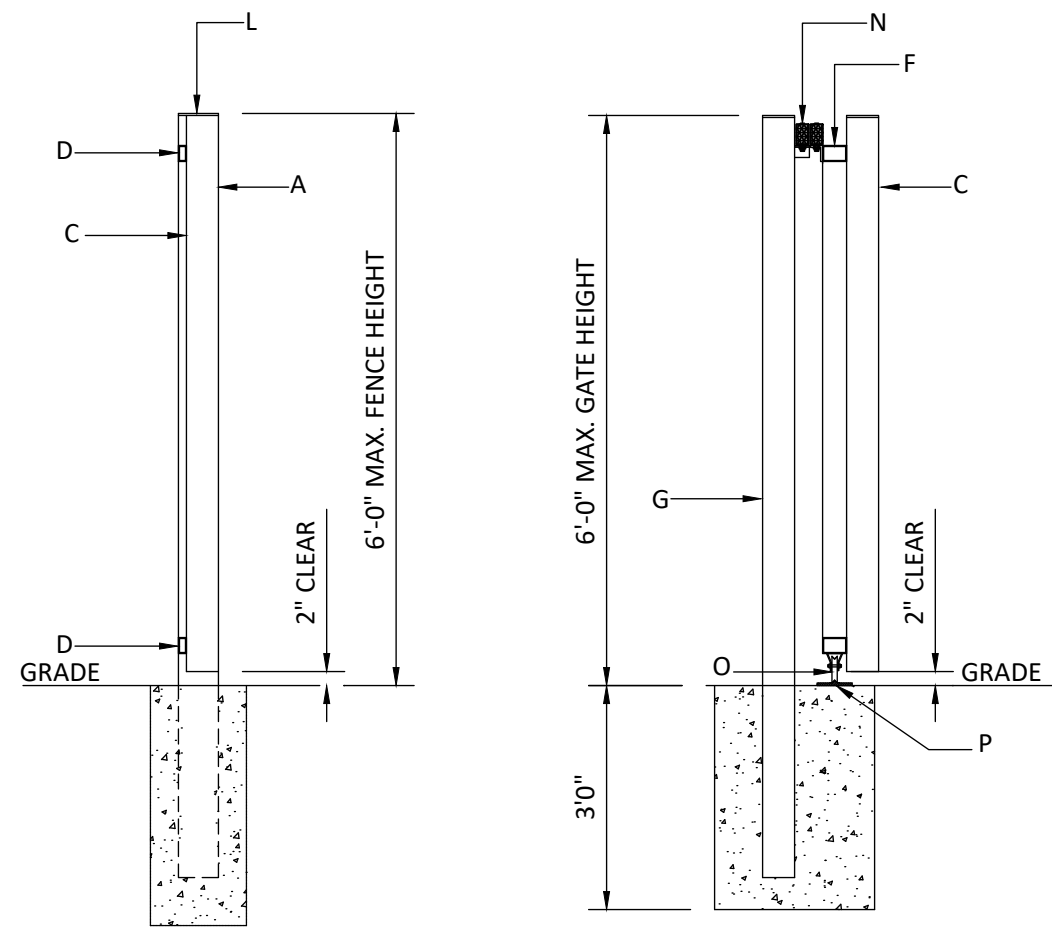
PARTIAL FENCE ELEVATION DETAIL

SCALE: $\frac{1}{2}$ " = 1'-0"



PARTIAL FENCE PLAN VIEW

SCALE: $\frac{1}{2}$ " = 1'-0"

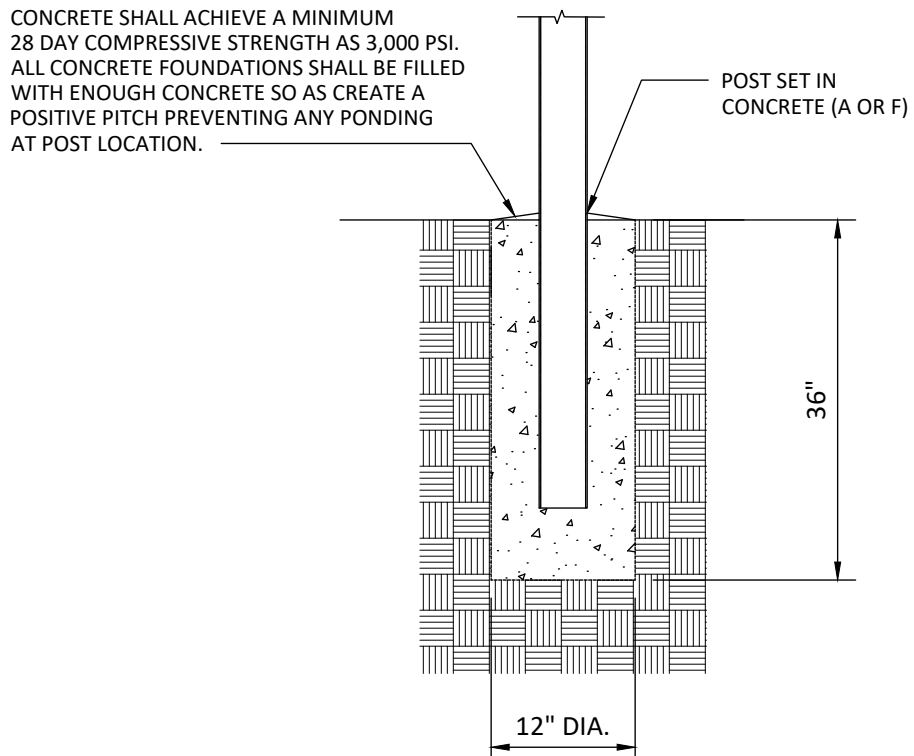


SECTION - 1

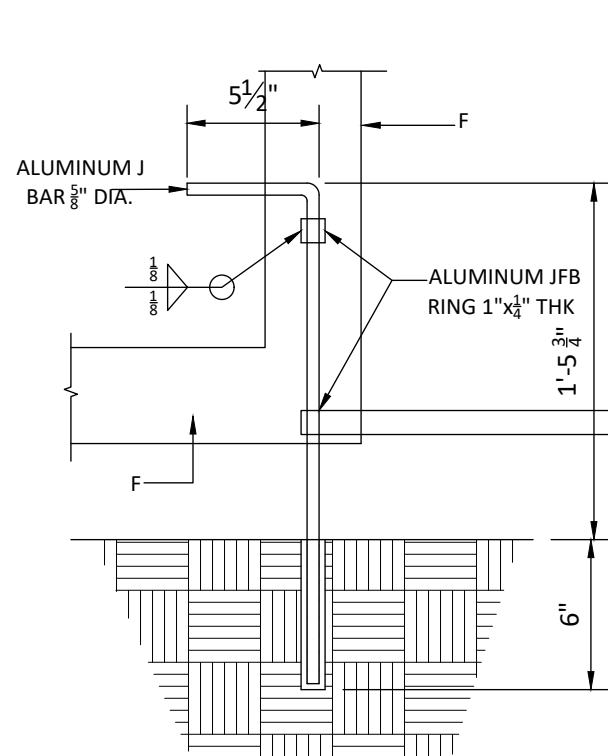
SCALE: $\frac{1}{2}$ " = 1'-0"

SECTION - 2

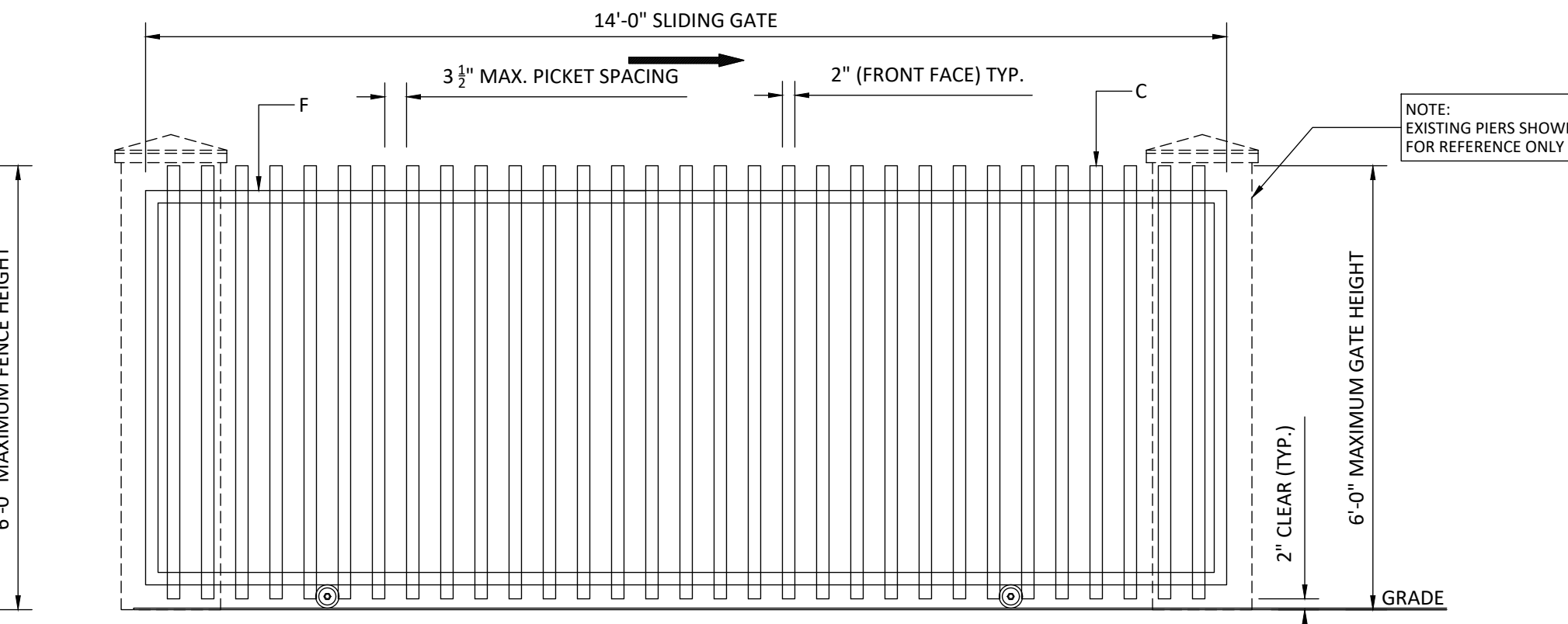
SCALE: $\frac{1}{2}$ " = 1'-0"



DETAIL - 6
CONCRETE FOOTING

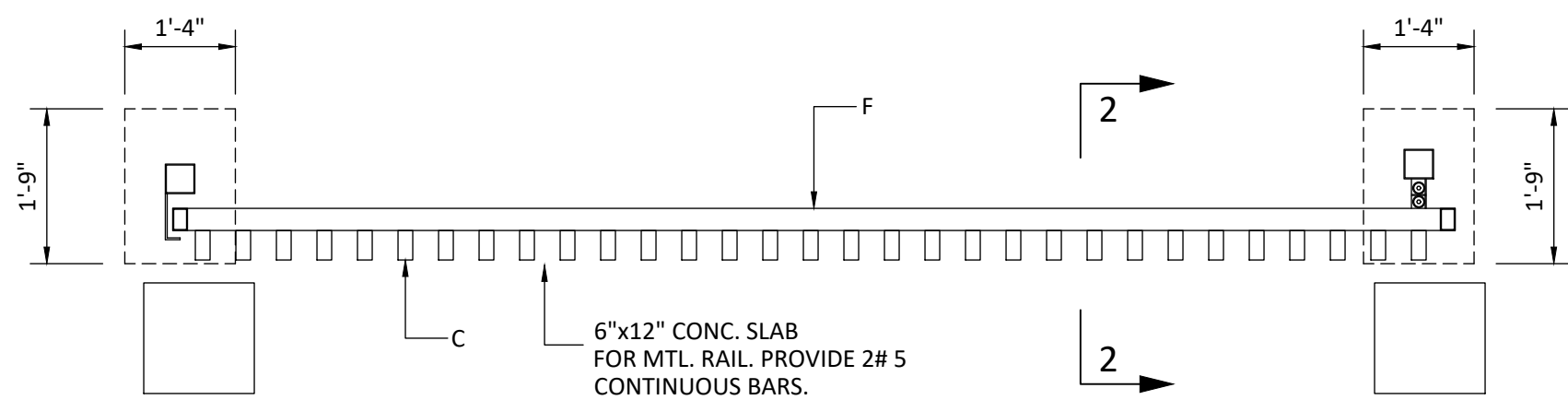


DETAIL - 3

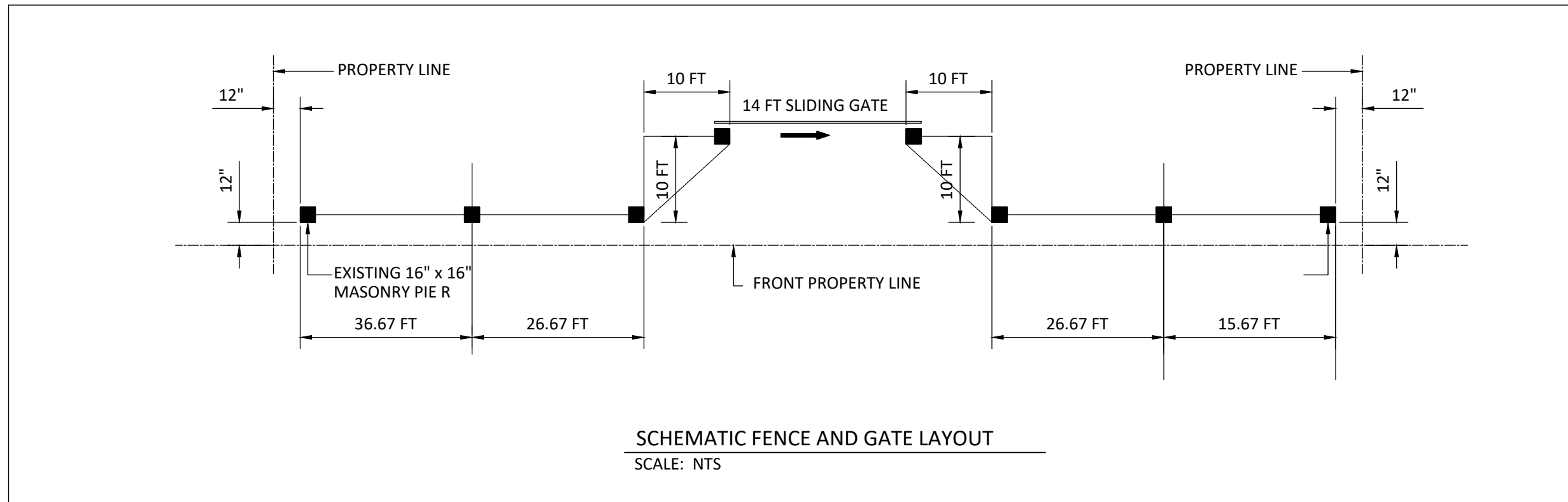


GATE ELEVATION DETAIL

SCALE: $\frac{1}{2}$ " = 1'-0"



GATE TOP VIEW



SCHEMATIC FENCE AND GATE LAYOUT

SCALE: NTS

JOSE R. VASQUEZ, P.E.

LIC. # 66798

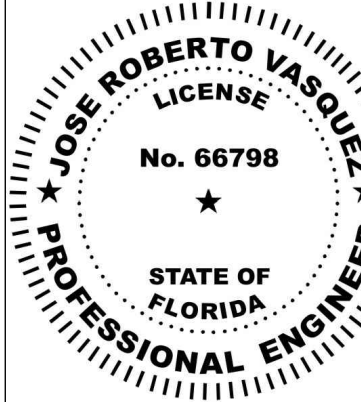
7810 SW 32nd STREET,
MIAMI, FL 33155

PH: (786) 862-9072

THIS ITEM HAS BEEN DIGITALLY SIGNED
AND SEALED BY:

ON THE DATE OF THE SEAL
PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED
AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES

SEAL



FENCE/GATE SHOP DRAWING FOR:

5900 LLC

5900 SW 114 TER
MIAMI, FL 33156

PROJECT

FENCE AND
GATE DETAILS

ISSUE DATE: 02/02/2026

PROJECT No.: QDG 26-040

DRAWN BY: DV

APPROVED BY: RV

1	REVIEW COMMENTS	7/08/2025
2	REVIEW COMMENTS	7/24/2025
3	REVIEW COMMENTS	8/21/2025

REVISIONS

STRUCTURAL
FENCE DETAILS

SHEET TITLE

AS NOTED

SCALE

S-1

1 OF 1

SHEET NUMBER