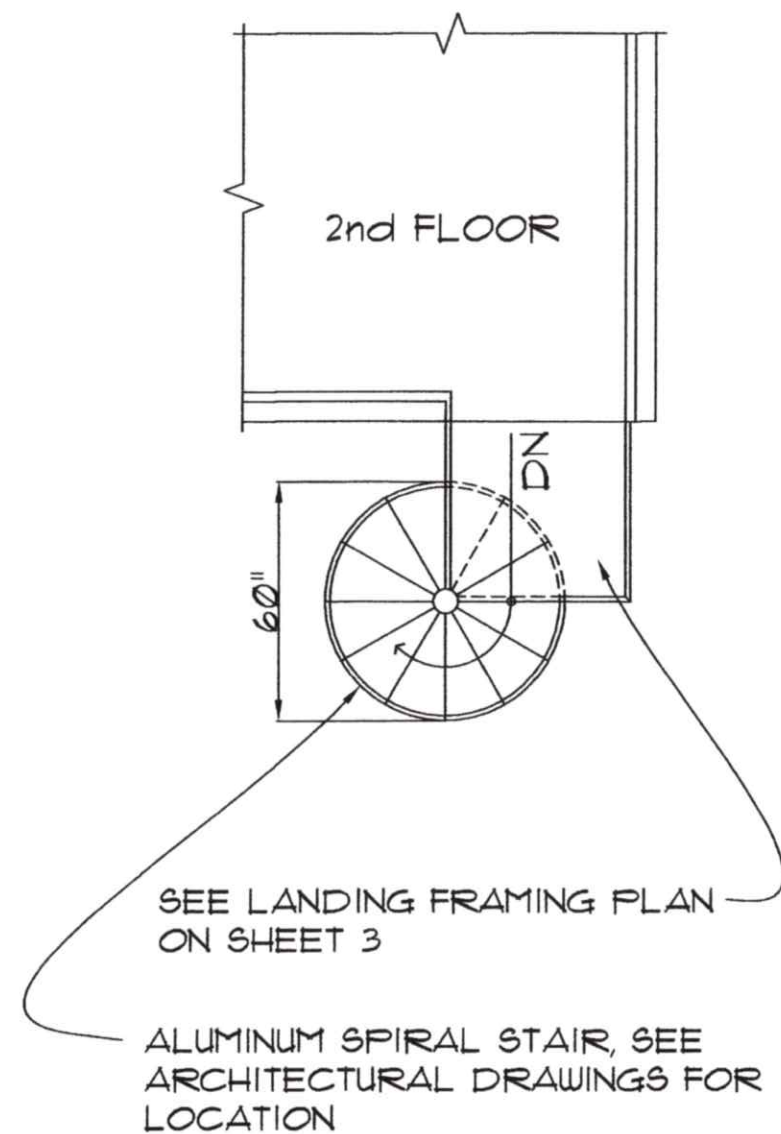




SPIRAL STAIR PLAN

CUETO ENGINEERING SHOP DRAWING / SUBMITTAL REVIEW	
☐ APPROVED	☐ REJECTED
☒ APPROVED AS NOTED	☐ REVISE & RESUBMIT
This submittal has been reviewed for design conformity and general compliance with Contract Documents. The Contractor is solely responsible for: confirming all dimensions and quantities; procedures, means, methods, techniques, and sequences of fabrication and construction; coordination of work for all trades; and full compliance with design documents.	
By: <u>Nestor A. Cueto, PE</u> Date: <u>05/27/2025</u>	

Note:

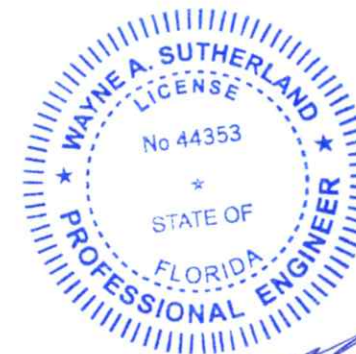
- 1) Provide a barrier such as anti-corrosion primer between dissimilar metals (i.e. SS & Alum) .
- 2) Provide a barrier such as bitumen or epoxy grout between aluminum and concrete.

GENERAL NOTES

1. FIELD VERIFY DIMENSIONS AND EXISTING CONDITIONS PRIOR TO FABRICATION OF STAIRS AND LANDINGS
2. REPORT DISCREPANCIES TO THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION
3. COORDINATE AND VERIFY DIRECTION OF TRAVEL WITH SITE CONDITIONS AND ARCHITECTURAL DRAWINGS.

STRUCTURAL NOTES

1. EFFECTIVE CODES: FBC 2023, ASCE 7-22, ACI 318-19, ADMI-2020.
2. WIND DESIGN CRITERIA: WIND SPEED 175 MPH, RISK II EXPOSURE: C
3. LIVE LOAD: 40 PSF
4. CONCENTRATED LOAD ON TREADS, 300 LB
5. 50 LB/FT ON HANDRAILS AND TOP RAILS (APPLIED HORIZONTALLY ALONG TOP)
6. 200 LB (APPLIED HORIZONTALLY AT TOP OF POST)
7. ALL MEMBERS TO BE 6061-T6 ALUMINUM
8. ALL SCRWES TO BE STAINLESS STEEL
9. UNDERSIDE OF LANDING PLATE TO BE WELDED TO PLATES AND TUBES WITH 1" LONG $\frac{1}{8}$ " FILLET WELDS AT MAXIMUM 8" ON CENTER
10. WELD FILLER ALLOY TO BE 5183



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SPIRAL STAIRS AT
12715 ROLLING ROAD DRIVE
PINECREST, FL 33156

R&D ENGINEERS
13400 SW 134 AVE., #1
MIAMI, FL 33186
786-223-9479

SEAL

Wayne Sutherland
FL PE # 44353
Structural CIVIL

Date:
APR 28, 2025

Scale:

Sheet:

1 of 3

CUETO ENGINEERING
SHOP DRAWING / SUBMITTAL REVIEW

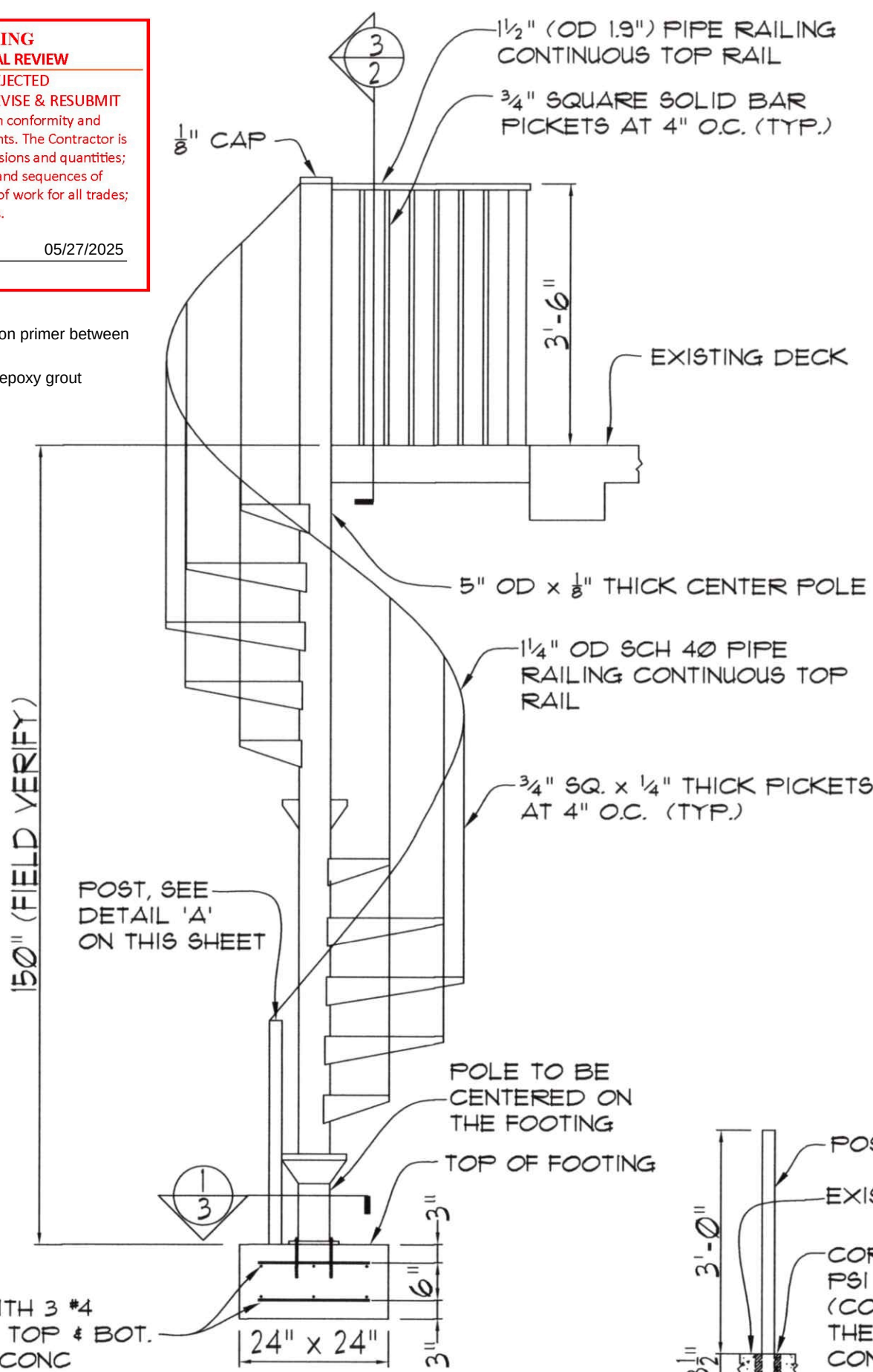
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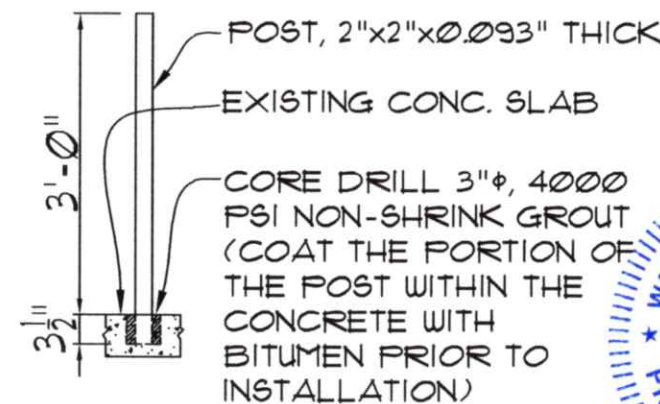
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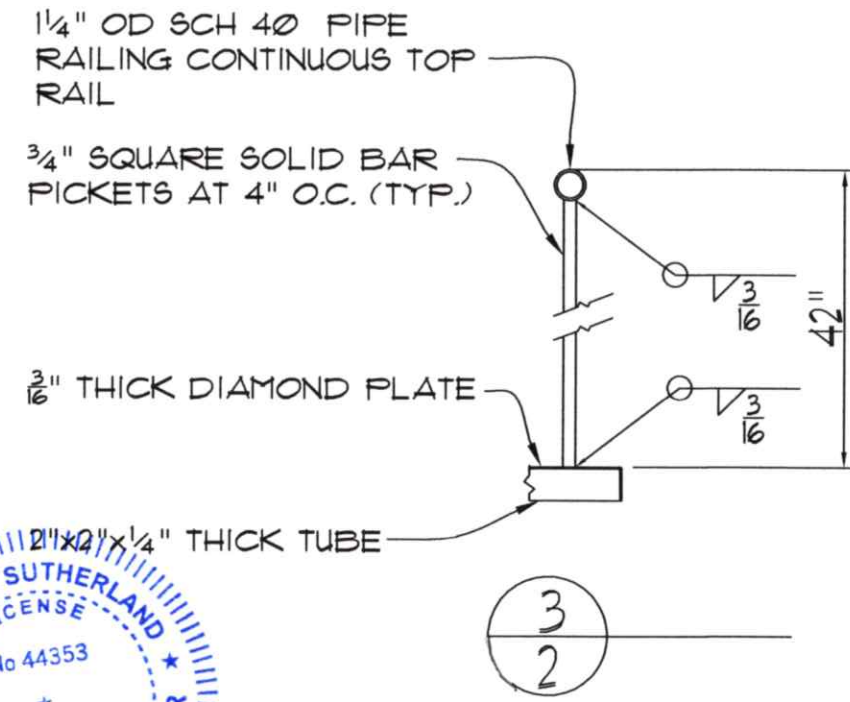
ELEVATION VIEW

DIMENSIONS

1. HEADROOM TO BE MINIMUM 78"
2. WALKLINE RADIUS MAXIMUM 24.5"
3. SPIRAL STAIRWAY SHALL HAVE A 6 3/4" MINIMUM CLEAR TREAD DEPTH AT A POINT 12" FROM THE WALKLINE, BUT SHALL NOT BE MORE THAN 9 1/2"
4. THE RISERS SHALL BE SUFFICIENT TO PROVIDE A HEADROOM OF 78" MINIMUM.
5. THE MINIMUM STAIRWAY CLEAR WIDTH AT AND BELOW THE HANDRAIL SHALL BE 26".
6. ALL TREADS TO BE IDENTICAL.
7. HANDRAIL TO BE MINIMUM 1 1/4", MAXIMUM 2" OUTSIDE DIAMETER (GRIP SIZE)
8. VERTICAL RISE TO BE MAXIMUM 12'-0" BETWEEN LEVELS OR LANDINGS



DETAIL 'A'



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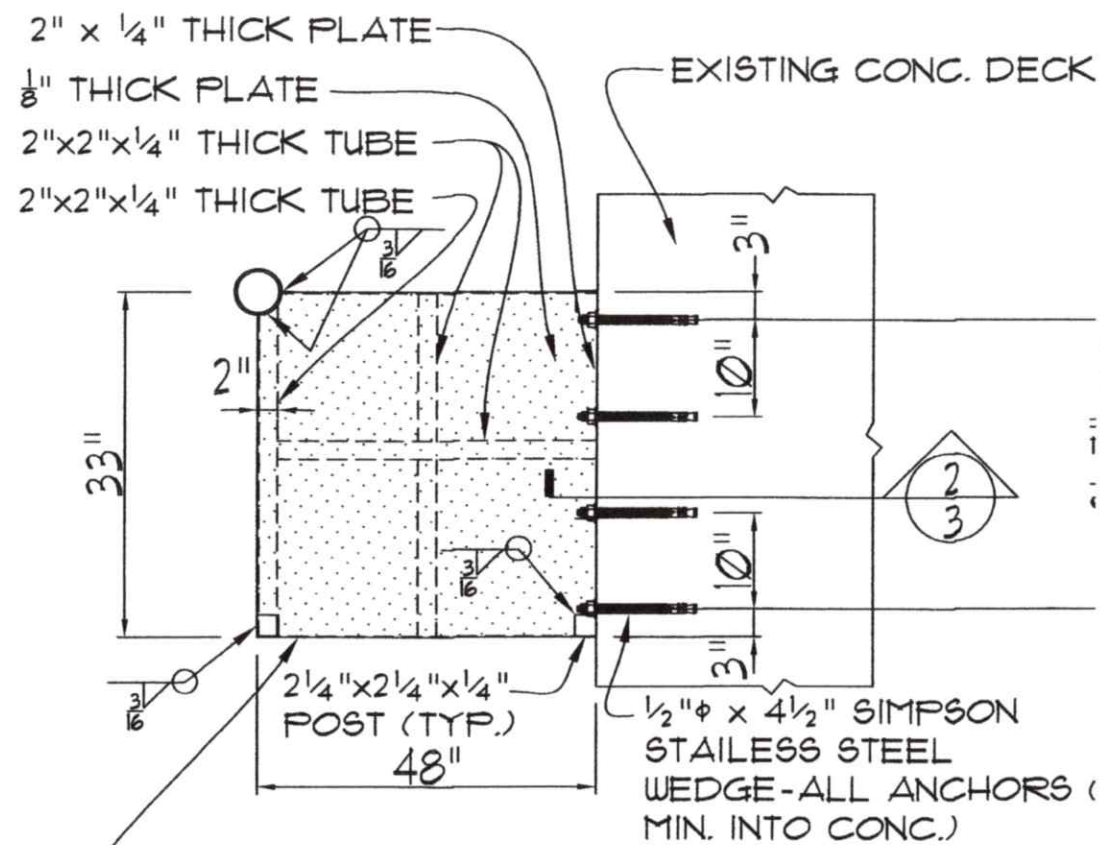
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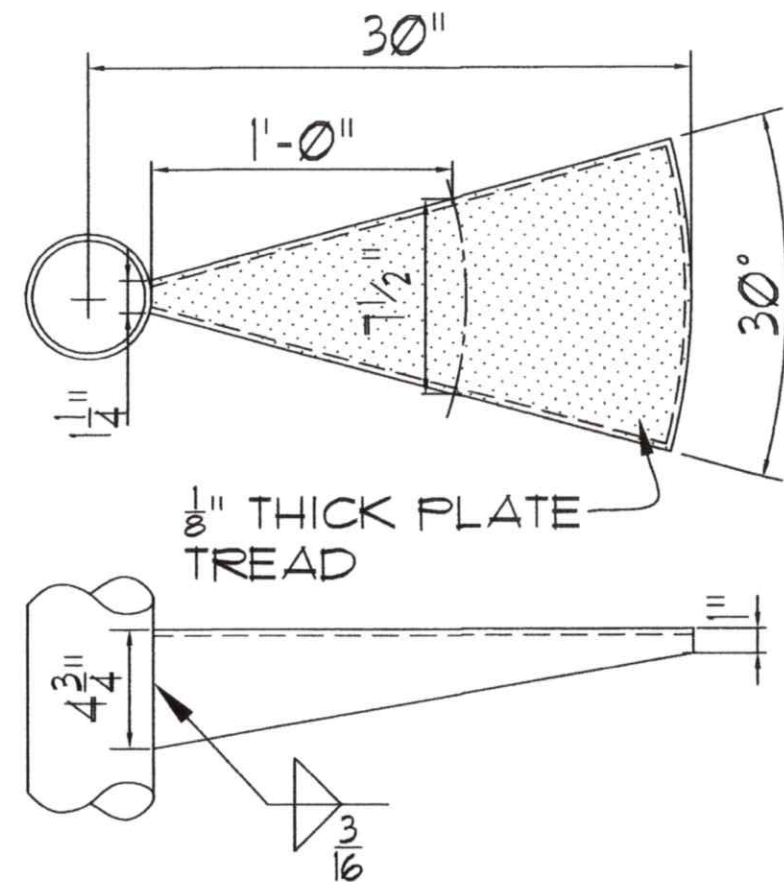
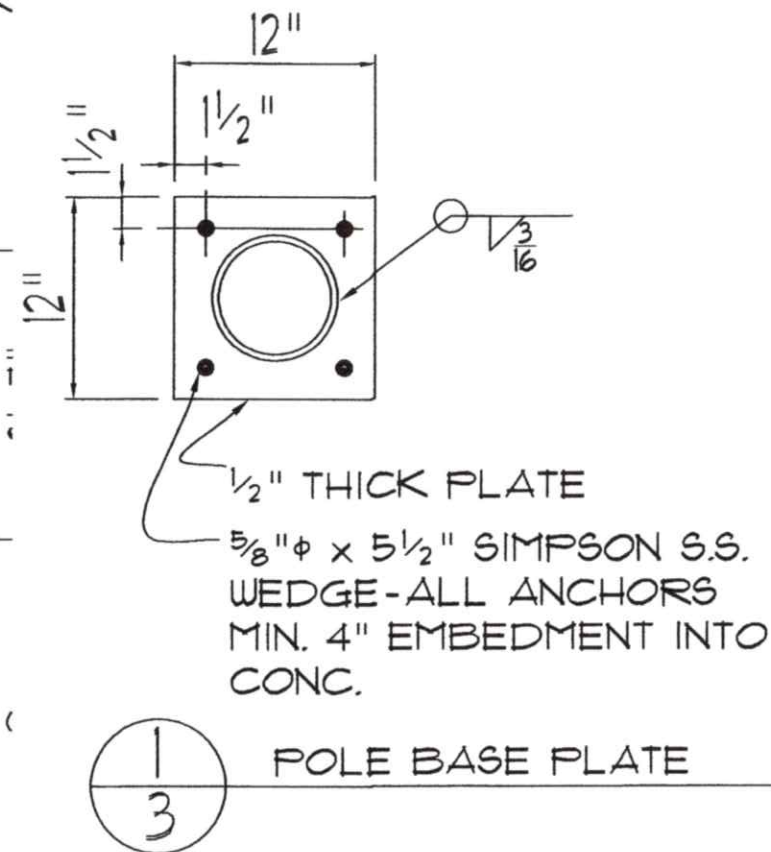
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2 of 3



DOWNTURN PLATE EDGES 2"
(TYP, FOUR EDGES)

LANDING FRAMING PLAN



TREAD DETAIL

CUETO ENGINEERING
SHOP DRAWING / SUBMITTAL REVIEW

[] APPROVED [] REJECTED
[] APPROVED AS NOTED [] REVISE & RESUBMIT

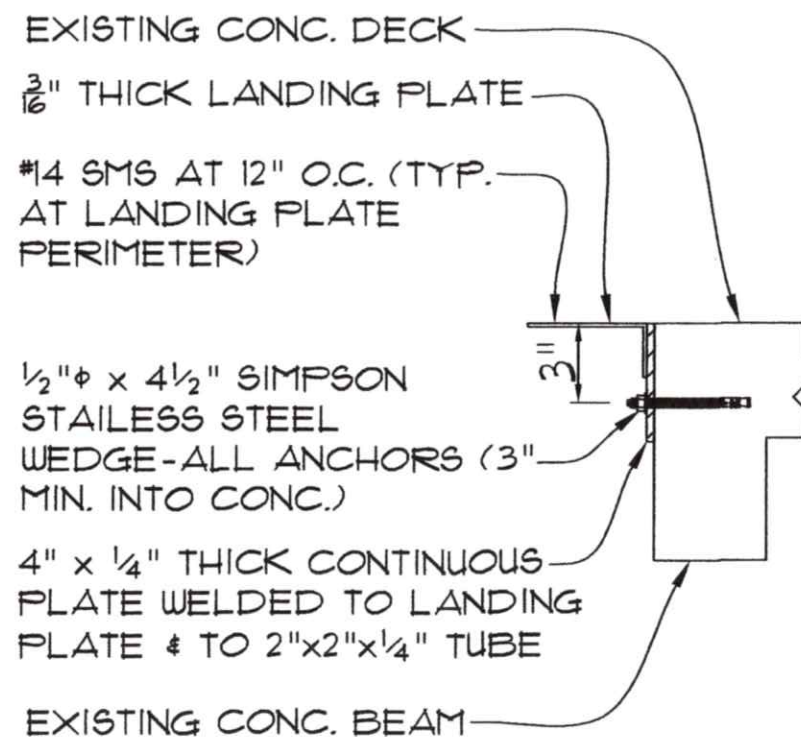
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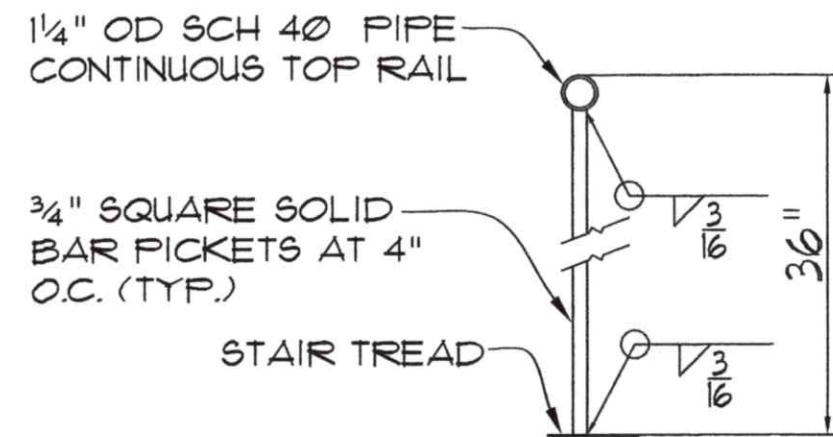
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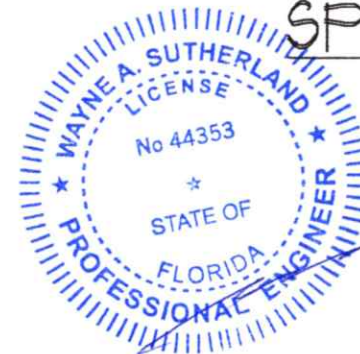
N.A. Cueto



SECTION 2



SPIRAL STAIR RAILING



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