

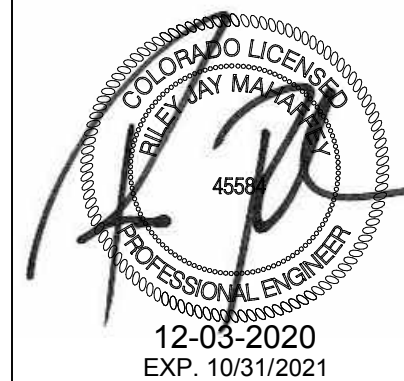


NOTE: THIS SHEET SHOWS THE GENERAL SITE CONDITIONS. REFER TO THE NEXT SHEET FOR THE ASSEMBLY REQUIRMENTS

COMPLETE ACCESS
A DIVISION OF INTEGRATED STAIR
SYSTEMS
TEL: 360-829-4220
FAX: 360-829-2221

Lochsa
engineering
TEL: 208-342-7168

PROFESSIONAL STAMP



PROJECT TITLE / SITE ADDRESS

366 10th ST
Calhan, CO. 80808

SHEET TITLE

DECKING / RAMP
LAYOUT

SHEET SIZE 22"x17" (C)

REF NO./PROJECT NO.

DRAWN BY
CODY K.

CHECKED BY

DATE
11/23/2020

SHEET NO.

A 0.0

1) RAMP SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1 in 12 AND SHALL HAVE A SLIP RESISTANT WALKING SURFACE SECURELY ATTACHED TO STRUCTURE. 2) THE MAXIMUM VERTICAL RISE OF RAMP RUN SHALL BE 30" (1143MM) MAXIMUM BETWEEN LANDINGS 3) THE SLOPE PERPENDICULAR TO THE DIRECTION OF TRAVEL AND THE SLOPE ON LANDINGS SHALL NOT BE STEEPER THAN ONE UNIT VERTICAL IN 48 UNITS HORIZONTAL 4) WHEN CHANGES IN DIRECTION OF TRAVEL OCCUR AT LANDINGS BETWEEN RAMP RUNS, THE LANDINGS SHALL BE 60" WIDE BY 60" (1524MM x 1524MM) IN THE DIRECTION OF TRAVEL FROM THE UPPER RAMP RUN. 5) MANEUVERING CLEARANCE ON PULL SIDE OF EXTERIOR DOOR WHEN OPENING ON TO PLATFORM SHALL BE 24" (1066MM) FOR LATCH APPROACH AND 36" (920MM) FOR HINGE APPROACH WITH 60" (1542MM) LANDING IN FRONT OF DOOR 6) BALUSTERS ARE INDEPENDENTLY DESIGNED FOR A CONCENTRATE LOAD OF 200# (0.9kN) 7) STEPS, RAMPS AND PLATFORMS SHALL BE DESIGNED FOR 100 PSF (4.8 kPA) LIVE LOAD, 300 LBS CONCENTRATED LOAD AND, BE DESIGNED SO WATER DOES NOT ACCUMULATE ON WALKING SURFACE. 8) A LANDING MAY BE OMITTED AT THE BOTTOM OF AN EXTERIOR STEP OR RAMP PROVIDED THAT THERE IS NO GATE, DOOR, OR PERMANENT OBSTRUCTION WITHIN THE LESSER WIDTH OF THE STAIR OR RAMP OR 44" MINIMUM BY 72" IN LENGTH. 9) RAMP SHALL HAVE A MINIMUM CLEAR WIDTH OF 44" WITH NO OBSTRUCTIONS		1) RAMP HANDRAILS SHALL BE CONTINUOUS ALONG BOTH SIDES OF RAMP. HANDRAILS SHALL BE PARALLEL WITH THE SURFACE. AT RAMPS WHERE HANDRAIL ARE NOT CONTINUOUS BETWEEN RUNS THE HANDRAIL SHALL EXTEND HORIZONTALLY 12" (301MM) MINIMUM OVER THE UPPER AND LOWER PLATFORMS 2) STAIR HANDRAILS SHALL EXTEND HORIZONTALLY AT LEAST 12" (305MM) BEYOND THE BOTTOM RISER. CLEAR SPACE BETWEEN THE WALL OR OTHER SURFACES SHALL BE A MINIMUM 1-1/2" (38MM). HANDRAILS SHALL RETURN TO A WALL. 3) TOP OF HANDRAILS SHALL BE MOUNTED BETWEEN 34" (864MM) AND 38" (965MM) ABOVE THE WALKING SURFACE. 4) CLEARANCE BETWEEN RAIL AND WALL SHALL BE A MINIMUM OF 1 1/2" (38MM) 5) HANDRAILS WITH CIRCULAR CROSS SECTION SHALL HAVE A MINIMUM OUTSIDE DIMENSION OF 1-1/4" (31.75MM) AND NOT GREATER THAN 2" (50MM). HANDRAIL-GRIPPING SURFACES SHALL BE CONTINUOUS WITHOUT INTERRUPTION BY NEWEL POSTS OR OTHER OBSTRUCTIONS. GRIPPING SURFACE SHALL BE UNINTERRUPTED BY POSTS OR OTHER CONSTRUCTION ELEMENTS OR OBSTRUCTIONS. 6) HANDRAILS SHALL NOT ROTATE IN THEIR FITTINGS. 7) ENDS OF HANDRAILS SHALL RETURN SMOOTHLY TO FLOOR, WALL OR POST 8) GUARD RAILS SHALL BE DESIGNED FOR A CONCENTRATED LOAD OF 200# (0.9kN) APPLIED AT ANY POINT AND ANY DIRECTION ALONG THE RAIL OR A UNIFORM LOAD OF 50#/L.F. (0.7kN) APPLIED HORIZONTALLY TO THE GUARD HEIGHT	
1 RAMP NOTES 1) ALL STEPS SHALL HAVE A UNIFORM RISER HEIGHT AND TREAD WIDTH. TREADS SHALL NOT BE LESS THAN 11" (279MM) DEPTH AND 7" (178MM) HIGH AND HAVE A MINIMUM WIDTH OF 48" 2) TREAD NOSING SHALL NOT BE ABRUPT OR HAVE A RADIANCE OF MORE THAN 1/2". BOTTOM OF NOSING SHALL BE VERTICAL OR HAVE AN ANGLE NOT MORE THAN 30 DEGREES FROM HORIZONTAL PROJECTION AND SHALL NOT EXTEND MORE THAN 1-1/4" (32MM) OVER STEP BELOW IT. 3) THERE SHALL BE NO VARIATION EXCEEDING 3/8" (9.2MM) DEPTH OF ADJACENT TREADS OR IN HEIGHT OF ADJACENT RISERS AND A TOLERANCE BETWEEN LARGEST AND SMALLEST TREAD SHALL NOT EXCEED 3/8" (9MM) IN ANY FLIGHT 4) OPEN RISERS ARE NOT PERMITTED. 5) OUTDOOR STAIRS AND THEIR LANDINGS SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON THE WALKING SURFACE 6) STEPS, RAMPS AND PLATFORMS SHALL BE DESIGNED FOR 100 psf (4.8kPa) LIVE LOAD AND 300 LBS CONCENTRATED LOAD. 7) WALKING SURFACE SHALL BE OF SLIP RESISTANT MATERIAL SECURELY ATTACHED TO STRUCTURE. 8) MANEUVERING CLEARANCE ON PULL SIDE OF EXTERIOR DOOR SHALL BE 24" (610MM) WITH 60" (1524MM) LANDING IN FRONT OF DOOR		2 RAILING NOTES REFERENCE: IBC/ASCE-7 DESIGN LOADS: LIVE LOAD: 100 PSF (4.8 kPa) HANDRAIL IMPACT: 200 LBS (0.9 kN) HANDRAIL DIST. LOAD: 50 PLF (0.7 kN/m) SNOW LOAD: 50 PSF (2.39 kPa) MATERIALS ROUND STEEL TUBE ASTM A847 Fy= 50 KSI (345 MPa) GALVANIZED SQUARE STEEL TUBE ASTM A500 GR. C Fy= 50 KSI (345 MPa) ALUMINUM DIAMOND PL SHEET 3003-H22 Ftu=27 KSI (185 MPa): Fcy=21 KSI (114 MPa) ALUMINUM SHEET 5052-H34 Ftu=34 KSI (235 MPa): Fcy=24 KSI (165 MPa) ALUMINUM TUBE / EXTRUSIONS 6061-T6 Ftu=38 KSI (260 MPa): Fcy=35 KSI (240 MPa) ALUMINUM TUBE / EXTRUSIONS 6005 Ftu=38 KSI (260 MPa): Fcy=35 KSI (240 MPa) ALUMINUM TUBE / EXTRUSIONS 6063 WELDS WELDING SHALL BE IN ACCORDANCE WITH AWS D.1.1-04 USING E70XX ELECTRODES FOR STEEL AND AWS A5.10 FOR ALUMINUM, USING ALMIGWELD ER4043 ALUMINUM STEEL CONNECTIONS: CARBON STEEL BOLTS SHALL BE GRADE 5 ZINC PLATED, HOT DIPPED GALVANIZED TO ASTM A153 OR ELECTROGALVANIZED TO ASTM B63.3 A490 BOLTS SHALL NOT BE USED. FASTENERS SHALL BE LUBRICATED TO ELIMINATE GALLING ALL STEEL MEMBERS IN CONTACT WITH ALUMINUM SHALL BE ZINC COATED AND DEBURRED TO ELIMINATE GALVANIC REACTION	
3 STAIR CONSTRUCTION NOTES		4 STRUCTURAL NOTES	

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PROFESSIONAL STAMP



PROJECT TITLE / SITE ADDRESS

366 10th ST
Calhan, CO. 80808

SHEET TITLE

NOTES

SHEET SIZE22"x17" (C)

REF NO./PROJECT NO.

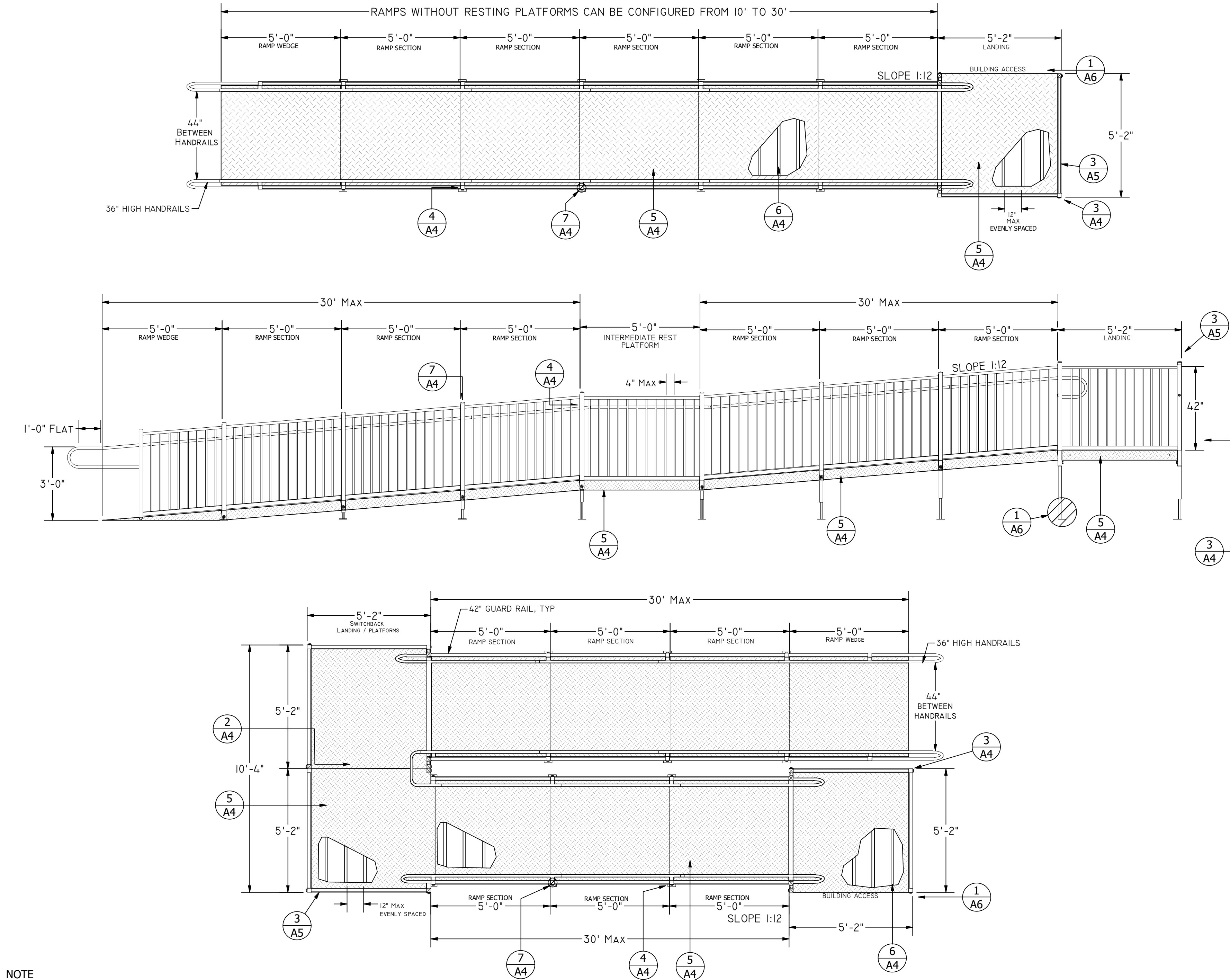
DRAWN BY
CODY K.
NOTES NOT AUTHORED BY CODY K.

CHECKED BY

DATE
11/23/2020

SHEET NO.

A 1.0



NOTE
RAMPS CAN BE INSTALLED IN BOTH DIRECTIONS

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PLANS

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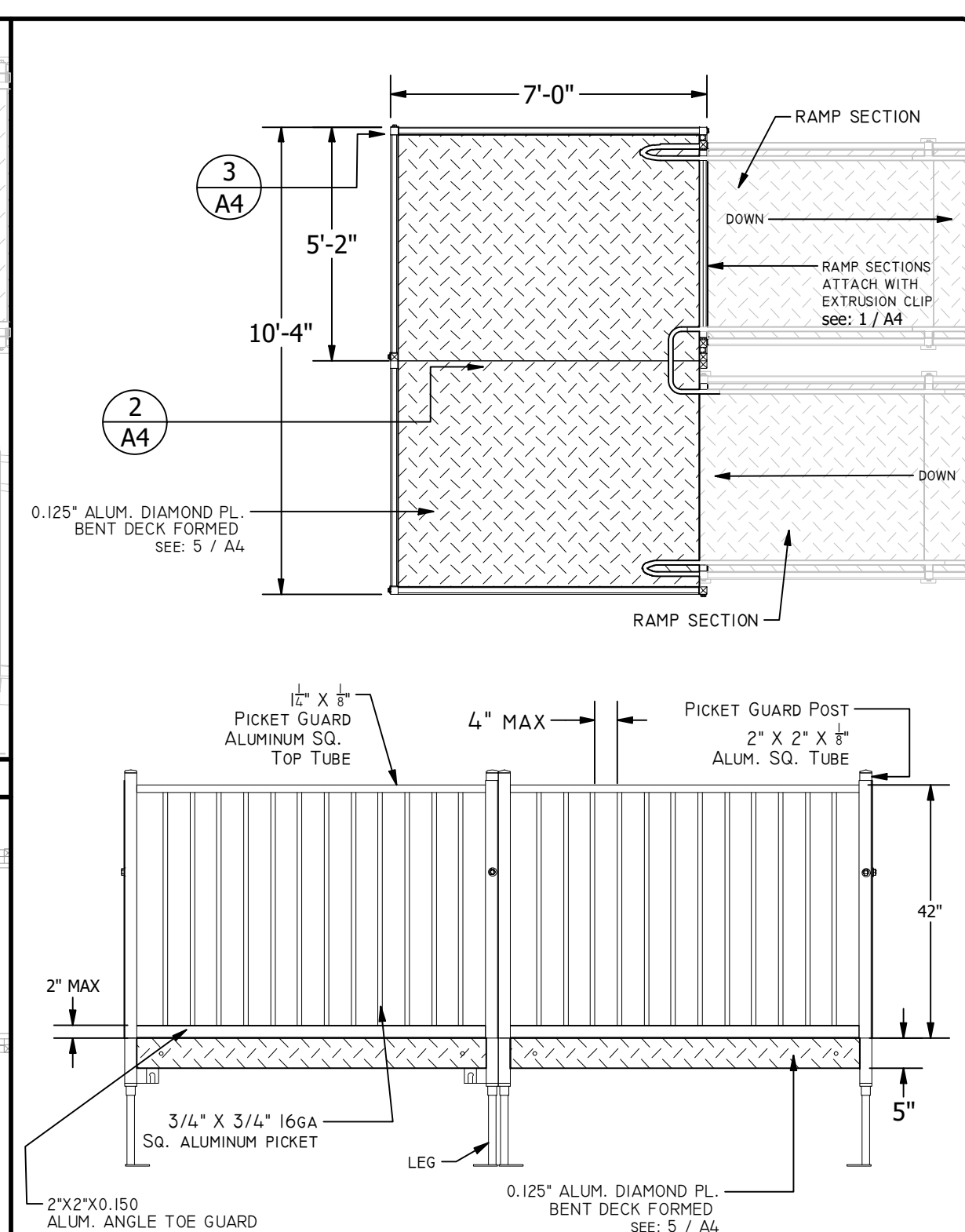
DRAWN BY
CODY K.

CHECKED BY

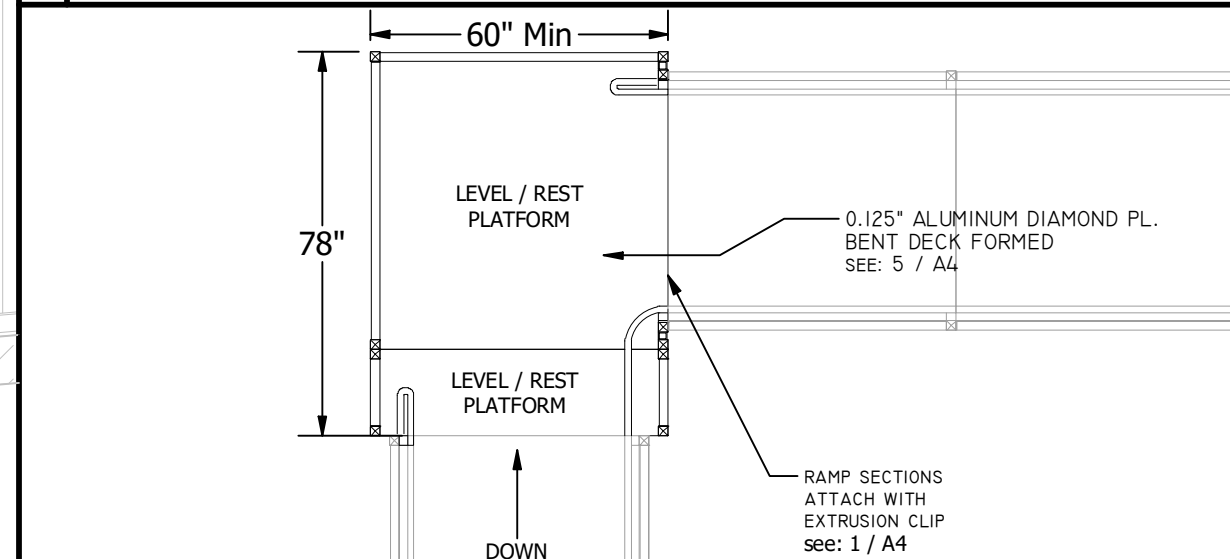
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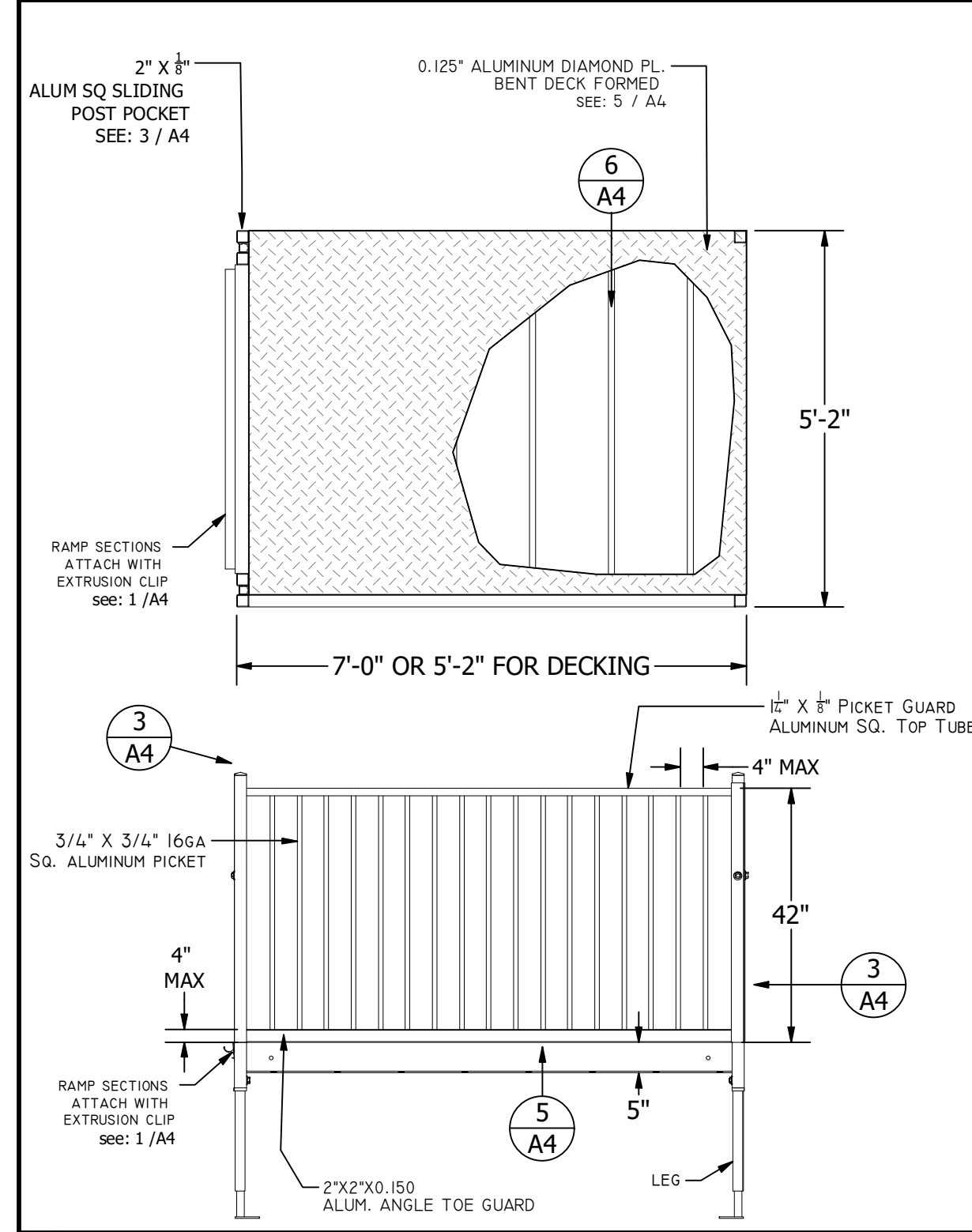
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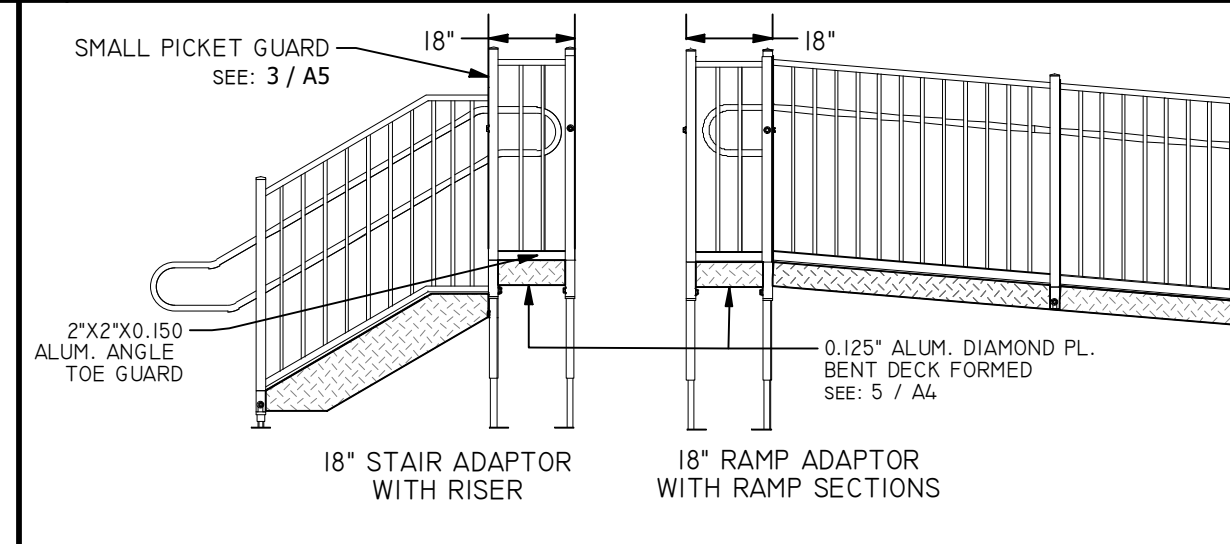
2	INTERMEDIATE REST RAMP SECTION
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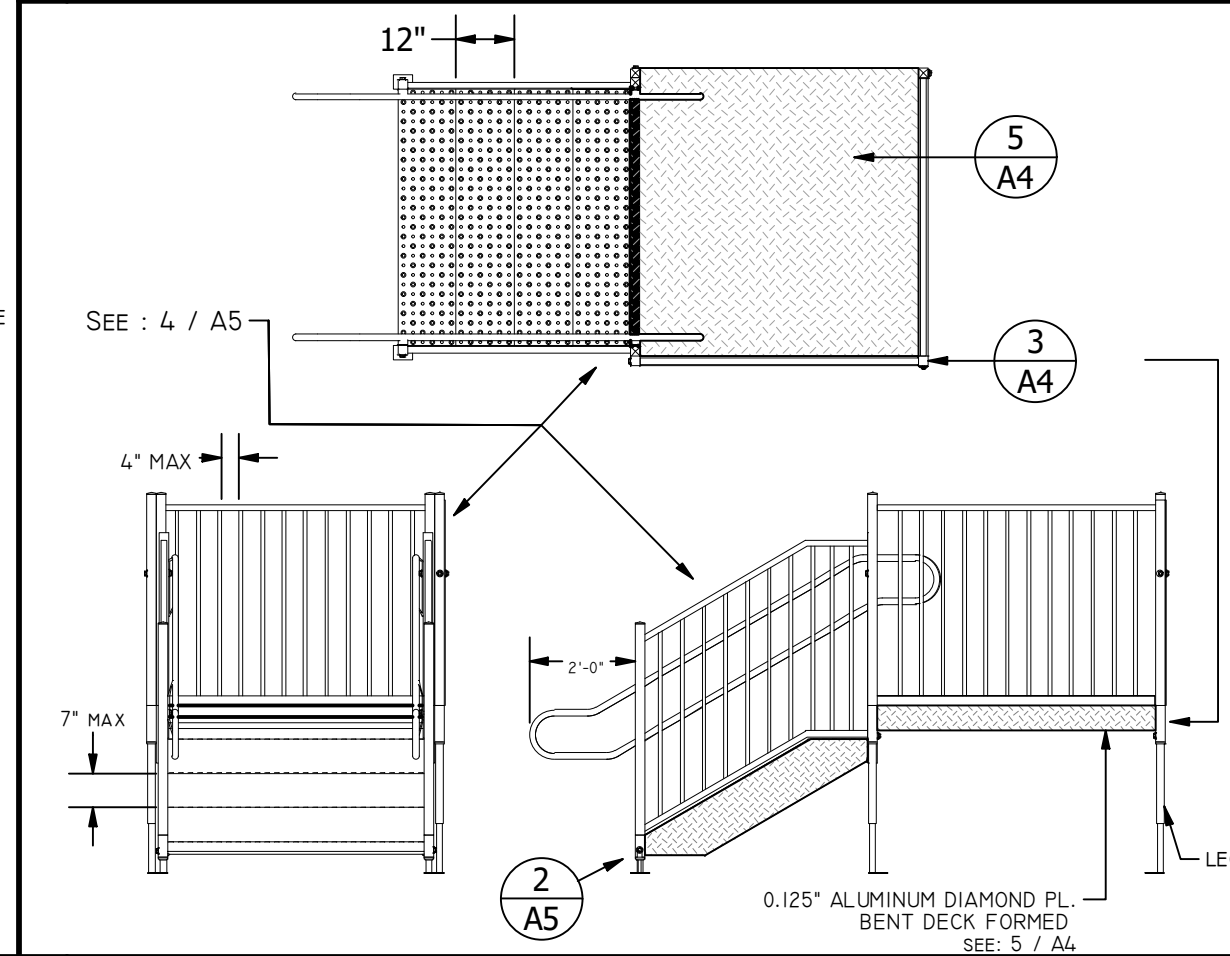
1	RAMP SECTION
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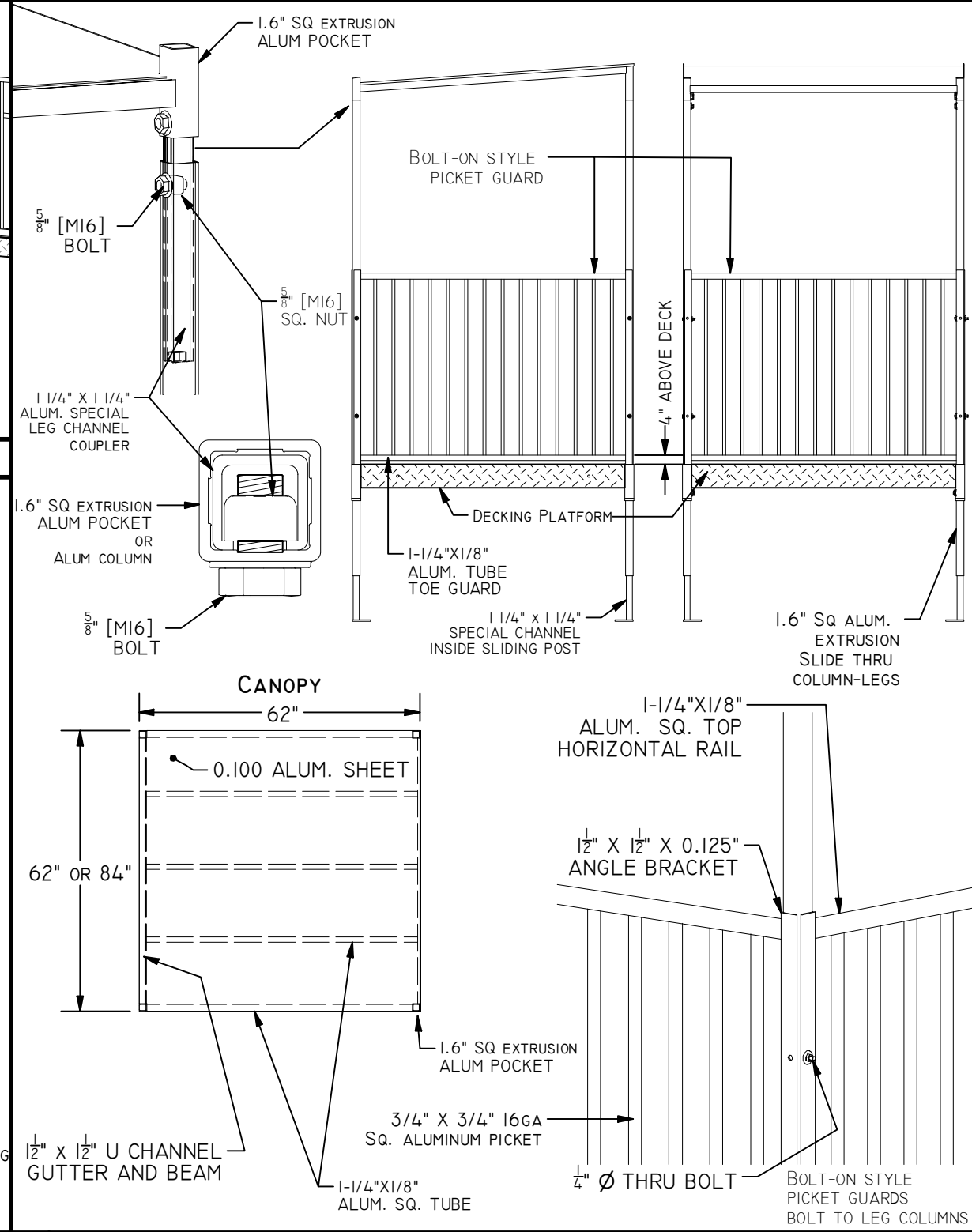
3	TURNING PLATFORM FOR RAMP
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6	STAIR ADAPTERS RAMP ADAPTERS
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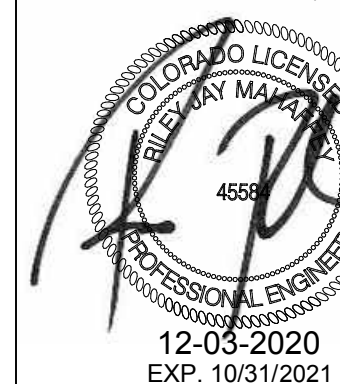
4	SWITCHBACK PLATFORMS
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OPTIONS / MODUALS

SHEET SIZE	22"x17" (C)
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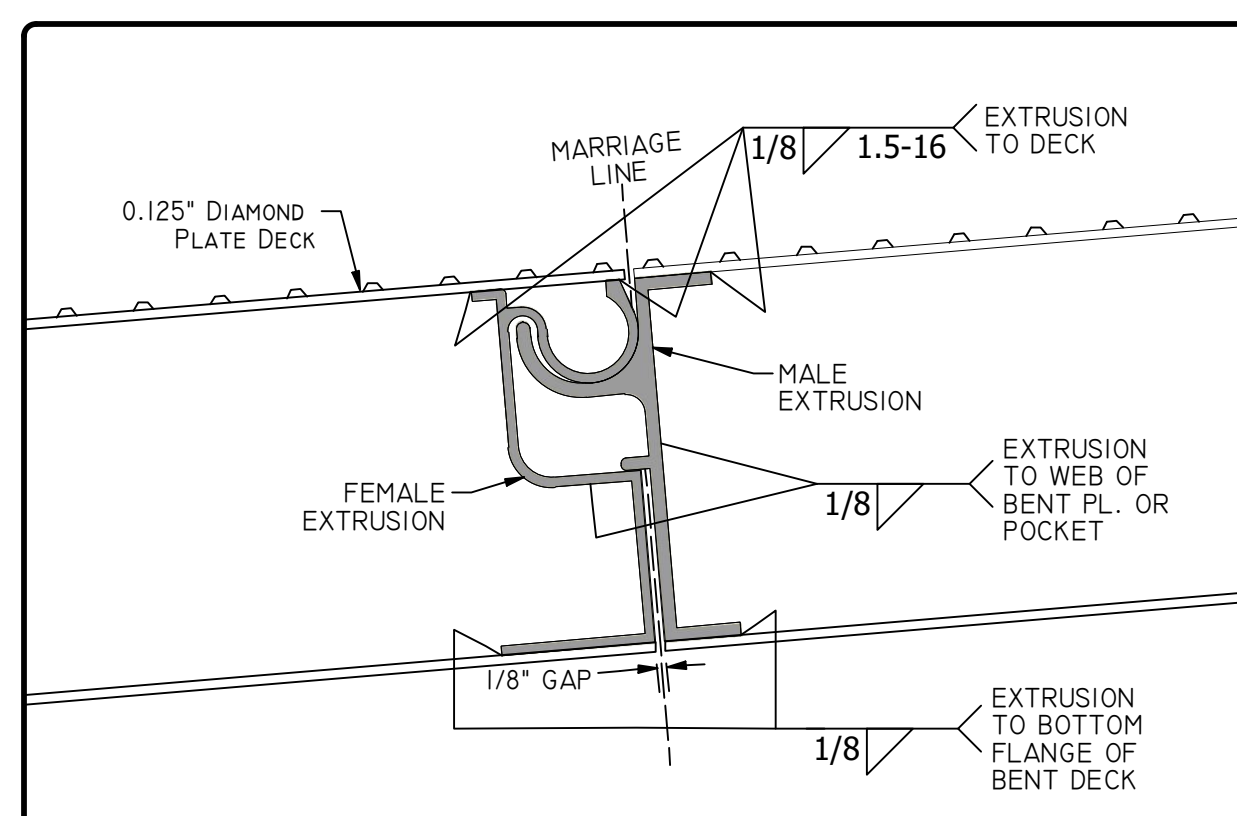
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CHECKED BY

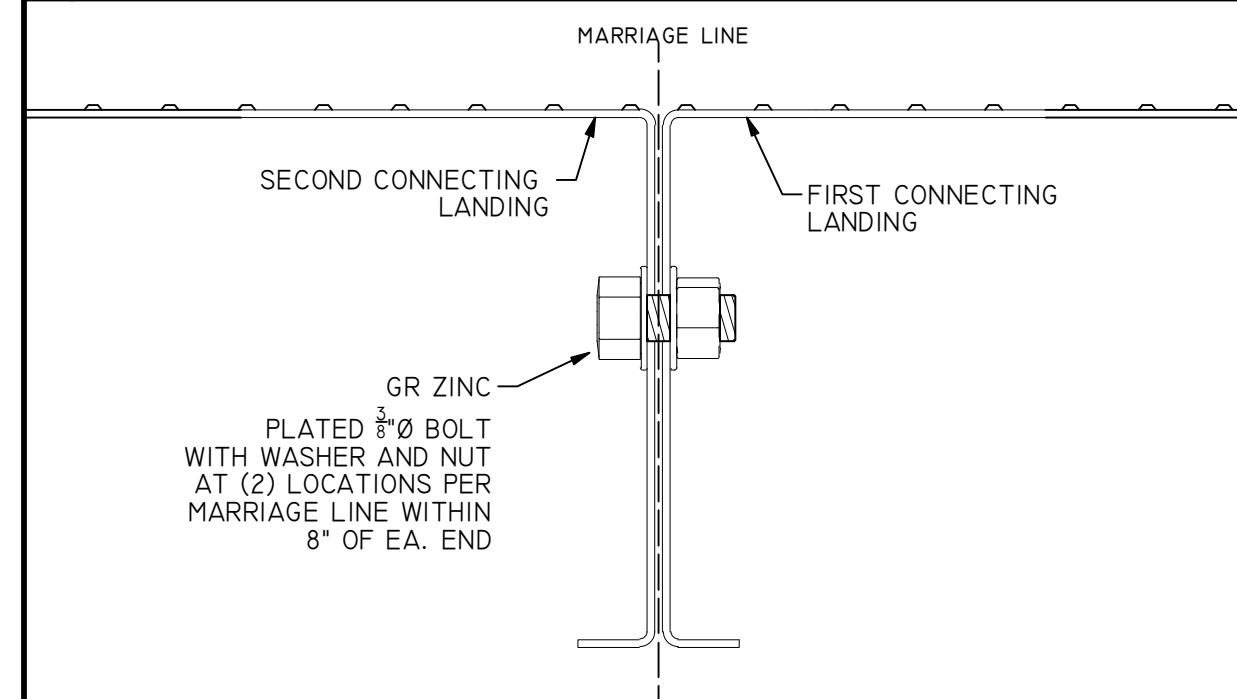
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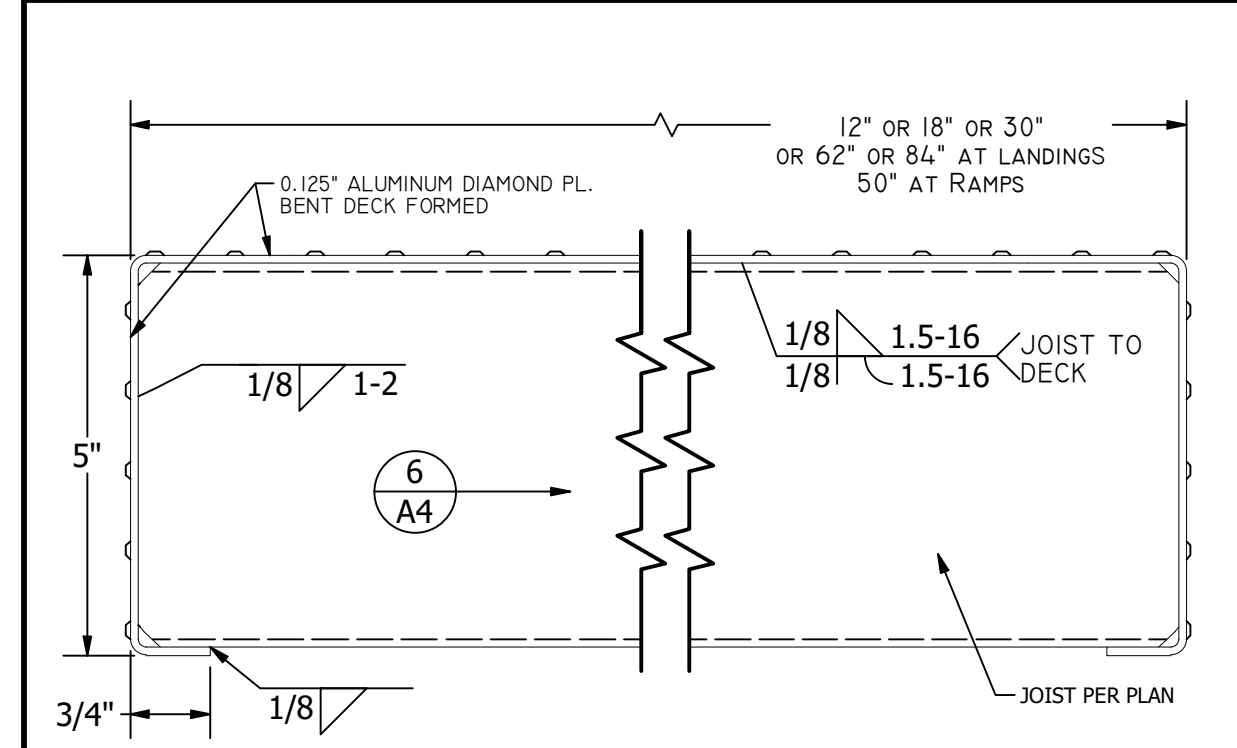
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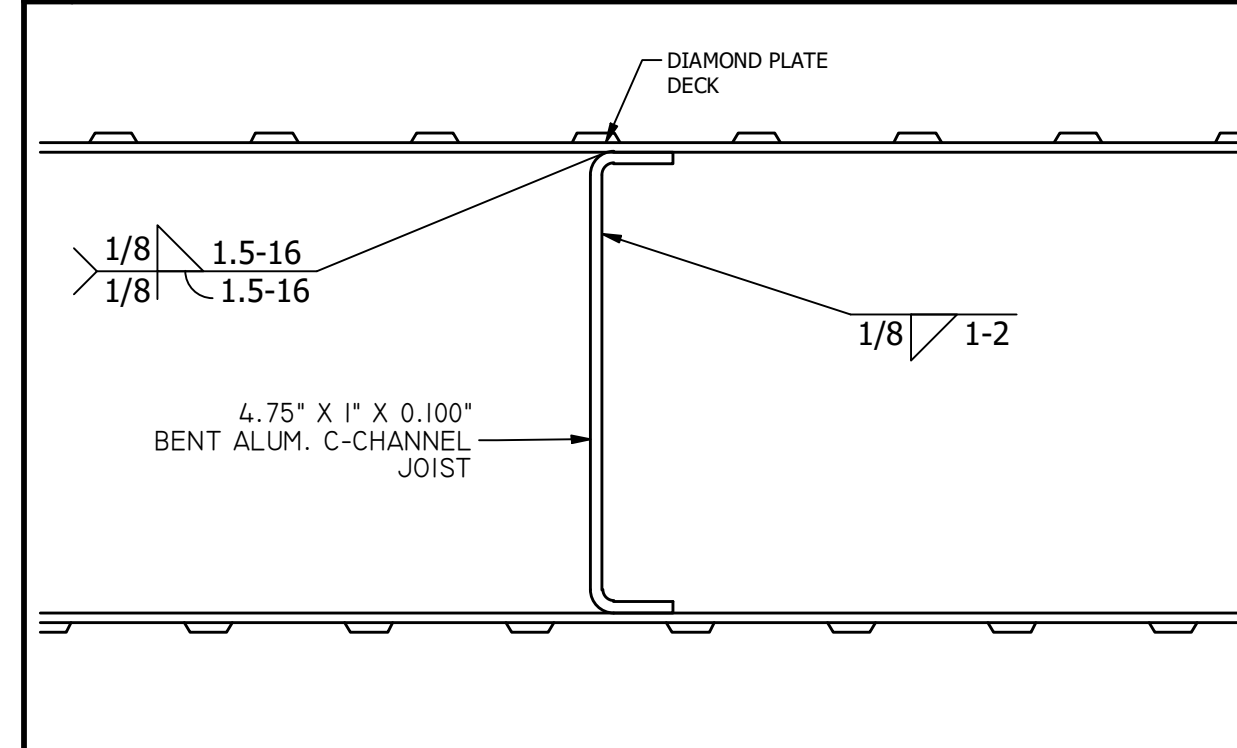
1 RAMP EXTRUSIONS CONNECTION



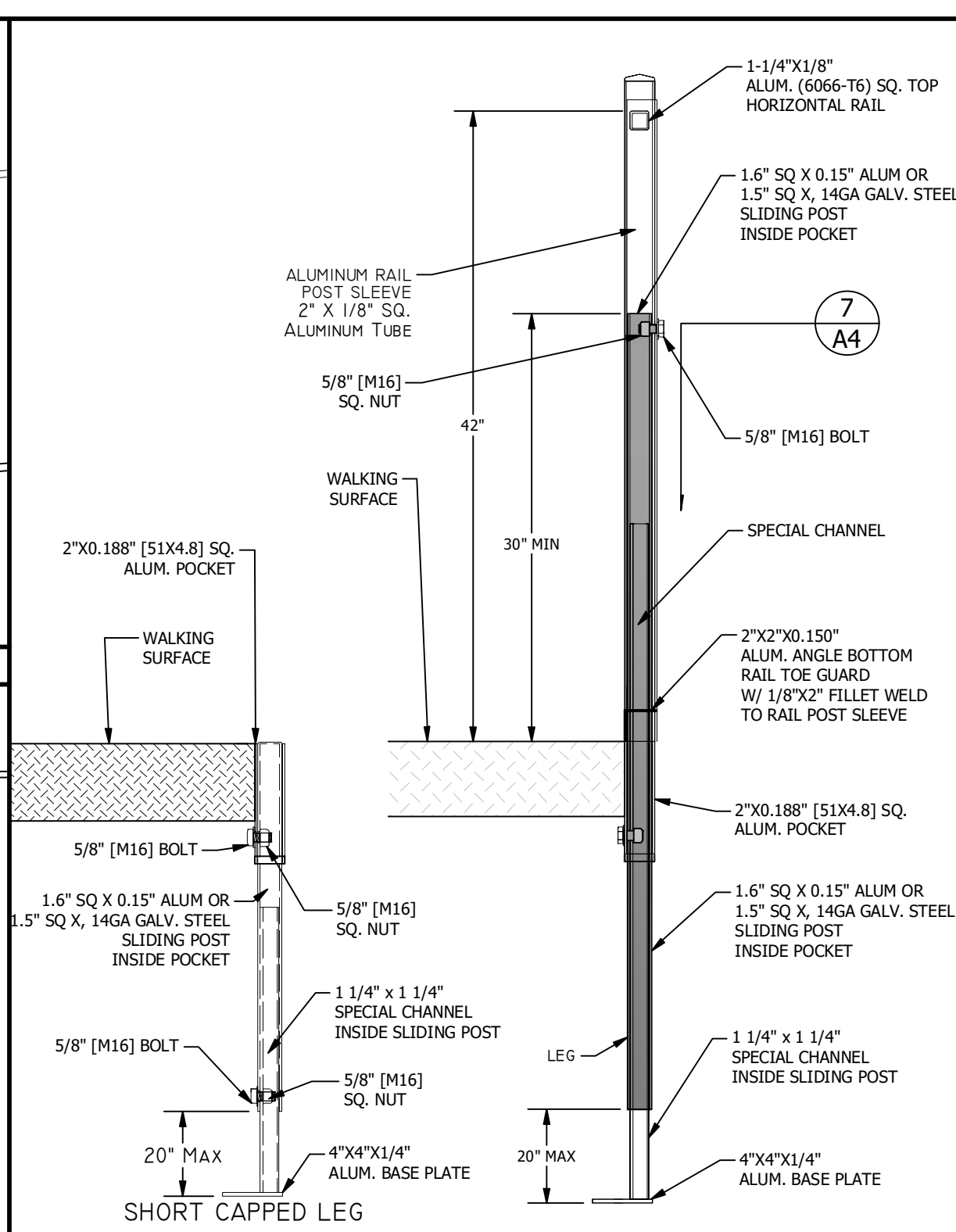
2 LANDING TO LANDING CONNECTION



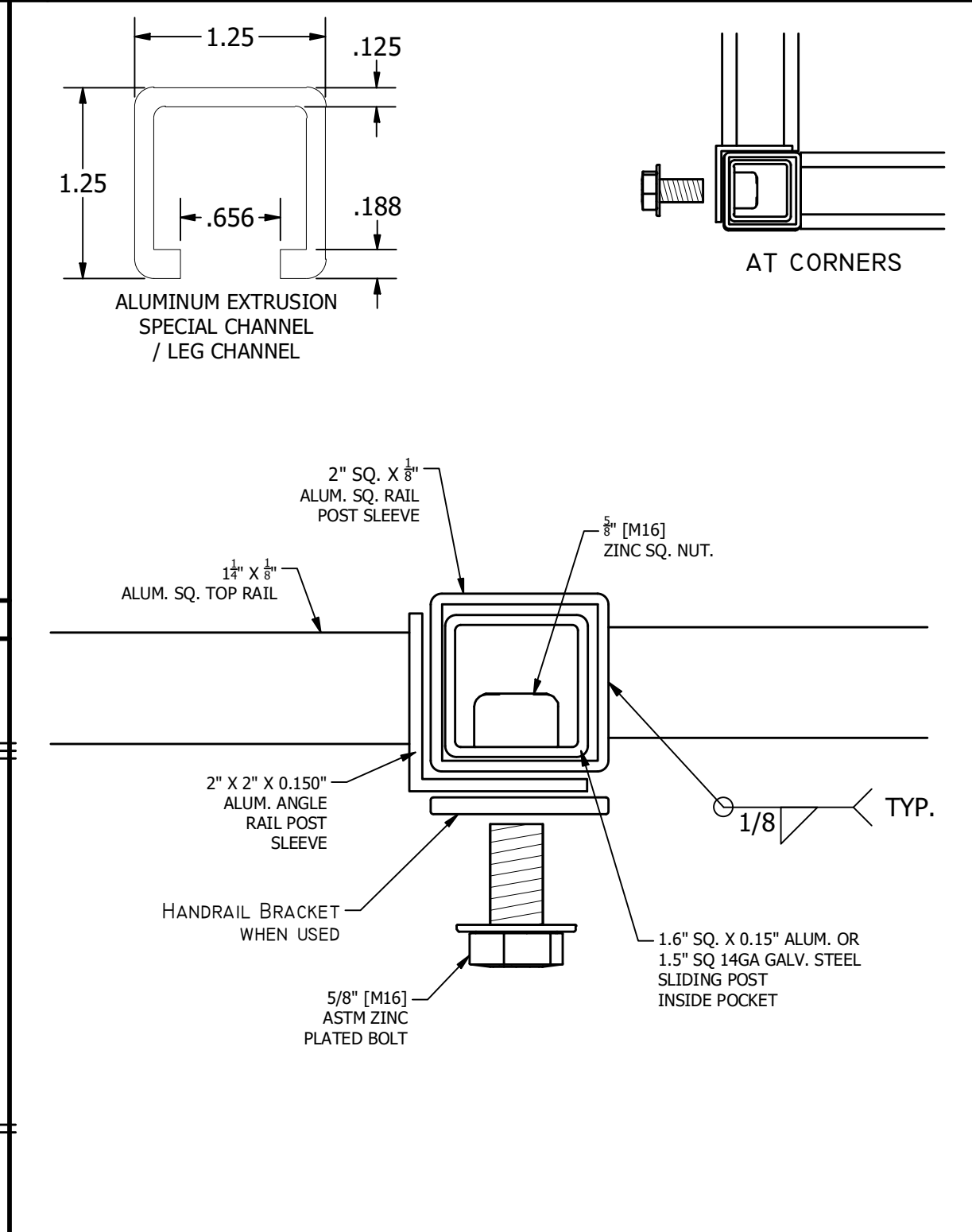
5 FORMED BENT DECK AND JOIST CONNECTION



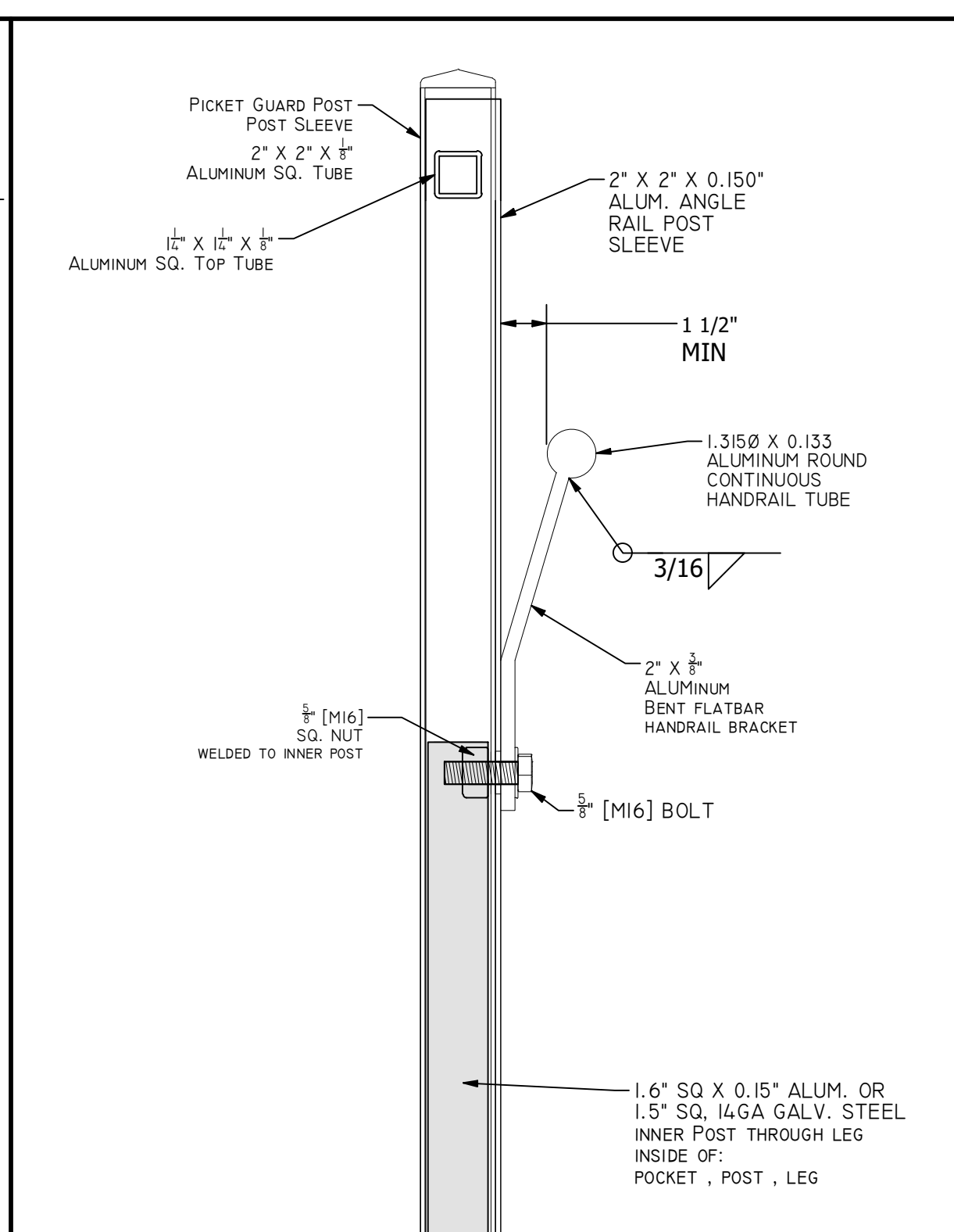
6 JOIST



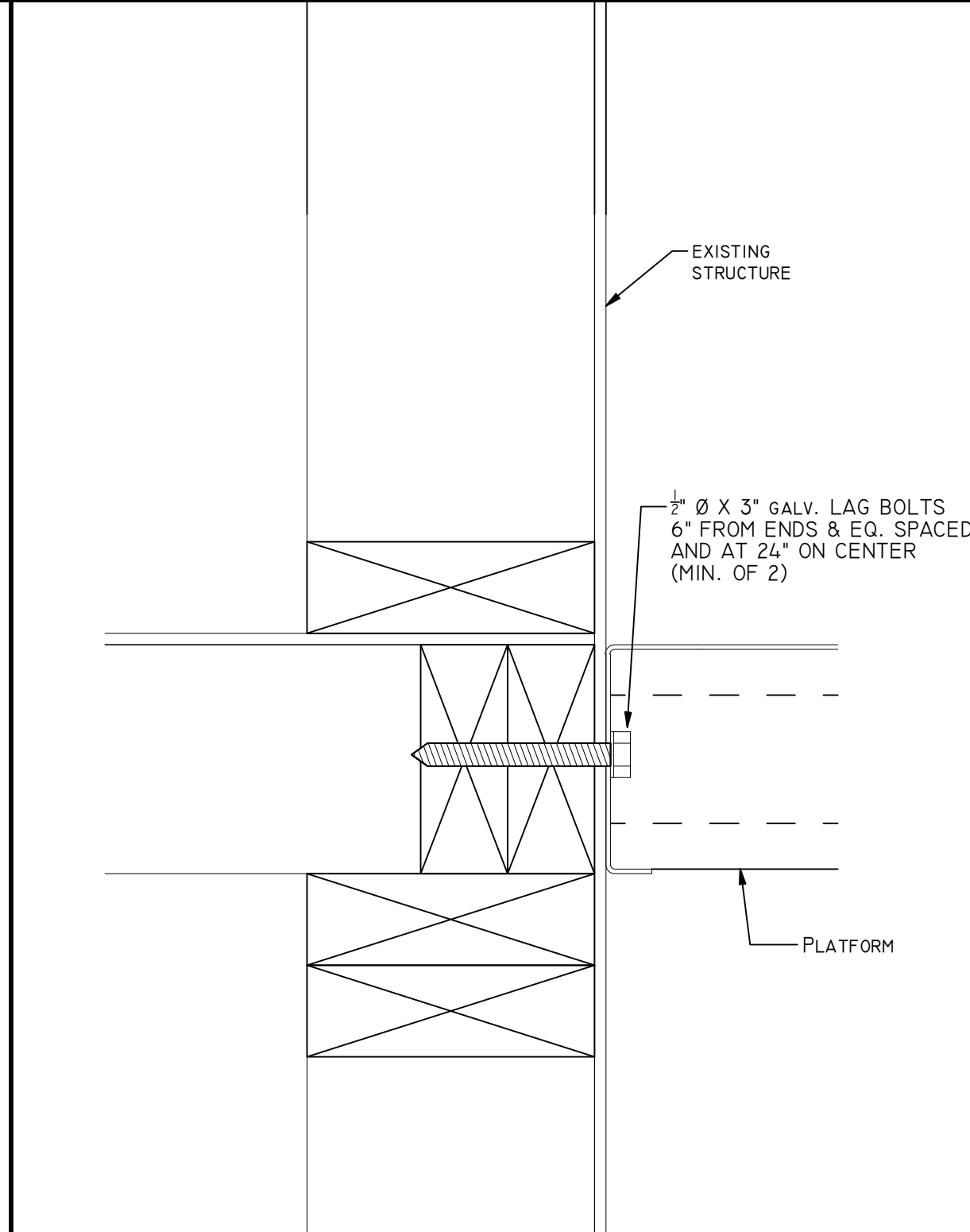
3 GUARD RAIL POST / SLIDING POST / SHORT CAPPED LEG



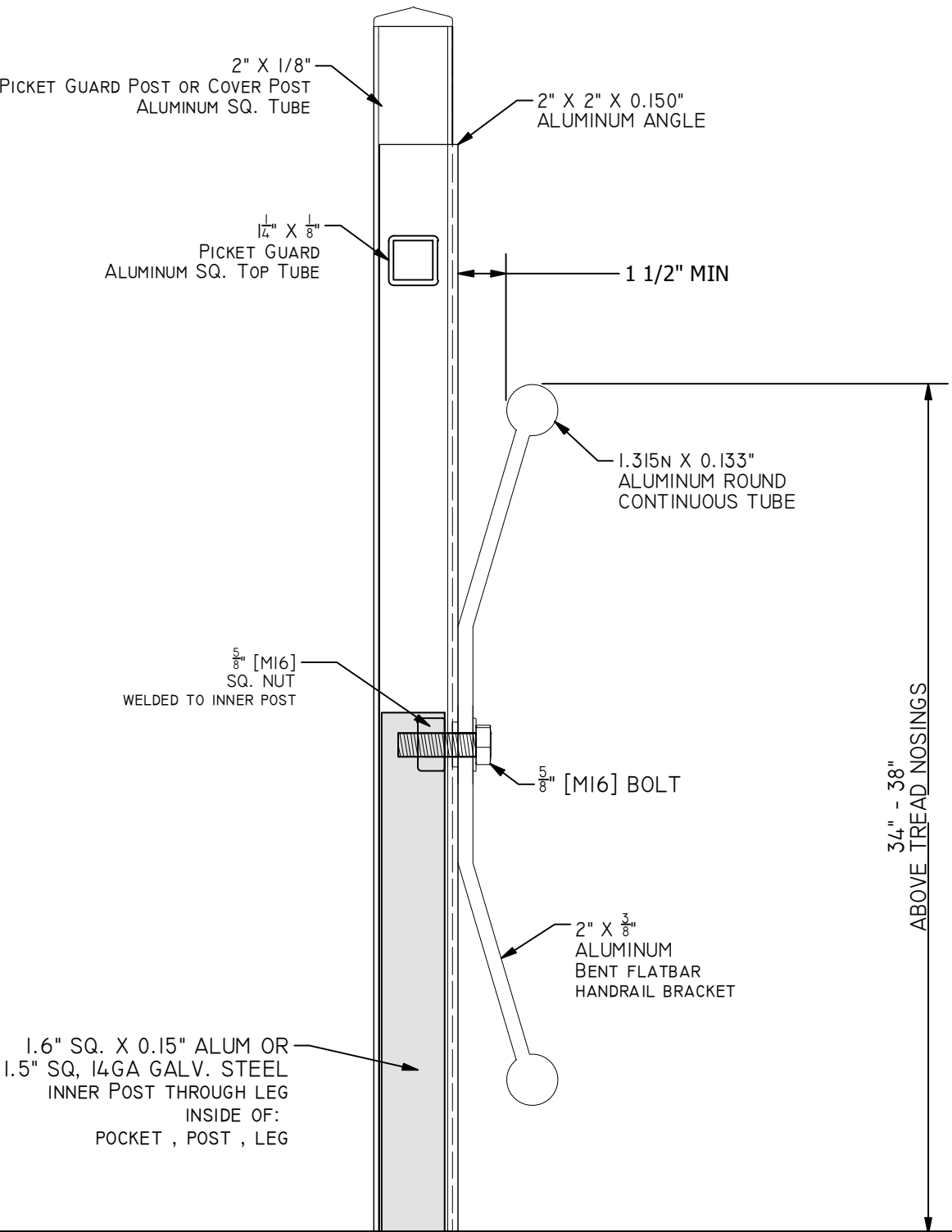
7 GUARDRAIL TO POST CONNECTION / SPECIAL CHANNEL



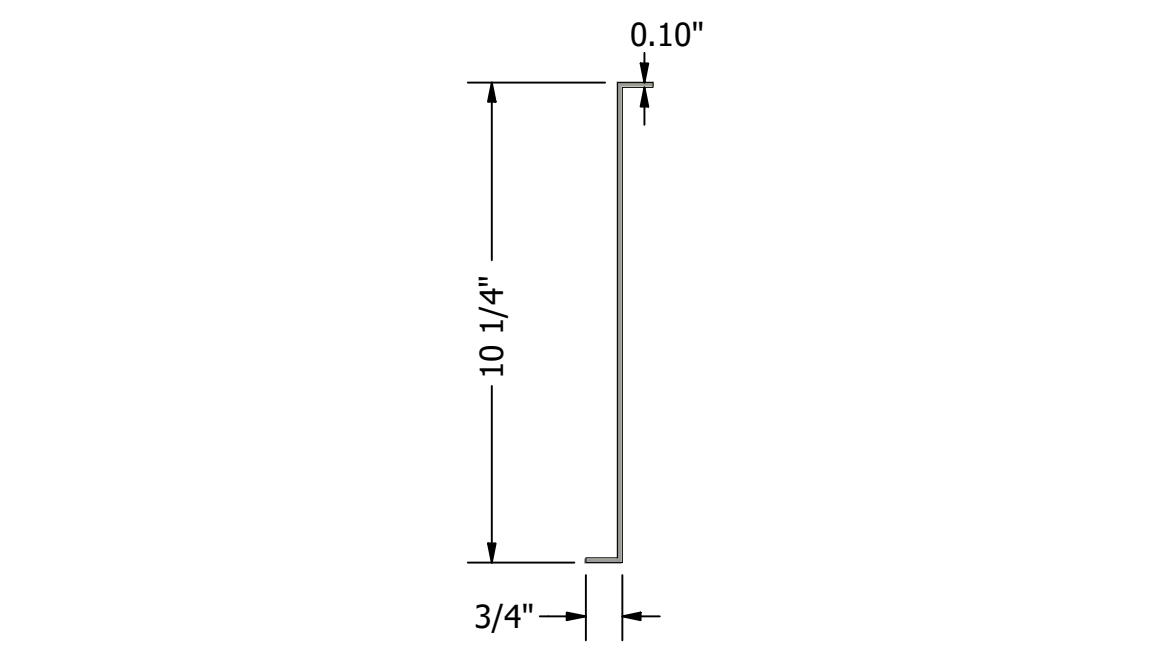
4 HANDRAIL AT RAMP



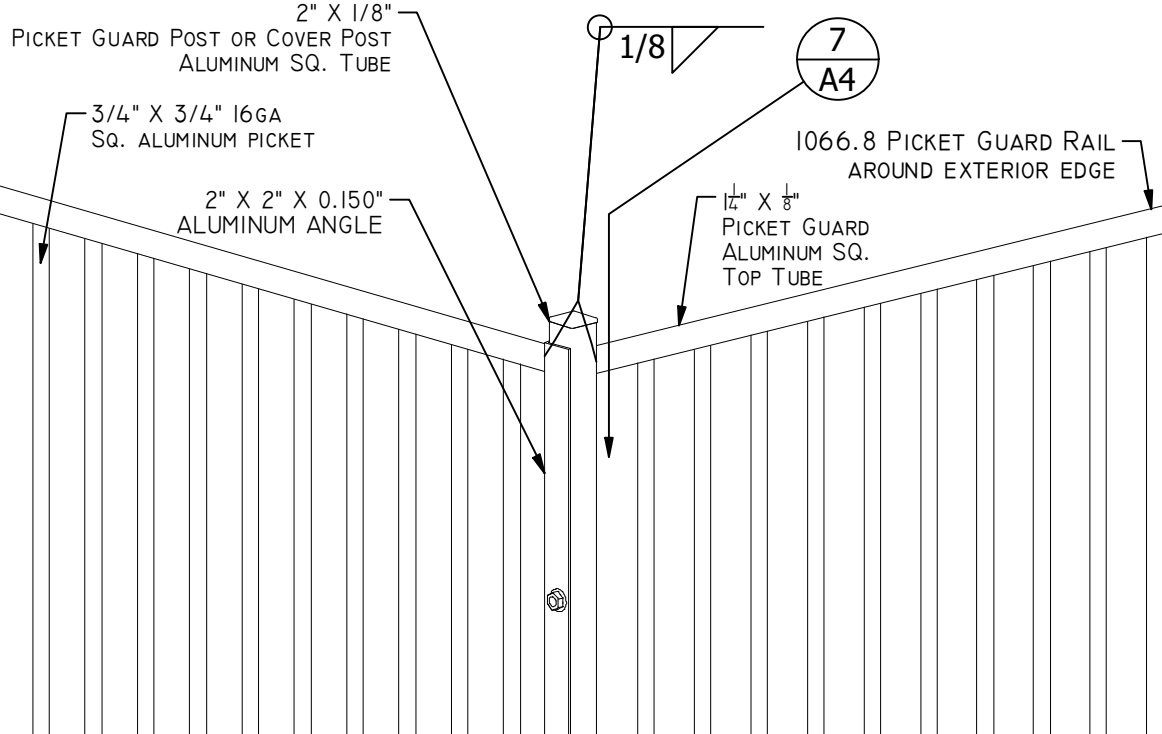
8 PLATFORM AT STRUCTURE



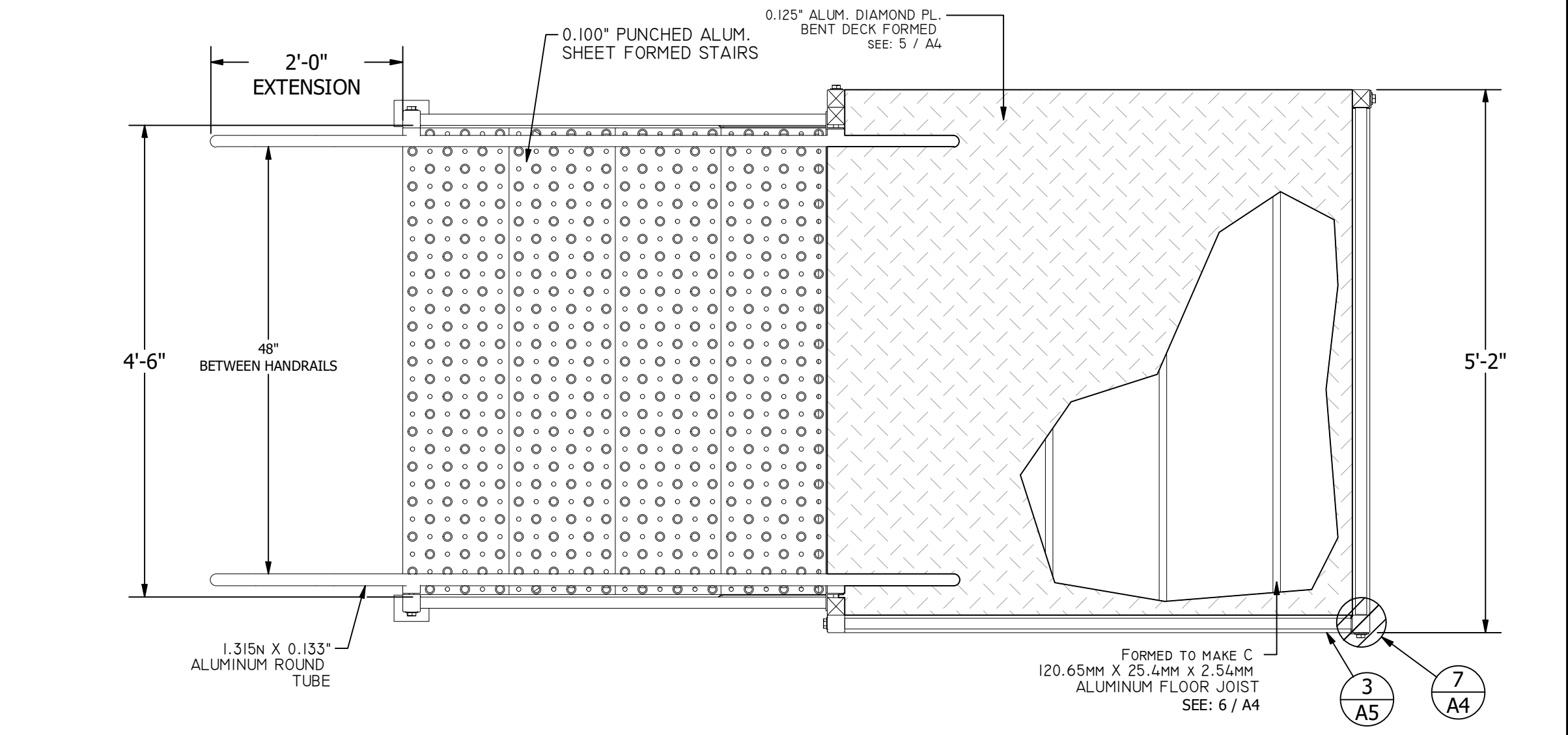
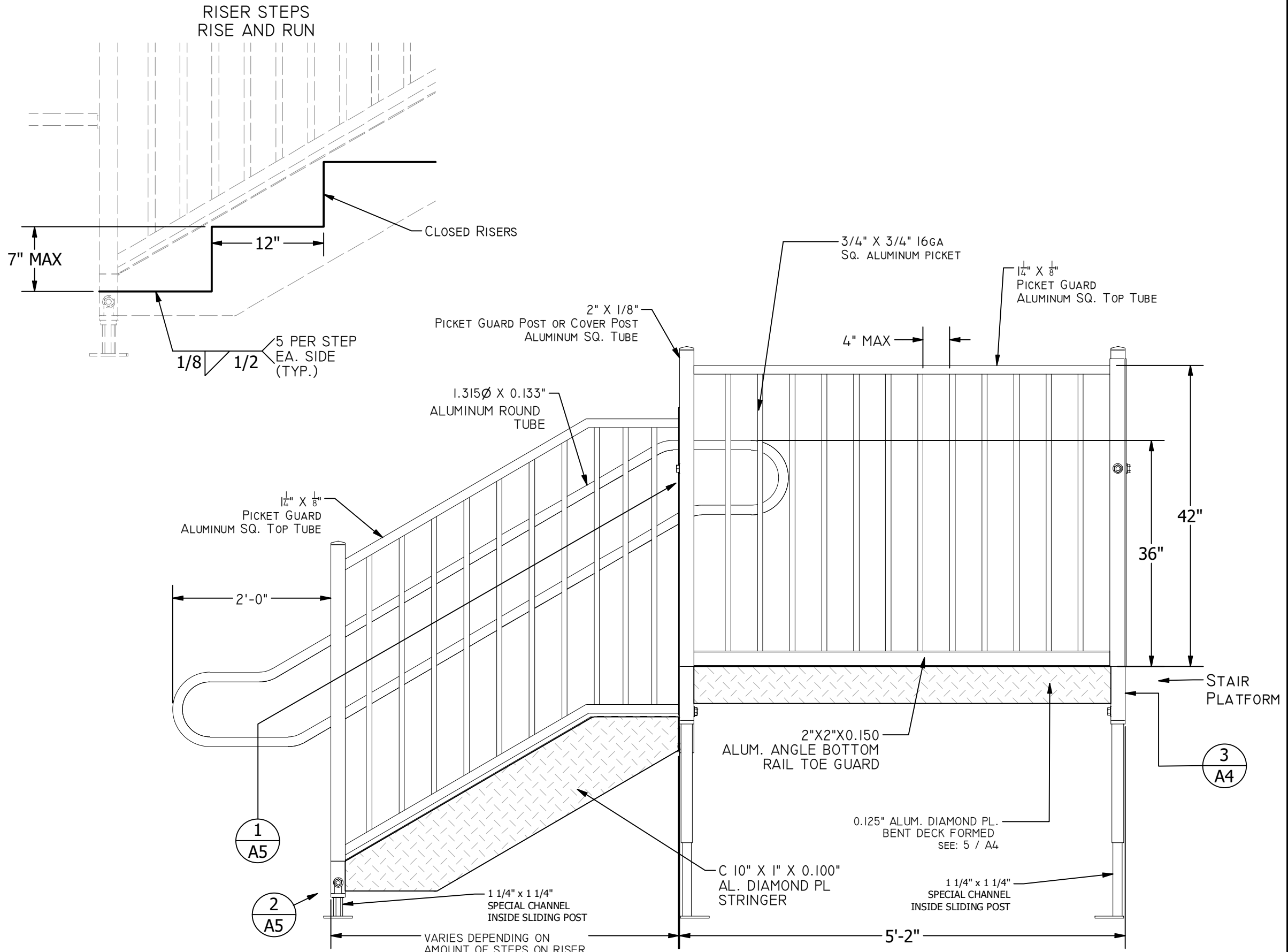
1 HANDRAIL AT STAIRS



2 STAIR STRINGER



3 PICKET GUARD CONNECTION



4 STAIR SYSTEM DETAIL

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PROFESSIONAL STAMP

COLORADO LICENSE
RILEY WAY MAHAR
4558
PROFESSIONAL ENGINEER
12-03-2020
EXP. 10/31/2021

PROJECT TITLE / SITE ADDRESS

366 10th ST
Calhan, CO. 80808

SHEET TITLE

STAIR PLANS
AND DETAILS

SHEET SIZE 22"x17" (C)

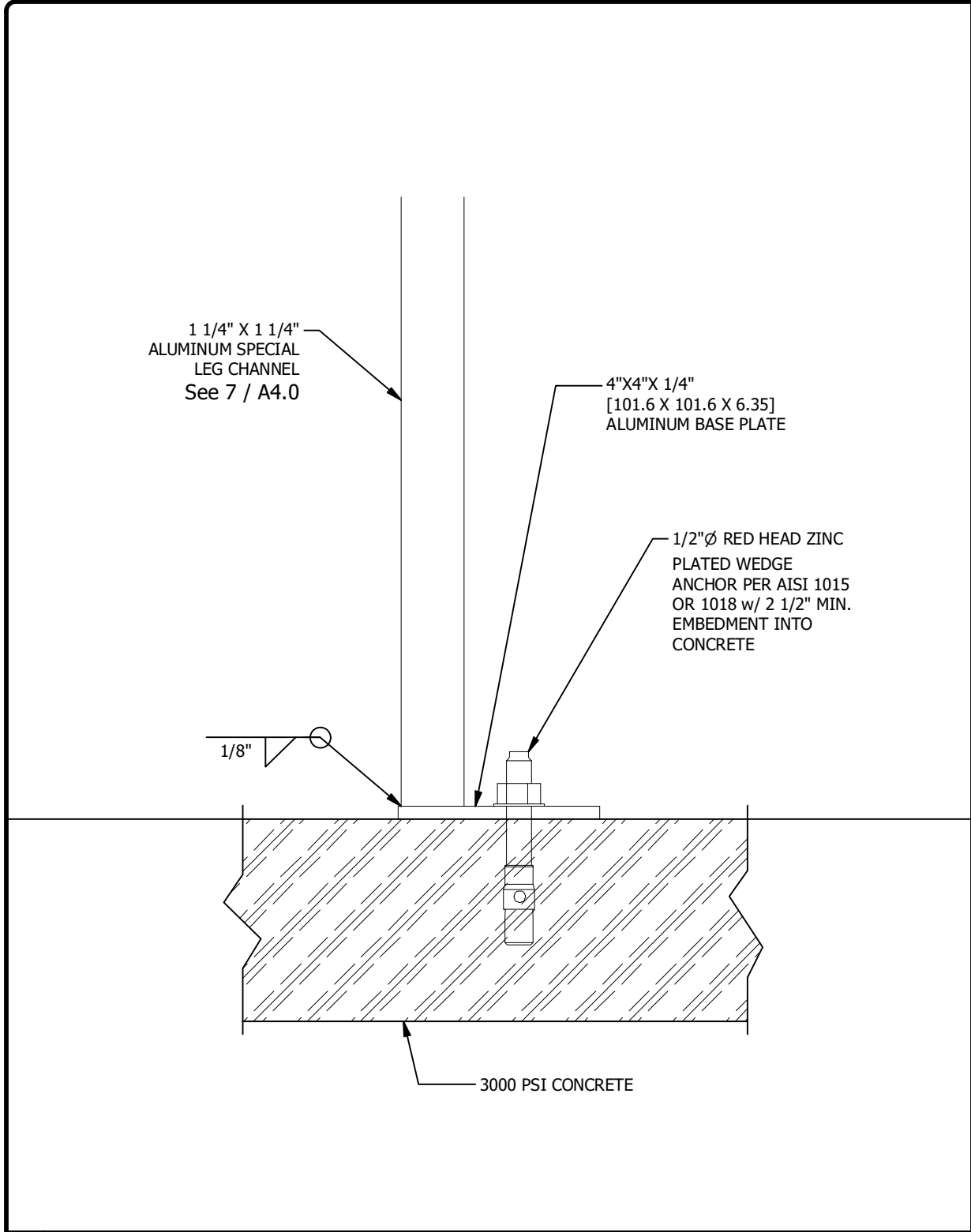
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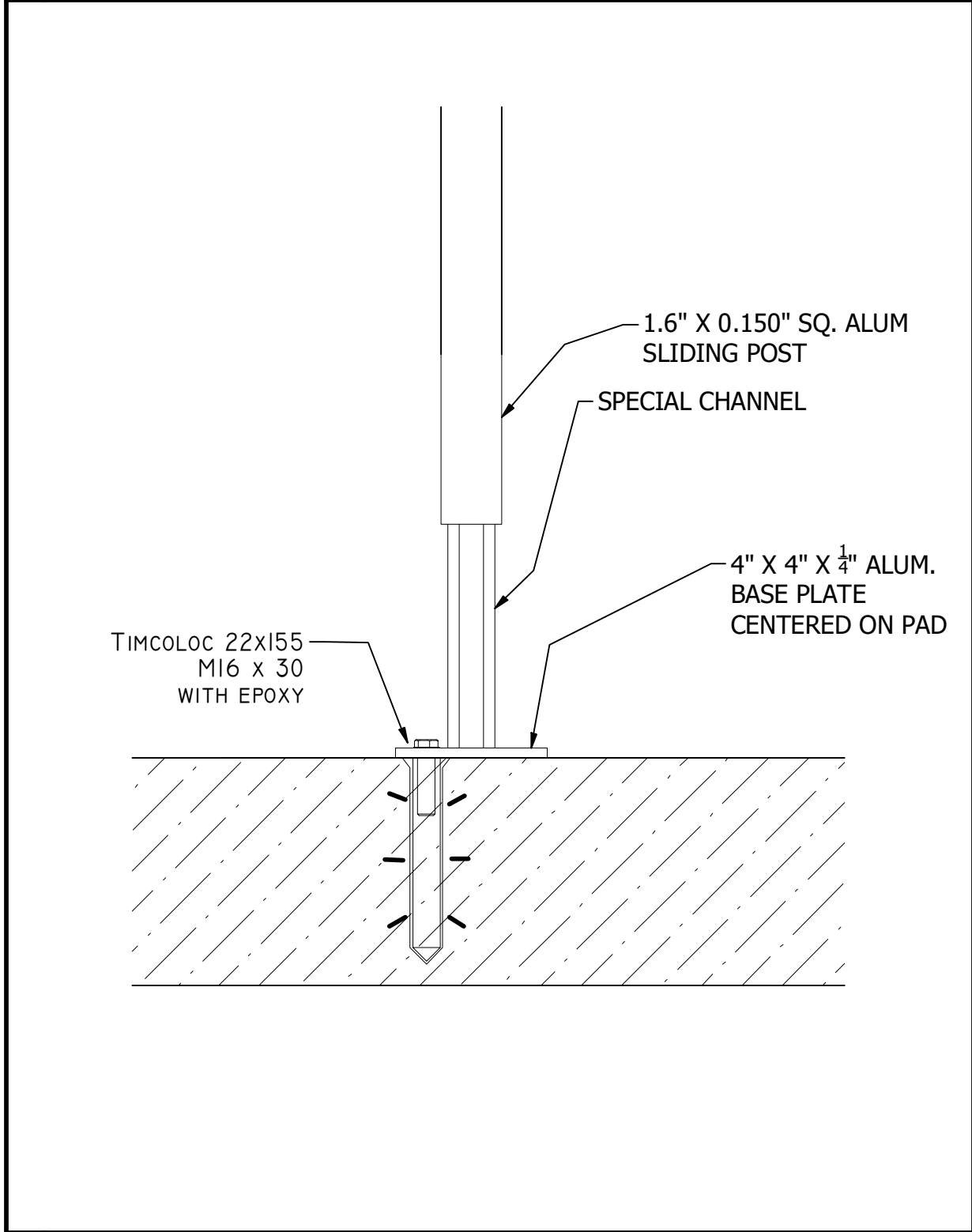
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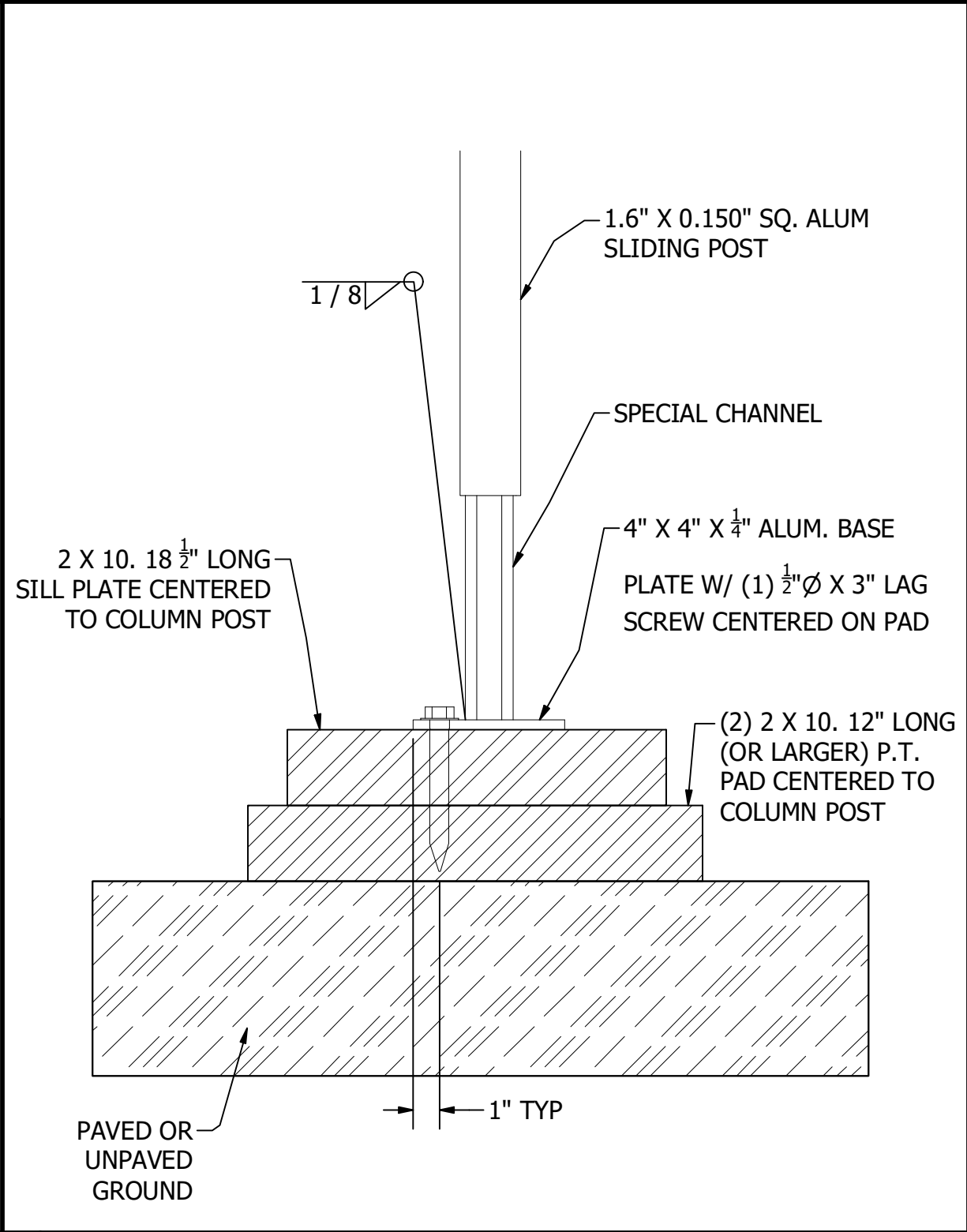
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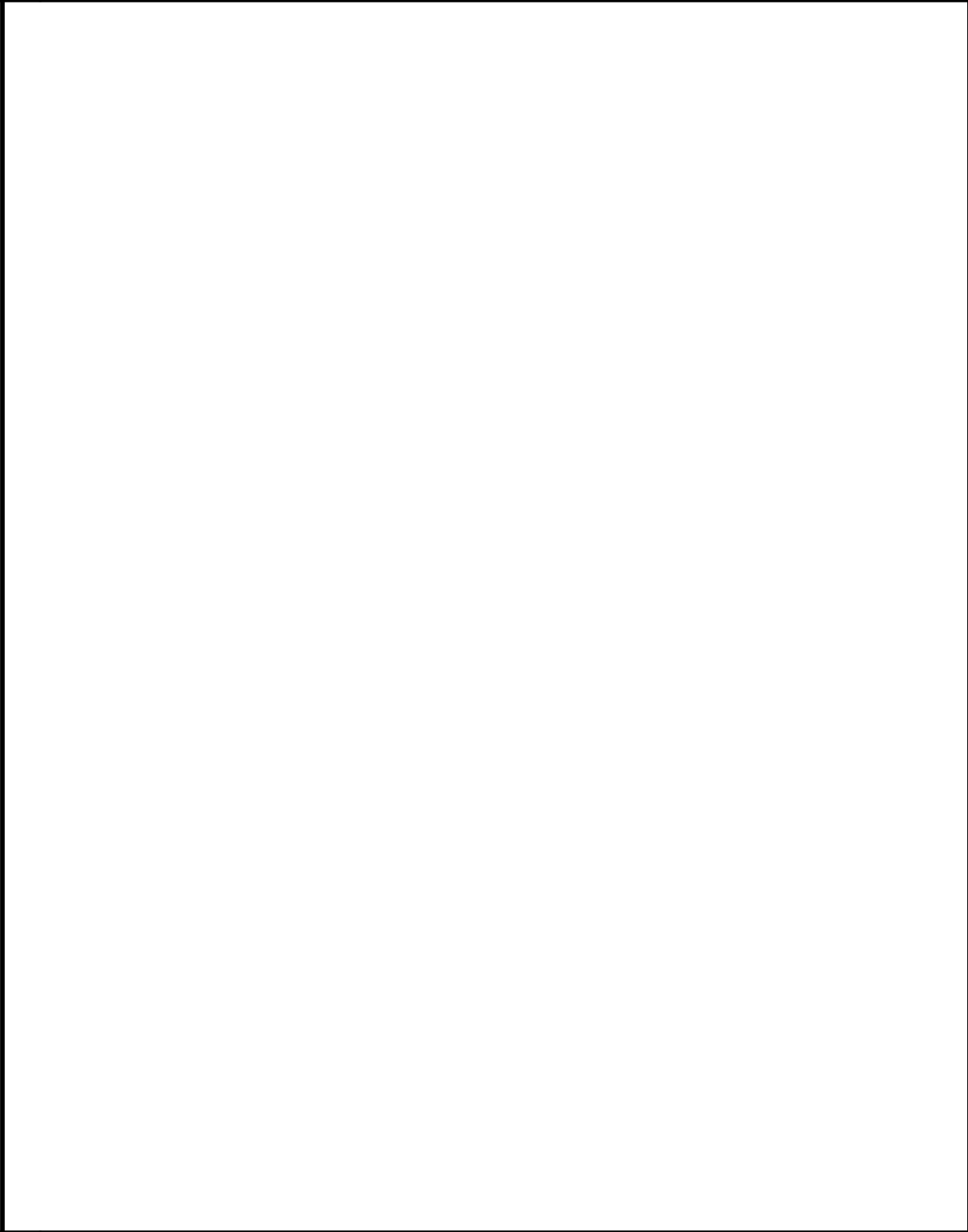
1 | FOOTING CONCRETE OPTION



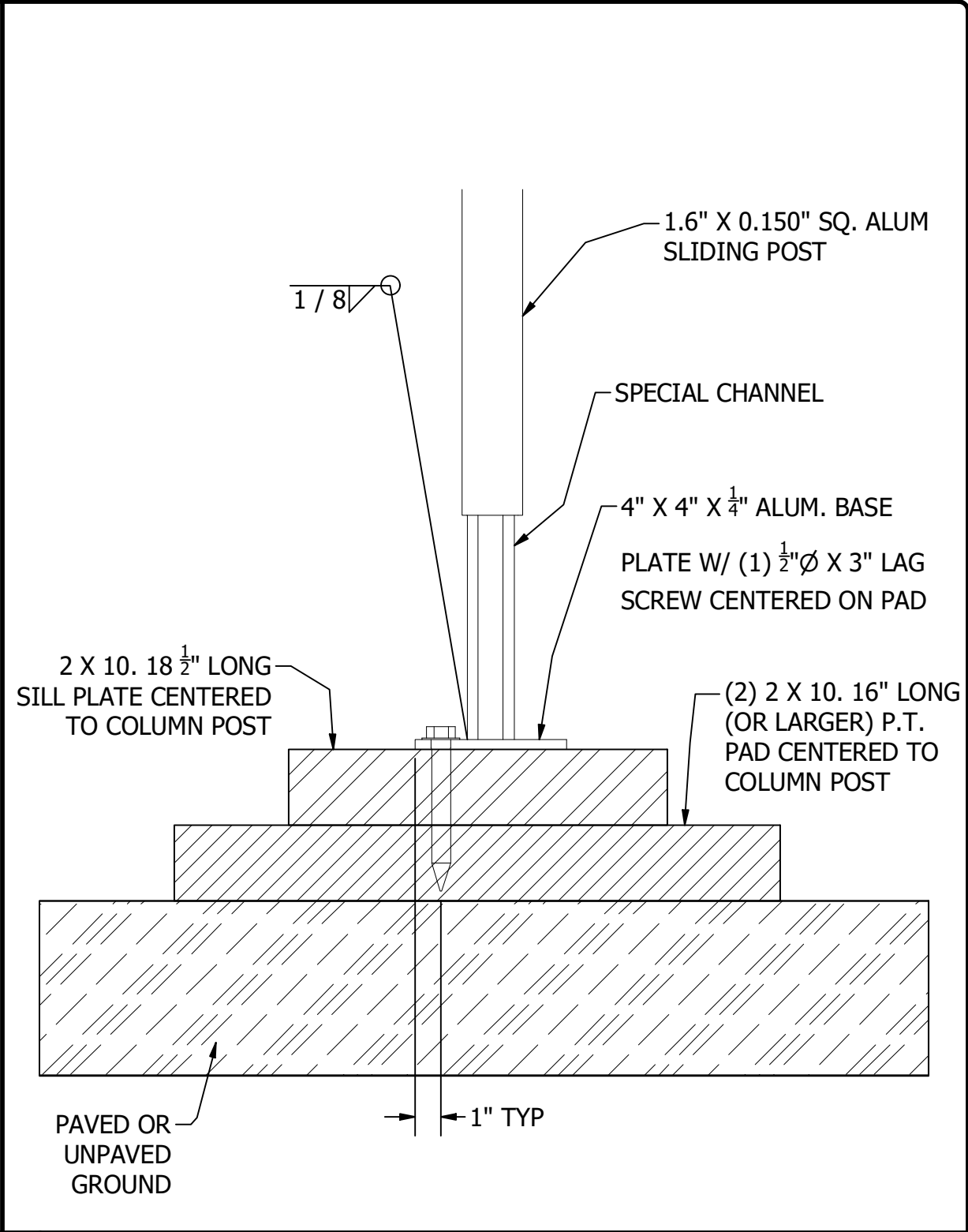
4 | TIMCOLOC ASPHALT FASTENER



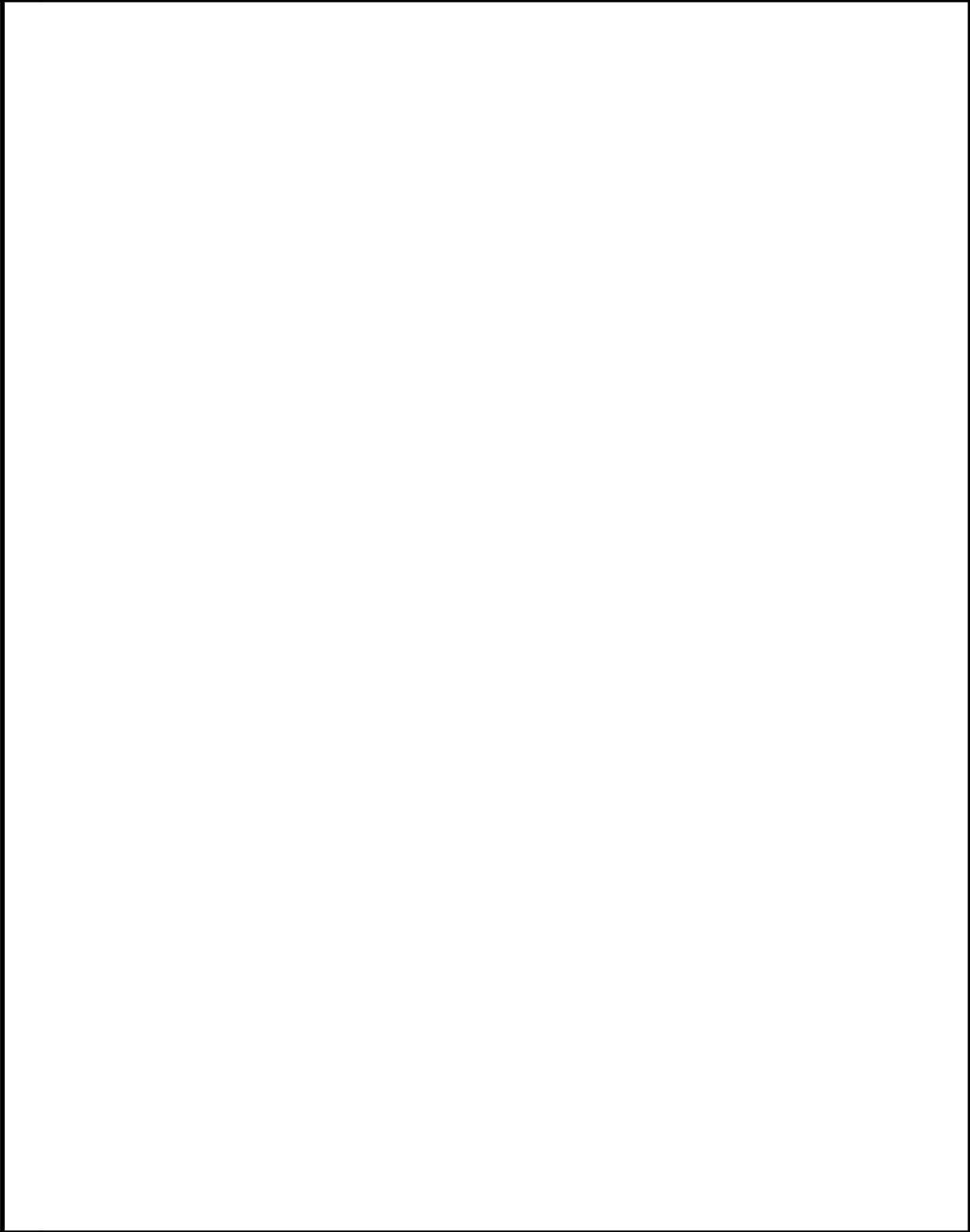
2 | UNPAVED/PAVED FOOTING OPTION I



5 | NOT USED



3 | UNPAVED/PAVED FOOTING OPTION 2



6 | NOT USED

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