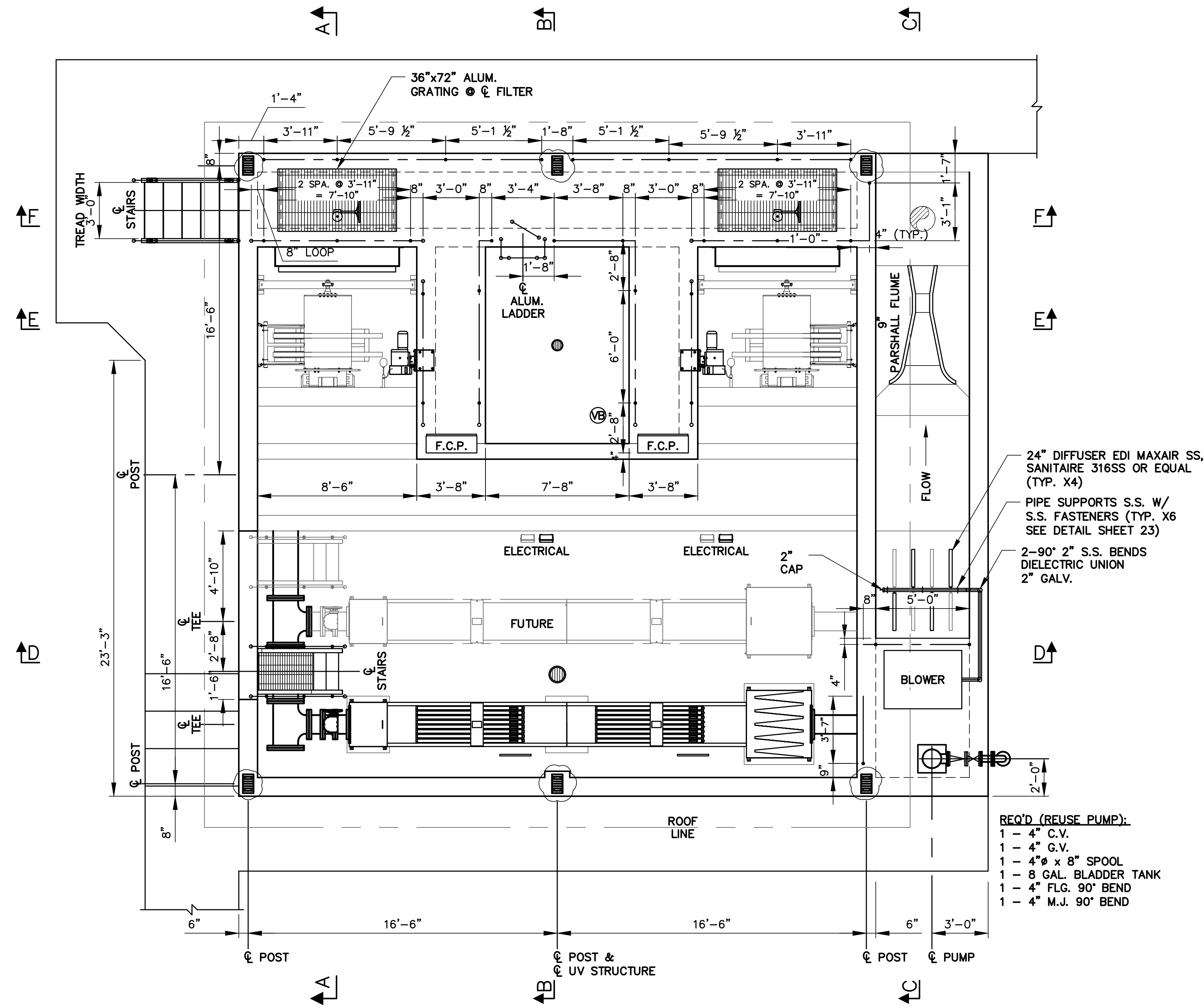


REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS	
04/11/25		FLAT CREEK WATER POLLUTION CONTROL PLANT	
05/02/25		AERATION BASIN SECTIONS & DETAILS (1 OF 2)	
DRAWN	CHECKED	SCALE: AS SHOWN	DATE: JANUARY 2024
JDC	GBT	SHEET 21 OF 103	

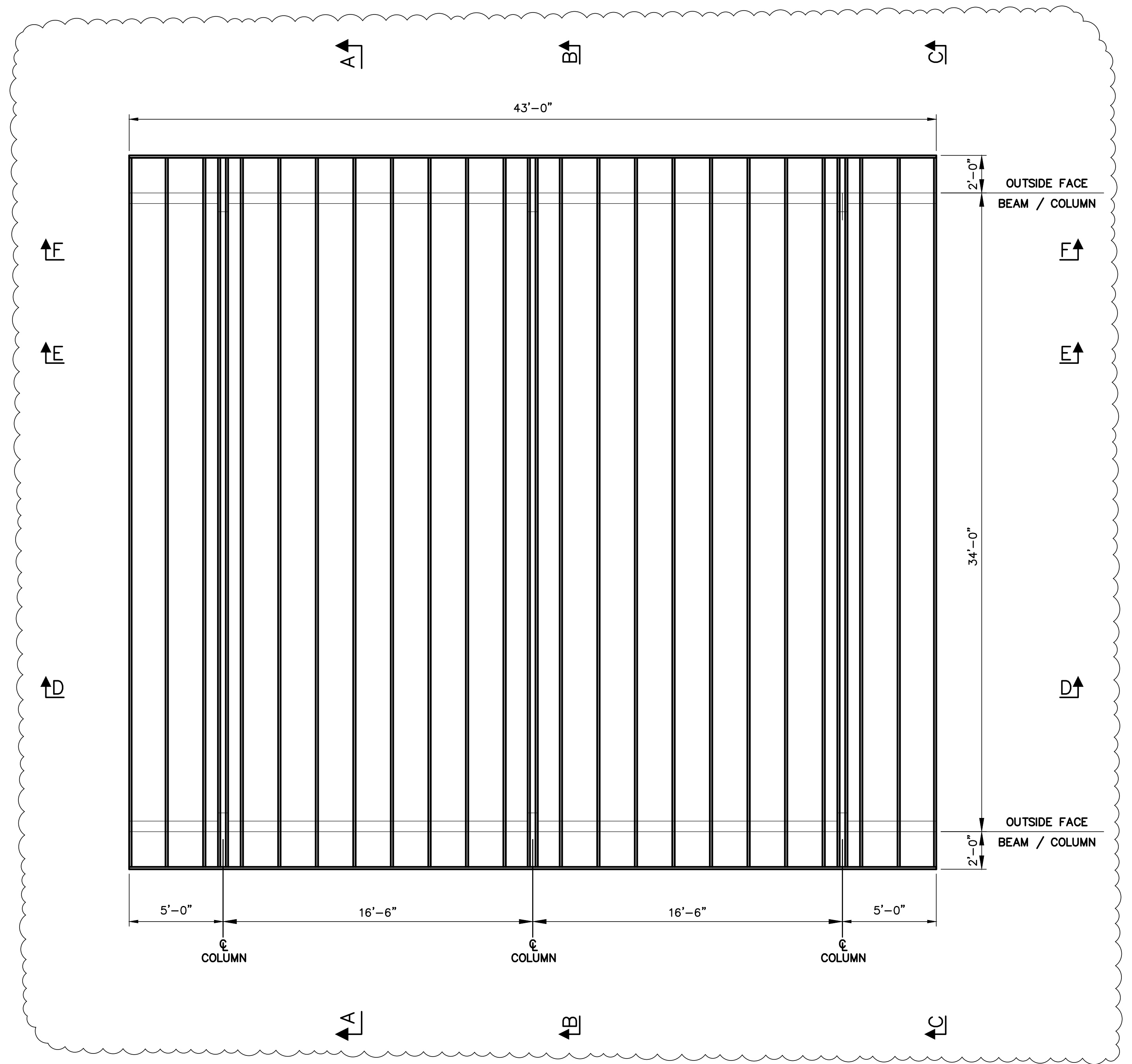


P:\dawsonville\182181 flat creek wpcp\Drawings\182181 Aeration Basin.dwg

P:\Dawsonville\182181 Flat Creek WPCP\Drawings\182181 FILTER UV.dwg



TOP PLAN
SCALE: 1/4" = 1'-0

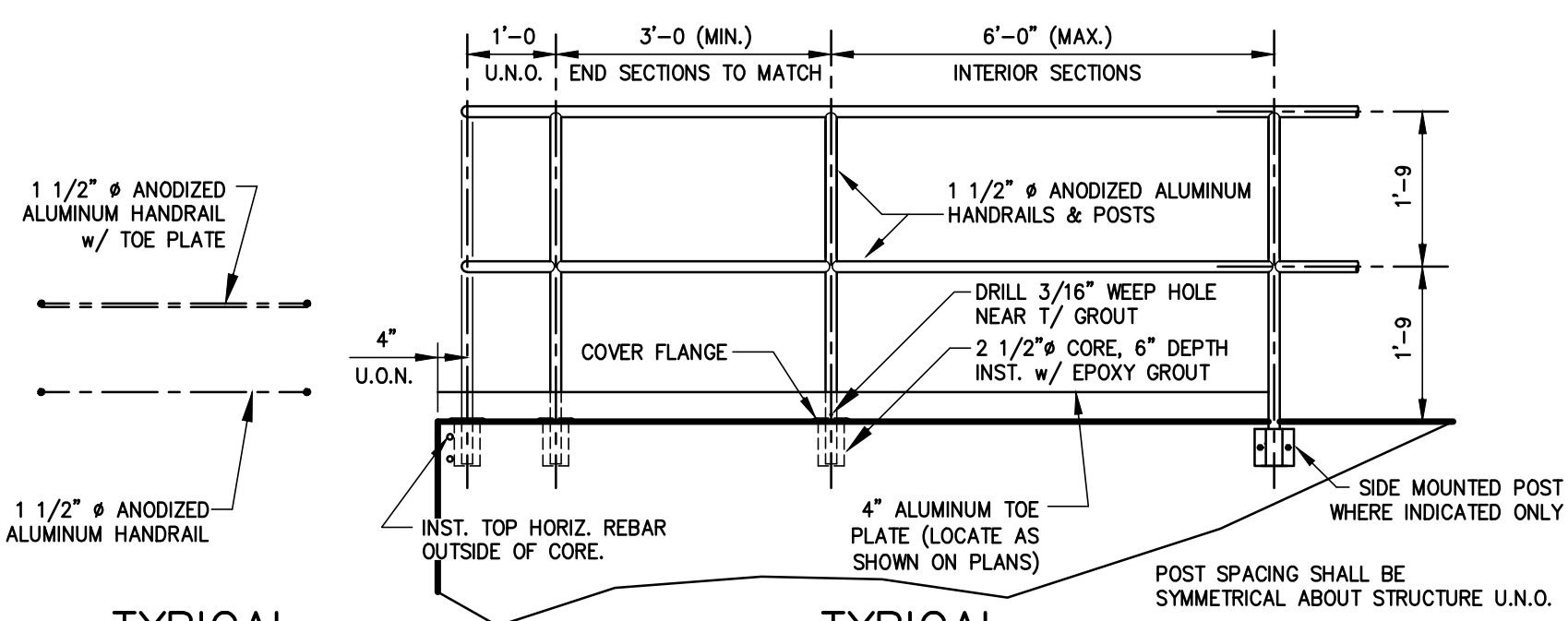


ROOF PLAN
SCALE: 1/4" = 1'-0



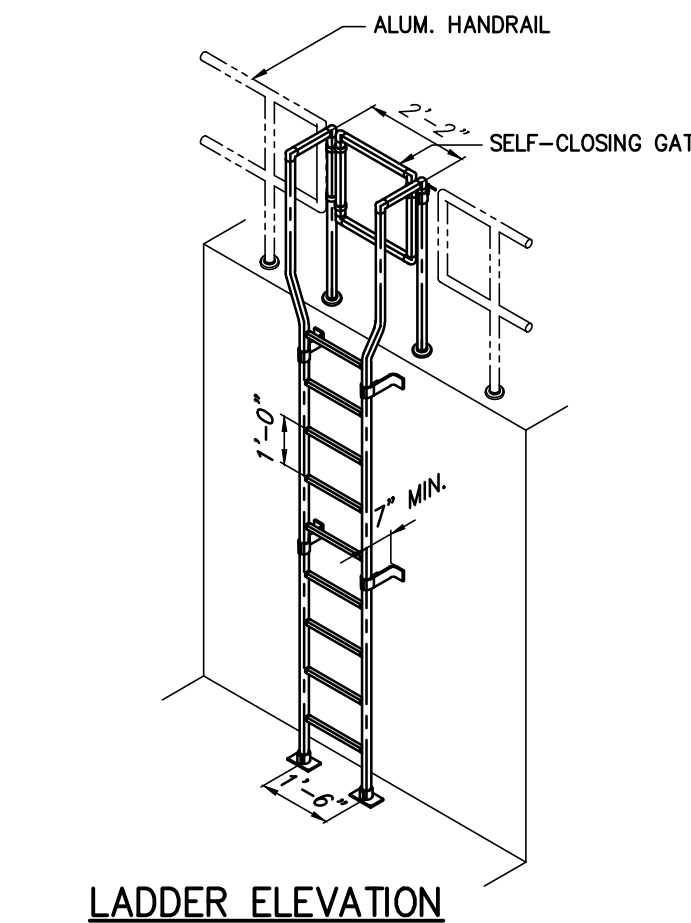
REVISIONS		CITY OF DAWSONVILLE, GEORGIA	
04/11/25		SEWERAGE SYSTEM IMPROVEMENTS	
05/02/25		FLAT CREEK WATER POLLUTION CONTROL PLANT	
		FILTER & UV STRUCTURE	
		TOP & ROOF PLANS	
DRAWN	CHECKED		
JDC	GBT	SCALE: AS SHOWN	DATE: JANUARY 2024
TURNIPSEED ENGINEERS		ATLANTA AUGUSTA Aiken ST. SIMONS ISLAND	SHEET 28 OF 103

P:\dawsonville\182181 flat creek wpcc\Drawings\182181 Details.dwg

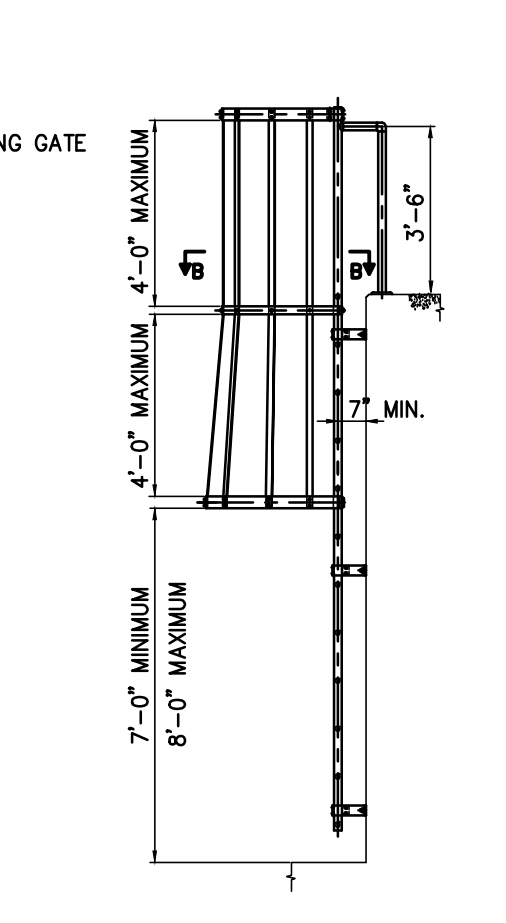


TYPICAL HANDRAIL PLAN

TYPICAL HANDRAIL ELEVATION

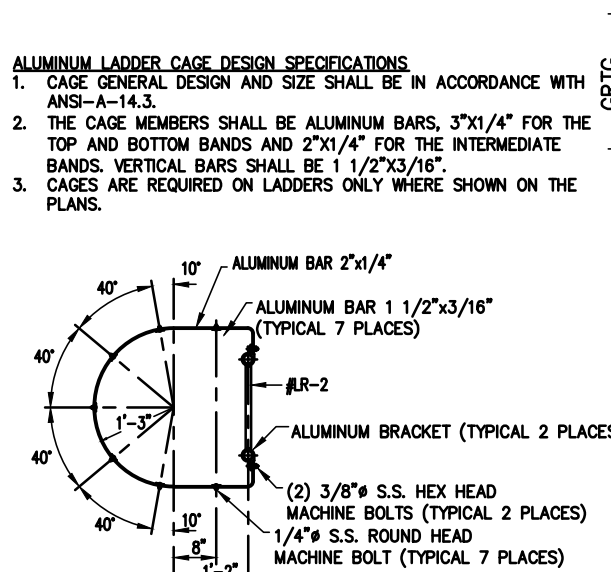


LADDER ELEVATION



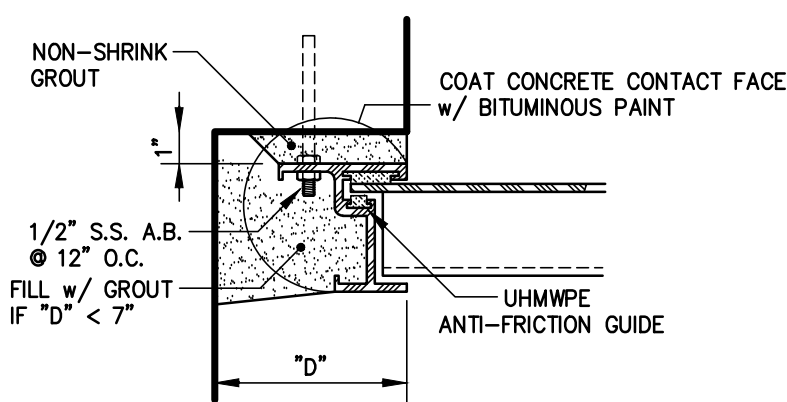
CAGED LADDER ELEVATION

- ALUMINUM LADDER DESIGN SPECIFICATIONS**
1. RUN DESCRIPTION
THE RUN SHALL BE DESIGNED TO PROVIDE A NON-SLIP POWER GRIP SURFACE WITH A FLAT 1" WIDE SERRATED TOP SURFACE AND SEMICIRCULAR BOTTOM.
 2. SIDE RAIL DESCRIPTION
THE SIDE RAIL SHALL MEET THE REQUIREMENTS OF ANSI-A14.3.
 3. CODES
THE LADDER SHALL MEET THE REQUIREMENTS OF ANSI-A14.3.
 4. DESIGN LOADS
a) LADDER RUNS SHALL BE DESIGNED TO WITHSTAND A CONCENTRATED LOAD OF 250 POUNDS PLUS 30% IMPACT. MAXIMUM RUN DEFLECTION SHALL NOT EXCEED L/360. THE DESIGN LOAD SHALL BE APPLIED AT THE CENTER OF THE RUN ON A 4" WIDE AREA.
b) LADDER SIDE RAILS SHALL BE DESIGNED TO WITHSTAND A MINIMUM LIVE LOAD OF TWO 250 POUND LOADS PLUS 30% IMPACT CONCENTRATED BETWEEN ANY TWO CONSECUTIVE ATTACHMENTS.
 5. FINISH
PIPE FOR SIDE RAILS SHALL HAVE AL. ASSOC. A41 FINISH. RUNGS, CAGE AND BRACKETS ARE TO BE MILL FINISH.
 6. SELF-CLOSING GATES ARE REQUIRED WHERE SHOWN ON PLANS.

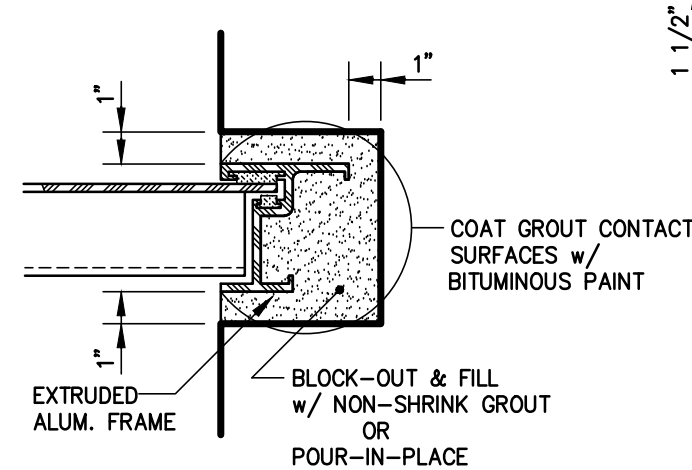


SECTION B-B

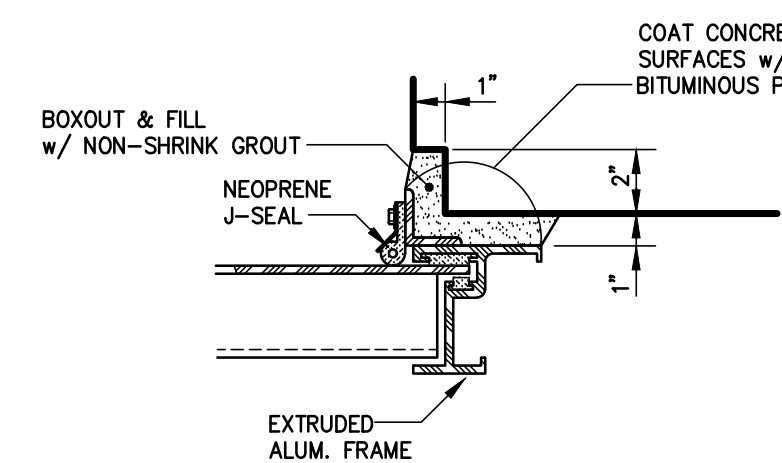
TYPICAL ALUMINUM LADDER & CAGE DETAILS



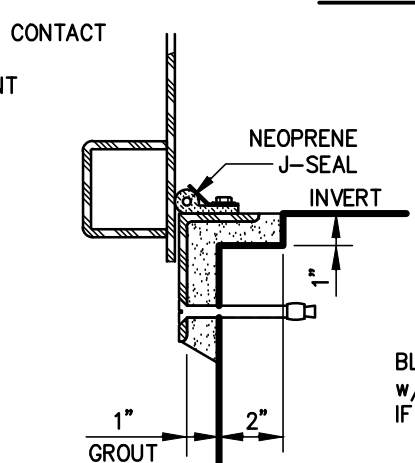
SECTION B FACE MOUNT



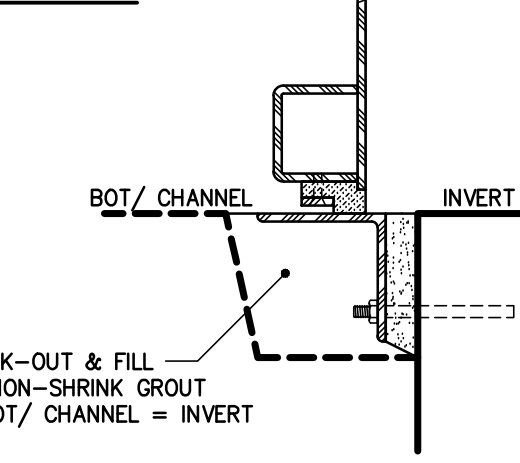
SECTION C EMBED MOUNT



SECTION A

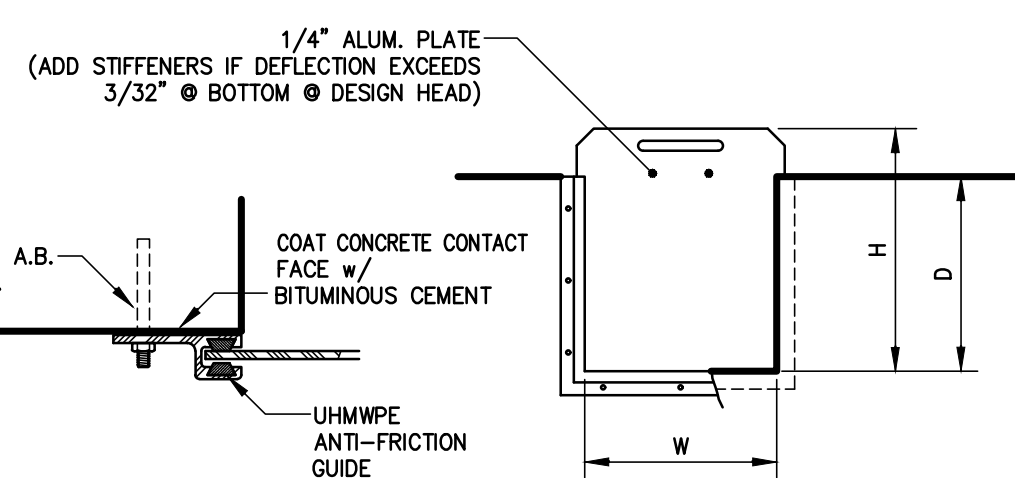


SECTION D



SECTION E

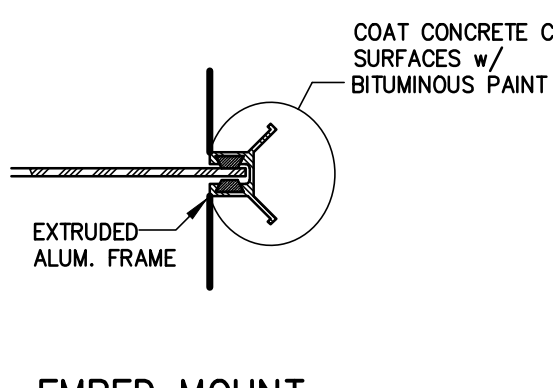
ALUMINUM GATE DETAILS



FACE MOUNT

ELEVATION

ALUMINUM STOP GATE DETAILS

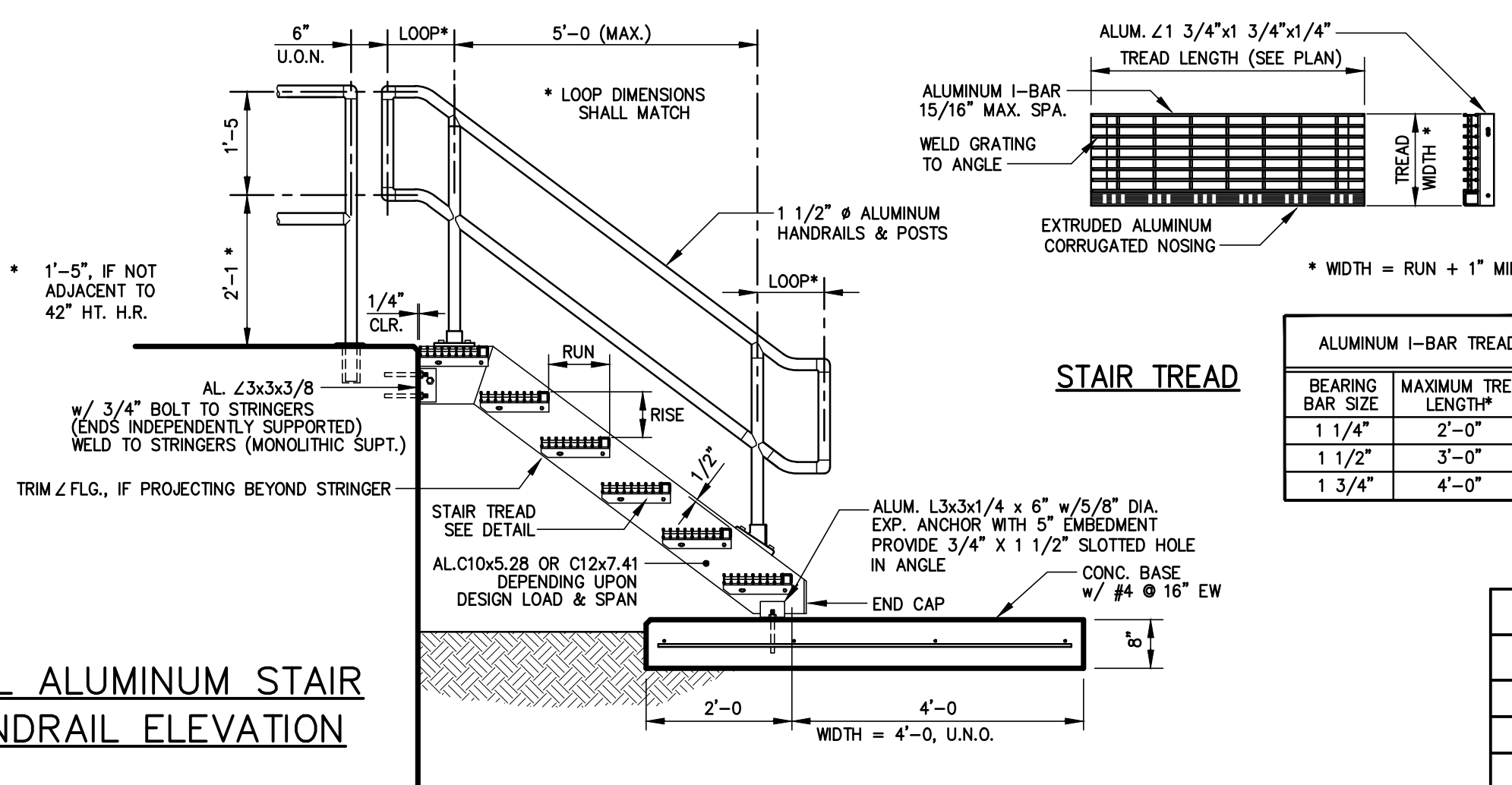


EMBED MOUNT

HANDRAIL DESIGN SPECIFICATIONS

1. HANDRAIL SHALL BE THE PRODUCT OF A COMPANY NORMALLY ENGAGED IN THE MANUFACTURE OF PIPE RAILING. RAILING SHALL BE SHOP ASSEMBLED IN LENGTHS NOT TO EXCEED 24 FEET FOR FIELD ERECTION.
2. GUARDRAILS/HANDRAILS SHALL BE DESIGNED IN ACCORDANCE WITH THE BUILDING CODE AND SHALL BE DESIGNED TO WITHSTAND A 200 LB CONCENTRATED LOAD APPLIED IN ANY DIRECTION TO THE TOP RAIL OR A UNIFORM LOAD APPLIED IN ANY DIRECTION AT THE TOP RAIL. WHICHEVER IS WORSE. THE MANUFACTURER SHALL SUBMIT CALCULATIONS FOR APPROVAL. IF REQUESTED BY THE ENGINEER. TESTING OF BASE CASTINGS OR BASE EXTRUSIONS BY AN INDEPENDENT LAB OR MANUFACTURER'S LAB (IF MANUFACTURER'S LAB MEETS THE REQUIREMENTS OF THE ALUMINUM ASSOCIATION) WILL BE AN ACCEPTABLE SUBSTITUTE FOR CALCULATIONS. POSTS SHALL BE SPACED NOT OVER 4'-0" ON CENTER BASED ON A 1 1/2" SCHEDULE 80 ALUMINUM PIPE (6061-T6 ALUMINUM). GREATER POST SPACINGS ARE ALLOWED IF THEIR MEMBERS AND THEIR CONNECTIONS MEET THE REQUIRED DESIGN LOADS. SEE SPECIFICATIONS FOR MATERIAL.
3. POSTS SHALL NOT INTERRUPT THE CONTINUATION OF THE TOP RAIL AT ANY POINT ALONG THE RAILING, INCLUDING CORNERS AND END TERMINATIONS (OSHA 1910.23). THE TOP SURFACE OF THE TOP RAILING SHALL BE SMOOTH AND SHALL NOT BE INTERRUPTED BY PROJECTED FITTINGS. OPENINGS IN THE RAILING SHALL BE GUARDED BY A SELF-CLOSING GATE (OSHA 1910.23). SAFETY CHAINS SHALL NOT BE USED UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS. FINISH SHALL BE ALUMINUM ASSOCIATION M10-C22-A41 (215-R1).
4. THE PIPE SHALL BE PLASTIC-WRAPPED. THE PLASTIC WRAP IS TO BE REMOVED AFTER ERECTION.
5. ALUMINUM SURFACES IN CONTACT WITH CONCRETE, GROUT OR DISSIMILAR METALS WILL BE PROTECTED WITH A COAT OF BITUMINOUS PAINT, NYLON ISOLATORS OR OTHER APPROVED MATERIAL.
6. WHERE POSTS ARE SET IN CORED HOLES USING EPOXY GROUT THE TOP SURFACE OF GROUT SHALL BE BEVELED AROUND POST AND TOP EDGE OF GROUT SHALL BE 3/8" ABOVE CONCRETE SURFACE AS A 3/8" FILLET.

TYPICAL ALUMINUM STAIR & HANDRAIL ELEVATION

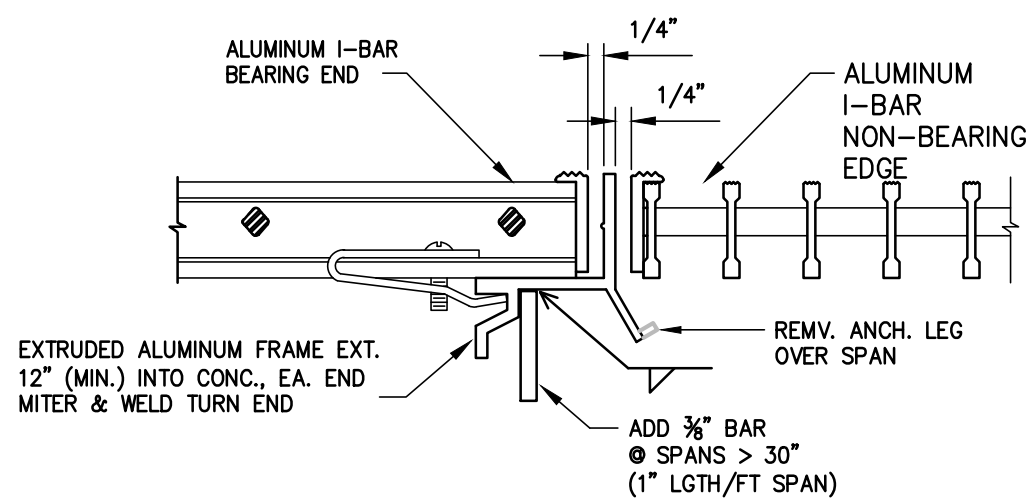


STAIR TREAD

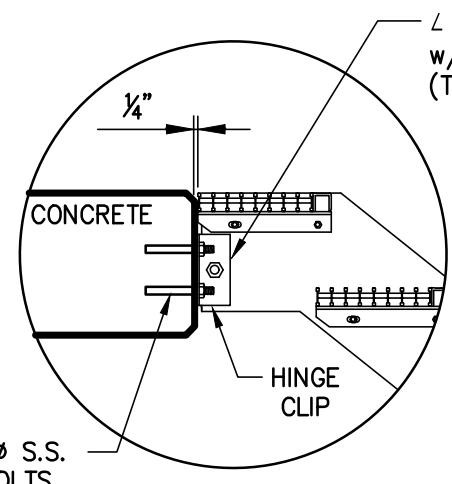
ALUMINUM I-BAR TREADS	
BEARING BAR SIZE	MAXIMUM TREAD LENGTH*
1 1/4"	2'-0"
1 1/2"	3'-0"
1 3/4"	4'-0"

GRATING SCHEDULE	
SPANS	DEPTH *
3'-0" OR LESS	1"
3'-1" TO 4'-0"	1 1/4"
4'-1" TO 5'-0"	1 1/2"
5'-1" TO 6'-0"	1 3/4"
6'-1" TO 7'-0"	2"
> 7'-0"	MIN. 1/4" DEFLECTION w/ 100 PSF LOADING.

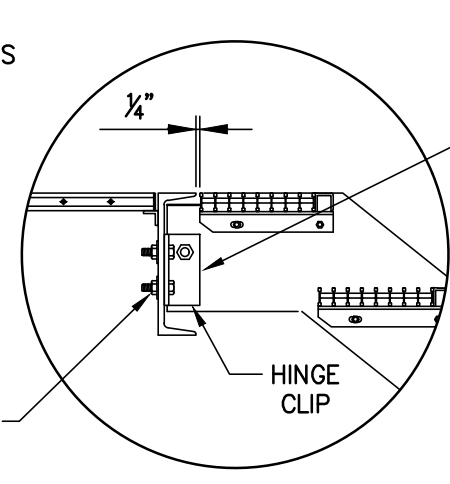
* MINIMUM REQUIRED, OR MIN. L/240 DEFLECTION w/ 100 PSF LOADING.



TYP. GRATING/PLANK SUPPORT OVER SPANS

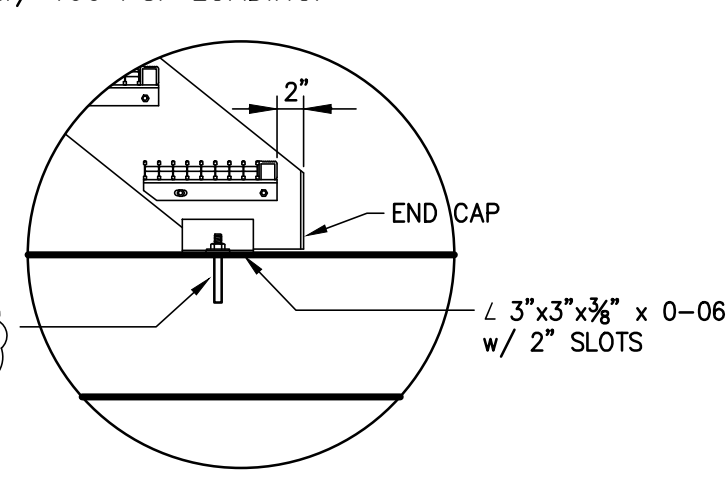


DETAIL "Tc" (CONC.)

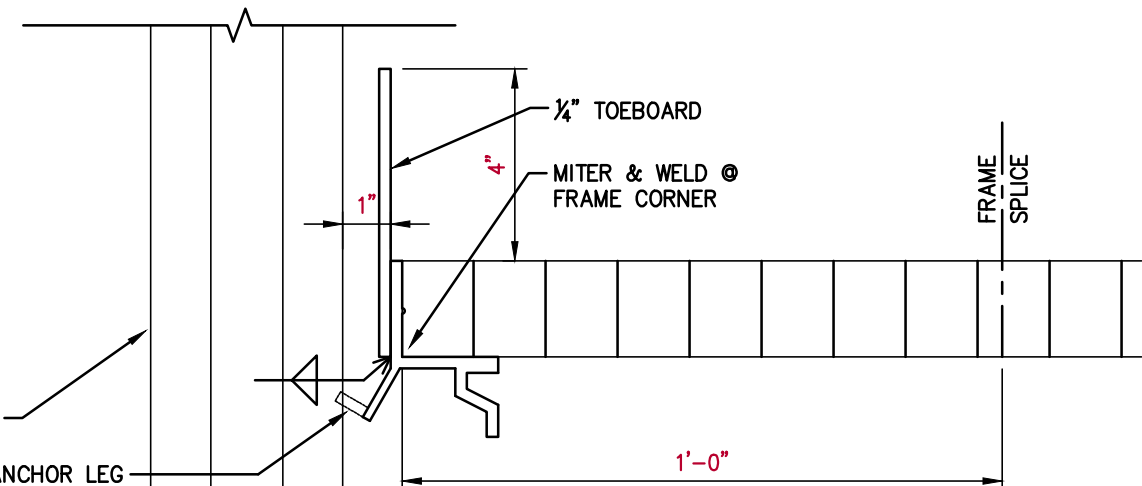


DETAIL "Tm" (METAL)

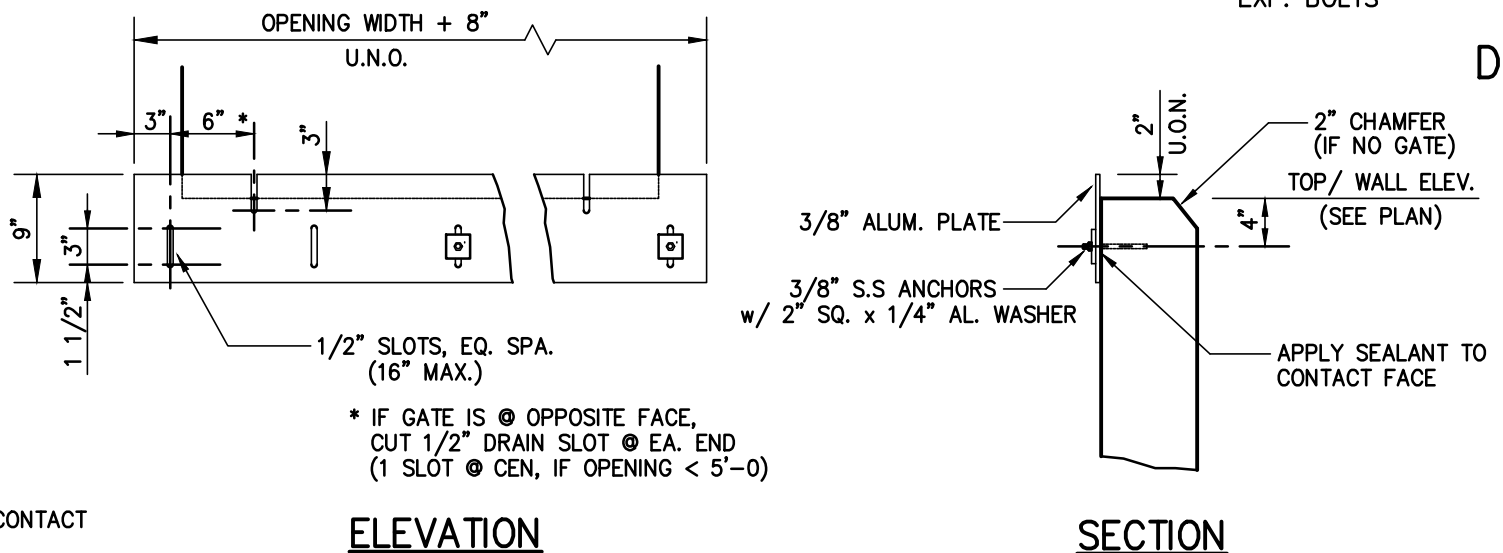
TYPICAL ALUMINUM STAIR CONNECTIONS



DETAIL "B"



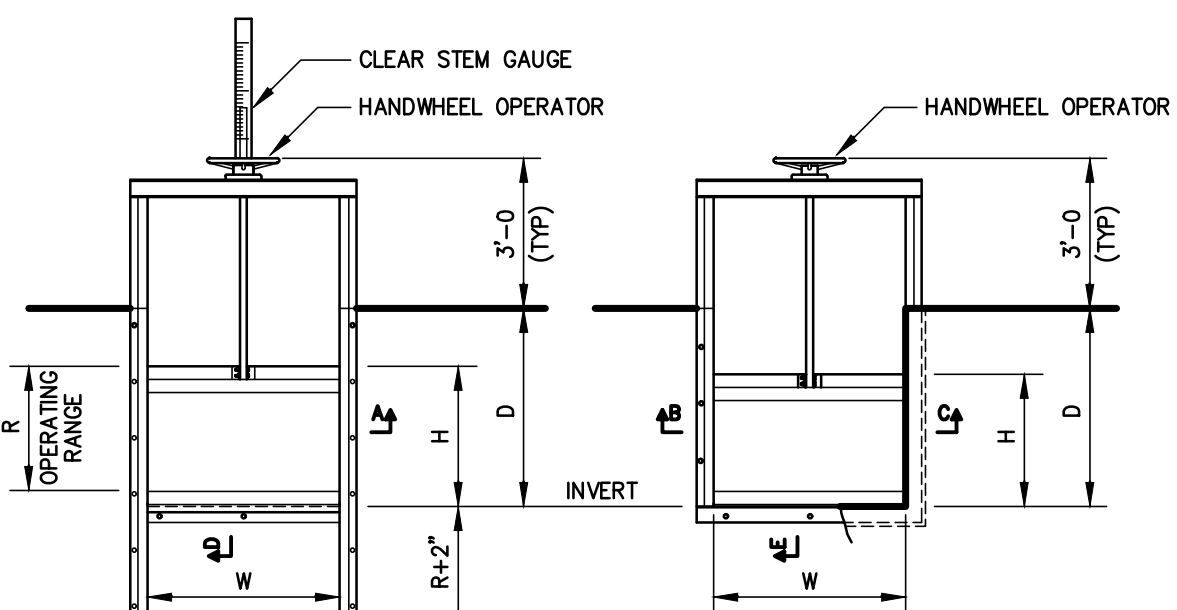
TYP. GRATING SUPPORT @ GATES



ELEVATION

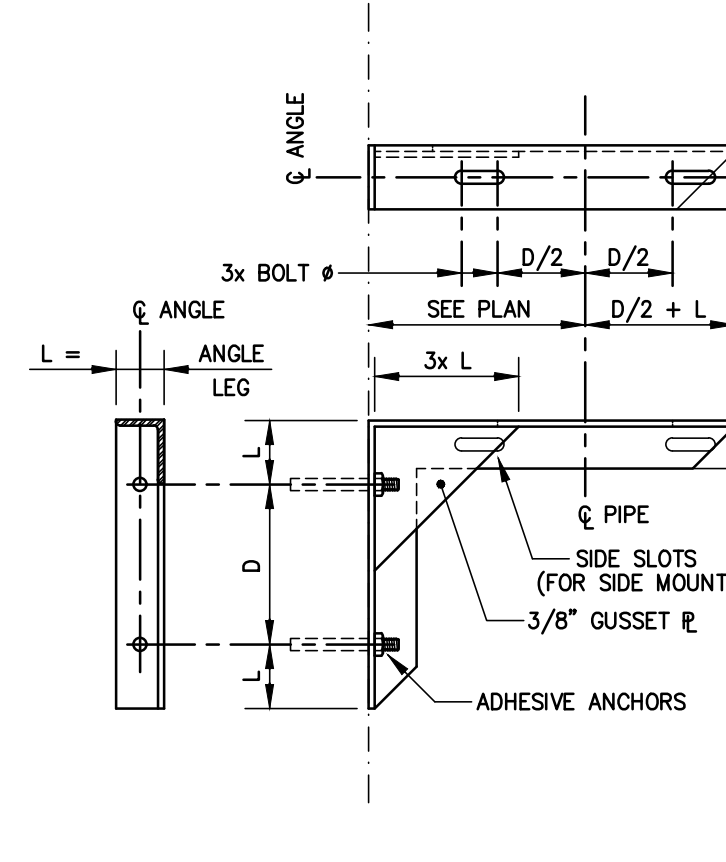
SECTION

TYPICAL WEIR PLATE DETAIL

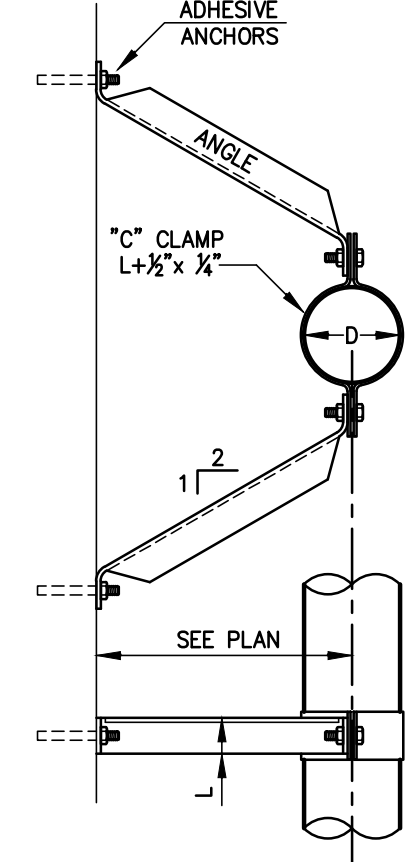


WEIR GATE ELEVATION

SLIDE GATE ELEVATION



TYPE "A"



TYPE "B"

- NOTES:
1. ANGLE AND CLAMP MATERIAL SHALL BE 316 S.S. FOR EXTERIOR AND SUBMERGED WATER SERVICE. MATERIAL SHALL BE CARBON STEEL, GALV. AND PAINTED PER SPECIFICATIONS, FOR OTHER SERVICES.
 2. BOLTS AND ANCHORS SHALL BE A-307, GALV., EXCEPT FOR EXPOSED CONDITIONS AND WATER SERVICE SHALL BE 316 S.S.

GATE SCHEDULE							
MARK	SHEET	LOCATION	TYPE	MOUNT	W	H	D
G-1,2	10	SCREEN & GRIT STRUCTURE	STOP	FACE	2'-0"	4'-6"	4'-0"
G-3,4,5	10	SCREEN & GRIT STRUCTURE	STOP	FACE	2'-0"	4'-6"	4'-0"
G-6	10	SCREEN & GRIT STRUCTURE	STOP	FACE/EMBED	1'-0"	4'-6"	4'-0"

PIPE SUPPORT SCHEDULE		
PIPE, Ø "D"	ANGLE SIZE	BOLT SIZE
≤ 6"	2 1/2" x 2 1/2" x 3/8"	1/2"
8" - 10"	3" x 3" x 3/8"	1/2"
12" - 16"	4" x 4" x 3/8"	5/8"
≥ 16"	SEE PLAN	

TYPICAL PIPE SUPPORT DETAILS



REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS	
04/11/25		FLAT CREEK WATER POLLUTION CONTROL PLANT	
05/02/25		MISCELLANEOUS METALS NOTES & DETAILS	
DRAWN	CHECKED	SCALE: N.T.S.	DATE: JANUARY 2024
JDC	GBT		
TURNIPSEED ENGINEERS		ATLANTA AUGUSTA Aiken ST. SIMONS ISLAND	SHEET 91 OF 103