

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

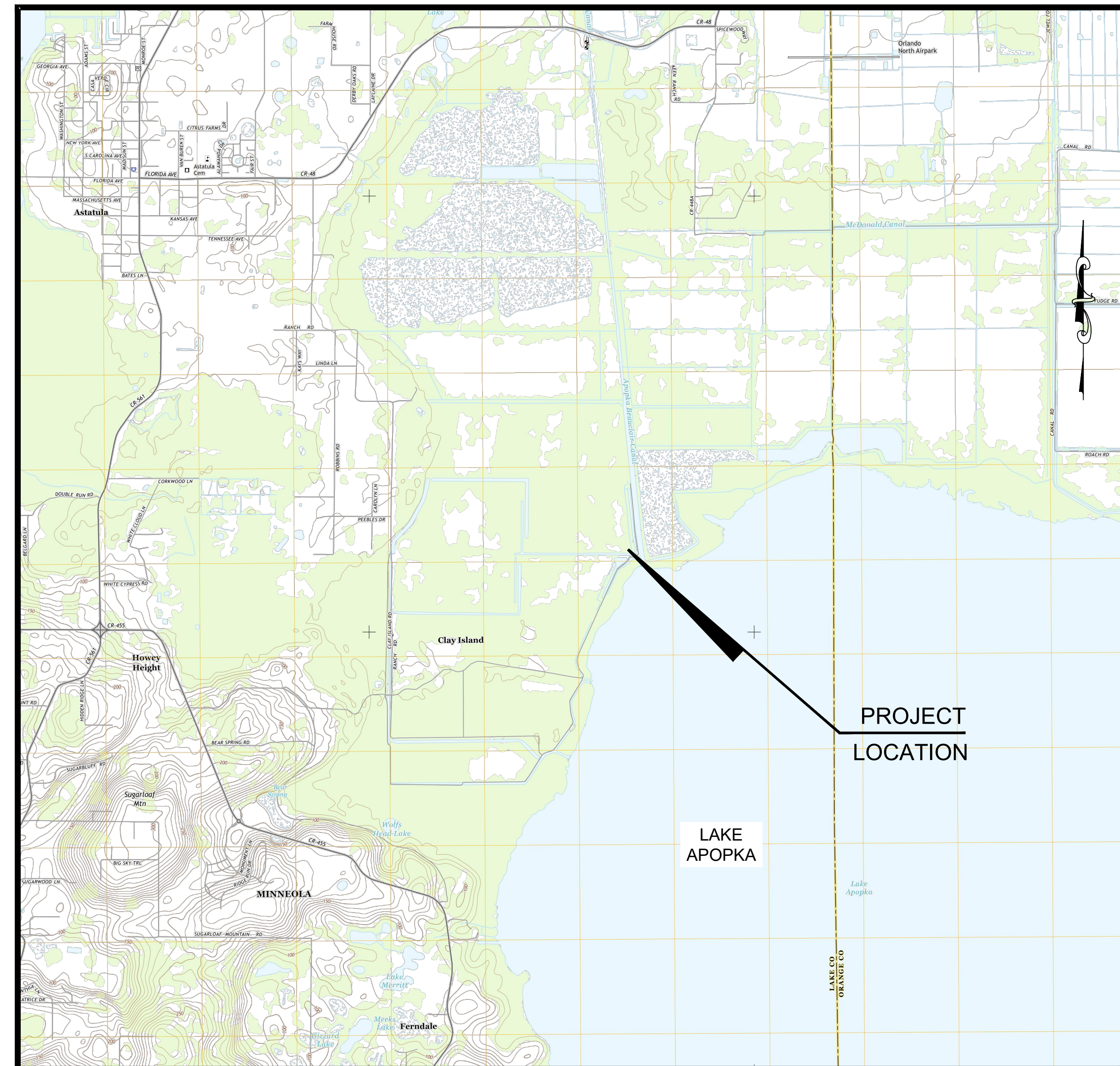
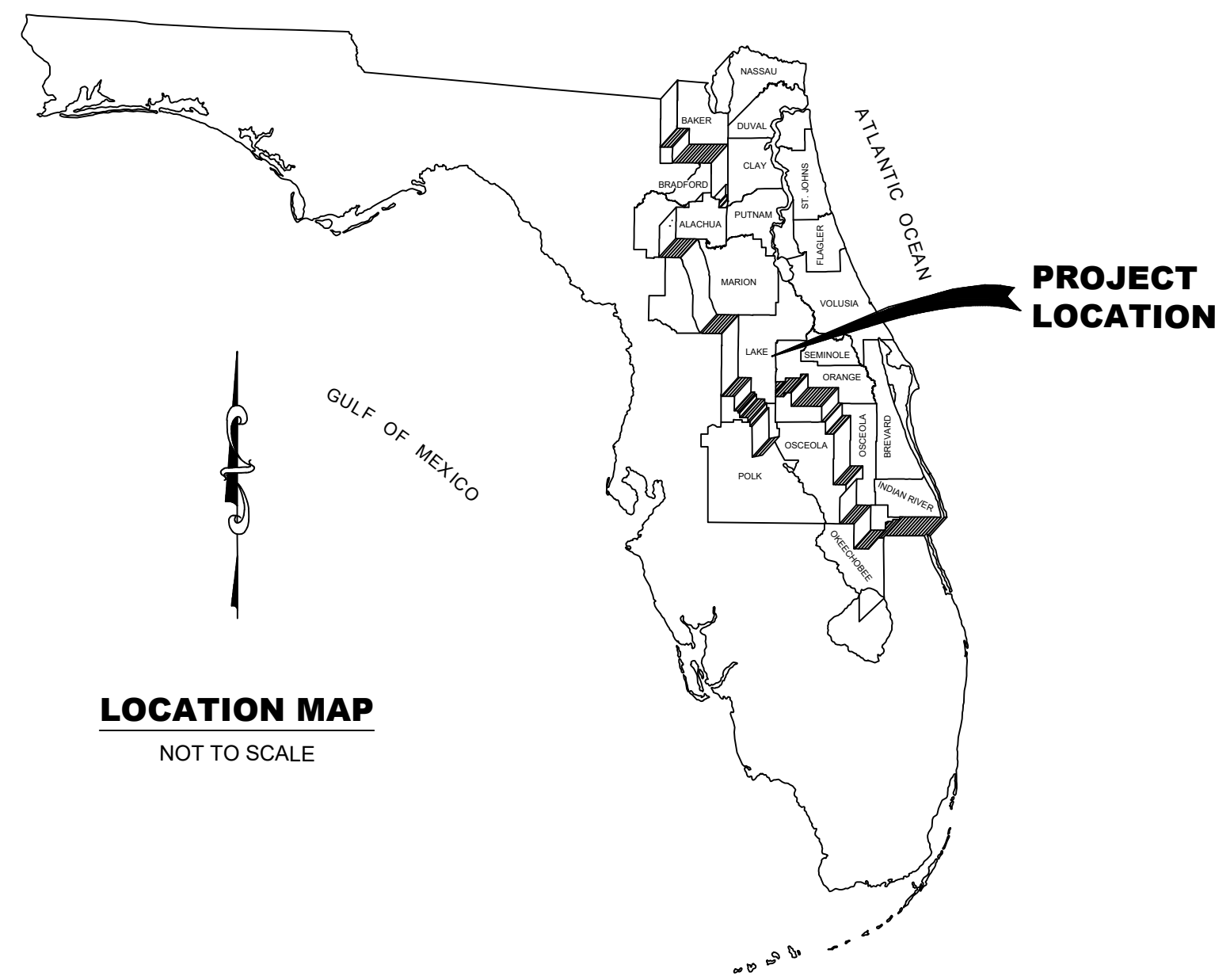
UPPER OCKLAWAHA RIVER BASIN

APOPKA MFW WRI WALKWAYS

LAKE COUNTY, FLORIDA

NAVD 1988

ALL ELEVATIONS DEPICTED HEREIN
REFERENCE NAVD 1988 UNLESS
OTHERWISE NOTED. THE CONVERSION
FACTOR TO NGVD 1929 IS +1.09.

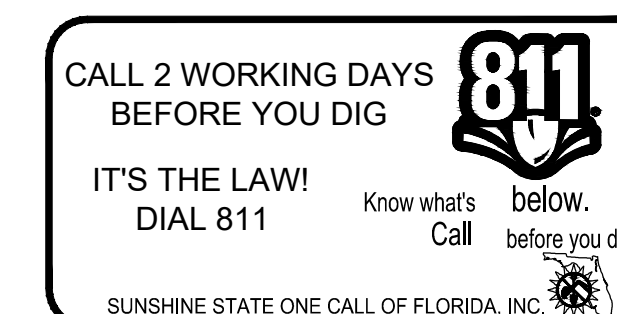


INDEX OF PLANS

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ENGINEER'S NOTES:

1. These drawings are prepared for the sole and exclusive use of the St. Johns River Water Management District and shall not be relied upon by any other entity or individual.
2. Reproductions of these drawings are "NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL SEAL OF A FLORIDA LICENSED ENGINEER."



NO.	REVISION	BY	DATE	APPROVED	DATE
1	ISSUED FOR CONSTRUCTION	N.J.G.	08/31/20	W.R.C.	08/31/20

ISSUED FOR CONSTRUCTION

CERTIFICATION:	DRAWING FILENAME:
WILLIAM R. COTE	A MFW WRI W COVER.dwg
P.E. NUMBER: 53746	SHEET:
DATE: AUGUST 31, 2020	C1

NOTE SPECIFICATIONS:

STRUCTURAL STEEL:

- STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", NINTH EDITION.
- WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING CODE" AWS D1.1.
- ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE NEW AND CONFORM TO THE REQUIREMENTS OF THE AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM) STANDARD A36 UNLESS NOTED OTHERWISE.
- ALL BOLTS SHALL BE STAINLESS STEEL CONFORMING TO ASTM A276, TYPE 304.
- ALL WELDING SHALL UTILIZE E70XX LOW-HYDROGEN ELECTRODES UNLESS NOTED OTHERWISE.

- PROTECTIVE COATING FOR STRUCTURAL STEEL SHALL BE AS MANUFACTURED BY SHERWIN-WILLIAMS, OR EQUAL, AS FOLLOWS:

FIRST COAT (PRIMER):	DURA-PLATE 235, 4-8 MILS DFT
SECOND COAT:	DURA-PLATE 235, 4-8 MILS DFT
THIRD (FINAL) COAT:	DURA-PLATE 235, 4-8 MILS DFT

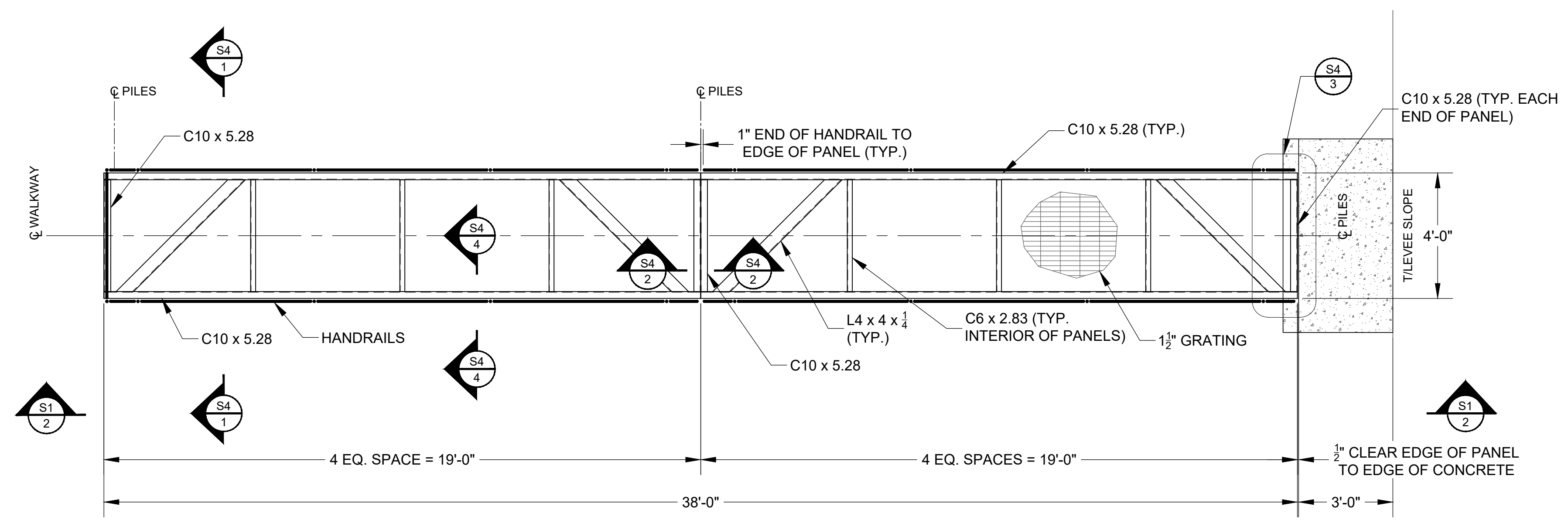
SURFACE PREPARATION SHALL BE SSPC-10 NEAR WHITE BLAST. COLOR SHALL BE LIGHT GRAY. CONTRACTOR SHALL SUBMIT COLOR SAMPLES FOR DISTRICT APPROVAL. SURFACE PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH THE PAINT MANUFACTURER SPECIFICATIONS.

STRUCTURAL ALUMINUM:

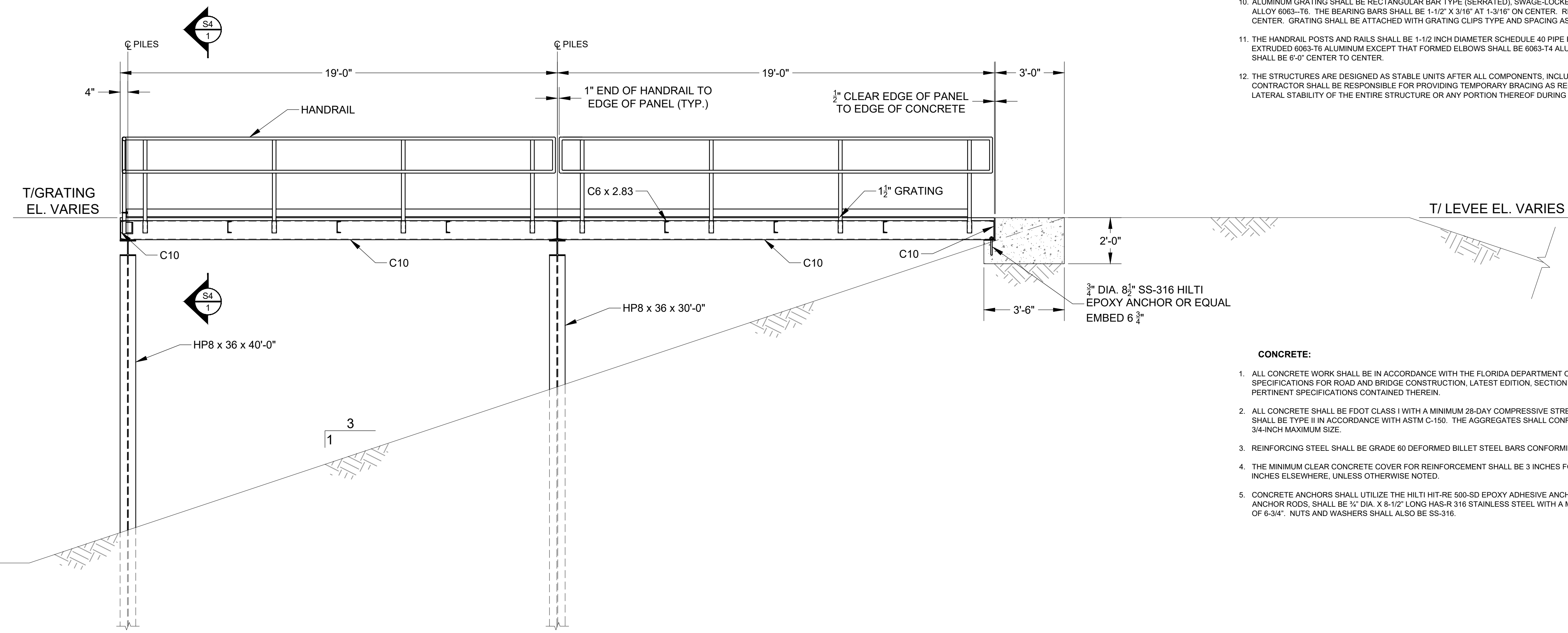
- STRUCTURAL ALUMINUM DESIGN AND FABRICATION SHALL BE IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION, INC. "SPECIFICATIONS FOR ALUMINUM STRUCTURES", LATEST EDITION.
- WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING CODE - ALUMINUM" AWS D1.2.
- ALUMINUM STRUCTURAL SHAPES SHALL BE NEW AND CONSIST OF ALLOY 6061-T6 CONFORMING TO THE REQUIREMENTS OF THE AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM) STANDARD B308.
- ALUMINUM BARS, RODS, AND WIRE SHALL BE NEW AND CONSIST OF ALLOY 6061-T6 CONFORMING TO THE REQUIREMENTS OF ASTM STANDARD B211.
- ALUMINUM PLATE SHALL BE NEW AND CONSIST OF ALLOY 5052-H32 CONFORMING TO THE REQUIREMENTS OF ASTM STANDARD B209.
- ALL BOLTS, NUTS, AND WASHERS SHALL CONSIST OF SS316 STAINLESS STEEL CONFORMING TO THE REQUIREMENTS OF ASTM STANDARDS F593 AND F594. MINIMUM BOLT SIZE SHALL BE 3/4-INCH UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL UTILIZE ER4043 FILLER ALLOY AND SHALL BE SHOP WELDED TO THE GREATEST EXTENT POSSIBLE.
- THE MINIMUM THICKNESS OF ALL CONNECTION ANGLES AND GUSSET PLATES SHALL BE 1/4-INCH UNLESS NOTED OTHERWISE.
- FIELD CORRECTING OF FABRICATED COMPONENTS SHALL NOT BE PERMITTED ON STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- ALUMINUM GRATING SHALL BE RECTANGULAR BAR TYPE (SERRATED), SWAGE-LOCKED, AND CONSIST OF ALUMINUM ALLOY 6063-T6. THE BEARING BARS SHALL BE 1-1/2" X 3/16" AT 1-3/16" ON CENTER. RECTANGULAR CROSS BARS SHALL BE 4" ON CENTER. GRATING SHALL BE ATTACHED WITH GRATING CLIPS TYPE AND SPACING AS RECOMMENDED BY THE MANUFACTURER.
- THE HANDRAIL POSTS AND RAILS SHALL BE 1-1/2 INCH DIAMETER SCHEDULE 40 PIPE FORMED FROM EXTRUDED 6063-T6 ALUMINUM EXCEPT THAT FORMED ELBOWS SHALL BE 6063-T4 ALUMINUM. THE MAXIMUM POST SPACING SHALL BE 6'-0" CENTER TO CENTER.
- THE STRUCTURES ARE DESIGNED AS STABLE UNITS AFTER ALL COMPONENTS, INCLUDING BRACING, ARE IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY BRACING AS REQUIRED TO ENSURE THE VERTICAL AND LATERAL STABILITY OF THE ENTIRE STRUCTURE OR ANY PORTION THEREOF DURING CONSTRUCTION.

CONCRETE:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, SECTION 400 WITH SUPPLEMENTS AND ALL PERTINENT SPECIFICATIONS CONTAINED THEREIN.
- ALL CONCRETE SHALL BE FDOT CLASS I WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI. PORTLAND CEMENT SHALL BE TYPE II IN ACCORDANCE WITH ASTM C-150. THE AGGREGATES SHALL CONFORM TO ASTM C-33 AND SHALL HAVE A 3/4-INCH MAXIMUM SIZE.
- REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BILLET STEEL BARS CONFORMING TO ASTM A-615.
- THE MINIMUM CLEAR CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES FOR CONCRETE CAST AGAINST EARTH AND 2 INCHES ELSEWHERE, UNLESS OTHERWISE NOTED.
- CONCRETE ANCHORS SHALL UTILIZE THE HILTI HIT-RE 500-SD EPOXY ADHESIVE ANCHORING SYSTEM, OR EQUAL. THREADED ANCHOR RODS, SHALL BE 3/4" DIA. X 8-1/2" LONG HAS-R 316 STAINLESS STEEL WITH A MINIMUM EMBEDMENT DEPTH OF 6-3/4". NUTS AND WASHERS SHALL ALSO BE SS-316.



S1 PLAN
SCALE: 3/8" = 1'-0"



S1 SECTION
SCALE: 3/8" = 1'-0"

ISSUED FOR CONSTRUCTION

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NO.	REVISION	BY	DATE	APPROVED	DATE
1	ADDED NOTE 6	N.J.G.	09-22-20	W.R.C.	09-22-20
2	ISSUED FOR CONSTRUCTION	N.J.G.	08/31/20	W.R.C.	08/31/20

UPPER OCKLAWAHA RIVER BASIN
APOPKA MFW WRI WALKWAYS
LAKE COUNTY, FLORIDA

ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
 P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G. DATE: AUGUST 31, 2020 REVIEWER: W.R.C.
 SCALE: 3/8" = 1'-0" DESIGNER: W.R.C. SECTION CHIEF: W.R.C.

TYPE 1 - TWO 19'-0" SPAN WALKWAY
PLAN AND SECTION

CERTIFICATION:

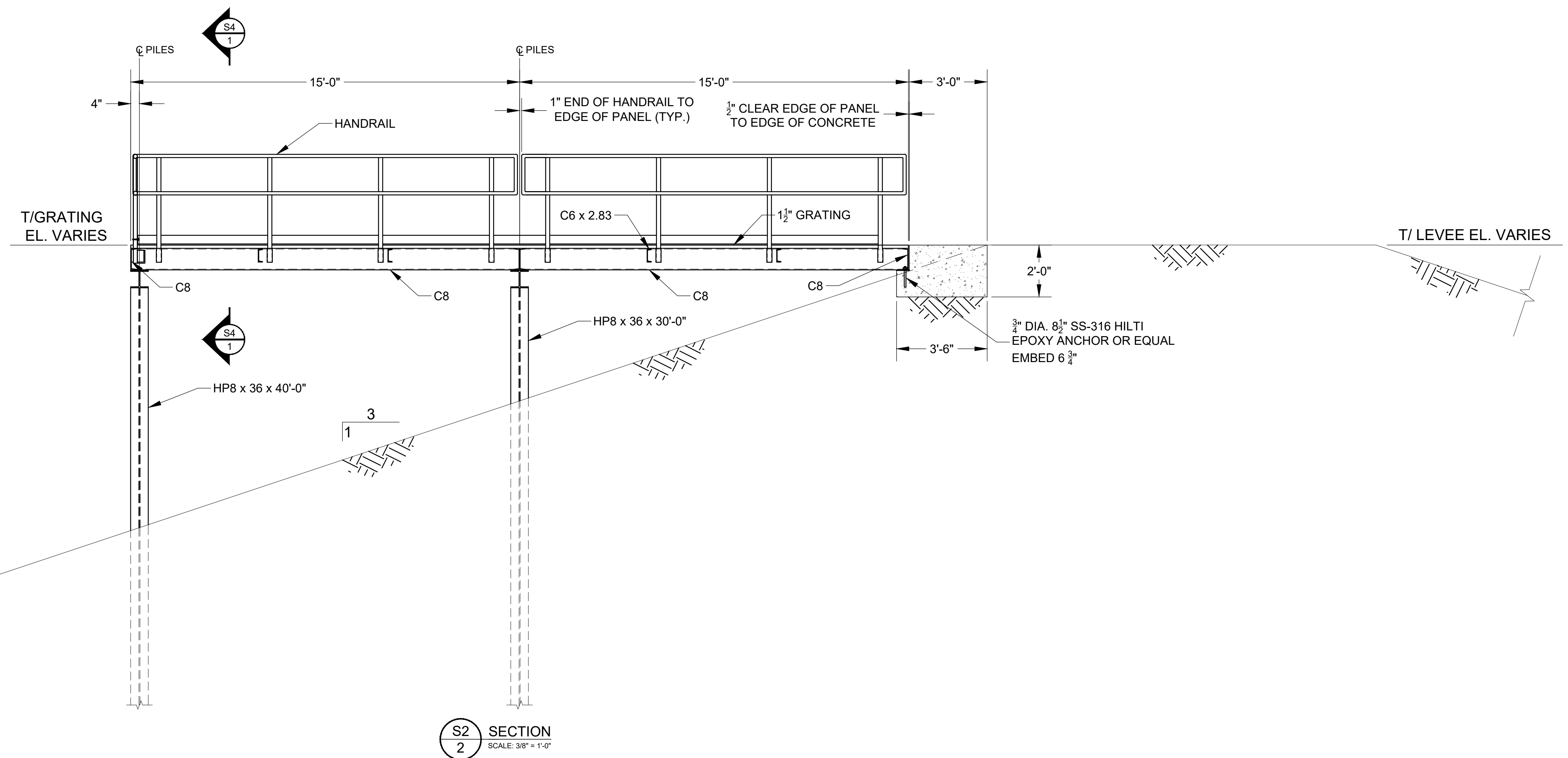
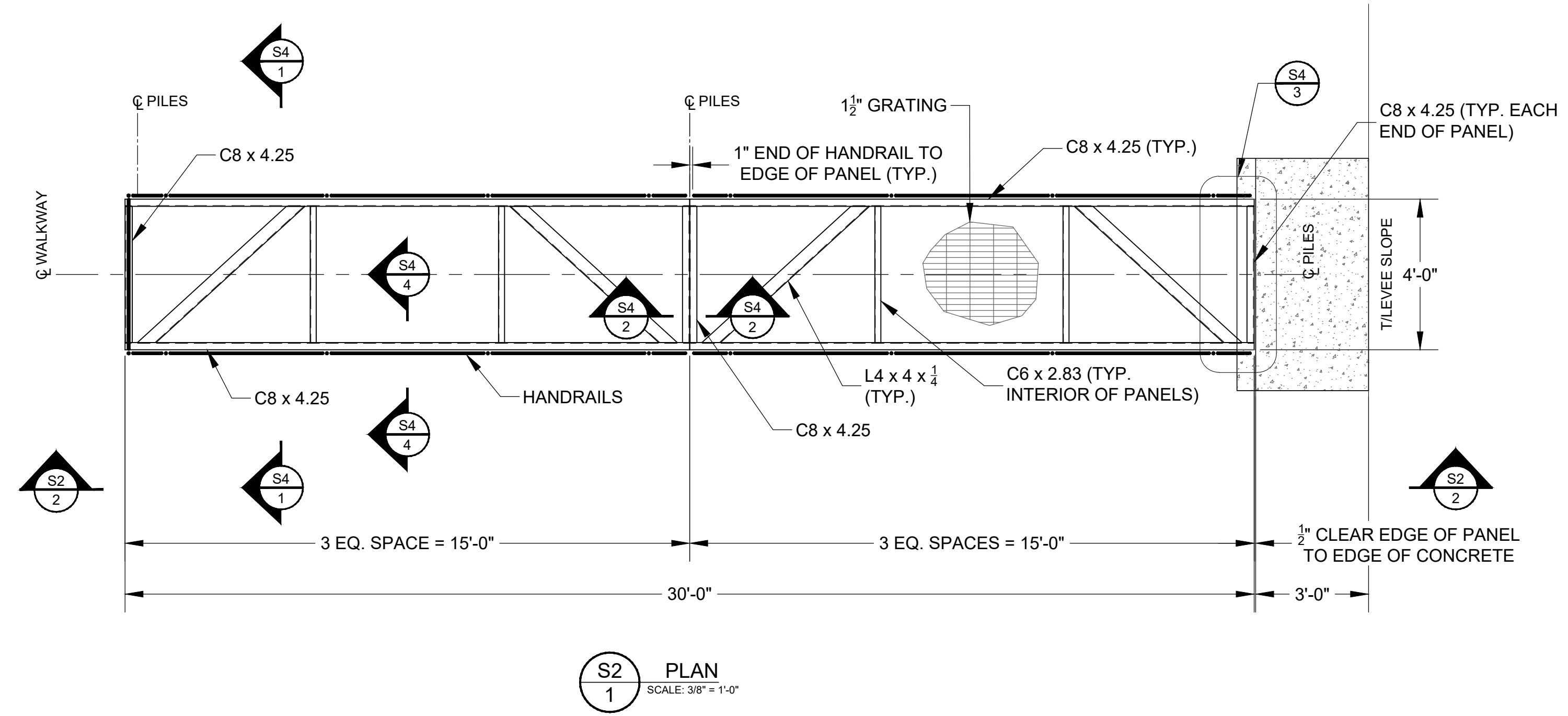
WILLIAM R. COTE
 P.E. NUMBER: 53746
 DATE: SEPTEMBER 22, 2020

FILE NAME:
A MFW WRI PLAN.dwg

PROJECT NO.:

SHEET:
S1

NOTE:
SEE SHEET S1 FOR SPECIFICATIONS.



CHANNEL
BOT. EL. VARIES

ISSUED FOR CONSTRUCTION

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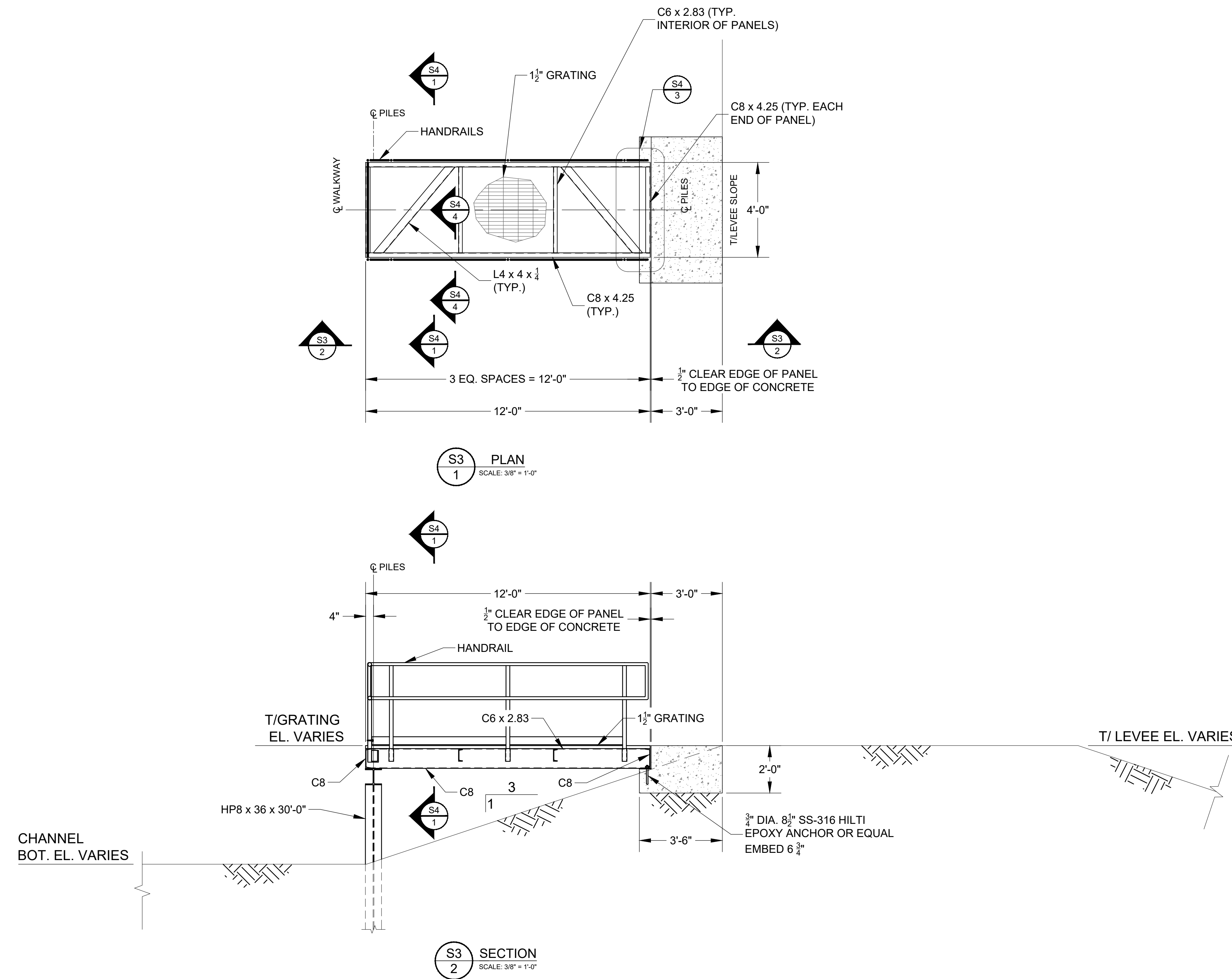
DRAWN: N.J.G. DATE: AUGUST 31, 2020 REVIEWER: W.R.C.
SCALE: 3/8" = 1'-0" DESIGNER: W.R.C. SECTION CHIEF: W.R.C.

TYPE 2 - TWO 15'-0" SPAN WALKWAY
PLAN AND SECTION

CERTIFICATION:
WILLIAM R. COTE
P.E. NUMBER: 53746
DATE: AUGUST 31, 2020

FILE NAME:
A MFW WRI PLAN.dwg
PROJECT NO.:
SHEET:
S2

NOTE:
SEE SHEET S1 FOR SPECIFICATIONS.



ISSUED FOR CONSTRUCTION

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NO.	REVISION	BY	DATE	APPROVED	DATE
	ISSUED FOR CONSTRUCTION	N.J.G.	08/31/20	W.R.C.	08/31/20

UPPER OCKLAWAHA RIVER BASIN
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LAKE COUNTY, FLORIDA

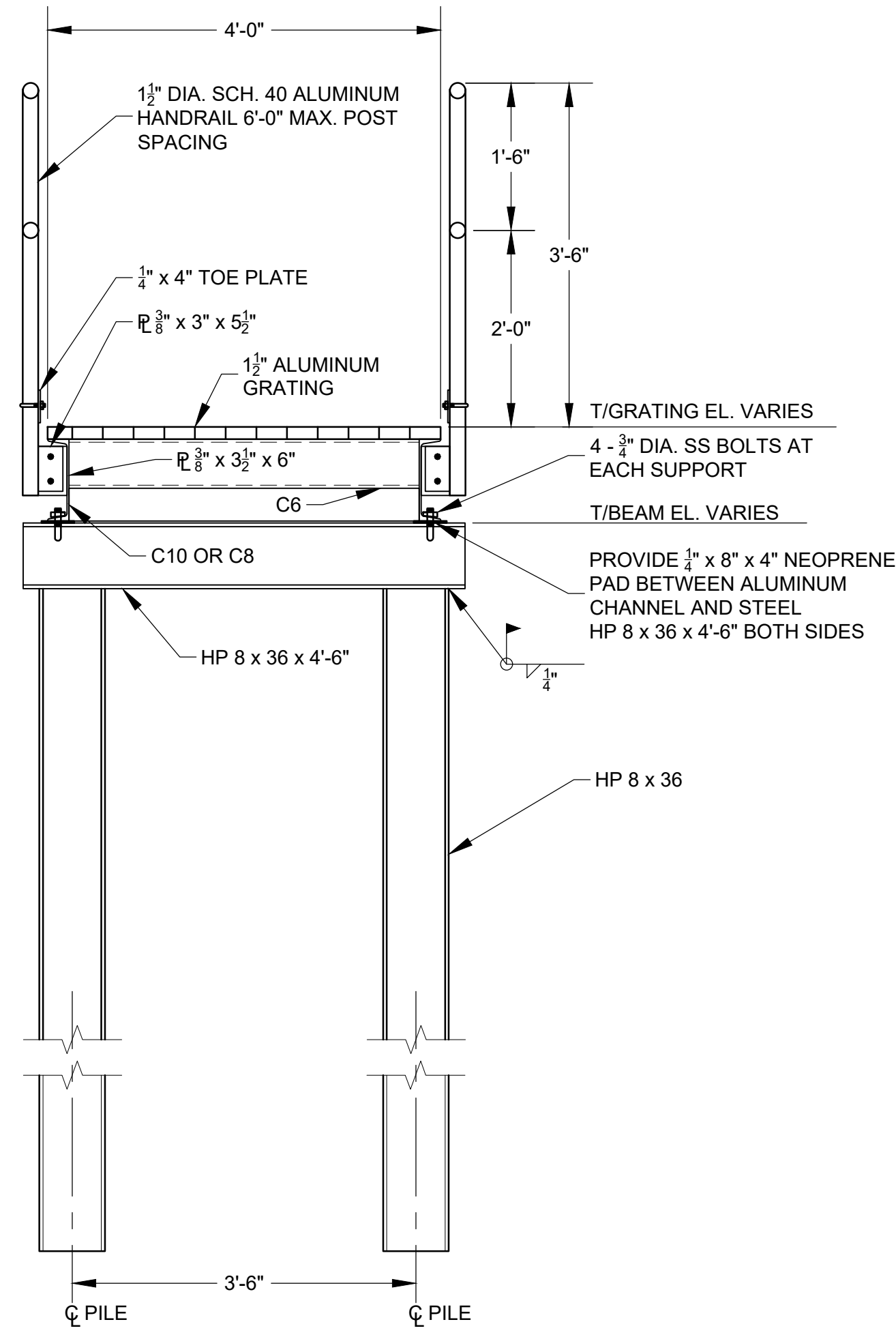
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WATER MANAGEMENT DISTRICT
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DRAWN: N.J.G. DATE: AUGUST 31, 2020 REVIEWER: W.R.C.
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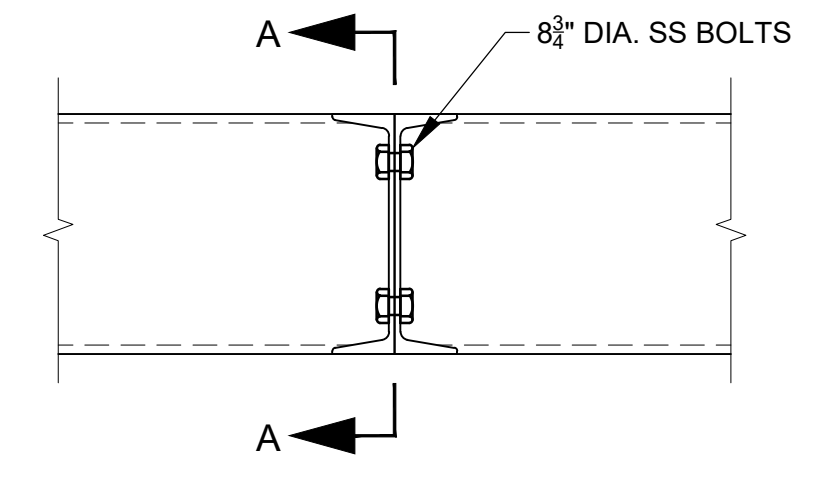
TYPE 3 - ONE 12'-0" SPAN WALKWAY
PLAN AND SECTION

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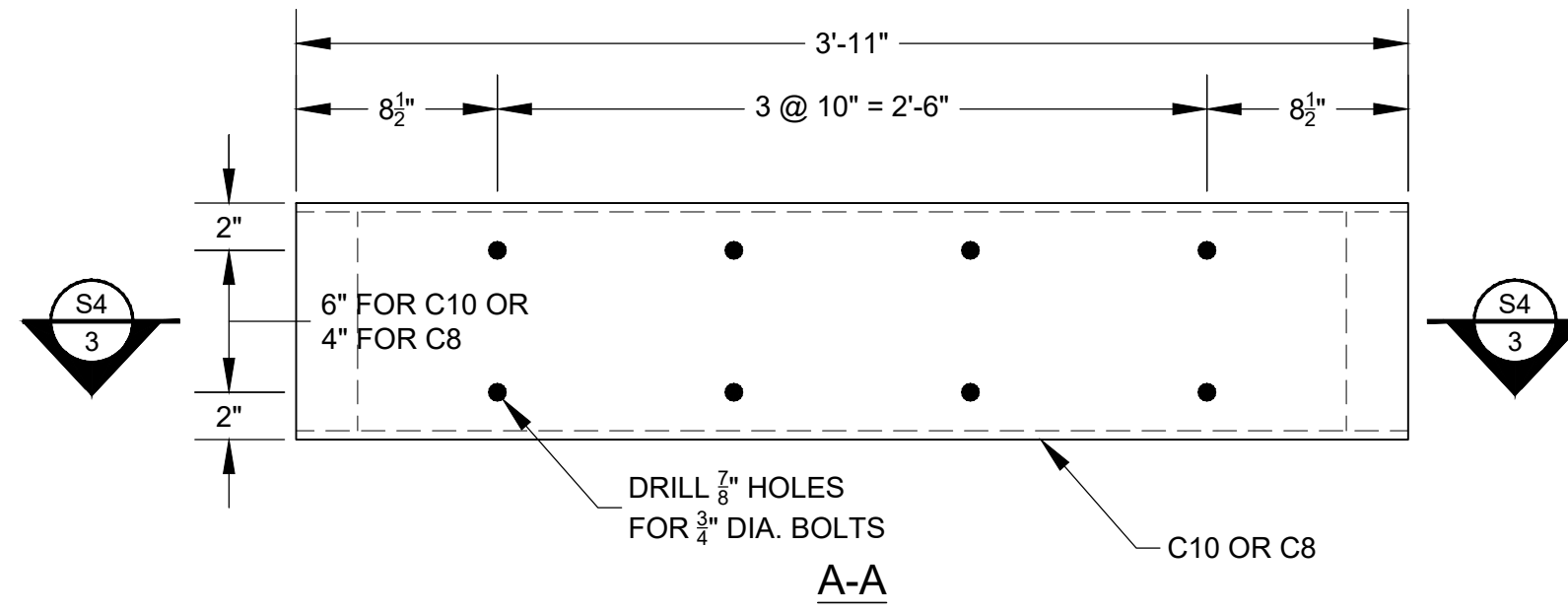
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PROJECT NO.:
SHEET:
S3



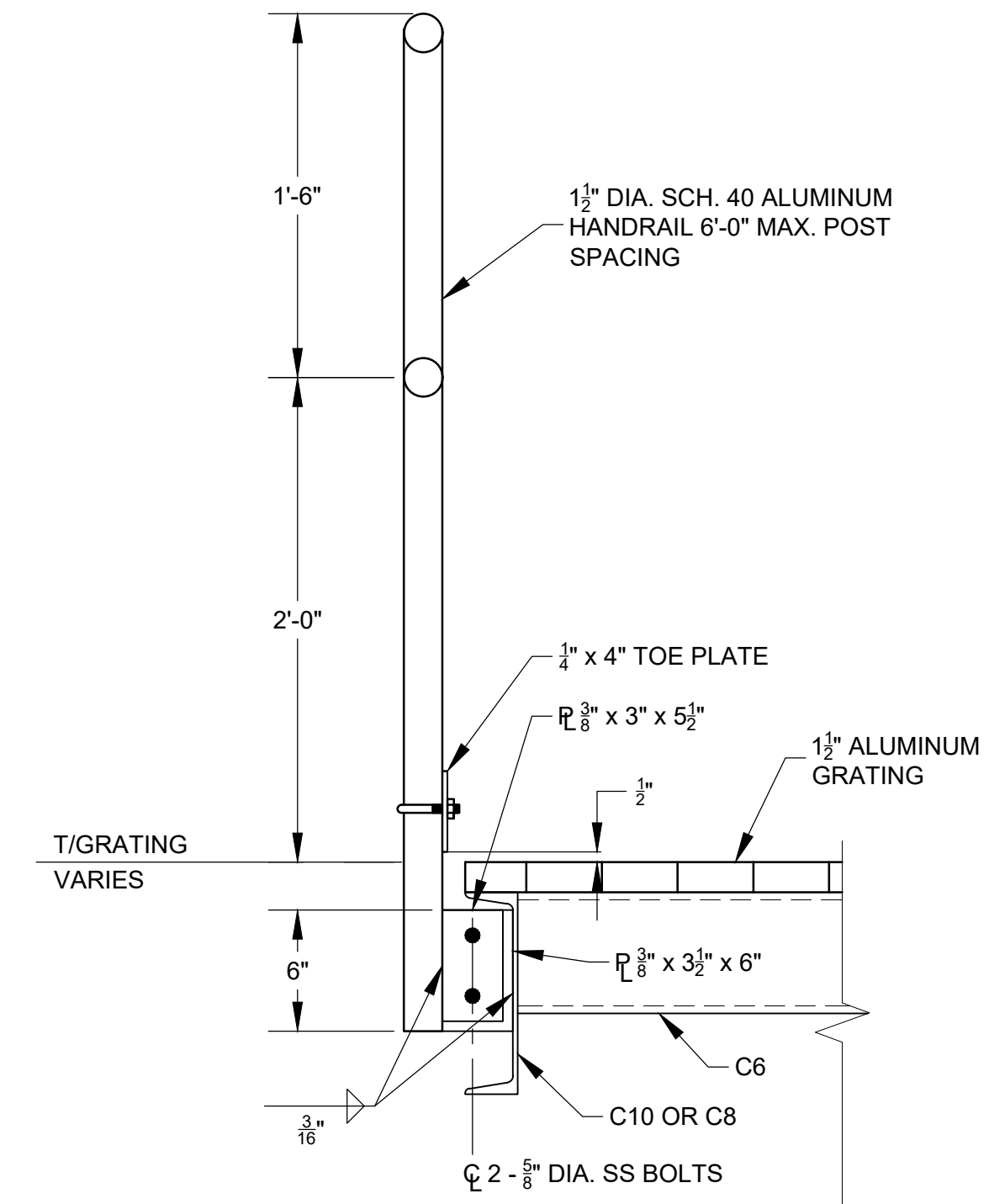
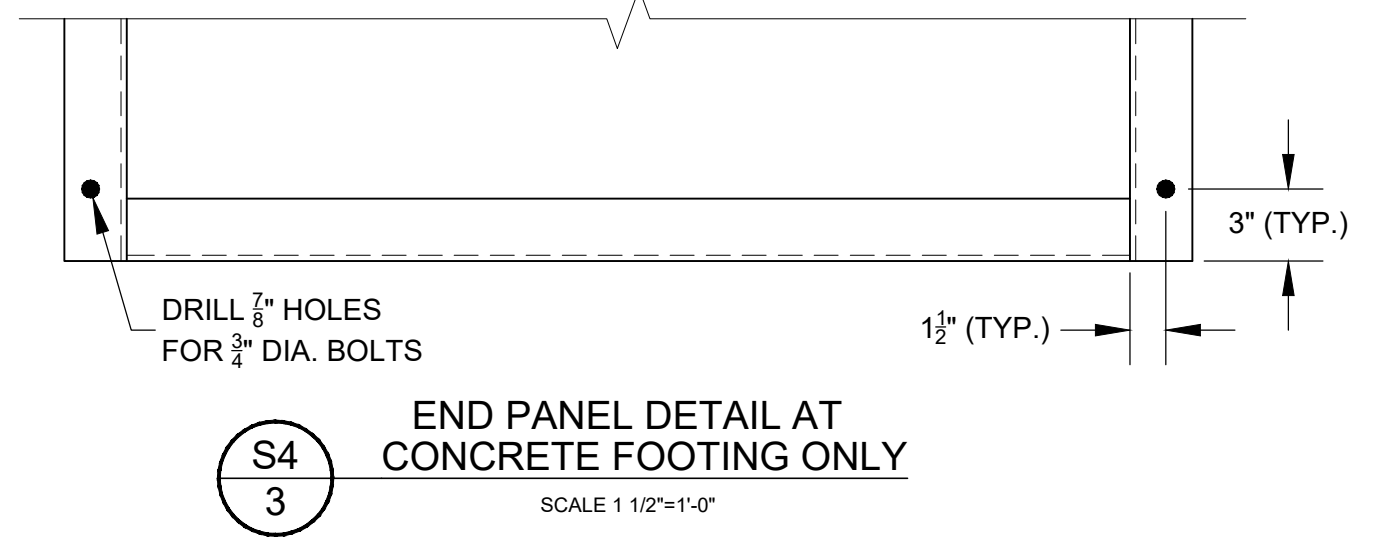
S4 1 TYPICAL SECTION
NOT TO SCALE



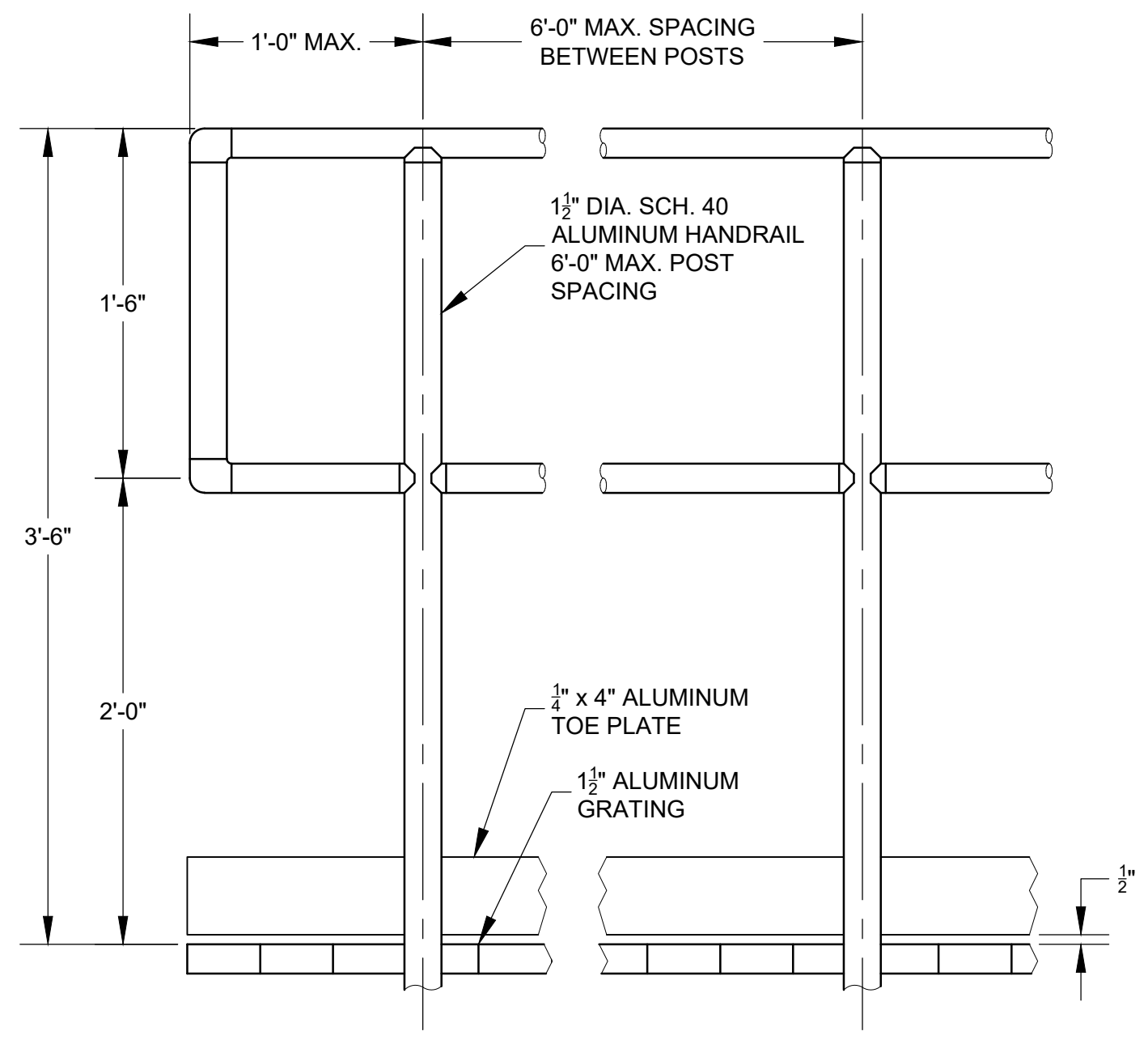
S4 2 TYPICAL WALKWAY PANEL CONNECTION
NOT TO SCALE



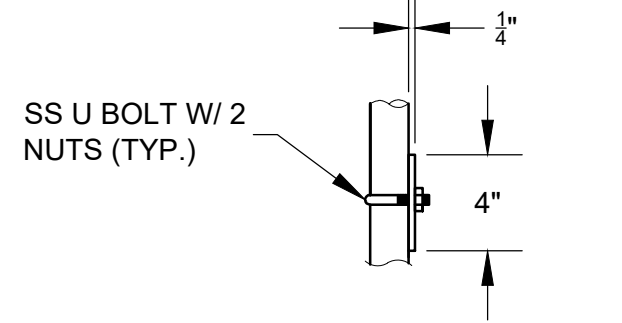
NOTE:
SEE SHEET S1 FOR SPECIFICATIONS.



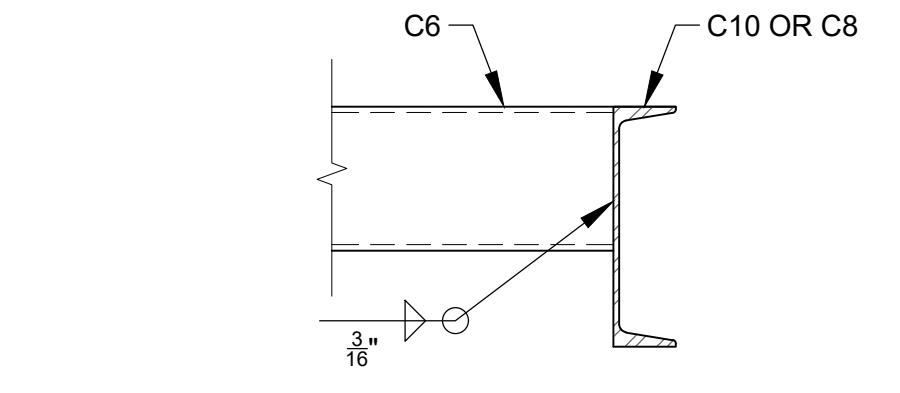
S4 4 HANDRAIL DETAIL
NOT TO SCALE



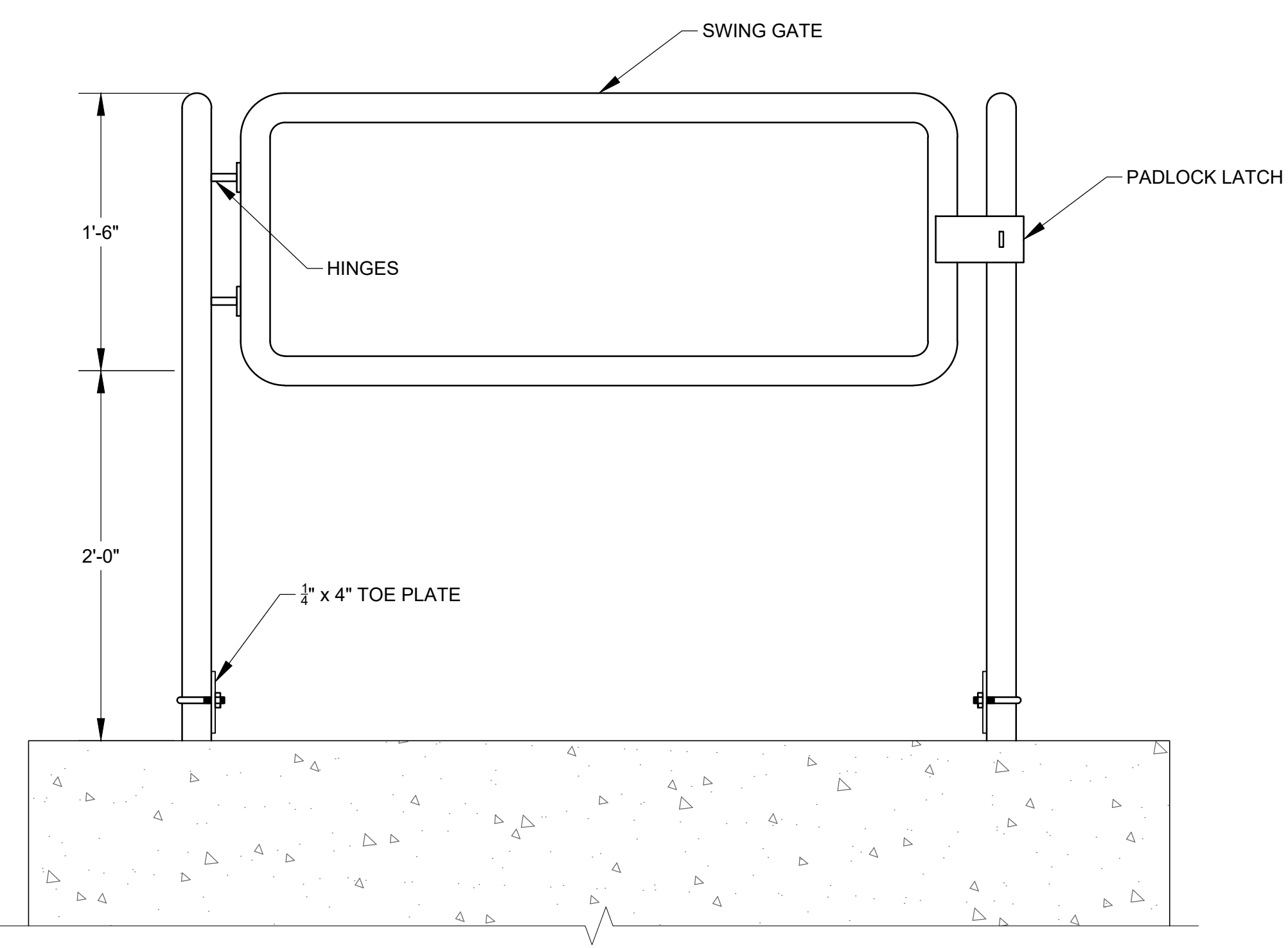
S4 5 TYPICAL HANDRAIL END DETAIL
SCALE 1 1/2"=1'-0"



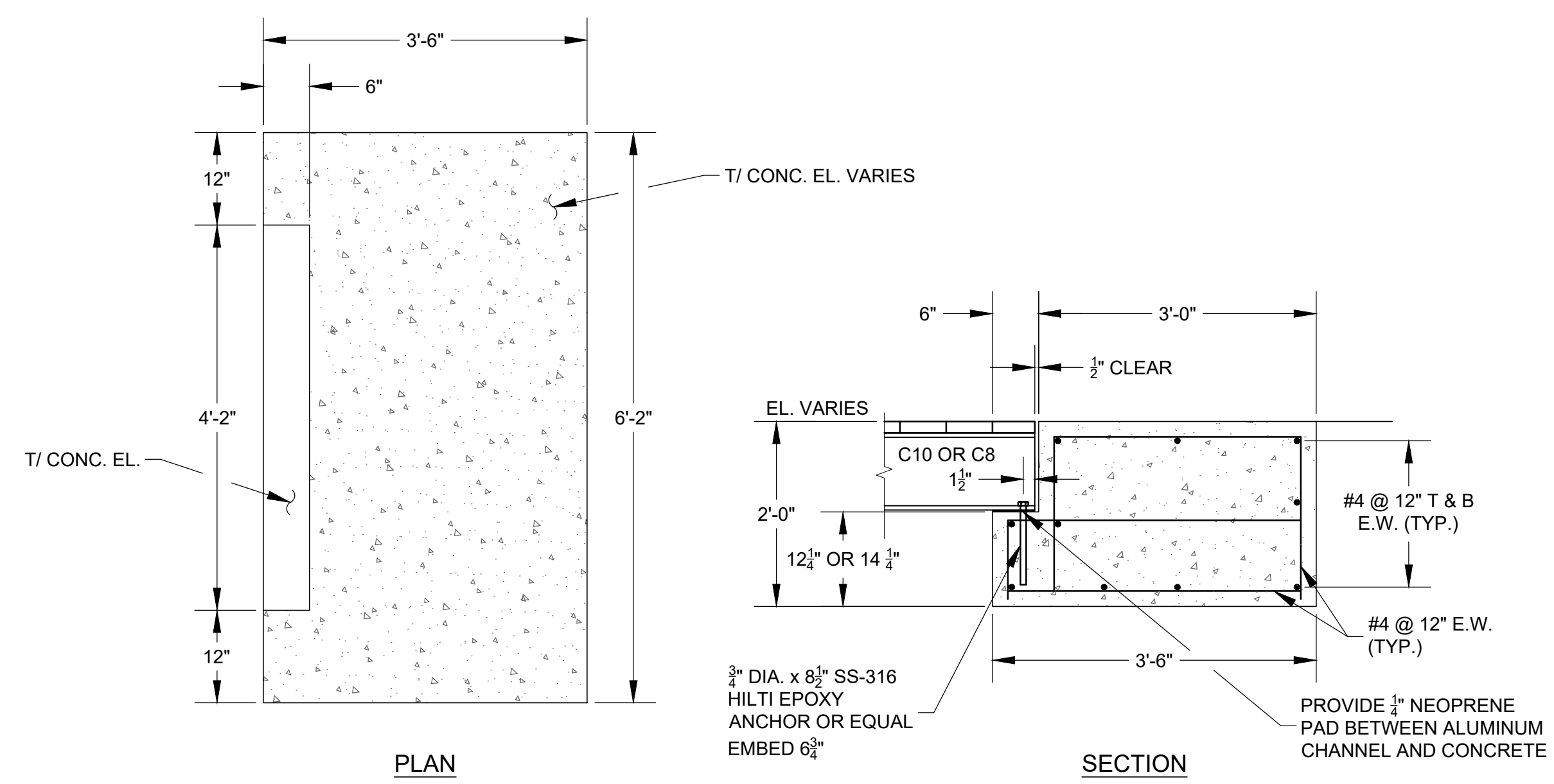
S4 6 TOE PLATE DETAIL
SCALE 1 1/2"=1'-0"



S4 7 TYPICAL C6 BEAM CONNECTION
NOT TO SCALE



S4 8 SWING GATE DETAIL
SCALE 1 1/2"=1'-0"



S4 9 WALKWAY FOOTING DETAIL
NOT TO SCALE

ISSUED FOR CONSTRUCTION

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1	ISSUED FOR CONSTRUCTION	N.J.G.	08/31/20	W.R.C.	08/31/20

UPPER OCKLAWAHA RIVER BASIN
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WATER MANAGEMENT DISTRICT
P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G. DATE: AUGUST 31, 2020 REVIEWER: W.R.C.
SCALE: AS NOTED DESIGNER: W.R.C. SECTION CHIEF: W.R.C.

DETAILS

CERTIFICATION:
WILLIAM R. COTE
P.E. NUMBER: 53746
DATE: AUGUST 31, 2020

FILE NAME:
A MFW WRI W DETAILS.dwg
PROJECT NO.:
SHEET:
S4