THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL PLATFORMS PROCUREMENT PHASE 1

10600 CHEVROLET WAY, SUITE 102
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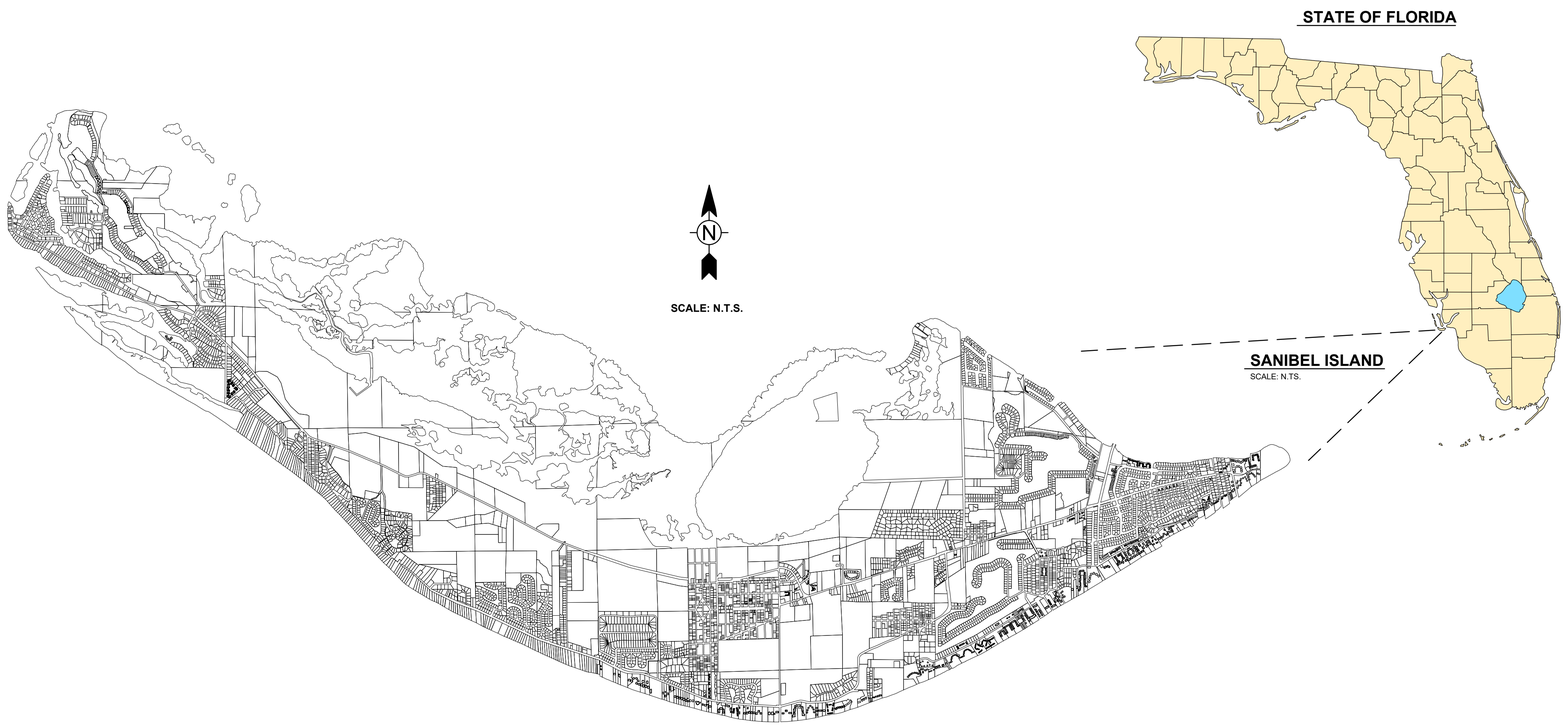
TETRA TECH



PROJECT LOCATION:
SANIBEL, FLORIDA 33957

CLIENT INFORMATION:
THE CITY OF SANIBEL
SANIBEL, FLORIDA 33957
Ph: (239) 472-1008 - Fax (239) 472-5531

Tt PROJECT No.:
200-08498-24002

CLIENT PROJECT No.:

PROJECT DESCRIPTION / NOTES:
FABRICATION OF 10 LIFT STATION PLATFORMS

ISSUED:
12/05/25 - BID SET

VICINITY MAP:

SANIBEL FLORIDA INCORPORATED 1974

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PREPARED FOR
THE CITY OF SANIBEL

UTILITIES DEPARTMENT
800 DUNLOP ROAD
SANIBEL, FLORIDA 33957

MAYOR - MIKE MILLER
VICE MAYOR - HOLLY D. SMITH
CITY COUNCIL - RICHARD JOHNSON
CITY COUNCIL - LAURA DeBRUCE
CITY COUNCIL - JOHN HENSHAW

CITY MANAGER - DANA A. SOUZA
PUBLIC WORKS DIRECTOR - ALFRED J. MITTL, PE

SHEET INDEX

Sheet Number	Sheet Title
G-000	COVER SHEET
S-001	GENERAL NOTES
S-101	PLATFORM ON PIERS W/ LADDER
S-501	STANDARD DETAILS

STRUCTURAL GENERAL NOTES

1. THESE GENERAL NOTES PRESENT AND/OR SUMMARIZE KEY PROJECT INFORMATION FOR THE DRAWING READER'S CONVENIENCE. SEE ALSO INDIVIDUAL DRAWING NOTES AND PROJECT SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.

2. ALL REFERENCED STANDARDS HEREIN ARE TO MOST RECENT ISSUE IN EFFECT AS OF THE DATE OF THESE DOCUMENTS, UNLESS NOTED OTHERWISE IN PROJECT SPECIFICATIONS OR ON THE DRAWING.

3. SUBMIT SHOP DRAWINGS, PROJECT DATA AND SAMPLES AS SPECIFIED IN PROJECT SPECIFICATIONS.

4. ABBREVIATIONS

AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
APPROX.	APPROXIMATE
B.M.	BEAM
B.O.F	BOTTOM OF FOOTING
B.O.S.	BOTTOM OF STEEL
B.S.	BOTH SIDES
BOT.	BOTTOM
BRG.	BEARING
CCJ	CRACK CONTROL JOINT
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CTR	CENTER
DIA	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DN	DOWN
DTL.	DETAIL
DWG(S)	DRAWING(S)
DWL	DOWEL
E/EXIST.	EXISTING
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL / ELEV.	ELEVATION
ELEC	ELECTRIC(AL)
EQ	EQUAL
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
F.V.	FIELD VERIFY
FND.	FOUNDATION
FRMG	FRAMING
FT	FOOT
FTG	FOOTING
GA	GAGE, GAUGE
GALV	GALVANIZED
GR.	GRADE
GRTG	GRATING
H.R.	HAND RAIL
HORIZ	HORIZONTAL
IN.	INCH
INSUL	INSULATION
L	ANGLE
LBS	POUNDS
LF	LINEAR FOOT (FEET)
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MID	MIDDLE / MIDPOINT
MIN	MINIMUM, MINUTE
MISC.	MISCELLANEOUS
MTL	METAL
N	NEW
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
NA	NOT APPLICABLE
NO	NUMBER
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
REF	REFERENCE
REINF.	REINFORCEMENT
REQ/REQ'D	REQUIRED
REV	REVISION
SF	SQUARE FOOT
SHT.	SHEET
SIM.	SIMILAR
SPEC	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURE(AL)
T/	TOP OF
TEMP	TEMPORARY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
VERT	VERTICAL
W/	WITH
W/O	WITHOUT

DESIGN CRITERIA

1. REFERENCES:

   A. ICC INTERNATIONAL BUILDING CODE, 2021 EDITION, RISK CATEGORY III IN ACCORDANCE WITH TABLE 1604.5
   B. STATE BUILDING CODE: 2023 FLORIDA BUILDING CODE, BUILDING, EIGHTH EDITION
   C. ASCE/SEI 7-22 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

2. DEAD LOADS:

   DEAD LOAD = (SELF WEIGHT)
   LOAD TO RESIST UPLIFT = (SELF WEIGHT)

3. LIVE LOADS (U.N.O.):

   STAIRS, WALKWAYS, OR PLATFORMS = 100 PSF

4. WIND LOAD:

   BASIC DESIGN WIND SPEED, V = 175 MPH
   NOMINAL DESIGN WIND SPEED, Vasd = 136 (Vult*√0.6) MPH
   RISK CATEGORY = III
   WIND EXPOSURE CATEGORY = D
   DIRECTIONALITY FACTOR, Kd = 0.85
   TOPOGRAPHIC FACTOR, Kzt = 1.0
   OPEN FRAME STRUCTURE, CF = 1.1
   DESIGN WIND FORCE, F = 64.5 (PSF) X Af

5. FLOOD LOADS: N/A FOR PLATFROM SET ABOVE DFE

FOUNDATIONS

1. NO GEOTECHNICAL/SUBSURFACE INVESTIGATION WAS PREVIOUSLY PERFORMED FOR THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT A GEOTECHNICAL ENGINEER TO CONFIRM ASSUMED ALLOWABLE BEARING STATED BELOW. GEOTECHNICAL ENGINEER SHALL BE RETAINED BY THE CONTRACTOR TO PROVIDE OBSERVATION AND TESTING SERVICES DURING THE GRADING AND FOUNDATION PHASE OF CONSTRUCTION. INSPECTION AND TESTING REPORTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER.

2. ALLOWABLE BEARING PRESSURES AS FOLLOWS:

   A. DEEP FOUNDATIONS: AS STABLISHED BY GEOTECHNICAL RECOMMENDATIONS. SEE PLAN FOR FOR REQUIRED COMPRESION, TENSION, AND LATERAL LOADS

3. GEOTECHNICAL ENGINEER SHALL BE RETAINED BY THE CONTRACTOR TO PROVIDE OBSERVATION AND TESTING SERVICES DURING THE GRADING AND FOUNDATION PHASE OF CONSTRUCTION. INSPECTION AND TESTING REPORTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER.

4. PRIOR TO PLACING ENGINEERED FILL, THE SITE SHALL BE STRIPPED AND PROOF ROLLED. ANY SOFT SPOTS ENCOUNTERED SHALL BE REMOVED AND REPLACED WITH ENGINEERED FILL. REFER TO EARTHWORK SPECIFICATION FOR ADDITIONAL INFORMATION.

STRUCTURAL ALUMINUM

1. REFERENCES:

   A. AA ALUMINUM DESIGN MANUAL
   B. AA ALUMINUM STANDARDS AND DATA
   C. ANSI/DWS D1.2 ALUMINUM WELDING CODE

2. MATERIALS:

   A. PLATES AND ROLLED SHAPES: 6061-T6
   B. STRUCTURAL BOLTS: 316 STAINLESS STEEL

3. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER CONSTRUCTION IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.

4. PROVIDE MIN. (2) 3/4" STAINLESS STEEL BOLTS (316), WASHERS, AND NUTS FOR ALL CONNECTIONS, UNLESS NOTED OTHERWISE. ALL SS BOLTS SHALL HAVE CORROSION INHIBITING GREASE AND SHALL BE SEPARATED FROM DISSIMILAR METALS TO PREVENT CORROSION.

5. ALL WELDING SHALL CONFORM TO AWS D1.2. SHOP DRAWINGS SHALL SHOW ALL SHOP AND ERECTION DETAILS INCLUDING CUTS, COPE CONNECTIONS, HOLES, THREADED FASTENERS, RIVETS, AND WELDS. GRIND ALL WELDS FOR SMOOTH TRANSITIONS.

6. THE APPROVAL OF THE SHOP DRAWINGS WILL BE FOR SIZE AND ARRANGEMENT OF PRINCIPAL AND AUXILIARY MEMBERS AND STRENGTH OF CONNECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS SHOWN ON THE SHOP DRAWINGS.

7. LAYOUT AND DESIGN FOR GUARDRAIL, HANDRAIL AND THEIR COMPONENTS SHALL ADHERE TO THE APPLICABLE BUILDING CODES.

8. BURNING OF HOLES IN ALUMINUM IS NOT PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

9. ALL ALUMINUM IN CONTACT WITH CONCRETE SHALL BE COATED WITH BITUMINOUS PAINT.

DEFERRED SUBMITTALS

1. IN ACCORDANCE WITH THE SPECIFICATIONS DESIGNS FOR THE ITEMS LISTED BELOW ARE NOT INCLUDED IN THE CONTRACT DOCUMENTS. DESIGN OF THESE ELEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE DESIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA:

   A. ALUM. GUARDRAIL AND HANDRAIL SYSTEMS AND THEIR CONNECTIONS
   B. ALUM. LADDERS AND PLATFORM DETAILS AND ATTACHMENTS
   C. ALUM. GRATING AND CHECKER PLATE SURFACES (DESIGN FOR MINIMUM SIZES PROVIDED)
   D. FOUNDATION SYSTEM (DEEP OR SHALLOW) IN ACCORDANCE WITH GEOTECHNICAL INVESTIGATION

2. DESIGN OF THE ITEMS LISTED ABOVE SHALL BE IN ACCORDANCE WITH THE ICC INTERNATIONAL BUILDING CODE, 2021 EDITION, FLORIDA BUILDING CODE, 2023 EDITION, OSHA AND SHALL INCLUDE ALL ATTACHMENTS TO THE STRUCTURE

THE CITY OF SANIBEL POST HURRICANE IAN LIFT STATION CONTROL PANEL PLATFORMS PROCUREMENT PHASE

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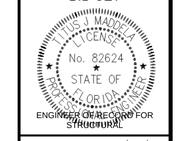


ENGINEER OF RECORD FOR STRUCTURAL

TITUS J MADDELA, P.E.
LICENSE #82624
Tetra Tech Inc.
4910 Bowman Rd, Ste 245
Louisville, KY 40222
Engineering Business No. 2429

DATE: 12/05/2025

MARK	DATE	DESCRIPTION	BY
	12/05/25	PLATFORM PROCUREMENT PACKAGE	

THE CITY OF SANIBEL

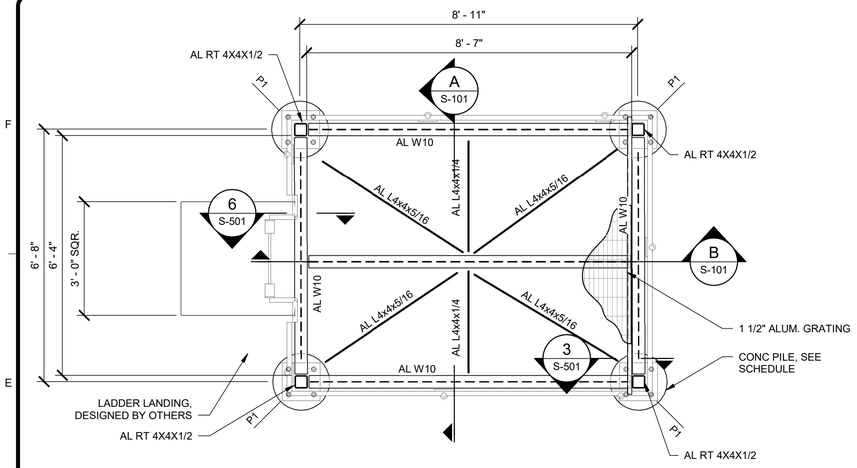
POST HURRICANE IAN LIFT STATION
CONTROL PANEL PLATFORMS
PROCUREMENT PHASE 1

GENERAL NOTES

PROJ:	200-08498-24002
DESN:	AHD
DRWN:	KAC
CHKD:	TJM

S-001

Bar measures 1 inch, otherwise drawing is not to scale



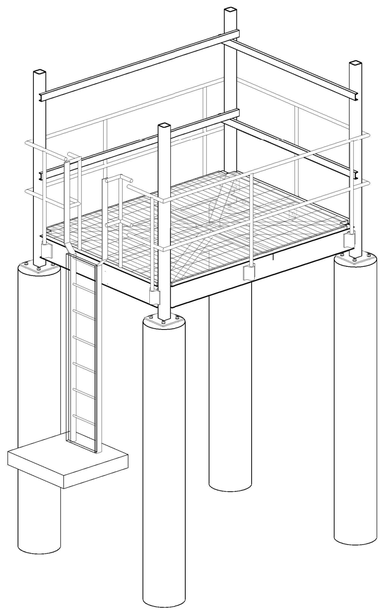
PLATFORM PLAN

SCALE: 1/2" = 1'-0"

PLATFORMS ELEVATIONS					
LIFT STATION #	MIN FINISH GRADE ELEV.	MIN. T/FOUNDATION (DFE+6") ELEV.	T/PLATFORM	T/POST	LADDER HEIGHT
LS 5	4.1	11.5	13	19	10
LS 14	3	11.5	13	19	11
LS 17	3.7	10.5	12	18	9
LS 20	4.1	9.5	11	17	8
LS 32	3.5	8.5	10	16	8
LS 46	3.3	9.5	11	17	9
LS 54	3.6	8.5	10	16	7
LS 55	4.9	7.5	9	15	5
LS 88	4.8	8.5	10	16	6
LS 97	2.9	7.5	9	15	7

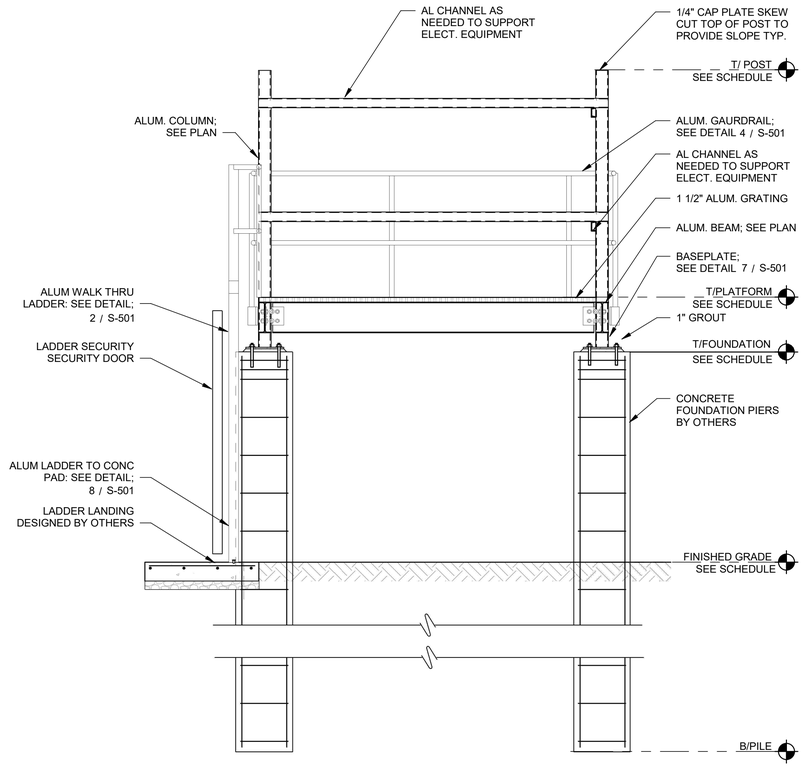
PLAN NOTES:

1. SEE SHEETS S-001 FOR GENERAL NOTES.
2. ALL ALUMINUM MEMBERS AND CONNECTIONS TO BE DELEGATED TO AND DESIGNED BY A FLORIDA PE, SIZES SHOWN ARE MINIMUM. ALL PLATFORMS AND STAIRS MUST BE DESIGNED FOR 100 PSF LIVE LOAD AND MAX 1/4" DEFLECTION.
3. ALL PLATFORM MEMBERS (COLUMN, BEAMS, BRACES) CALLED ON PLANS AND SECTIONS ARE MINIMUM SIZE REQUIREMENTS. FINAL SIZE TO BE DETERMINED BY PLATFORM MFR. SEE DELEGATED DESIGN NOTES ON S-001.



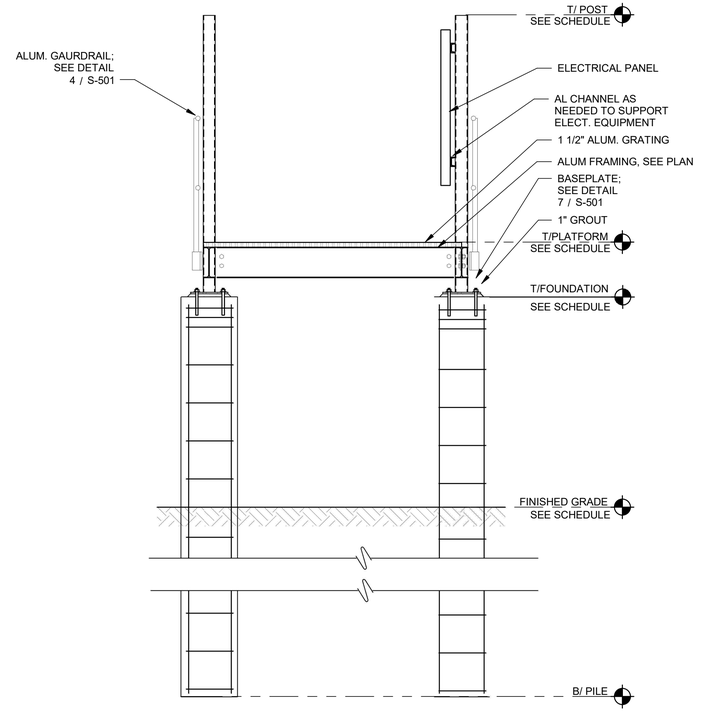
PLATFORM W/ LADDER - 3D VIEW

SCALE:



B S-101 SECTION

SCALE: 1/2" = 1'-0"



A S-101 SECTION W/ LADDER

SCALE: 1/2" = 1'-0"

THE CITY OF SANIBEL POST HURRICANE IAN LIFT STATION CONTROL PANEL PLATFORMS PROCUREMENT PHASE

2' 0' 2' 4'

SCALE: 1/2" = 1'-0"

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POST HURRICANE IAN LIFT STATION CONTROL PANEL PLATFORMS PROCUREMENT PHASE 1

PLATFORM ON PIERS W/ LADDER

PROJ:	200-08498-24002
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CHKD:	TJM

S-101

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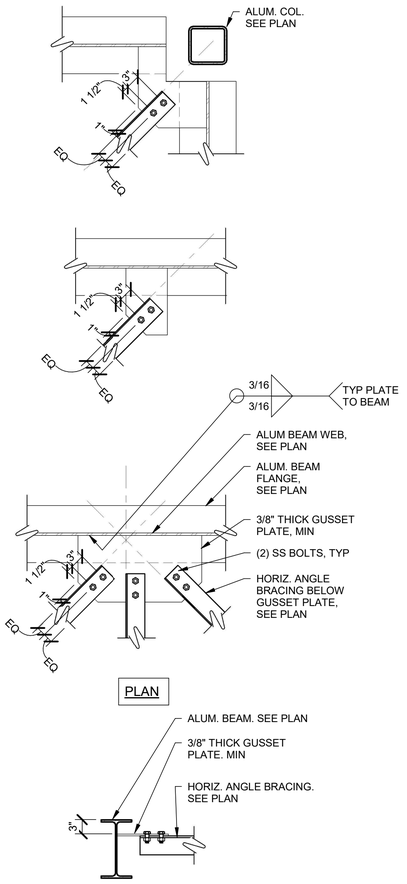
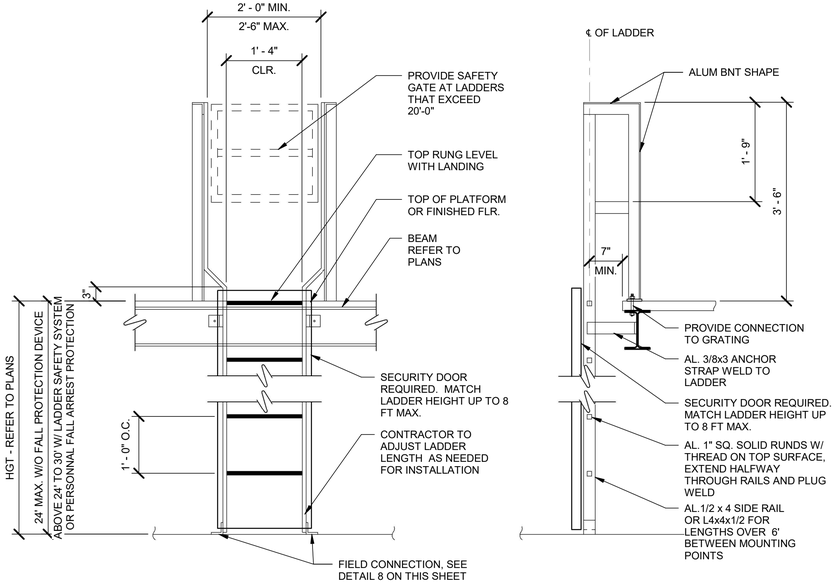


PLAN

TYP - HORIZONTAL BRACING CONNECTION - SECTION

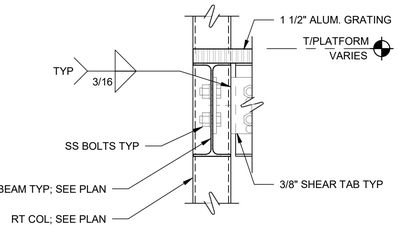
1 TYP HORIZONTAL BRACE CONNECTION
S-501 SCALE: NTS



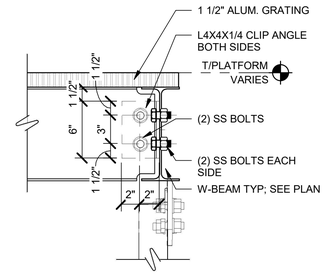
MINIMUN CLEARANCE TO ANY OBSTRUCTION ADJACENT TO LADDER 2'-6" ON CLIMBING SIDE. 1'-3" EACH SIDE OF CENTER LINE, ON EACH SIDE OF LADDER.

COAT ALL ALUM. SURFACES IN CONTACT W/ CONC. AND MASONRY AND INSTALL ISOLATION SLEEVES AND WASHERS AT DISSIMILAR METALS AS SPECIFIED.

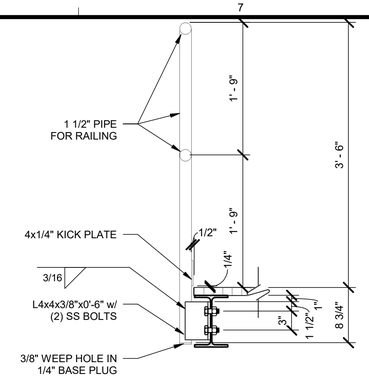
2 ALUM WALK THRU LADDER DETAIL
S-501 SCALE: NTS



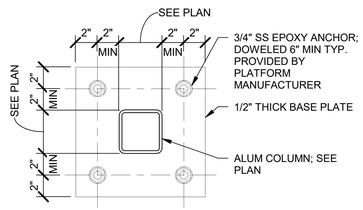
3 TYP BEAM TO COL CONN
S-501 SCALE: NTS



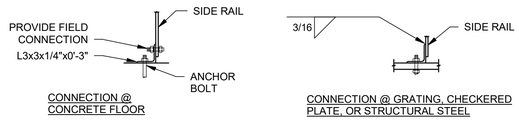
6 TYP. BEAM TO BEAM CONN.
S-501 SCALE: NTS



4 TYP. STEEL GUARDRAIL DETAIL
S-501 SCALE: NTS



7 TYP. BASEPLATE
S-501 SCALE: NTS



LADDER BRACKETS ARE BY LADDER SUPPLIER, PROVIDED WITH HOLES FOR CONNECTIONS. ADJUSTABLE BRACKETS SHALL BE PROVIDED WHERE REQUIRED TO COMPENSATE FOR IRREGULAR OR OFFSET WALL SURFACES.

8 TYPICAL LADDER CONN. DETAILS
S-501 SCALE: NTS

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