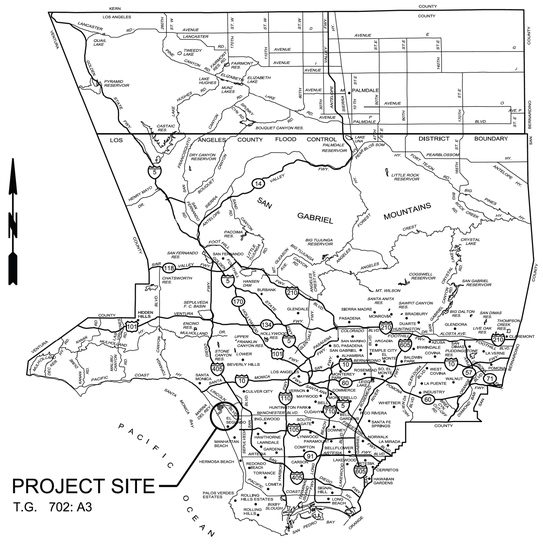
LOS ANGELES COUNTY PUBLIC WORKS

PROJECT NO. 275-513

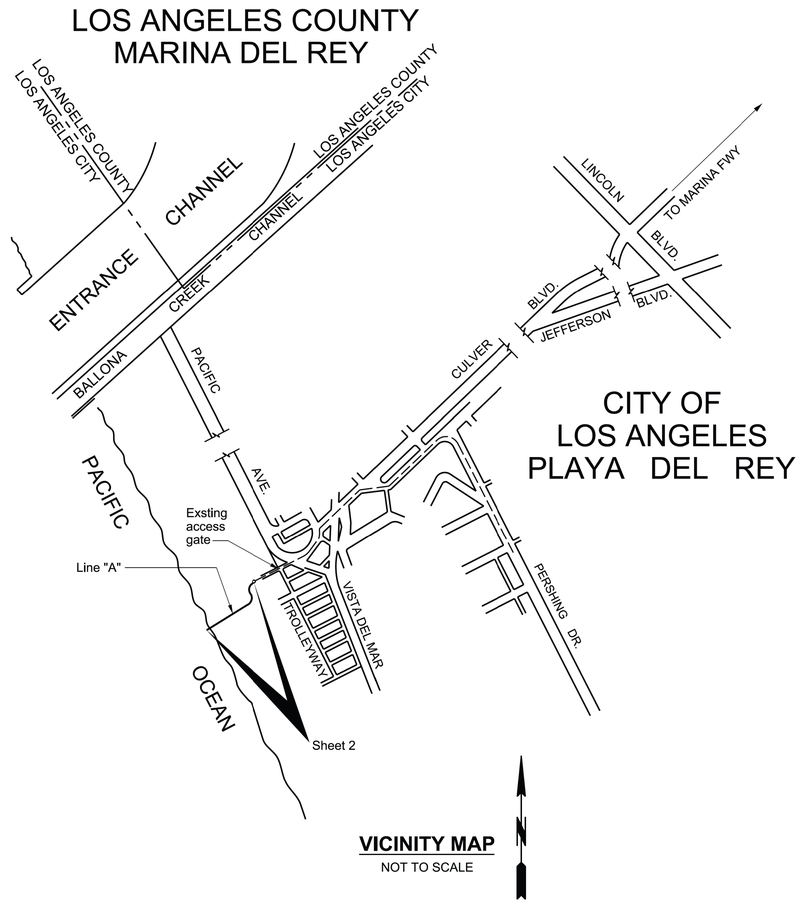
OCEAN OUTLET MODIFICATIONS
(STA. 0+87 - 3+64)



LOCATION MAP
NOT TO SCALE

INDEX TO PROJECT PLANS

SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
2	PLAN AND PROFILE
3	CONCRETE SLAB AND ACCESS GRATE - DETAILS
4	PROTECTION FENCE - TYPICAL PANEL DETAILS
5	PROTECTION FENCE - HIGH END PANEL DETAILS
6	PROTECTION FENCE - SHORT END PANEL DETAILS
7	PROTECTION FENCE - STRUCTURAL DETAILS
8	MODULAR FLAP GATE - SECTIONS AND DETAILS I
9	MODULAR FLAP GATE - SECTIONS AND DETAILS II
10	WAVE PROTECTION BARRIER - SECTIONS AND DETAILS I
11	WAVE PROTECTION BARRIER - SECTIONS AND DETAILS II



VICINITY MAP
NOT TO SCALE

ABBREVIATIONS

ABBREVIATION	WORD OR WORDS	ABBREVIATION	WORD OR WORDS
AC	Asphalt Concrete	LACPW	Los Angeles County Public Works
BM	Bench Mark		
℄	Center Line	MH	Manhole
CL	Clearance	Pt.	Point
CLF	Chain Link Fence	R/W	Right Of Way
CMP	Corrugated Metal Pipe	RC	Reinforced Concrete
CONC	Concrete	RCP	Reinforced Concrete Pipe
Const.	Construct, Construction	S	Slope
CY	Cubic Yard	SD	Storm Drain
DIA.	Diameter	SF	Square Foot
D/S	Downstream	SHT	Sheet
DWG	Drawing	Spec.	Specifications
EC	End Of Curve	SS	Stainless Steel
El.	Elevation	St.	Street
Exist.	Existing	Sta.	Station
FL	Flow Line	Std.	Standard
FRP	Fiberglass Reinforced Plastic	SWR	Sanitary Sewer
GC	Grade Change	TOT	Total
Int.	Intersection	TYP	Typical
Horiz.	Horizontal	U/S	Upstream
Inv.	Invert	Vert.	Vertical
L	Length	W	Width

■ AS BUILT DRAWINGS

PRIME CONTRACTOR LICENSE REQUIRED: CLASS A

811 Know what's below. Call before you dig.

APPROVED BY MARK PESTRELLA, DIRECTOR OF PUBLIC WORKS
DEPUTY DIRECTOR — DATE 08/08/2019

RECOMMENDED BY:
ASSISTANT DEPUTY DIRECTOR — DATE 08/08/2019

SUBMITTED BY:
DESIGN SECTION — DATE 8/6/19

DATE	MARK	DESCRIPTION

REVISIONS

REGISTERED PROFESSIONAL ENGINEER — SCOTT D. GREGOWSKE — NO. 68087 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER — DATE 08/06/19

LOS ANGELES COUNTY PUBLIC WORKS

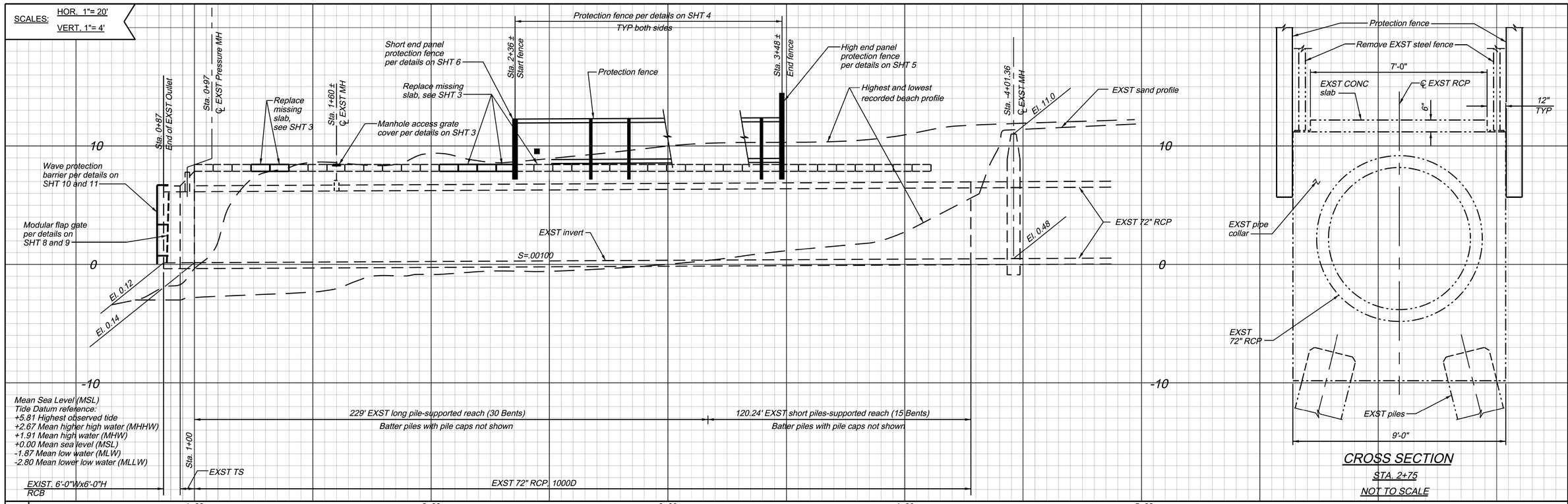
PROJECT NO. 275-513
OCEAN OUTLET MODIFICATIONS
(STA. 0+87 - 3+64)
PROJECT ID NO. FCC0001318
TITLE SHEET

DWG 275-513-D19.1	PD PD053002	SHEET 1 OF 11

DRAFTER S. GREGOWSKE
DESIGNER S. GREGOWSKE
CHECKER K. HO
CADD PROJECT FILE NAME FCC0001318 - Project No. 275-513 Ocean Outlet Modifications.dgn

DATE: $DATE$ TIME: $TIME$ FILE: $FILE$

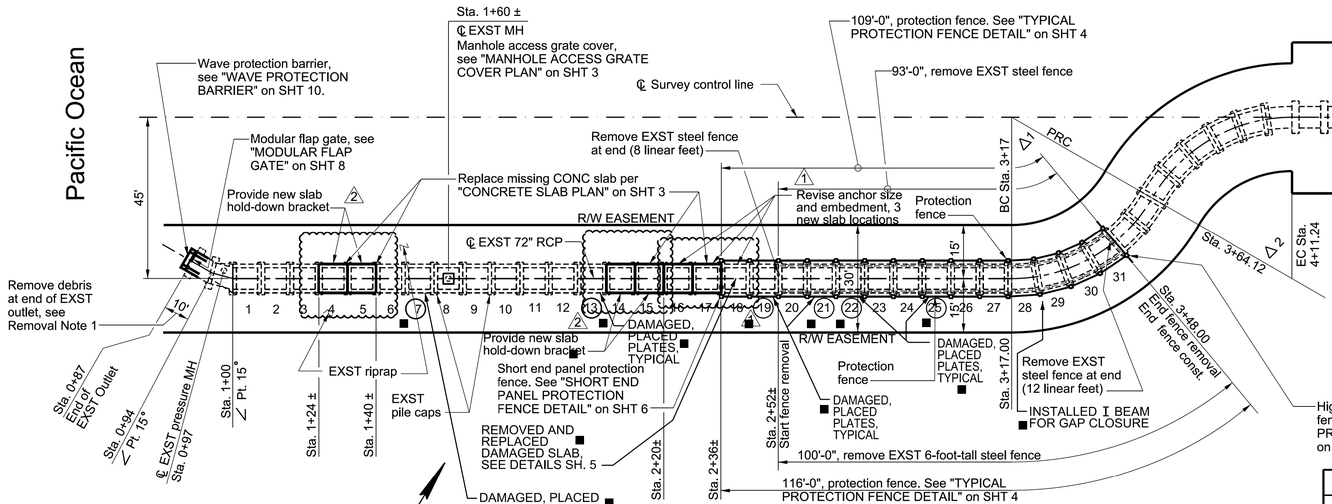
SCALES: HOR. 1"= 20'
VERT. 1"= 4'



CROSS SECTION
STA. 2+75
NOT TO SCALE

PROFILE NOTES:

1. Elevations shown are in feet above Mean Sea Level (MSL) based on the National Tidal Datum Epoch of 1960-1978.
2. Tide datum references based on recorded observations from National Oceanic and Atmospheric Administration (NOAA) Santa Monica Station (Station No. 9410840)

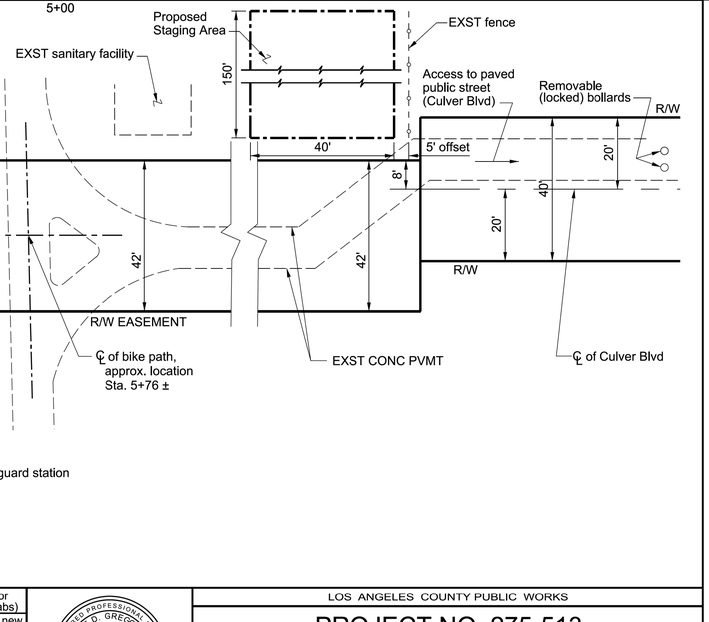


PLAN
SCALE: 1" = 20'

℄ Construction
Curve Data
Δ1 = Δ2 = 60° 00' 00"
R = 45'
T = 25.98'
L = 47.12'

REMOVAL NOTES:

1. All debris on the interior and exterior faces of the existing RCB shall be removed within 10' from the end of EXST outlet. Debris include marine life, sand and silt accumulation, and miscellaneous metal items (anchors, brackets, etc.) which are attached to the existing RCB. Any anchors or bolts protruding from the existing RCB shall be cut flush with the face of existing concrete.
2. Fence removal to included removal of existing anchors located on the existing pile caps. The anchors shall be cut flush with the face of existing concrete.



DATE	MARK	DESCRIPTION
1/20/21	1	Revised embedment depth and anchor size to repair damaged anchors (3 slabs)
1/20/21	2	Provide slab hold-down brackets at 4 new slab locations
10-11-17	■	AS BUILT REVISIONS

REVISIONS

REGISTERED PROFESSIONAL ENGINEER — SCOTT D. GREGOWSKE — NO. 68087 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER 08/06/19 DATE

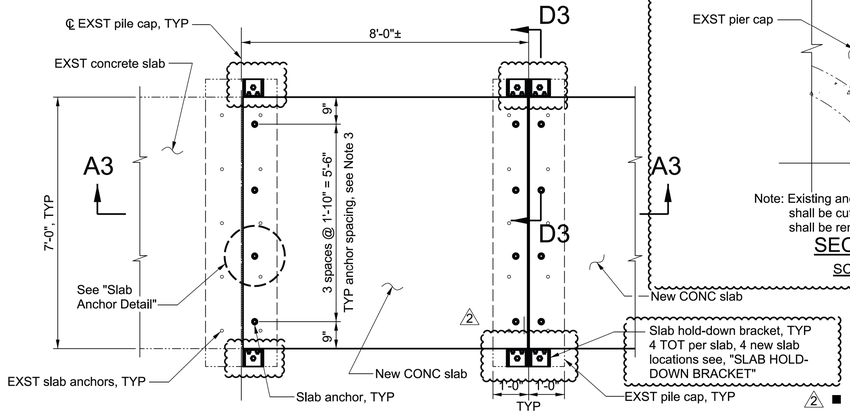
LOS ANGELES COUNTY PUBLIC WORKS

PROJECT NO. 275-513
OCEAN OUTLET MODIFICATIONS
(STA. 0+87 - 3+64)
PROJECT ID NO. FCC0001318
PLAN AND PLOT

DWG 275-513-D19.2 | PD PD053002 | SHEET 2 OF 11

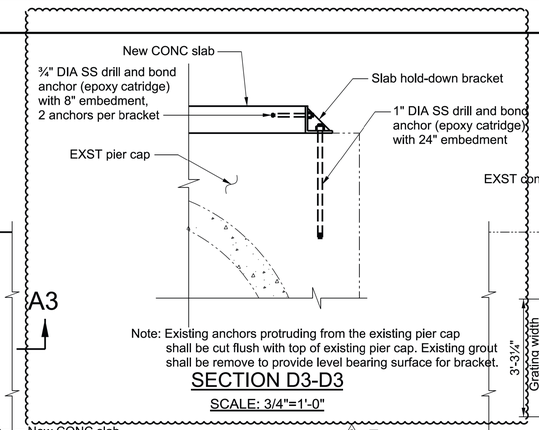
DRAFTER S. GREGOWSKE
DESIGNER S. GREGOWSKE
CHECKER J. LU
CADD PROJECT FILE NAME FCC0001318 - Project No. 275-513 Ocean Outlet Modifications.dgn

AS BUILT DRAWINGS



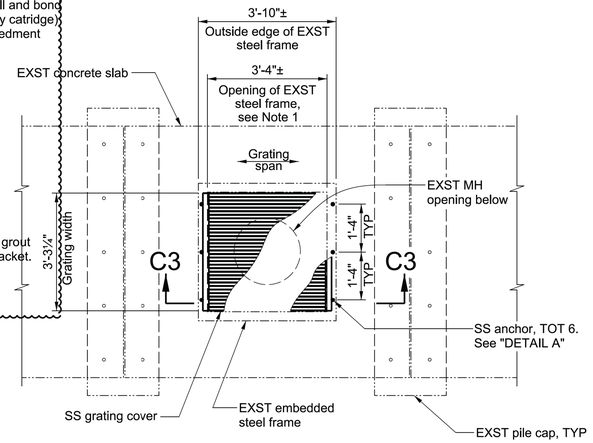
CONCRETE SLAB PLAN (SHT 2)

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



SECTION D3-D3

SCALE: 3/4"=1'-0"



MANHOLE ACCESS GRATE COVER PLAN (SHT 2)

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

GENERAL NOTES

DESIGN:

American Society of Civil Engineers (ASCE) 7-16: Minimum Design Loads and Associated Criteria for Buildings and Other Structures.

American Concrete Institute: Building Code Requirements For Structural Concrete (ACI 318-14) and Commentaries (ACI 318R-14)

American Institute of Steel Construction (AISC): Steel Design Guide 27 - Structural Stainless Steel

DESIGN STRESSES:

Concrete:	f'c = 5,000 psi
Stainless Steel Reinforcing (A955):	fy = 60,000 psi
Structural Stainless Steel (Type 316L):	fy = 30,000 psi
Structural Fiberglass Reinforced Plastic:	fb = 30,000 psi

Welding Structural Stainless Steel per AWS D1.6-2017

Welding Structural Stainless Steel Electrodes - F_{EXX} = 70 ksi minimum

CONSTRUCTION: Standard Specifications for Public Works Construcion (Greenbook), 2018 Edition.

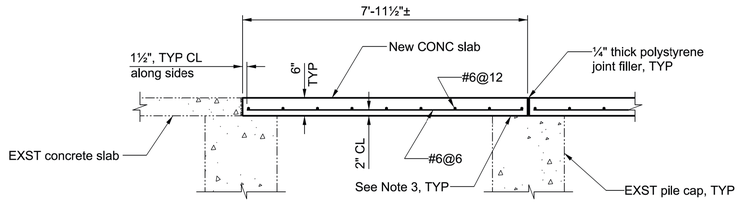
GENERAL:

1. All steel members shall be Type 316L stainless steel.
2. All anchors shall be Type 316 stainless steel threaded rods. Each anchor shall have a Type 316 stainless steel nut and washer.
3. All bolts shall be Type 316 stainless steel. Each bolt shall have a Type 316 stainless steel nut and washer.
4. Steel grating shall be stainless steel, Type 316 or 316L.

REFERENCES

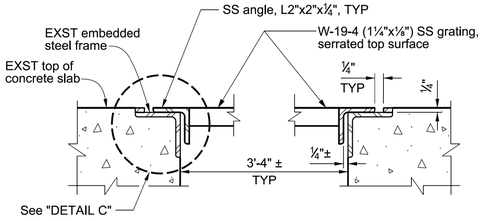
AS-BUILT DRAWINGS:

Description	Drawing Numbers
Reconstruction of Ocean Outlet:	PD030680 - PD030685
Reconstruction of Pier Walkway and Protection Barrier:	PD030686 - PD030687
Repair Ocean Outlet:	PD048447 - PD048450



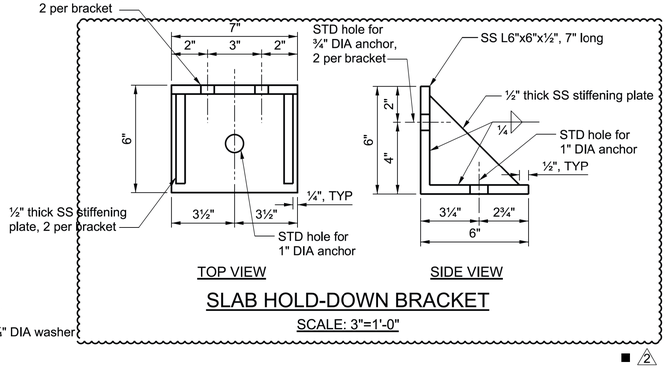
SECTION A3-A3

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



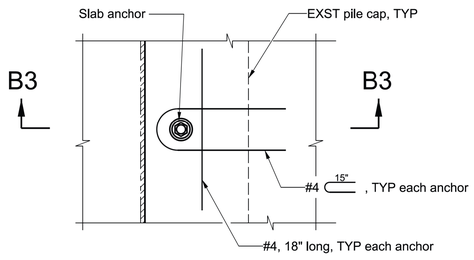
SECTION C3-C3

NOT TO SCALE



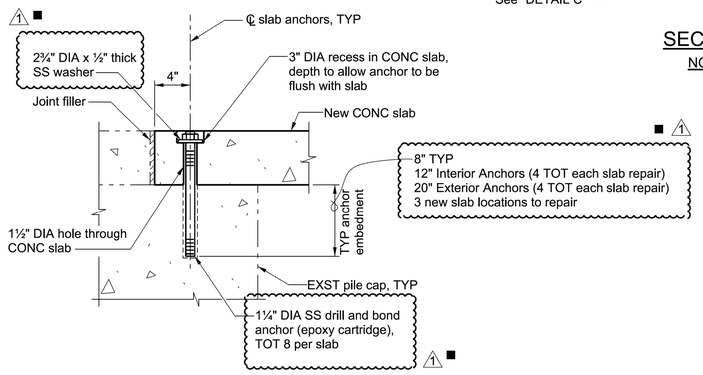
SLAB HOLD-DOWN BRACKET

SCALE: 3"=1'-0"



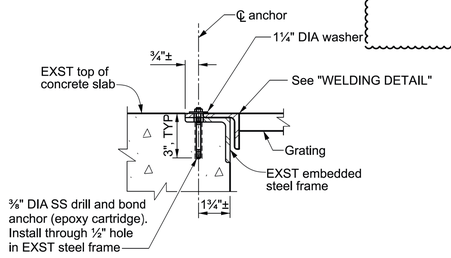
SLAB ANCHOR DETAIL

NOT TO SCALE



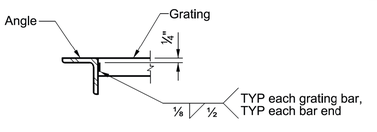
SECTION B3-B3

NOT TO SCALE



DETAIL C

NOT TO SCALE



GRATE WELDING DETAIL

NOT TO SCALE

NOTES:

1. Contractor shall verify existing field dimensions of the existing steel frame at the manhole. Shop drawings based on verified field dimensions shall be submitted in accordance with 3-8.
2. Contractor shall measure existing anchor locations to verify existing anchors will not conflict with proposed anchor locations. Where existing anchors are located within a 3 inch radius of a proposed anchor, as measured from center of anchors, proposed anchor locations shall be shifted at the direction of the Engineer.
3. Apply 30 lb. felt paper at interface between top of EXST pile cap and bottom of new concrete slab.

DATE	MARK	DESCRIPTION
1/20/21	1	Revised embedment depth and anchor diameter to retrofit damaged anchors
1/20/21	2	Provide slab hold-down brackets at 4 new slab locations
02-16-22	■	AS BUILT REVISIONS

REVISIONS

REGISTERED PROFESSIONAL ENGINEER — SCOTT D. GREGOWSKE — NO. 68087 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER — DATE 08/06/19

LOS ANGELES COUNTY PUBLIC WORKS

PROJECT NO. 275-513

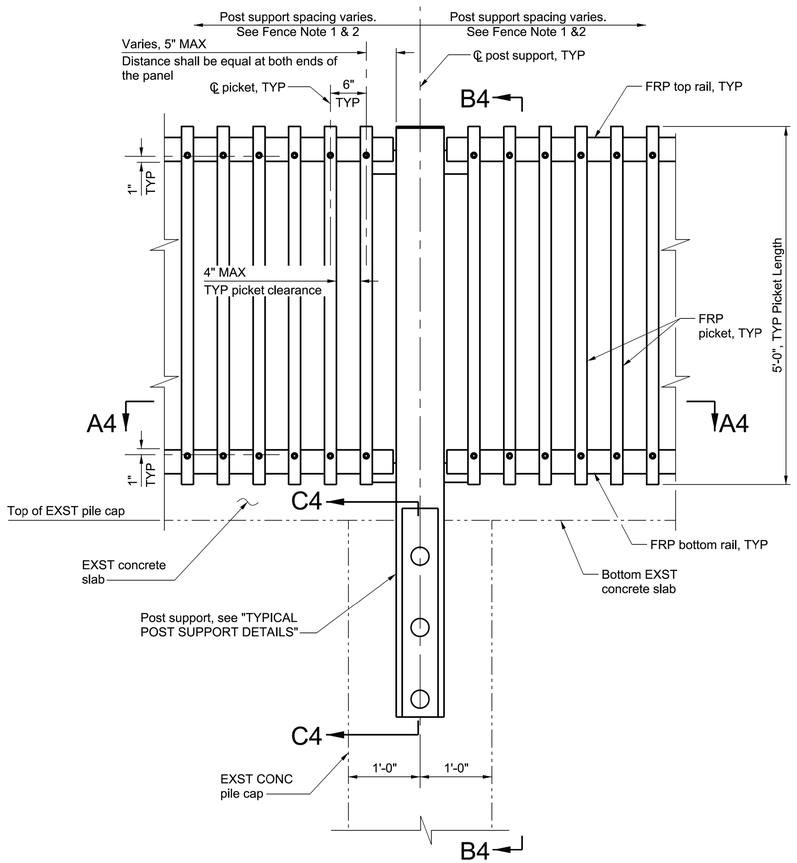
OCEAN OUTLET MODIFICATIONS
(STA. 0+87 - 3+64)
PROJECT ID NO. FCC0001318
CONCRETE SLAB AND ACCESS GRATE - DETAILS

DWG 275-513-D19.3 | PD PD053002 | SHEET 3 OF 11

AS BUILT DRAWINGS

DRAFTER S. GREGOWSKE | DESIGNER S. GREGOWSKE | CHECKER J. LU | CADD PROJECT FILE NAME FCC0001318 - Project No. 275-513 Ocean Outlet Modifications.dgn

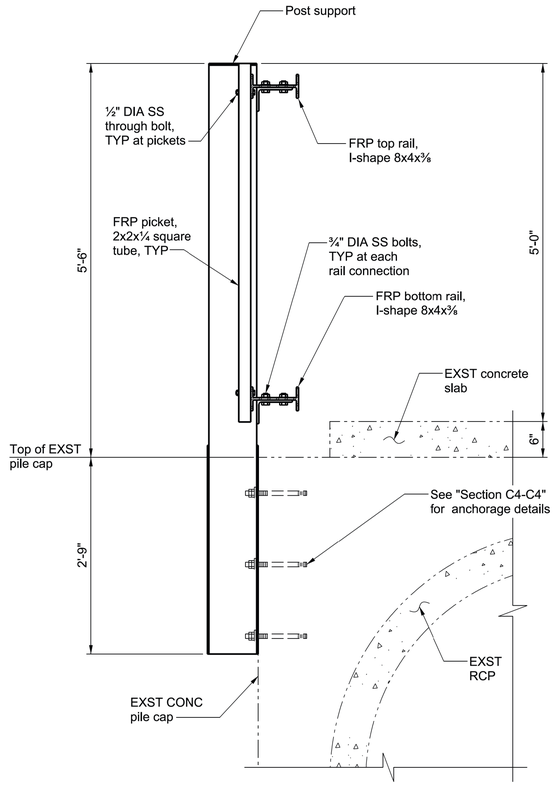
DATE: TIME: FILE:



TYPICAL PROTECTION FENCE DETAIL (SHT 2)

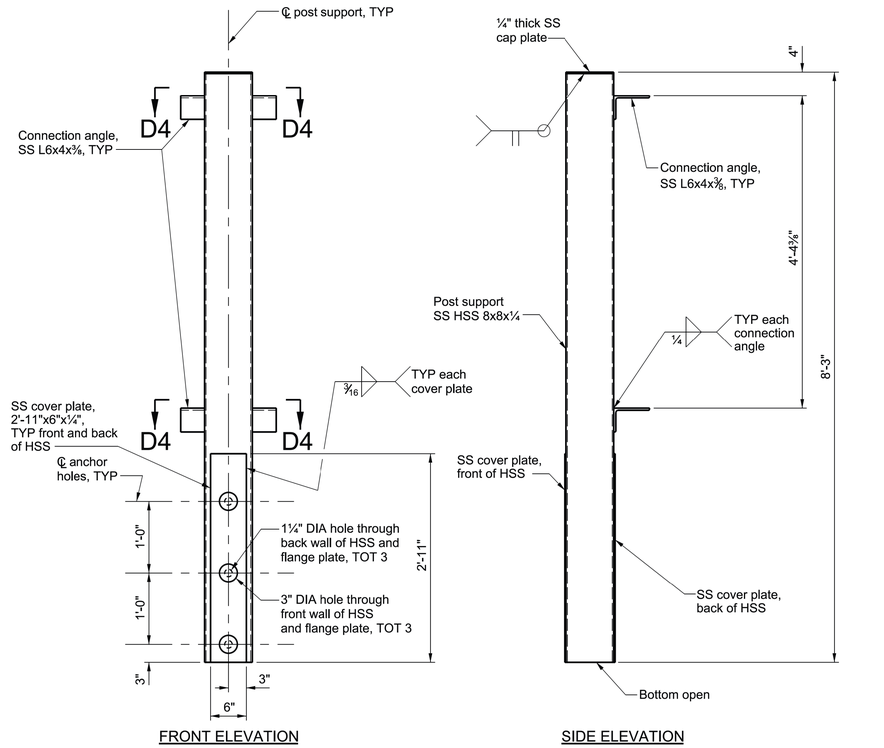
SCALE: 1"=1'-0"

NOTE: Front elevation view is shown.



SECTION B4-B4

SCALE: 1"=1'-0"

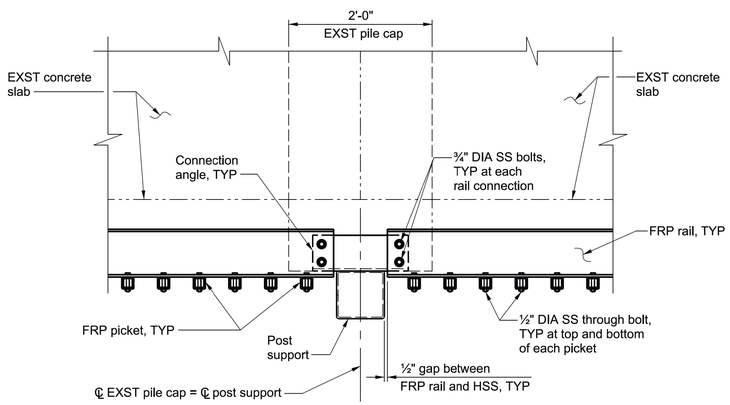


FRONT ELEVATION

SIDE ELEVATION

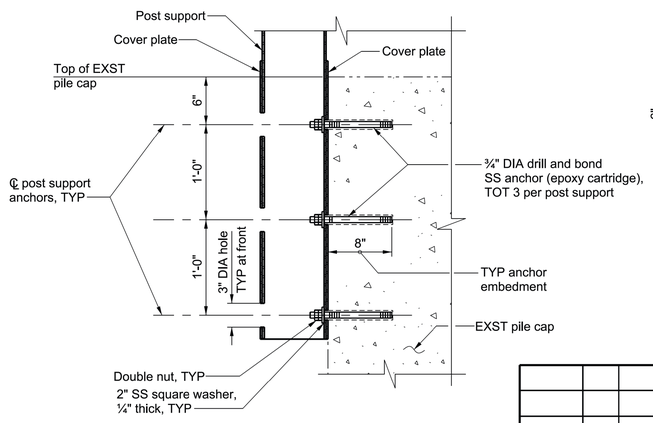
TYPICAL POST SUPPORT DETAILS

SCALE: 1"=1'-0"



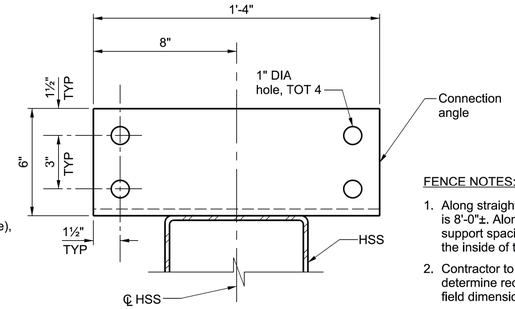
SECTION A4-A4

SCALE: 1"=1'-0"



SECTION C4-C4

NOT TO SCALE



SECTION D4-D4

SCALE: 3"=1'-0"

FENCE NOTES:

1. Along straight portions of the fence alignment, the post support spacing is 8'-0"±. Along the curved portions of the fence alignment, the post support spacing is 8'-9½"± on the outside of the curve and 7'-2½"± on the inside of the curve.
2. Contractor to verify existing field dimensions of the outlet structure and determine required post support spacing. Shop drawings based on verified field dimensions shall be submitted in accordance with 3-8.

DRAFTER	DESIGNER	CHECKER	CADD PROJECT FILE NAME
S. GREGOWSKE	S. GREGOWSKE	J. LU	FCC0001318 - Project No. 275-513 Ocean Outlet Modifications.dgn

DATE	MARK	DESCRIPTION
REVISIONS		

REGISTERED PROFESSIONAL ENGINEER — SCOTT D. GREGOWSKE — NO. 68087 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER — DATE 08/06/19

LOS ANGELES COUNTY PUBLIC WORKS

PROJECT NO. 275-513

OCEAN OUTLET MODIFICATIONS

(STA. 0+87 - 3+64)

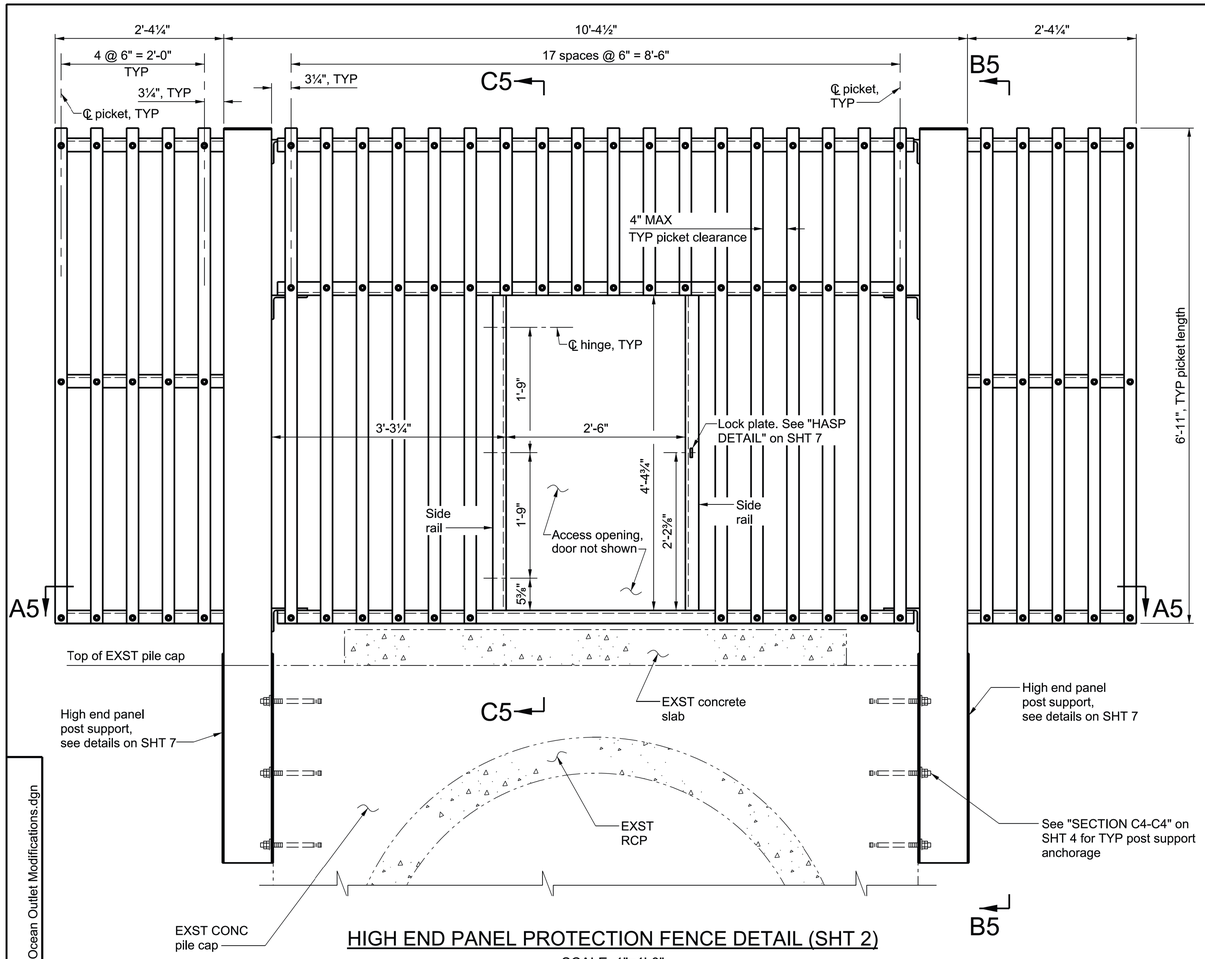
PROJECT ID NO. FCC0001318

PROTECTION FENCE - TYPICAL PANEL DETAILS

DWG 275-513-D19.4	PD PD053002	SHEET 4 OF 11

AS BUILT DRAWINGS

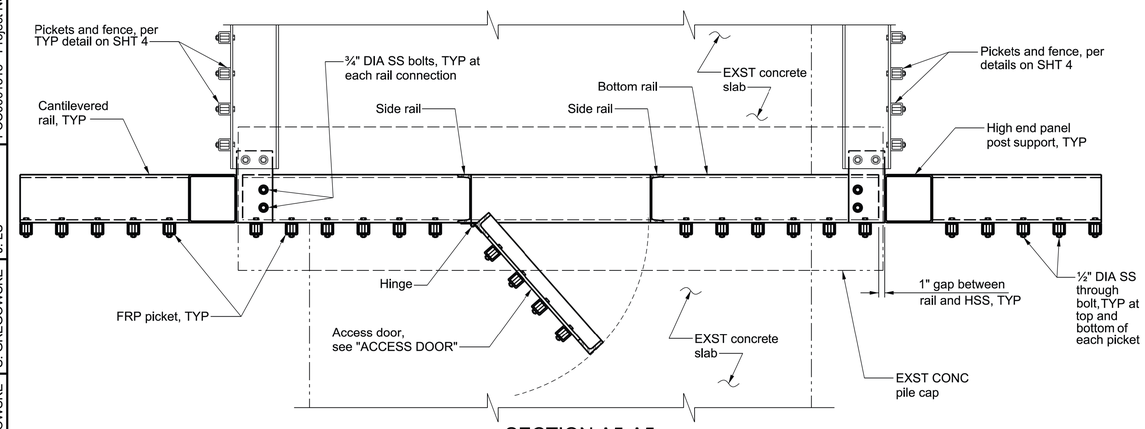
DATE: TIME: FILE:



HIGH END PANEL PROTECTION FENCE DETAIL (SHT 2)

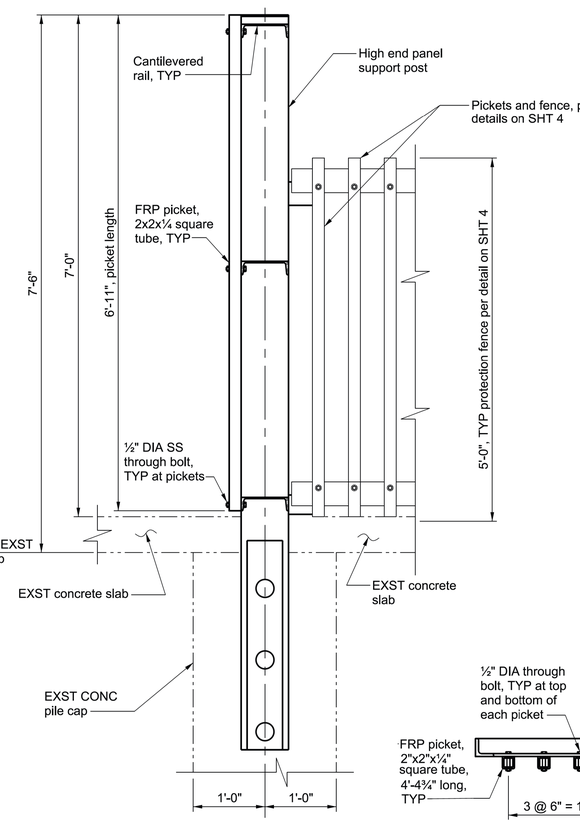
SCALE: 1"=1'-0"

NOTE: Front elevation view is shown.



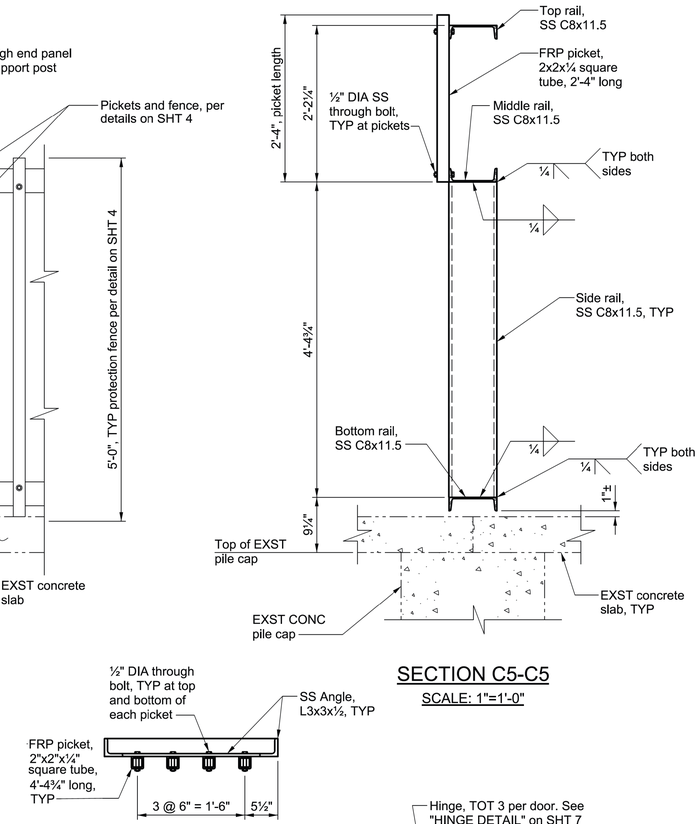
SECTION A5-A5

SCALE: 1"=1'-0"



SECTION B5-B5

SCALE: 1"=1'-0"

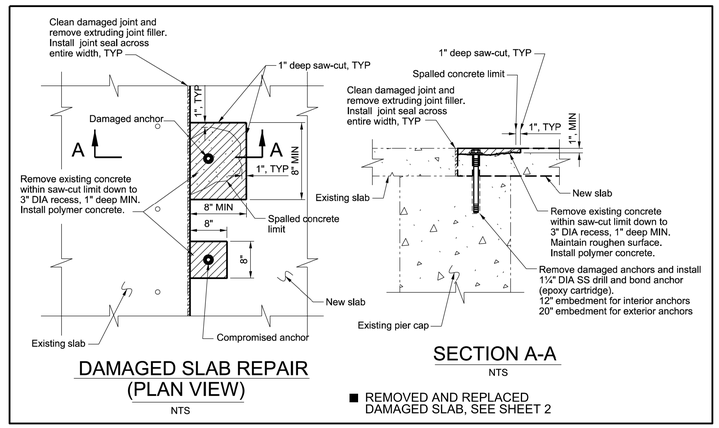


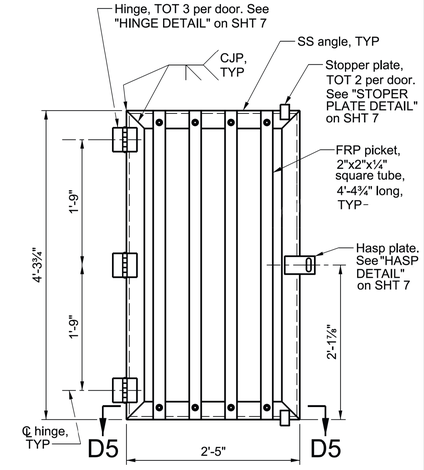
SECTION C5-C5

SCALE: 1"=1'-0"

SECTION D5-D5

SCALE: 1"=1'-0"





ACCESS DOOR

SCALE: 1"=1'-0"

DRAFTER	DESIGNER	CHECKER	CADD PROJECT FILE NAME
S. GREGOWSKE	S. GREGOWSKE	J. LU	FCC0001318 - Project No. 275-513 Ocean Outlet Modifications.dgn

DATE	MARK	DESCRIPTION
02/17/2022	■	AS BUILT REVISIONS

REVISIONS

REGISTERED PROFESSIONAL ENGINEER — SCOTT D. GREGOWSKE — NO. 68087 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER — DATE 02/05/19

LOS ANGELES COUNTY PUBLIC WORKS

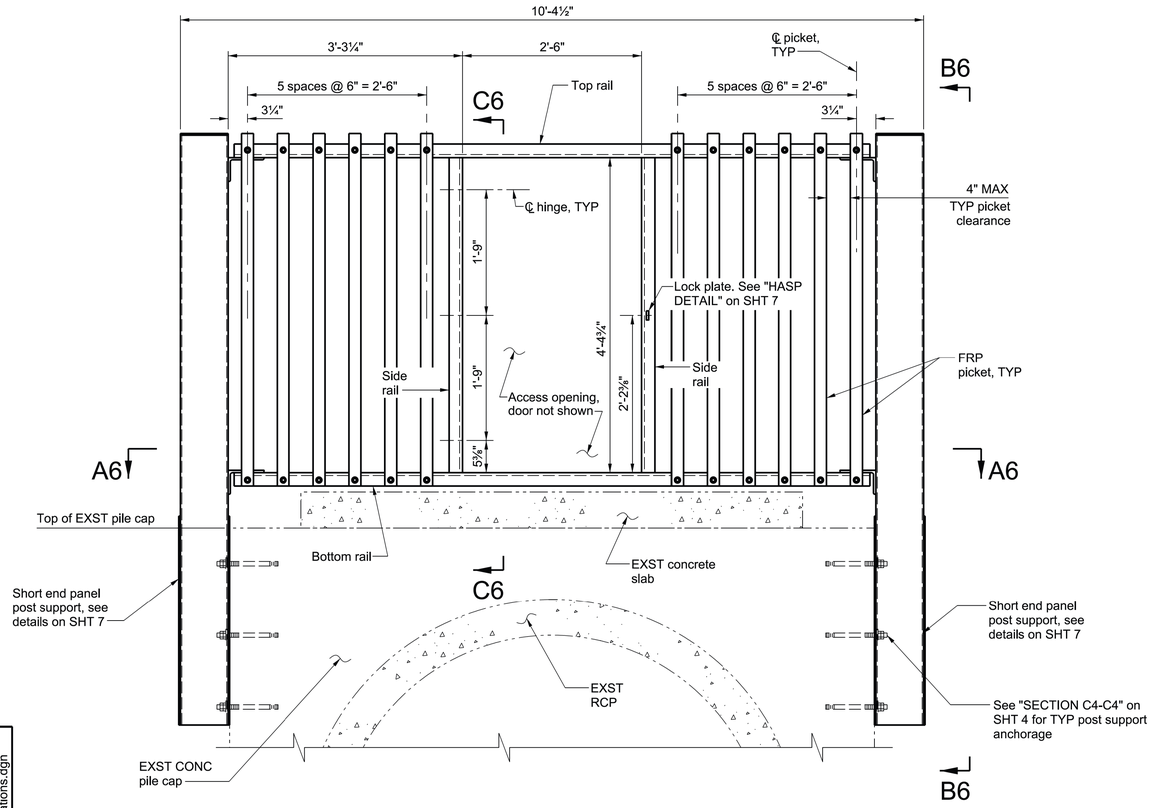
PROJECT NO. 275-513

OCEAN OUTLET MODIFICATIONS
(STA. 0+87 - 3+64)
PROJECT ID NO. FCC0001318
PROTECTION FENCE - HIGH END PANEL DETAILS

DWG 275-513-D19.5 | PD PD053002 | SHEET 5 OF 11

AS BUILT DRAWINGS

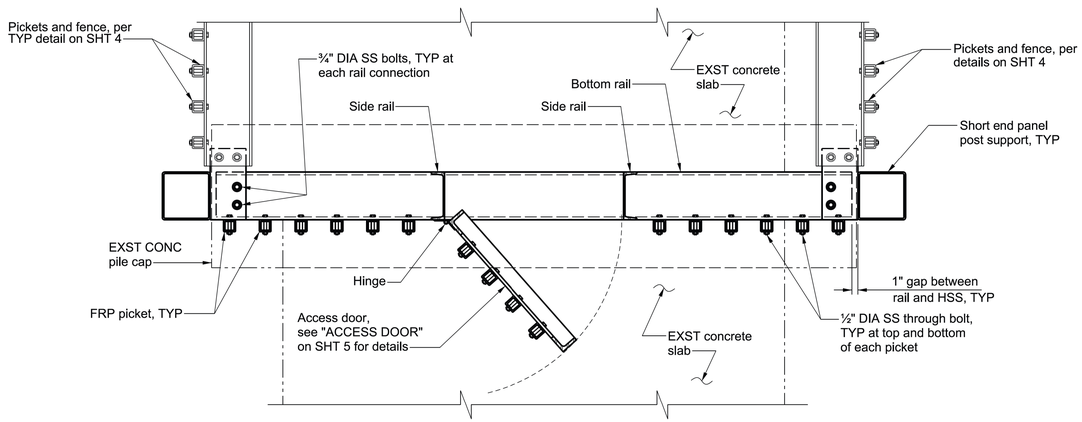
DATE: TIME: FILE:



SHORT END PANEL PROTECTION FENCE DETAIL (SHT 2)

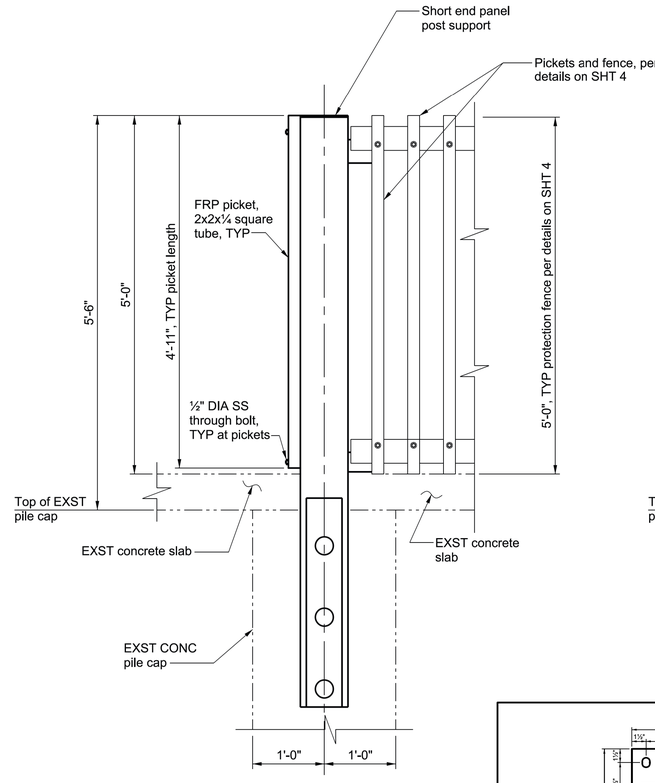
SCALE: 1"=1'-0"

NOTE: Front elevation view is shown.



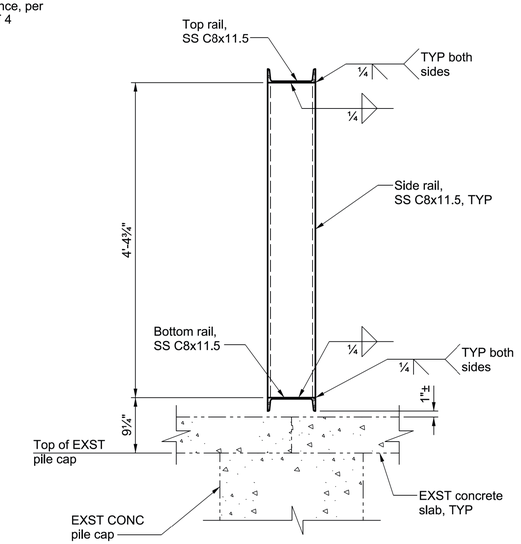
SECTION A6-A6

SCALE: 1"=1'-0"



ELEVATION B6-B6

SCALE: 1"=1'-0"



SECTION C6-C6

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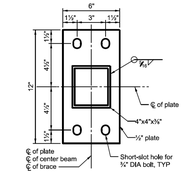
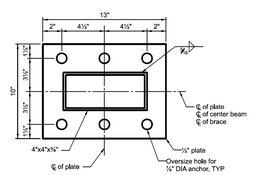


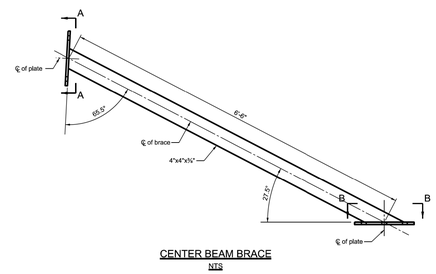
SECTION A-A

NTS



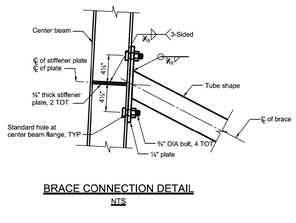
SECTION B-B

NTS



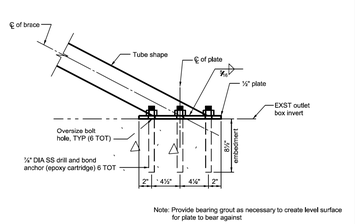
CENTER BEAM BRACE

NTS



BRACE CONNECTION DETAIL

NTS



Note: Provide bearing grout as necessary to create level surface for plate to bear against

BRACE ANCHOR DETAIL

NTS

■ AS BUILT REVISIONS

PROJECT 513 - FLAP GATE FRAME REPAIR DETAILS

02/17/2022	■	AS BUILT REVISIONS
DATE	MARK	DESCRIPTION
REVISIONS		

REGISTERED PROFESSIONAL ENGINEER — SCOTT D. GREGOWSKE — NO. 68087 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER — DATE 02/02/19

LOS ANGELES COUNTY PUBLIC WORKS

PROJECT NO. 275-513

OCEAN OUTLET MODIFICATIONS

(STA. 0+87 - 3+64)

PROJECT ID NO. FCC0001318

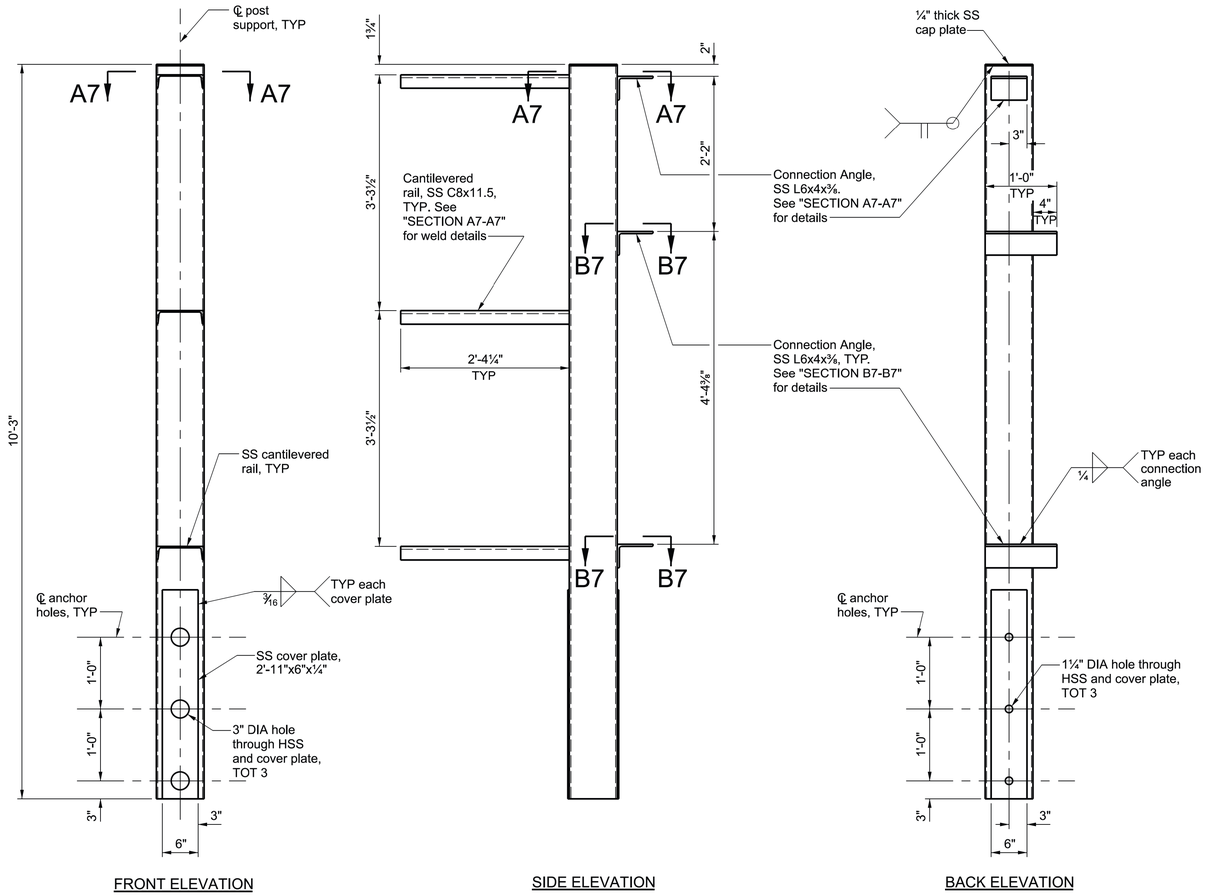
PROTECTION FENCE - SHORT END PANEL DETAILS

DWG 275-513-D19.6	PD PD053002	SHEET 6 OF 11

AS BUILT DRAWINGS

DRAFTER S. GREGOWSKE | DESIGNER S. GREGOWSKE | CHECKER J. LU | CADD PROJECT FILE NAME FCC0001318 - Project No. 275-513 Ocean Outlet Modifications.dgn

DATE: TIME: FILE:

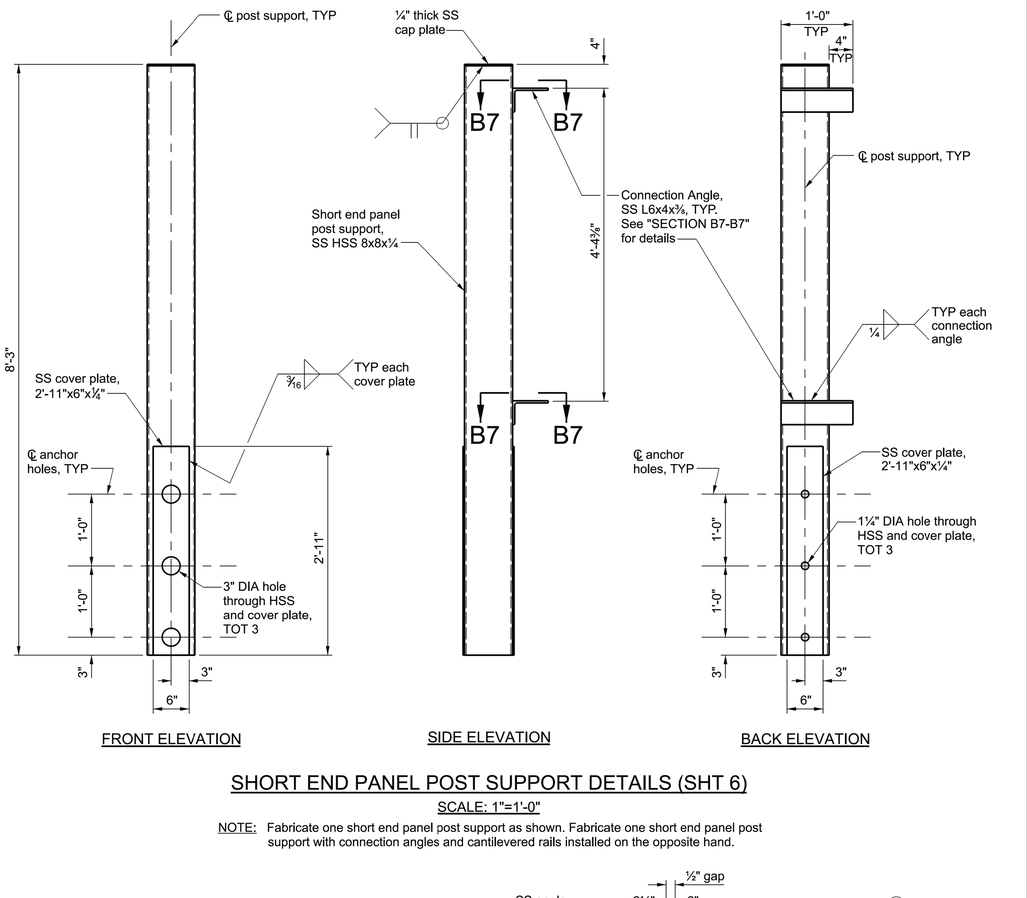


FRONT ELEVATION SIDE ELEVATION BACK ELEVATION

HIGH END PANEL POST SUPPORT DETAILS (SHT 5)

SCALE: 1"=1'-0"

NOTE: Fabricate one high end panel post support as shown. Fabricate one high end panel post support with connection angles and cantilevered rails installed on the opposite hand.

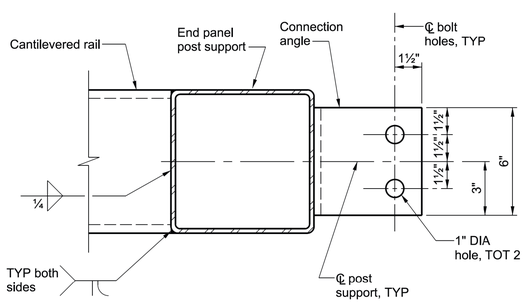


FRONT ELEVATION SIDE ELEVATION BACK ELEVATION

SHORT END PANEL POST SUPPORT DETAILS (SHT 6)

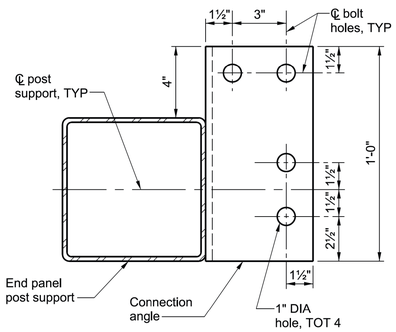
SCALE: 1"=1'-0"

NOTE: Fabricate one short end panel post support as shown. Fabricate one short end panel post support with connection angles and cantilevered rails installed on the opposite hand.



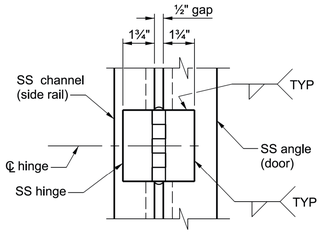
SECTION A7-A7

SCALE: 3"=1'-0"



SECTION B7-B7

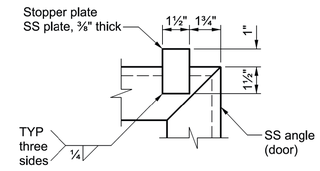
SCALE: 3"=1'-0"



HINGE DETAIL (SHT 5)

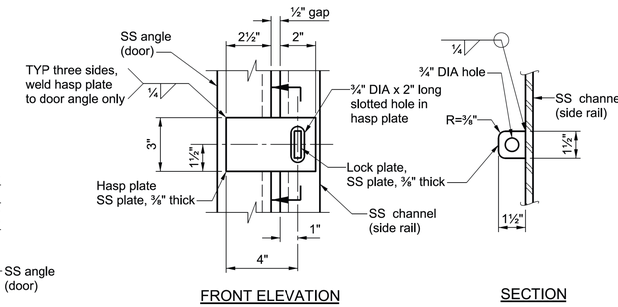
SCALE: 3"=1'-0"

NOTE: Hinge shall be 316 SS, nonremovable pin, 4" x 2" x 0.180" leaves with no holes, ⅜" DIA pin, 4" Overall Width.



STOPPER PLATE DETAIL (SHT 5)

SCALE: 3"=1'-0"



FRONT ELEVATION SECTION

HASP DETAIL (SHT 5, 6)

SCALE: 3"=1'-0"

DATE	MARK	DESCRIPTION

REVISIONS

REGISTERED PROFESSIONAL ENGINEER SCOTT D. GREGOWSKE NO. 68087 CIVIL STATE OF CALIFORNIA

PROJECT ENGINEER 08/06/19 DATE

LOS ANGELES COUNTY PUBLIC WORKS

PROJECT NO. 275-513

OCEAN OUTLET MODIFICATIONS

(STA. 0+87 - 3+64)

PROJECT ID NO. FCC0001318

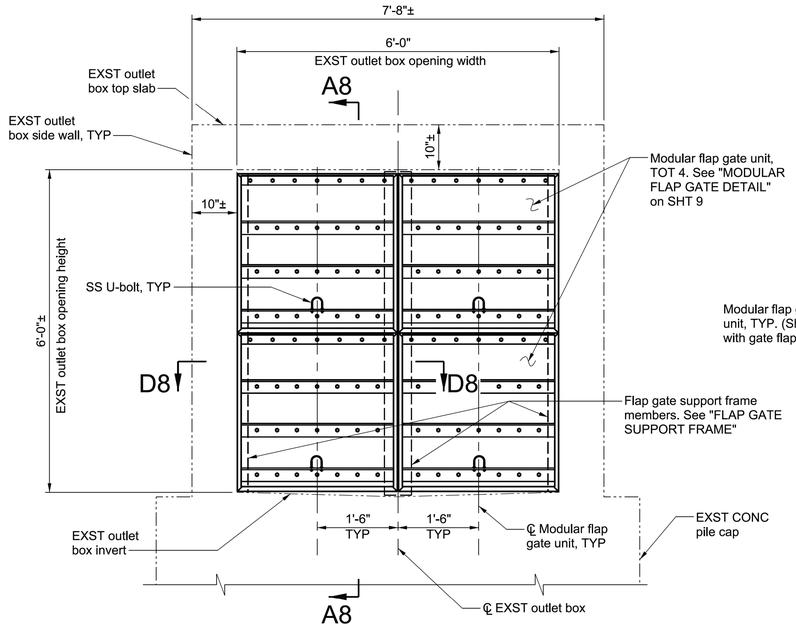
PROTECTION FENCE - STRUCTURAL DETAILS

DWG 275-513-D19.7 | PD PD053002 | SHEET 7 OF 11

AS BUILT DRAWINGS

DRAFTER S. GREGOWSKE | DESIGNER S. GREGOWSKE | CHECKER J. LU | CADD PROJECT FILE NAME FCC0001318 - Project No. 275-513 Ocean Outlet Modifications.dgn

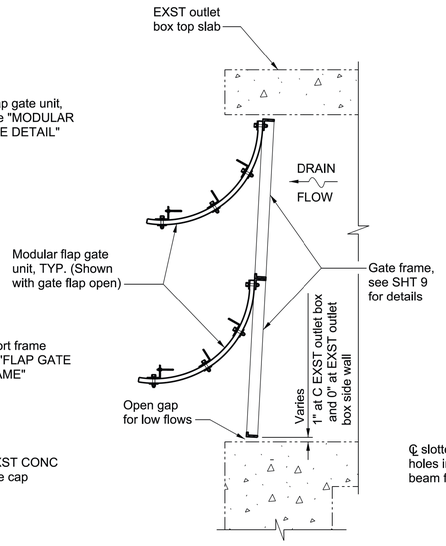
DATE: TIME: FILE:



MODULAR FLAP GATE (SHT 2)

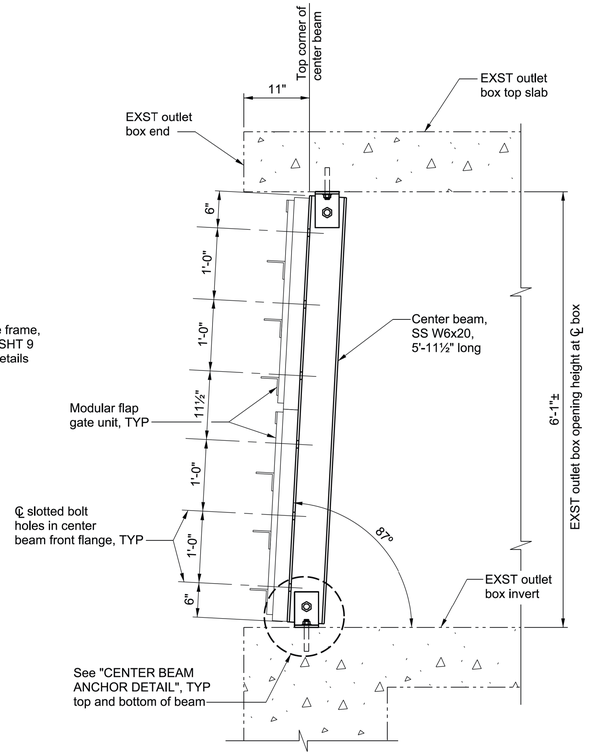
SCALE: ¾"=1'-0"

NOTE: Front elevation view is shown.



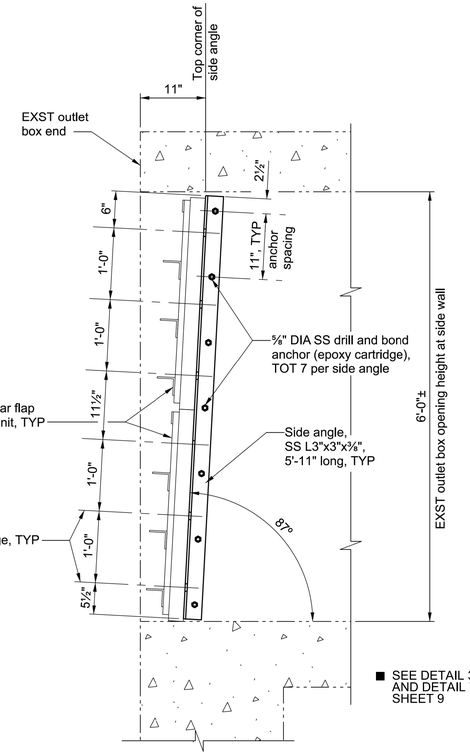
SECTION A8-A8

SCALE: ¾"=1'-0"



SECTION B8-B8

SCALE: 1"=1'-0"

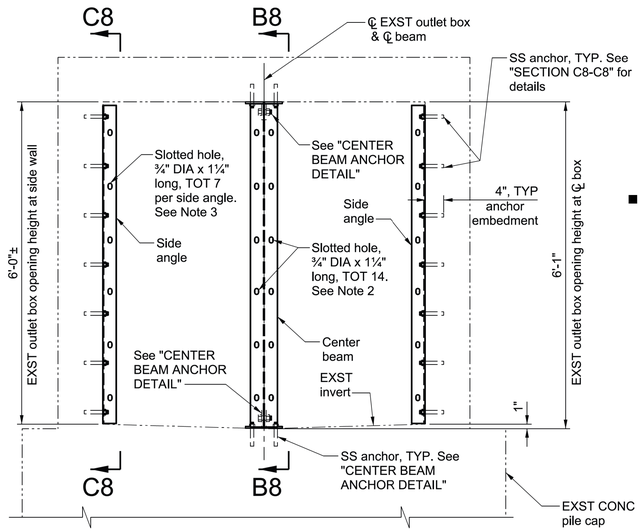


■ SEE DETAIL 2 AND DETAIL 6, SHEET 9

■ SEE DETAIL 3 AND DETAIL 7, SHEET 9

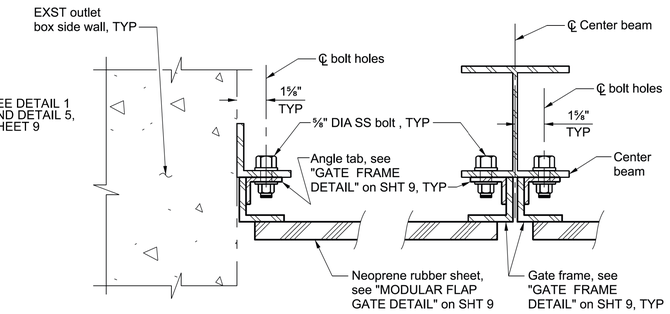
SECTION C8-C8

SCALE: 1"=1'-0"



FLAP GATE SUPPORT FRAME

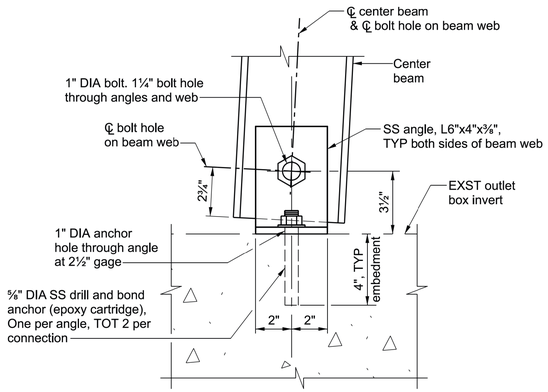
SCALE: ¾"=1'-0"



■ SEE DETAIL 1 AND DETAIL 5, SHEET 9

SECTION D8-D8

SCALE: 1½""=1'-0"



CENTER BEAM ANCHOR DETAIL

SCALE: 3"=1'-0"

NOTES:

1. Front elevation view is shown.
2. See "SECTION B8-B8" and "SECTION D8-D8" for slotted hole spacing on center beam. Slotted holes only on front flange of beam.
3. See "SECTION C8-C8" and "SECTION D8-D8" for slotted hole spacing on side angle.

DATE	MARK	DESCRIPTION
02/17/2022	■	AS BUILT REVISIONS

REVISIONS

REGISTERED PROFESSIONAL ENGINEER — JOHN Y. LO — NO. 6546 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT ENGINEER — DATE 8/6/19

LOS ANGELES COUNTY PUBLIC WORKS

PROJECT NO. 275-513

OCEAN OUTLET MODIFICATIONS

(STA. 0+87 - 3+64)

PROJECT ID NO. FCC0001318

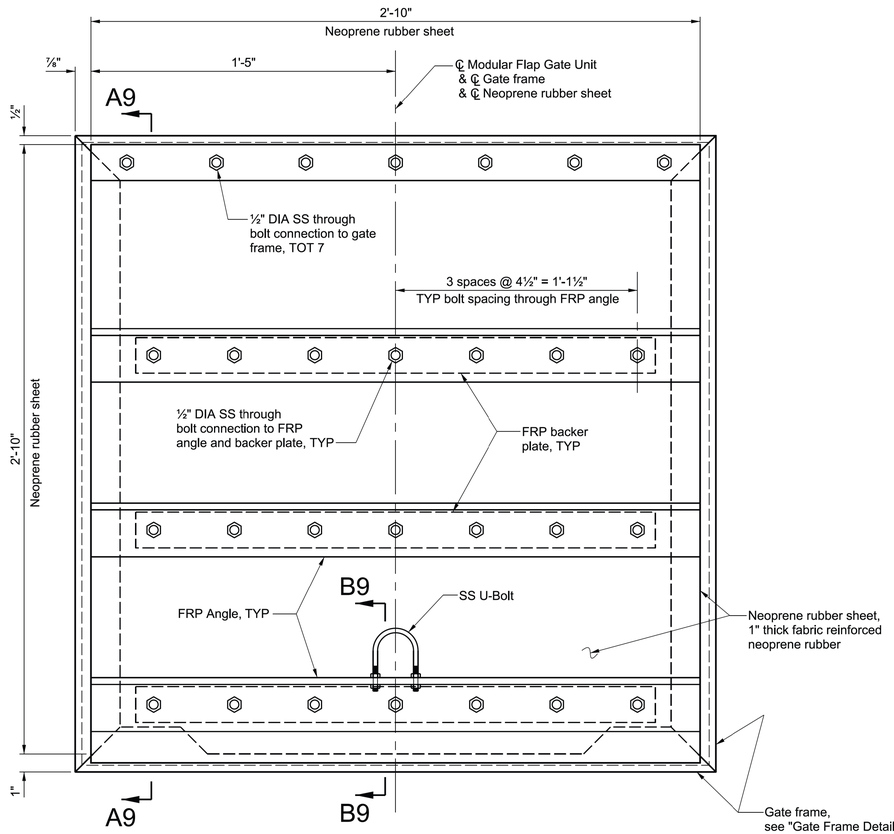
MODULAR FLAP GATE - SECTIONS AND DETAILS I

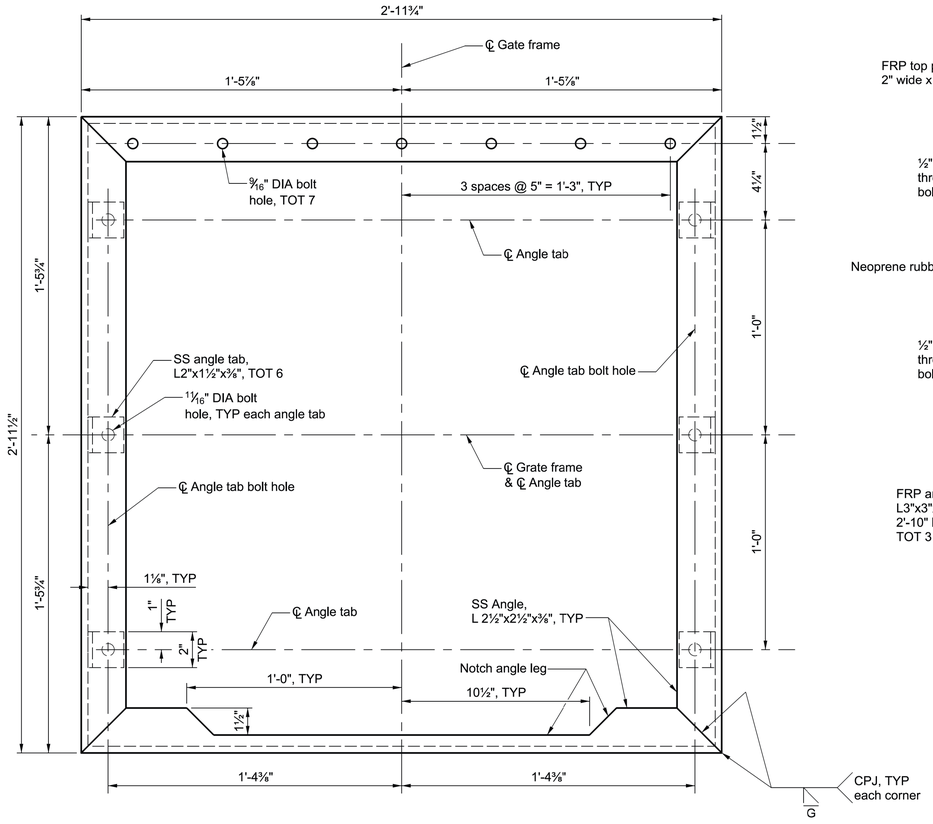
DWG 275-513-D19.8 | PD PD053002 | SHEET 8 OF 11

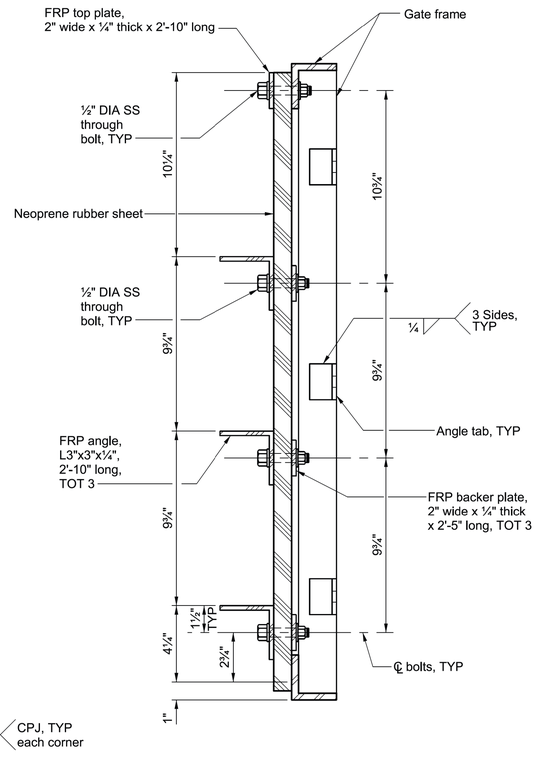
AS BUILT DRAWINGS

DRAFTER N. NGUYEN | DESIGNER J. LU | CHECKER S. GREGOWSKE | CADD PROJECT FILE NAME FCC0001318 - Project No. 275-513 Ocean Outlet Modifications.dgn

DATE: TIME: FILE:







MODULAR FLAP GATE DETAIL

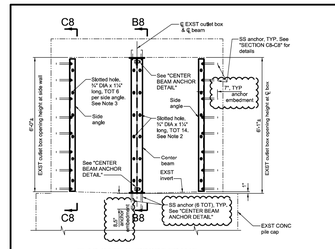
SCALE: 3"=1'-0"

GATE FRAME DETAIL

SCALE: 3"=1'-0"

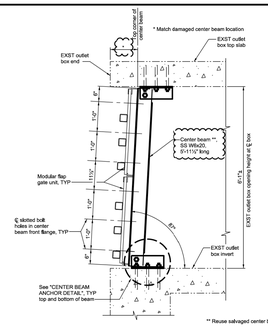
SECTION A9-A9

SCALE: 3"=1'-0"



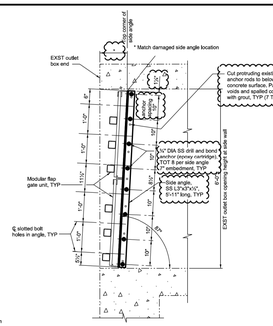
FLAP GATE SUPPORT FRAME
NTS

■ DETAIL 1



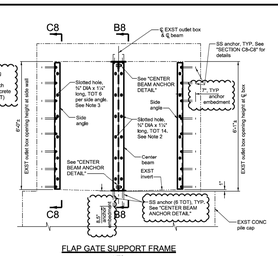
SECTION B8-B8
NTS

■ DETAIL 2



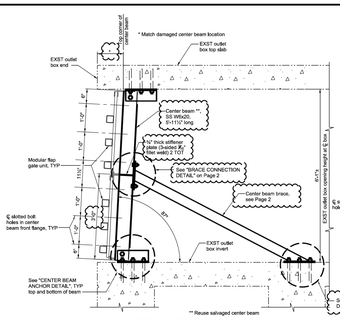
SECTION C8-C8
NTS

■ DETAIL 3



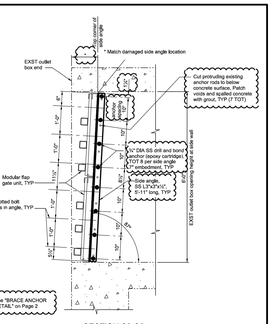
FLAP GATE SUPPORT FRAME
NTS

■ DETAIL 5



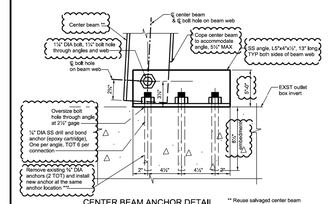
SECTION B8-B8
NTS

■ DETAIL 6



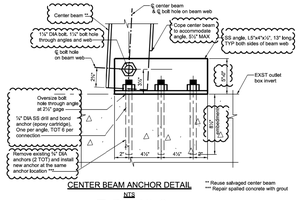
SECTION C8-C8
NTS

■ DETAIL 7



CENTER BEAM ANCHOR DETAIL
NTS

■ DETAIL 4

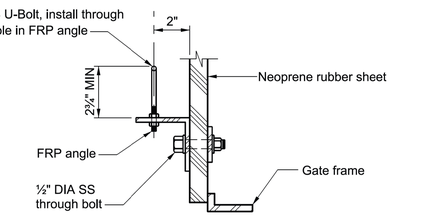


CENTER BEAM ANCHOR DETAIL
NTS

■ DETAIL 8

SECTION B9-B9

SCALE: 3"=1'-0"



NOTE: U-bolt shall be 316 SS, ¼" DIA leg, 2" interior diameter of U bend, 3¼" overall length, and 1⅜" threaded length.

■ AS BUILT DETAILS
(SEE SHEET 8)

PROJECT 513 - FLAP GATE FRAME REPAIR DETAILS

02/17/2022	■	AS BUILT REVISIONS
DATE	MARK	DESCRIPTION
REVISIONS		

REGISTERED PROFESSIONAL ENGINEER
JOHN Y. LU
NO. 8546
STRUCTURAL
STATE OF CALIFORNIA

PROJECT ENGINEER — DATE 8/6/19

LOS ANGELES COUNTY PUBLIC WORKS

PROJECT NO. 275-513

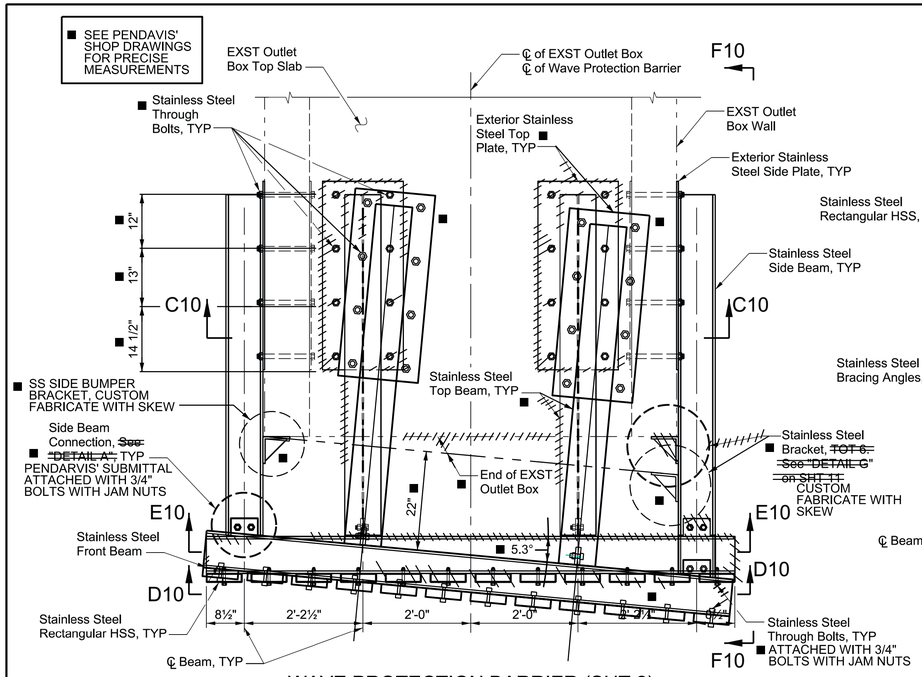
OCEAN OUTLET MODIFICATIONS
(STA. 0+87 - 3+64)
PROJECT ID NO. FCC0001318
MODULAR FLAP GATE - SECTIONS AND DETAILS II

DWG 275-513-D19.9	PD PD053002	SHEET 9 OF 11

AS BUILT DRAWINGS

CADD PROJECT FILE NAME: FCC0001318 - Project No. 275-513 Ocean Outlet Modifications.dgn
CHECKER: S. GREGOWSKE
DESIGNER: J. LU
DRAFTER: N. NGUYEN

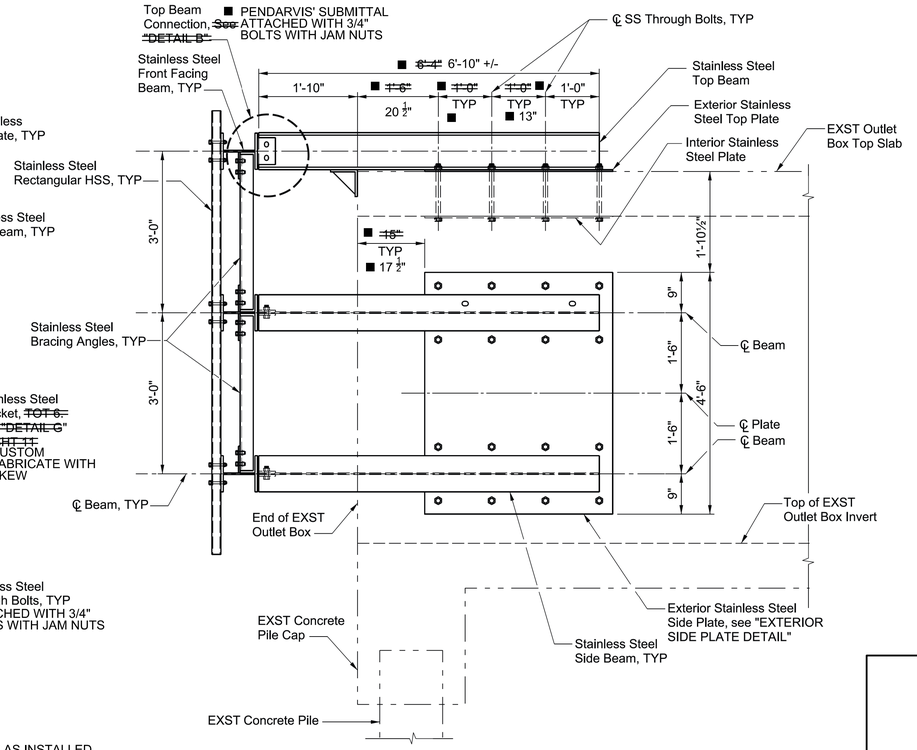
DATE: TIME: FILE:



WAVE PROTECTION BARRIER (SHT 2)

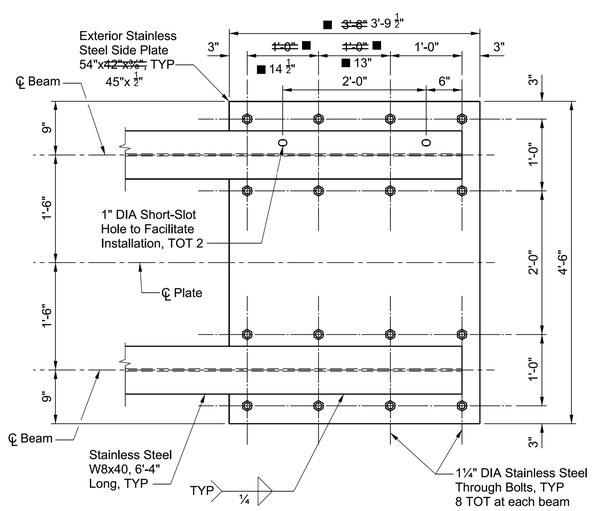
SCALE: ¾"=1'-0"

NOTES:
1. Top plan view is shown.
2. See "SECTION D10-D10" and "SECTION E10-E10" on SHT 11.
3. Contractor to verify controlling field dimensions of the outlet structure. Shop drawings based on verified field dimensions shall be submitted in accordance with 3-8.
4. ■ OUTER FRAME TO BE FABRICATE TO FIT THE 6 EACH W8x40 SIDE AND TOP BEAMS AS INSTALLED.
5. ■ GROUT BETWEEN STEEL AND CONCRETE AS NECESSARY.
6. ■ ALL BOLT CONNECTIONS FOR THE WAVE PROTECTION BARRIER, EXCEPT HSS TO BEAM AND GUSSET PLATE CONNECTIONS, SHALL BE PROVIDED WITH JAM NUTS, WHERE THE HEIGHT OF JAM NUTS ARE HALF AS TALL AS THE REGULAR NUTS. JAM NUTS SHALL BE INSTALLED PRIOR TO INSTALLING THE REGULAR NUTS.



ELEVATION F10-F10

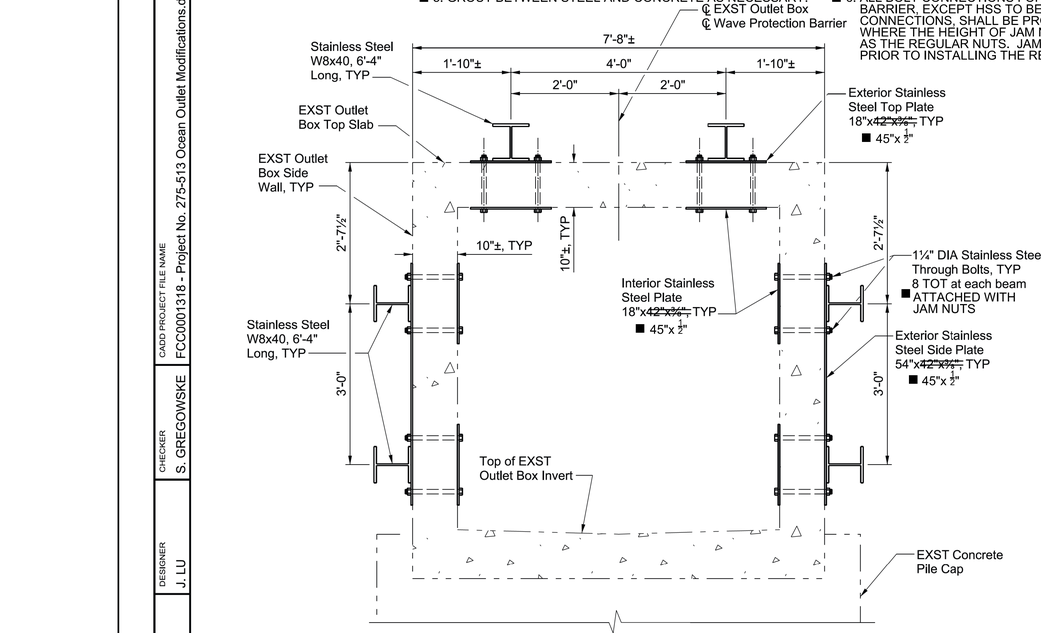
SCALE: ¾"=1'-0"



EXTERIOR SIDE PLATE DETAIL

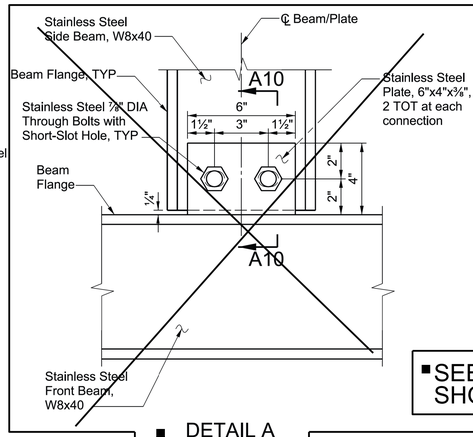
SCALE: 1"=1'-0"

NOTES:
1. Exterior stainless steel side plate on the opposite side is symmetrical to the details shown.
2. Exterior stainless steel top plate is similar with bolt edge distance of 3" and plate width of 18".



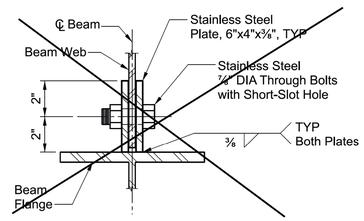
SECTION C10-C10

SCALE: ¾"=1'-0"



■ DETAIL A

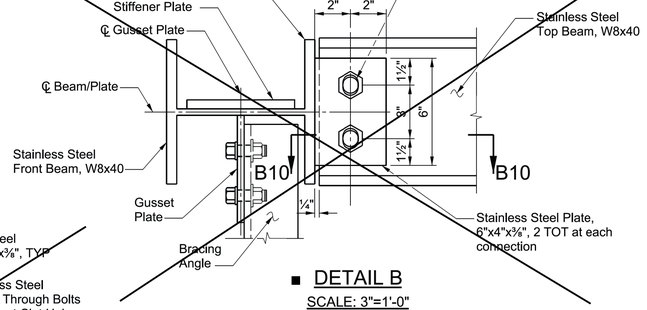
SCALE: 3"=1'-0"



■ SECTION A10-A10

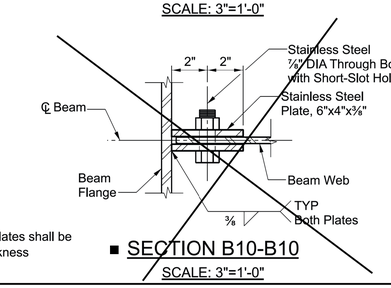
SCALE: 3"=1'-0"

■ SEE PENDAVIS' SHOP DRAWINGS



■ DETAIL B

SCALE: 3"=1'-0"



■ SECTION B10-B10

SCALE: 3"=1'-0"

NOTE: Gap between stainless steel plates shall be 1/16" wider than beam web thickness

DATE	MARK	DESCRIPTION
02/17/2022	■	AS BUILT REVISIONS

REVISIONS

REGISTERED PROFESSIONAL ENGINEER — JOHN Y. LU — NO. 8546 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT ENGINEER — DATE 8/6/19

LOS ANGELES COUNTY PUBLIC WORKS

PROJECT NO. 275-513

OCEAN OUTLET MODIFICATIONS
(STA. 0+87 - 3+64)
PROJECT ID NO. FCC0001318
WAVE PROTECTION BARRIER - SECTIONS AND DETAILS I

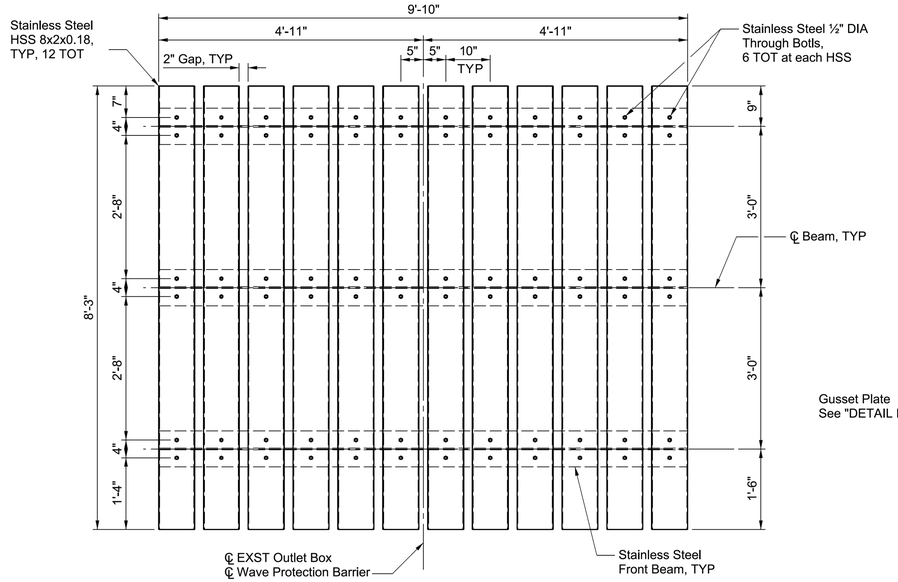
DWG 275-513-D19.1 | PD PD053002 | SHEET 10 OF 11

AS BUILT DRAWINGS

CADD PROJECT FILE NAME: FCC0001318 - Project No. 275-513 Ocean Outlet Modifications.dgn
CHECKER: S. GREGOWSKE
DESIGNER: J. LU
DRAFTER: J. LU

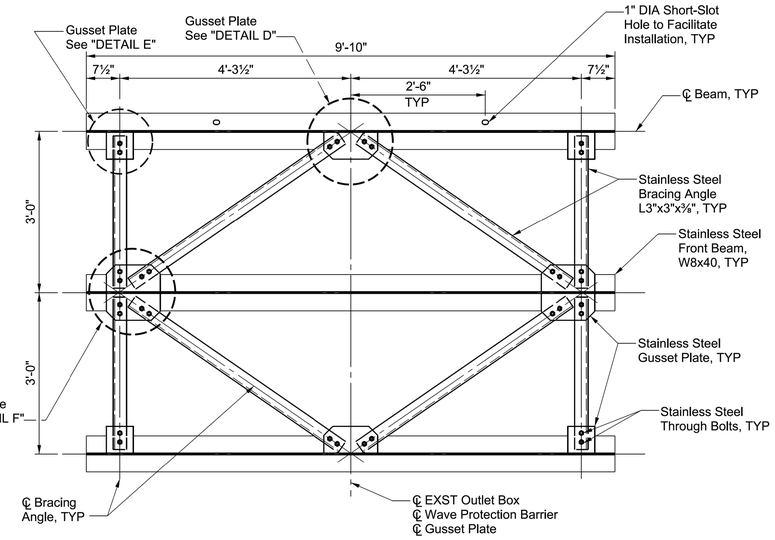
DATE: TIME: FILE:

■ ADJUST BOLT LOCATION FOR INSTALLATION PER TEMPLATE



ELEVATION D10-D10 (SHT 10)

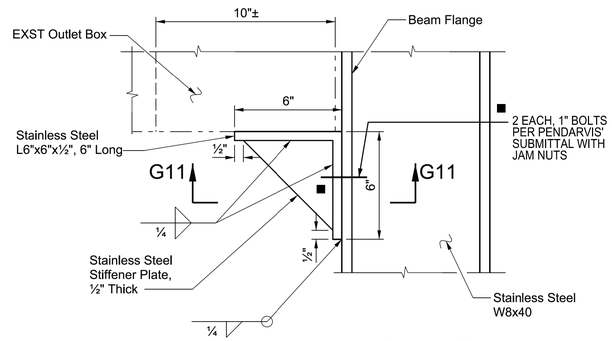
SCALE: ¾"=1'-0"



SECTION E10-E10 (SHT 10)

SCALE: ¾"=1'-0"

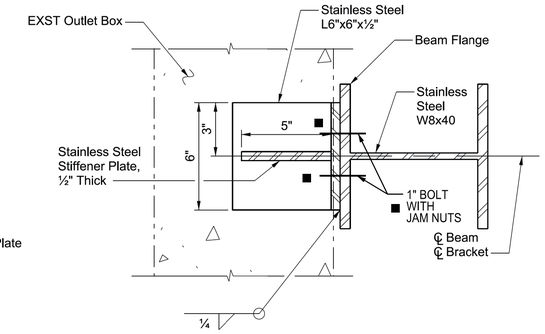
NOTE: Gusset plates shall be installed along the center of the web



DETAIL G

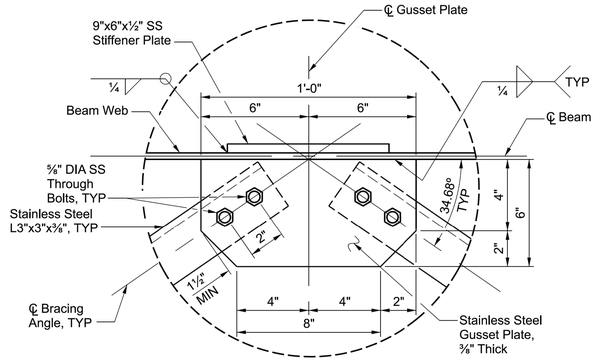
SCALE: 3"=1'-0"

NOTE: Stainless steel angle shall be in full contact with the exterior face of EXST outlet box



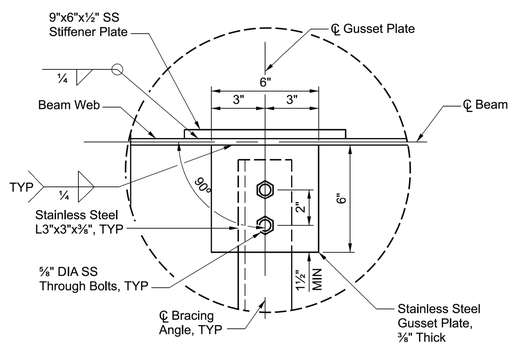
SECTION G11-G11

SCALE: 3"=1'-0"



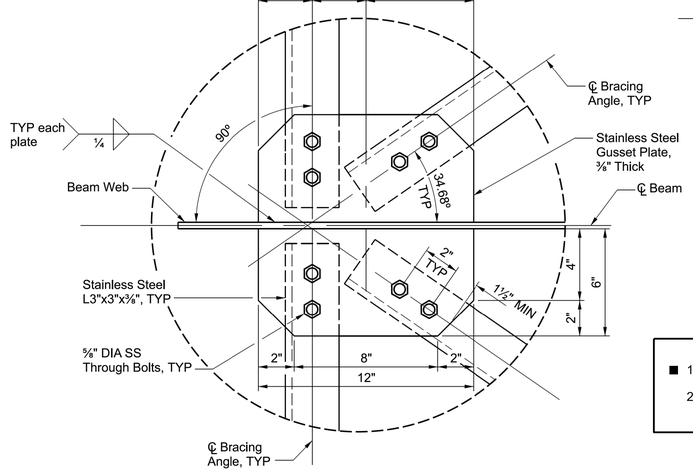
DETAIL D

SCALE: 3"=1'-0"



DETAIL E

SCALE: 3"=1'-0"



DETAIL F

SCALE: 3"=1'-0"

NOTE:
■ 1. FRAME TO BE FABRICATED TO FIT 6 EACH W8x40 BEAMS AS INSTALLED PER TEMPLATE.
2. GROUT BETWEEN SS AND CONCRETE TO FILL VOIDS AS NECESSARY.

DATE	MARK	DESCRIPTION
02/17/2022	■	AS BUILT REVISIONS

REVISIONS

REGISTERED PROFESSIONAL ENGINEER — JOHN Y. LU — NO. 6546 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT ENGINEER — DATE 8/6/19

LOS ANGELES COUNTY PUBLIC WORKS

PROJECT NO. 275-513

OCEAN OUTLET MODIFICATIONS

(STA. 0+87 - 3+64)

PROJECT ID NO. FCC0001318

WAVE PROTECTION BARRIER - SECTIONS AND DETAILS II

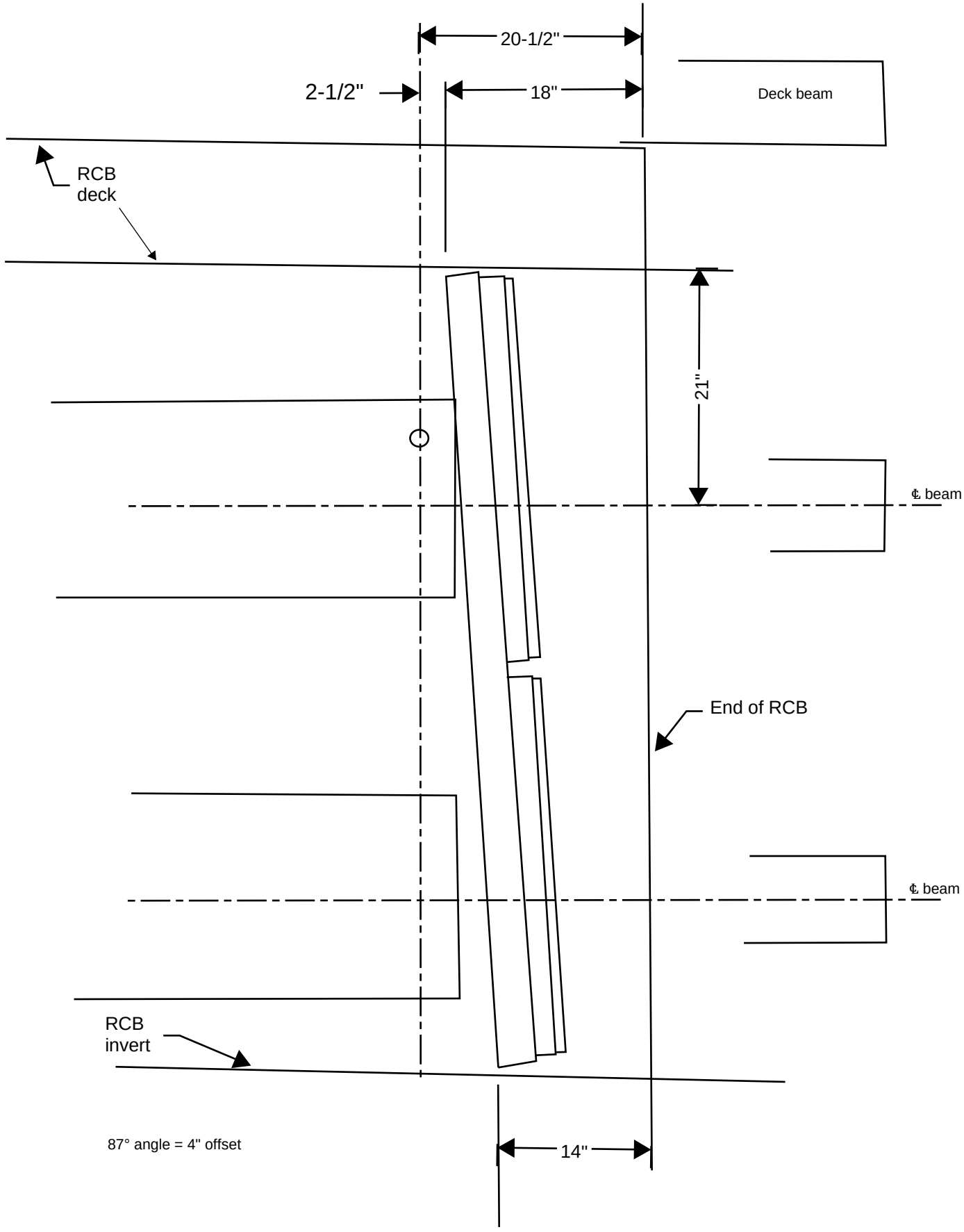
DWG 275-513-D19.11 | PD PD053002 | SHEET 11 OF 11

AS BUILT DRAWINGS

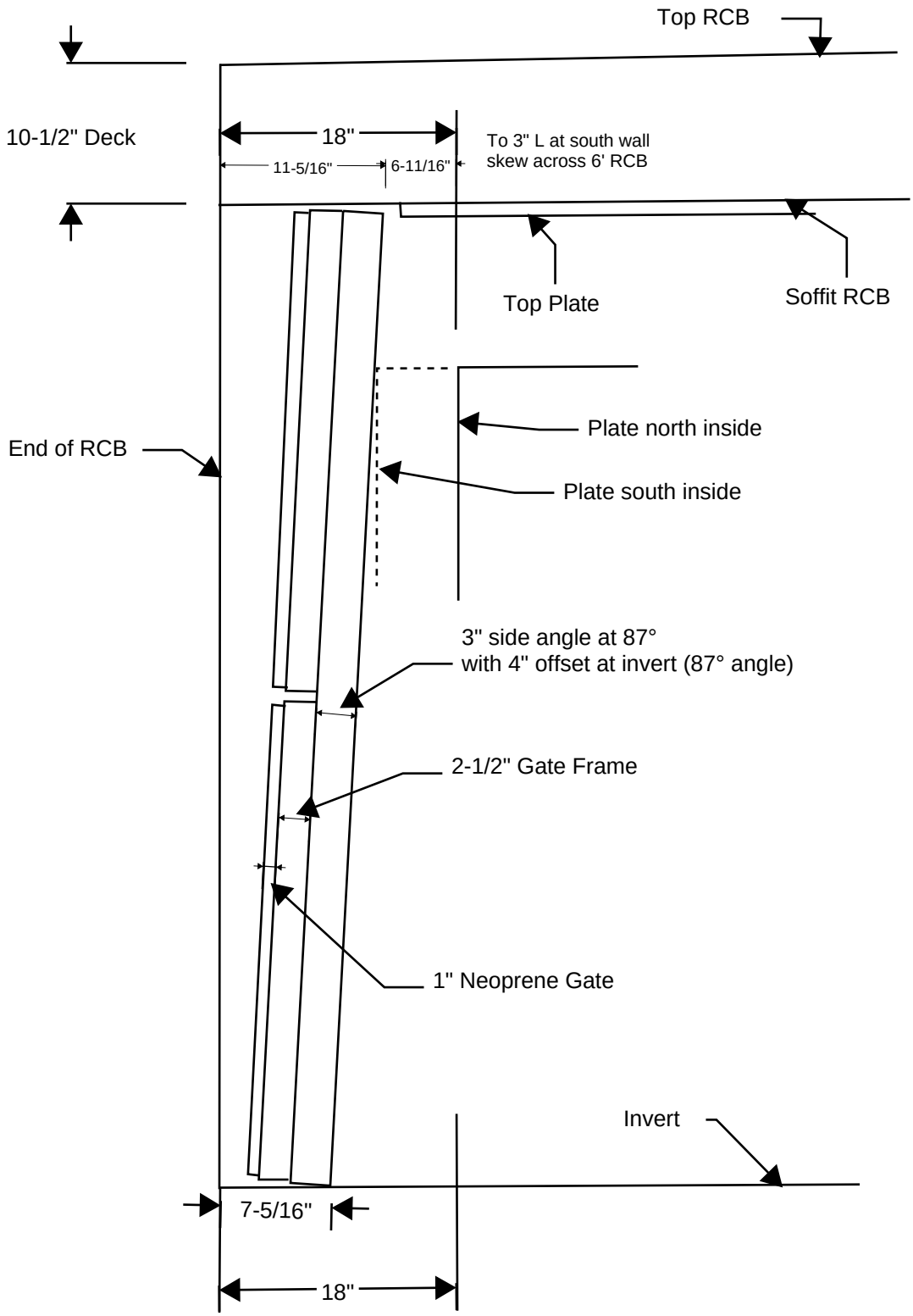
DRAFTER J. LU | DESIGNER J. LU | CHECKER S. GREGOWSKE | CADD PROJECT FILE NAME FCC0001318 Project No. 275-513 Ocean Outlet Modifications.dgn

DATE: TIME: FILE:

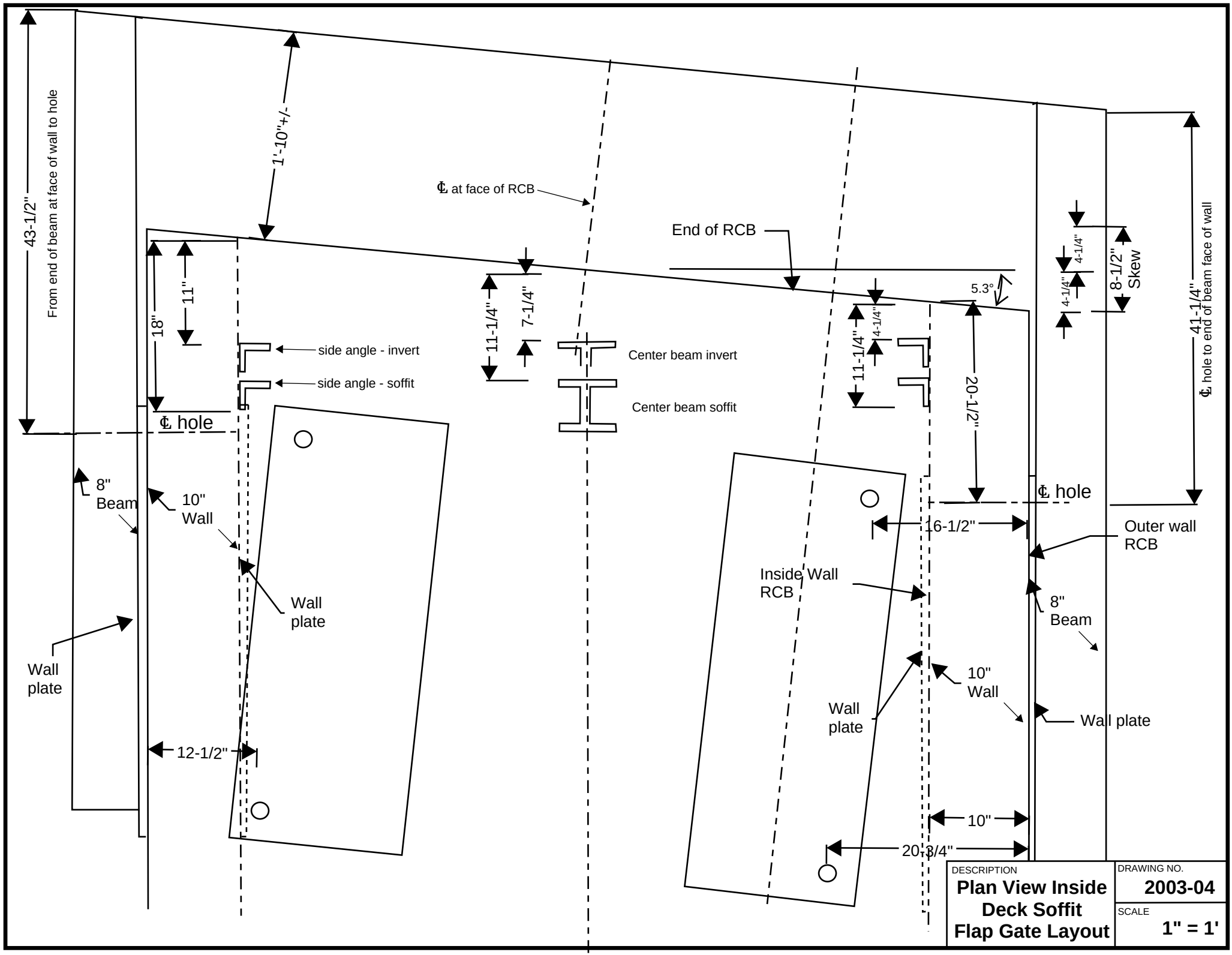
DESCRIPTION	DRAWING NO.
Top View for Layout of Holes and Beams	**2003-01**
	SCALE **1" = 1'**

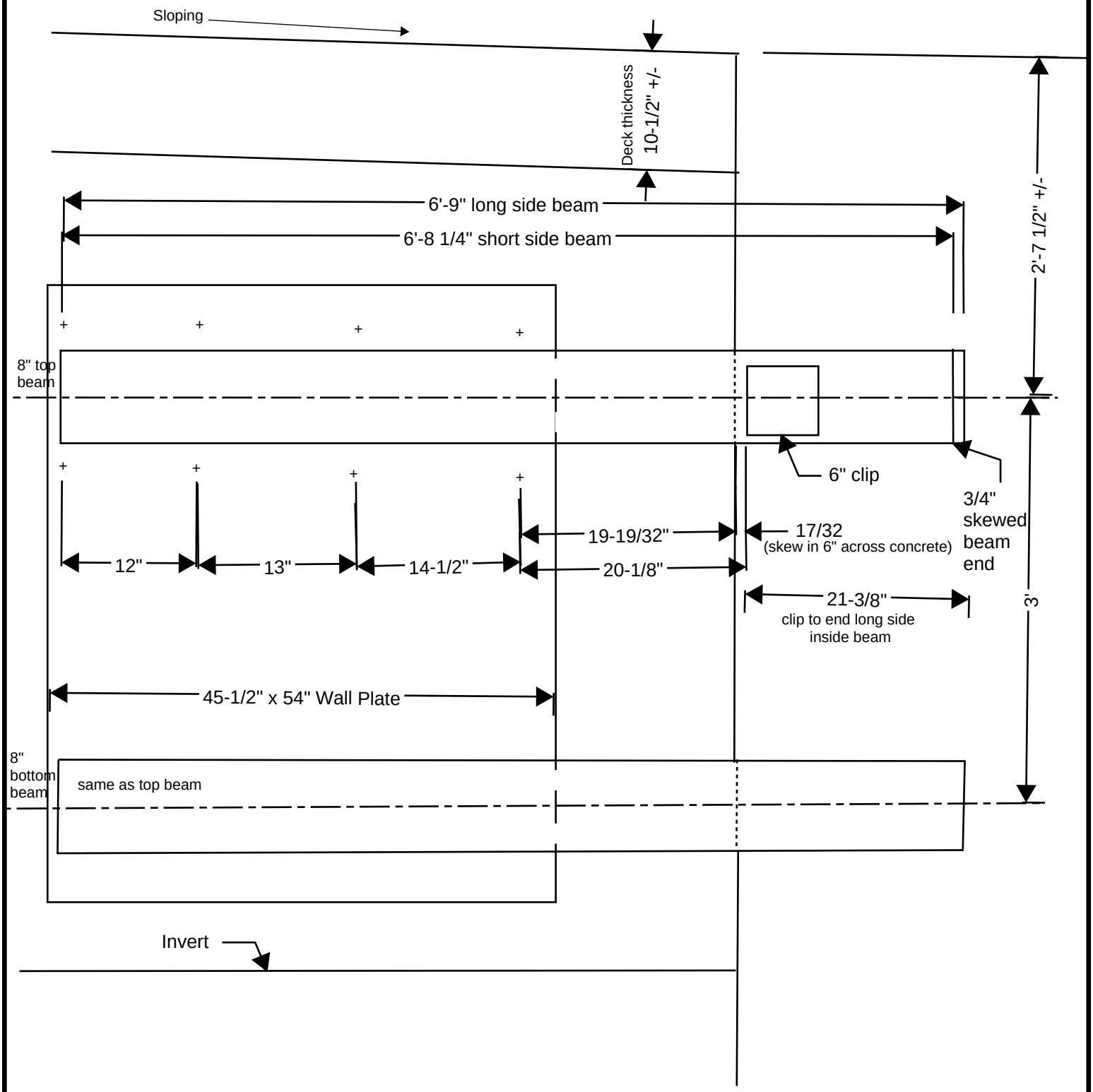


DESCRIPTION	DRAWING NO.
Inside South Wall RCB Flap Gate Position	**2003-02**
	SCALE **1" = 1'**

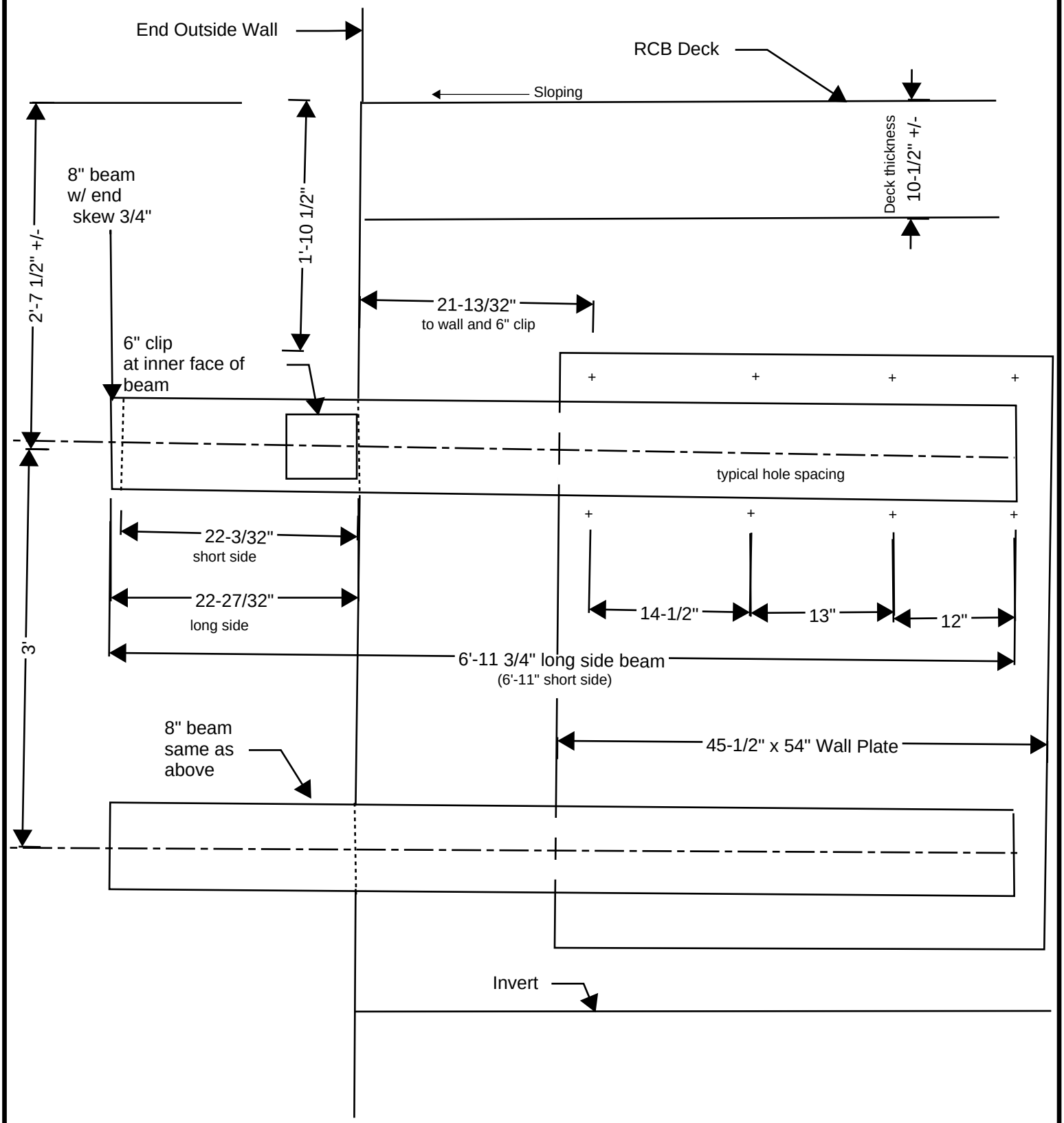


DESCRIPTION	DRAWING NO.
Flap Gate Position Inside North Wall RCB	**2003-03**
	SCALE **1" = 1'**


43-1/2"
From end of beam at face of wall to hole
1'-10"+/-
℄ at face of RCB
End of RCB
5.3°
8-1/2" Skew
4-1/4"
4-1/4"
41-1/4"
℄ hole to end of beam face of wall
18"
11"
side angle - invert
side angle - soffit
11-1/4"
7-1/4"
Center beam invert
Center beam soffit
11-1/4"
4-1/4"
20-1/2"
℄ hole
8" Beam
10" Wall
Wall plate
Wall plate
12-1/2"
16-1/2"
Outer wall RCB
Inside Wall RCB
8" Beam
10" Wall
Wall plate
Wall plate
10"
20-3/4"
DESCRIPTION
Plan View Inside Deck Soffit Flap Gate Layout
DRAWING NO.
2003-04
SCALE
1" = 1'



DESCRIPTION	DRAWING NO.
Wave Barrier Beam Support at North Outside Wall RCB	**2003-05**
	SCALE **1" = 1'**



DESCRIPTION	DRAWING NO.
Wave Barrier Beam Support at South Outside Wall RCB	**2003-06**
	SCALE **1" = 1'**