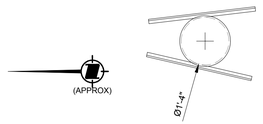
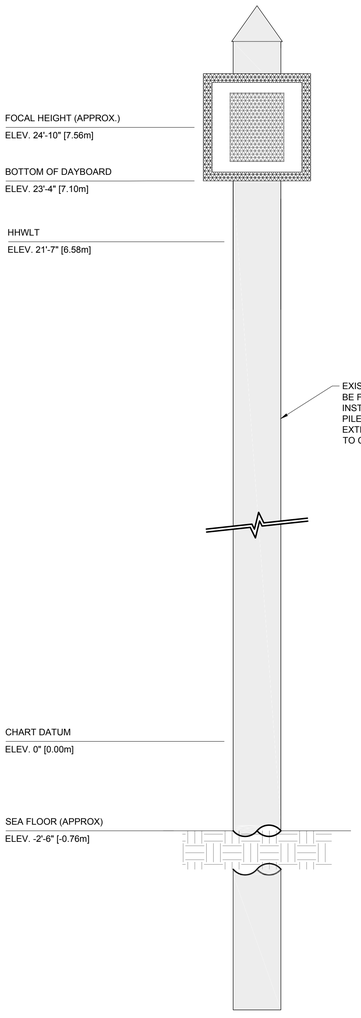


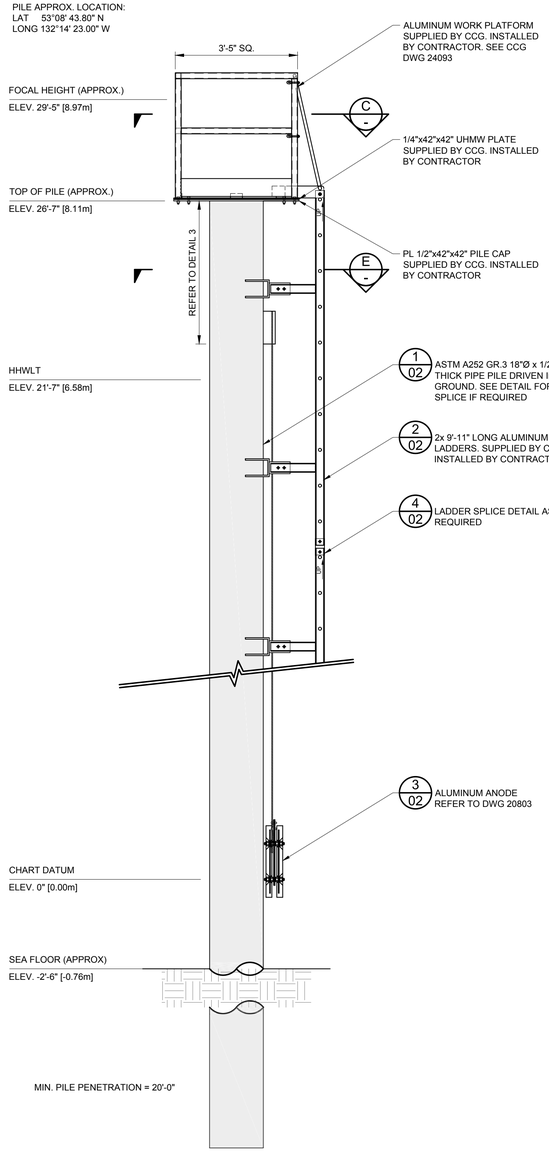
PLAN



ELEVATION

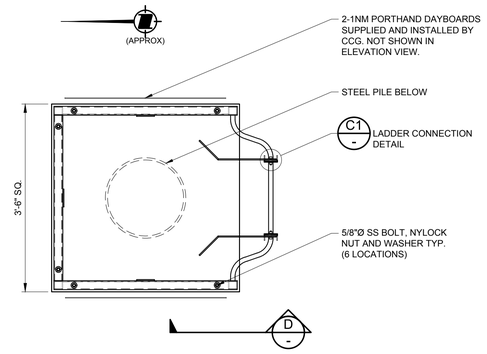
EXISTING A - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"

PILE ORIENTATION AND LOCATION TO BE CONFIRMED BY CCG REPRESENTATIVE IN THE FIELD



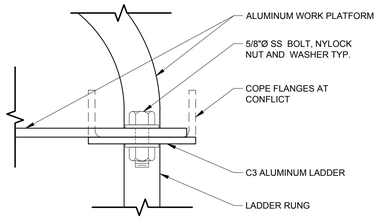
ELEVATION

PROPOSED B - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"



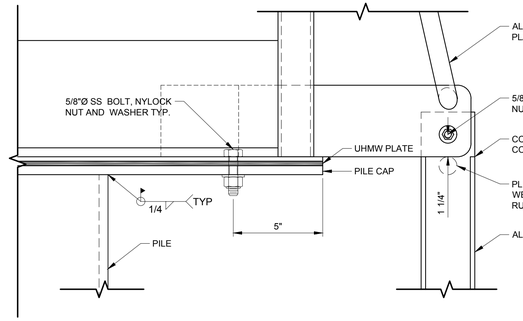
PLAN
SCALE: 3/4" = 1'-0"

C - TOP OF HANDRAIL



DETAIL
SCALE: 6" = 1'-0"

C1 - LADDER CONNECTION



SECTION
SCALE: 3" = 1'-0"

D - PILE CAP AND LADDER CONNECTION

SECTION
SCALE: 1" = 1'-0"

E - LADDER STANDOFF (TOP VIEW)

SECTION
SCALE: 1" = 1'-0"

E1 - LADDER STANDOFF (SIDE VIEW)

UL 6090.5 SKIDEGATE CHANNEL E. NARROWS. DAYBEACON #2 OCT. 2003

ALUMINUM NOTES

1. FABRICATE ALL ALUMINUM IN CONFORMANCE WITH CAN3-S157-05 AND IN ACCORDANCE WITH DRAWINGS. USE THE MOST CURRENT OF ALL CODE REFERENCES.
2. FABRICATOR TO BE CERTIFIED UNDER CSA-W47.2 DIV 2 FOR FUSION WELDING OF ALUMINUM & CSA-W55.3 FOR RESISTANCE WELDING OF STRUCTURAL COMPONENTS.
3. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH CSA-W59.2
4. BAR, ROD WIRE, TUBES, PLATE & EXTRUDED SHAPES SHALL BE ALLOY GRADE 6061-T6.
5. ALL WELDING WIRE SHALL BE ALLOY GRADE 5356.
6. ALUMINUM TO BE CLEAR ANODIZED PRIOR TO FAB.
7. NO SHARP EDGES. GRIND AND SAND SMOOTH AS REQUIRED.
8. NO CUTTING OR HOLES EXCEPT AS SHOWN ON DRAWINGS.
9. MECHANICAL CONNECTIONS, STAINLESS STEEL CONFORMING TO AISI 316.
10. TWO COATS OF BITUMINOUS PAINT CONFORMING TO ASTM D1187 TYPE 1 SHALL BE USED WHEN ALUMINUM SURFACE IS IN CONTACT WITH CONCRETE.

LOCATION CHARTLET (PART OF 3891) N.T.S.

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

STRUCTURAL STEEL - CCG

1. SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16
2. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED" BY THE CANADIAN WELDING BUREAU UNDER CSA W47.1 FOR DIVISION 2
3. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
   .1 CHANNELS, ANGLES AND PLATE: CAN/CSA-G40.21, GR. 300W
   .2 HSS SECTIONS: CAN/CSA-G40.21, GR. 350W
   .3 COLD FORMED METAL: CAN/CSA-S136
   .4 STRUCTURAL BOLTS: ASTM-A325
   .5 ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
4. ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF CISC/CPMA 2-75 QUICK DRYING RED OXIDE SHOP PRIMER EXCEPT PARTS EMBEDDED IN CONCRETE SHALL NOT TO BE PAINTED.
5. ALL CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS. CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
6. BEAM CONNECTIONS SHALL BE STANDARD FRAME CONNECTIONS OR EQUAL PROPORTIONED FOR 60% OF THE VERTICAL SHEAR CORRESPONDING TO THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM.
7. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED PRIOR TO FABRICATION. SUBMIT 4 COPIES OF SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND FIT-UP OF ALL COMPONENTS.
8. BOLTS SHALL BE 3/4" DIAMETER AND BE DESIGNED FOR THREAD INCLUDED BEARING TYPE CONNECTION U.N.O.
9. GRIND ALL WELDS AND EDGES SMOOTH AS REQUIRED
10. ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET ..
11. HOT DIP GALVANIZING TO A123M MIN COATING 600g/m².
12. ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.

GENERAL NOTES

1. THESE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSTRUCTION DOCUMENTS. DEVIATION OF PROJECT CONSTRUCTION IS NOT ACCEPTABLE UNLESS INSTRUCTED BY THE ENGINEER.
2. ALL INFORMATION CONCERNING EXISTING SITE CONDITIONS HAVE BEEN TAKEN FROM ORIGINAL DRAWINGS AND SITE MEASUREMENTS. SHOULD INFORMATION OR SITE CONDITIONS DIFFER SIGNIFICANTLY FROM THAT SHOWN, ADVISE CCG ENGINEERING.
3. DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNLESS NOTED "FOR CONSTRUCTION".
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
5. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STRUCTURES AND BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
6. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT INSPECTIONS OR ACCEPT PHOTOS OF REINFORCING PRIOR TO THE PLACEMENT OF CONCRETE.
7. THREADROD EPOXY INSTALLATION IS TO BE HILTI HY-200 U.N.O. OR ENGINEERING APPROVED ALTERNATE
8. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT THE PULL TESTS IF NECESSARY

rev	description	by/par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6090.5 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #2

FIXED AID TO NAVIGATION

Drawing - Dessin

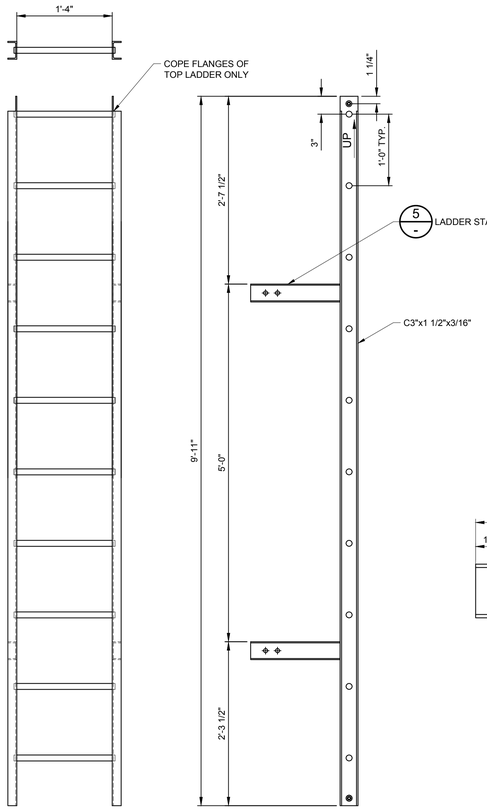
NAV-AID REBUILD

drawn - dessiné	date
TK/BR	2016-11-03
designed - conception	date
AW	2017-06-12
checked - vérifié	date
AW	2017-07-26
approved - approuvé	date
AW	2017-09-08
CCG ref. no. - no. réf. GCC	scale - échelle
AFI26	AS SHOWN
drawing no. - no. dessin	sheet-feuille / rev-rév
23980	01/02 / 0

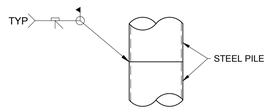
23980

K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6090.5 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #2 LOSS\DRAWINGS\UL 6090.5 SKIDEGATE CHANNEL E NARROWS DAYBEACON #2.DWG

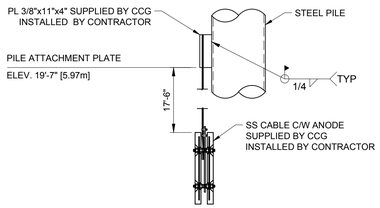
Arch D



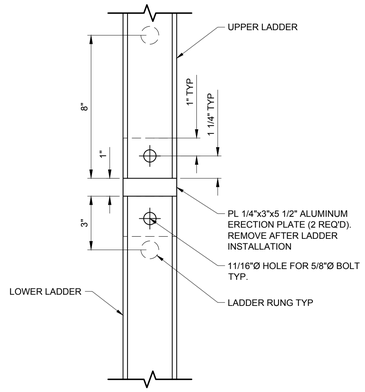
DETAIL 2/01 C3 ALUMINUM LADDER (2 REQUIRED)
SCALE: 1" = 1'-0"



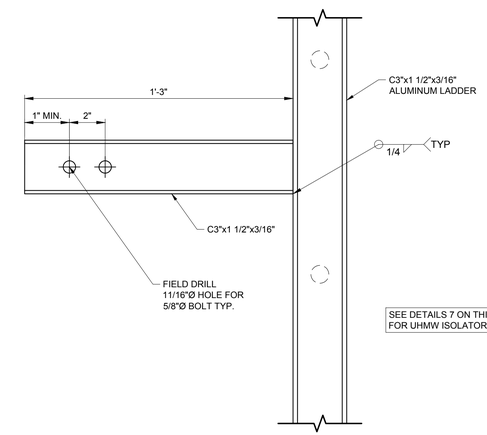
DETAIL 1/01 PILE SPLICE
SCALE: 1/2" = 1'-0"



DETAIL 3/01 ANODE SIDE VIEW
SCALE: 1/2" = 1'-0"

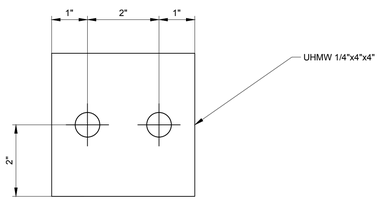


DETAIL 4/01 LADDER SPLICE
SCALE: 3" = 1'-0"

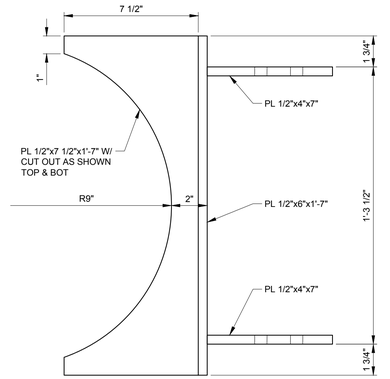


SEE DETAILS 7 ON THIS PAGE FOR UHMW ISOLATOR DETAILS

DETAIL 5/- LADDER STANDOFF
SCALE: 3" = 1'-0"



DETAIL 7/- UHMW ISOLATOR (8 REQUIRED)
SCALE: 6" = 1'-0"



DETAIL 8/01 CUSTOM STEEL CHANNEL (4 REQUIRED)
SCALE: 3" = 1'-0"

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

23980

rev	description	by / par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6090.5 SKIDEGATE CHANNEL
EAST NARROWS DAYBEACON #2

FIXED AID TO NAVIGATION

Drawing - Dessin

NAV-AID REBUILD

drawn - dessiné	date
TK/BR	2016-11-03
designed - conception	date
AW	2017-06-12
checked - vérifié	date
AW	2017-07-26
approved - approuvé	date
AW	2017-09-08
CCG ref. no. - no. réf. GCC	scale - échelle
AFI26	AS SHOWN
drawing no. - no. dessin	sheet-feuille / rev-rév
23980	02/02 / 0

K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6090.5 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #2 LOS\6DRAWING\SIUL 6090.5 SKIDEGATE CHANNEL E NARROWS DAYBEACON #2.DWG

Arch D

23980

(APPROX)

Ø1'-4"

PLAN

FOCAL HEIGHT (APPROX.)
ELEV. 24'-3" [7.38m]

BOTTOM OF DAYBOARD
ELEV. 22'-7" [6.89m]

HHWLT
ELEV. 21'-7" [6.58m]

EXISTING 16"Ø STEEL PILE TO BE FULLY EXTRACTED AFTER INSTALLATION OF PROPOSED PILE. IF PILE SNAPS DURING EXTRACTION, CONTRACTOR TO CUT OFF AT SEA FLOOR.

CHART DATUM
ELEV. 0" [0.00m]

SEA FLOOR (APPROX.)
ELEV. -7" [-0.18m]

ELEVATION

EXISTING A STEEL DOLPHIN
SCALE: 1/2" = 1'-0"

PILE ORIENTATION AND LOCATION TO BE CONFIRMED BY CCG REPRESENTATIVE IN THE FIELD

PILE APPROX. LOCATION:
LAT 53°08' 43.5" N
LONG 132°14' 31.3" W

3'-5" SQ.

FOCAL HEIGHT (APPROX.)
ELEV. 29'-5" [8.97m]

TOP OF PILE (APPROX.)
ELEV. 26'-7" [8.11m]

REFER TO DETAIL 3

HHWLT
ELEV. 21'-7" [6.58m]

ALUMINUM WORK PLATFORM SUPPLIED BY CCG. INSTALLED BY CONTRACTOR. SEE CCG DWG 24093

C

1/4"x42"x42" UHMW PLATE SUPPLIED BY CCG. INSTALLED BY CONTRACTOR

E

PL 1/2"x42"x42" PILE CAP SUPPLIED BY CCG. INSTALLED BY CONTRACTOR

1/02 ASTM A252 GR.3 18"Ø x 1/2" THICK PIPE PILE DRIVEN INTO GROUND. SEE DETAIL FOR SPLICE IF REQUIRED

2/02 2x 9'-11" LONG ALUMINUM LADDERS. SUPPLIED BY CCG. INSTALLED BY CONTRACTOR.

4/02 LADDER SPLICE DETAIL AS REQUIRED

3/02 ALUMINUM ANODE REFER TO DWG 20803

CHART DATUM
ELEV. 0" [0.00m]

SEA FLOOR (APPROX.)
ELEV. -7" [-0.18m]

MIN. PILE PENETRATION = 20'-0"

ELEVATION

PROPOSED B STEEL DOLPHIN
SCALE: 1/2" = 1'-0"

(APPROX)

2-1NM STARBOARD DAYBOARDS SUPPLIED AND INSTALLED BY CCG. NOT SHOWN IN ELEVATION VIEW.

STEEL PILE BELOW

C1 LADDER CONNECTION DETAIL

3'-5" SQ.

5/8"Ø SS BOLT, NYLOCK NUT AND WASHER TYP. (6 LOCATIONS)

D

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

C TOP OF HANDRAIL

ALUMINUM WORK PLATFORM

5/8"Ø SS BOLT, NYLOCK NUT AND WASHER TYP.

COPE FLANGES AT CONFLICT

C3 ALUMINUM LADDER

LADDER RUNG

DETAIL
SCALE: 6" = 1'-0"

C1 LADDER CONNECTION

PLATFORM ABOVE

STEEL PILE

8/02 CUSTOM STEEL CHANNEL

7/02 UHMW ISOLATOR

C3 ALUMINUM LADDER STANDOFF

ALUMINUM LADDER

E1

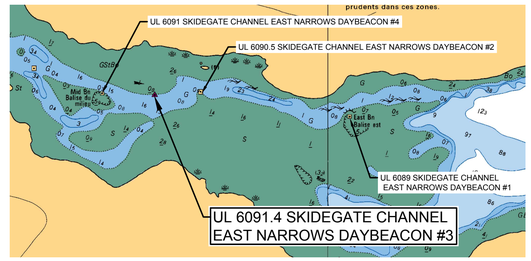
SECTION
SCALE: 1" = 1'-0"

E LADDER STANDOFF (TOP VIEW)

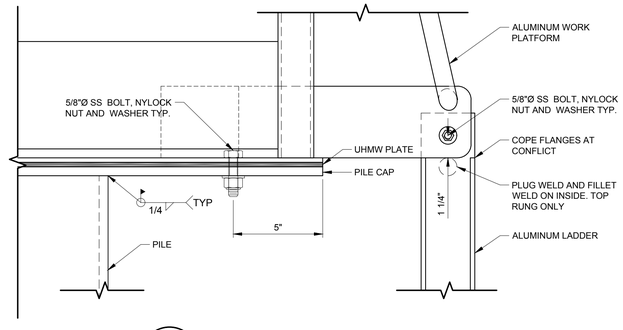
UL 6091.4 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #3 OCT. 2003

ALUMINUM NOTES

1. FABRICATE ALL ALUMINUM IN CONFORMANCE WITH CAN3-S157-05 AND IN ACCORDANCE WITH DRAWINGS. USE THE MOST CURRENT OF ALL CODE REFERENCES.
2. FABRICATOR TO BE CERTIFIED UNDER CSA-W47.2 DIV 2 FOR FUSION WELDING OF ALUMINUM & CSA-W55.3 FOR RESISTANCE WELDING OF STRUCTURAL COMPONENTS.
3. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH CSA-W59.2
4. BAR, ROD WIRE, TUBES, PLATE & EXTRUDED SHAPES SHALL BE ALLOY GRADE 6061-T6.
5. ALL WELDING WIRE SHALL BE ALLOY GRADE 5356.
6. ALUMINUM TO BE CLEAR ANODIZED PRIOR TO FAB.
7. NO SHARP EDGES. GRIND AND SAND SMOOTH AS REQUIRED.
8. NO CUTTING OR HOLES EXCEPT AS SHOWN ON DRAWINGS.
9. MECHANICAL CONNECTIONS, STAINLESS STEEL CONFORMING TO AISI 316.
10. TWO COATS OF BITUMINOUS PAINT CONFORMING TO ASTM D1187 TYPE 1 SHALL BE USED WHEN ALUMINUM SURFACE IS IN CONTACT WITH CONCRETE.

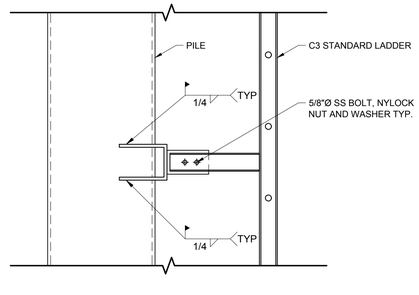


LOCATION CHARTLET (PART OF 3891) N.T.S.



SECTION
SCALE: 3" = 1'-0"

D PILE CAP AND LADDER CONNECTION



SECTION
SCALE: 1" = 1'-0"

E1 LADDER STANDOFF (SIDE VIEW)

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

23982

STRUCTURAL STEEL - CCG

1. SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16
2. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED" BY THE CANADIAN WELDING BUREAU UNLESS INSTRUCTED BY THE ENGINEER.
3. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
   - .1 CHANNELS, ANGLES AND PLATE: CAN/CSA-G40.21, GR. 300W
   - .2 HSS SECTIONS: CAN/CSA-G40.21, GR. 350W
   - .3 COLD FORMED METAL: CAN/CSA-S136
   - .4 STRUCTURAL BOLTS: ASTM-A325
   - .5 ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
4. ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF CISC/CPMA 2-75 QUICK DRYING RED OXIDE SHOP PRIMER EXCEPT PARTS EMBEDDED IN CONCRETE SHALL NOT TO BE PAINTED.
5. ALL CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS, CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
6. BEAM CONNECTIONS SHALL BE STANDARD FRAME CONNECTIONS OR EQUAL PROPORTIONED FOR 60% OF THE VERTICAL SHEAR CORRESPONDING TO THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM.
7. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED PRIOR TO FABRICATION. SUBMIT 4 COPIES OF SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND FIT-UP OF ALL COMPONENTS.
8. BOLTS SHALL BE 3/4" DIAMETER AND BE DESIGNED FOR THREAD INCLUDED BEARING TYPE CONNECTION U.N.O.
9. GRIND ALL WELDS AND EDGES SMOOTH AS REQUIRED
10. ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET
11. HOT DIP GALVANIZING TO A123M MIN COATING 600g/m².
12. ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.

GENERAL NOTES

1. THESE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSTRUCTION DOCUMENTS. DEVIATION OF PROJECT CONSTRUCTION IS NOT ACCEPTABLE UNLESS INSTRUCTED BY THE ENGINEER.
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3. DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNLESS NOTED "FOR CONSTRUCTION".
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
5. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STRUCTURES AND BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
6. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT INSPECTIONS OR ACCEPT PHOTOS OF REINFORCING PRIOR TO THE PLACEMENT OF CONCRETE.
7. THREADROD EPOXY INSTALLATION IS TO BE HILTI HY-200 U.N.O. OR ENGINEERING APPROVED ALTERNATE
8. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT THE PULL TESTS IF NECESSARY

rev	description	by / par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6091.4 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #3

FIXED AID TO NAVIGATION

Drawing - Dessin

NAV-AID REBUILD

drawn - dessiné	date
TK/BR	2016-11-03
designed - conception	date
AW	2017-06-12
checked - vérifié	date
AW	2017-07-26
approved - approuvé	date
AW	2017-09-08
CCG ref. no. - no. réf. GCC	scale - échelle
AFI26	AS SHOWN
drawing no. - no. dessin	sheet-feuille / rev-rév
23982	01/02 / 0

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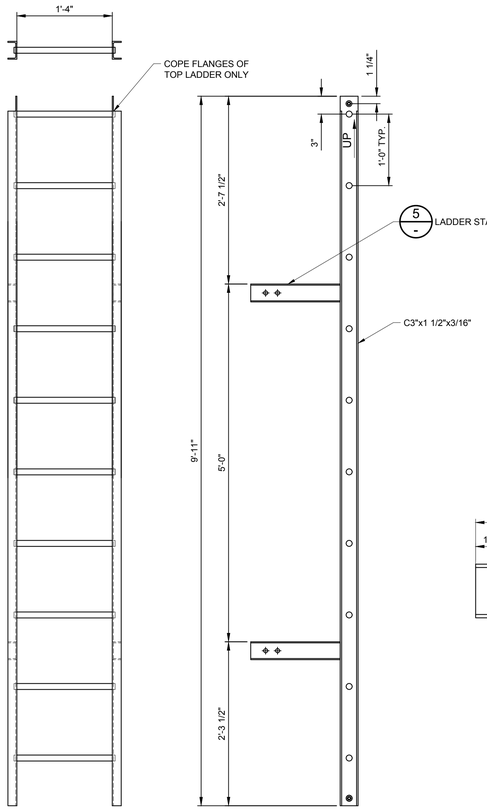
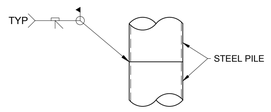
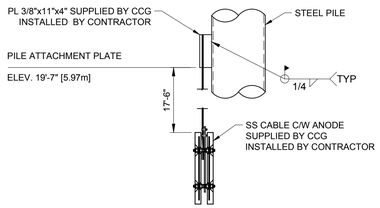
23982



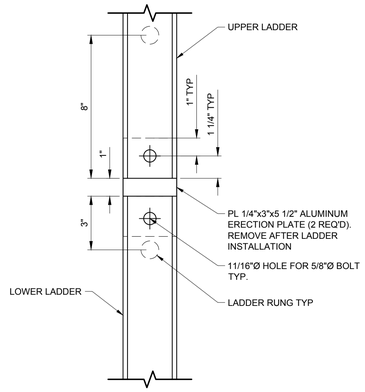
DETAIL 2/01 C3 ALUMINUM LADDER (2 REQUIRED)
SCALE: 1" = 1'-0"



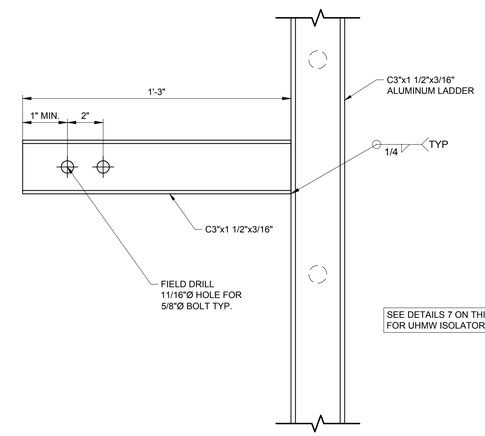
DETAIL 1/01 PILE SPLICE
SCALE: 1/2" = 1'-0"



DETAIL 3/01 ANODE SIDE VIEW
SCALE: 1/2" = 1'-0"

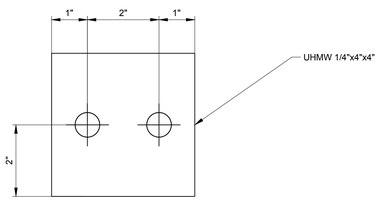


DETAIL 4/01 LADDER SPLICE
SCALE: 3" = 1'-0"

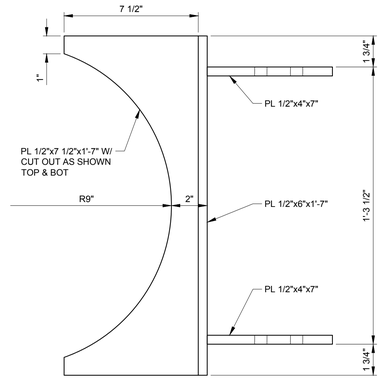


SEE DETAILS 7 ON THIS PAGE FOR UHMW ISOLATOR DETAILS

DETAIL 5/- LADDER STANDOFF
SCALE: 3" = 1'-0"



DETAIL 7/- UHMW ISOLATOR (8 REQUIRED)
SCALE: 6" = 1'-0"



DETAIL 8/01 CUSTOM STEEL CHANNEL (4 REQUIRED)
SCALE: 3" = 1'-0"

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Canadian Coast Guard / Garde côtière Canadienne

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rev	description	by par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6091.4 SKIDEGATE CHANNEL
EAST NARROWS DAYBEACON #3

FIXED AID TO NAVIGATION

Drawing - Dessin

NAV-AID REBUILD

drawn - dessiné	date
TK/BR	2016-11-03
designed - conception	date
AW	2017-06-12
checked - vérifié	date
AW	2017-07-26
approved - approuvé	date
AW	2017-09-08
CCG ref. no. - no. réf. GCC	scale - échelle
AFI26	AS SHOWN
drawing no. - no. dessin	sheet-feuille / rev-rév
23982	02/02 / 0

K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6091.4 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #3 LOS\DRAWINGS\UL 6091.4 SKIDEGATE CHANNEL E NARROWS DAYBEACON #3.DWG

Arch D

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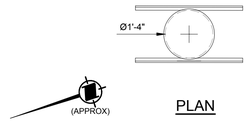
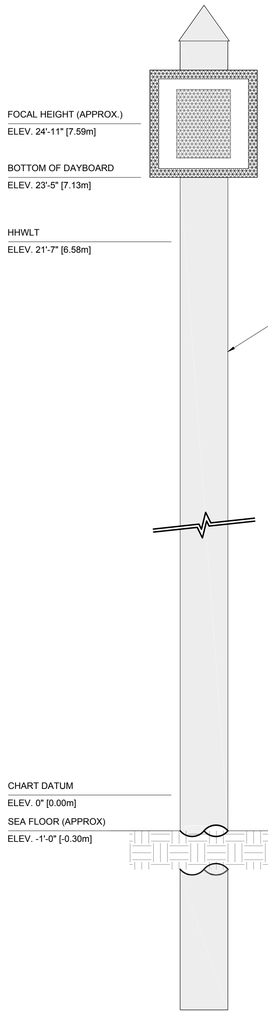


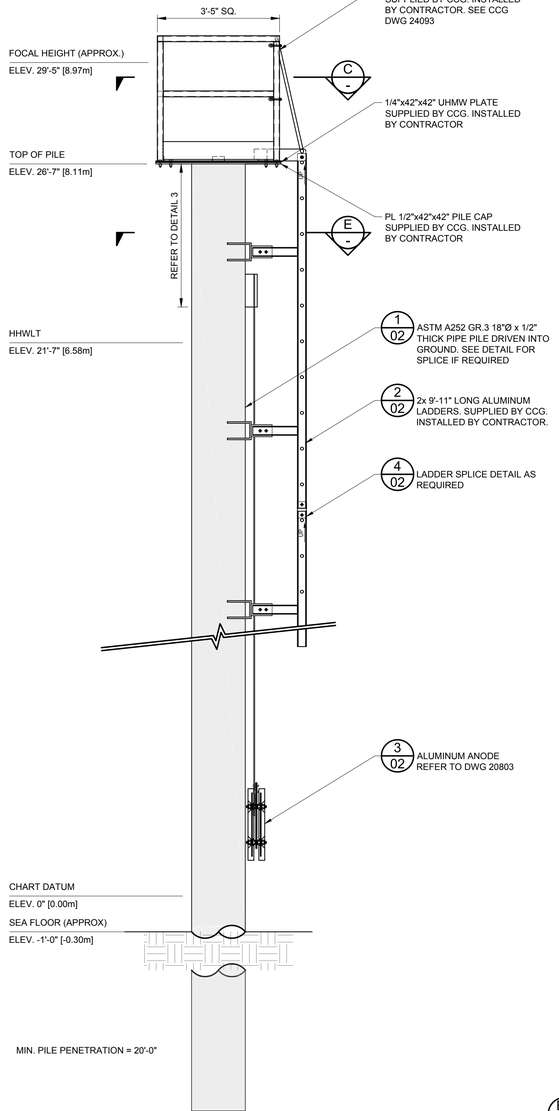
PLAN



ELEVATION

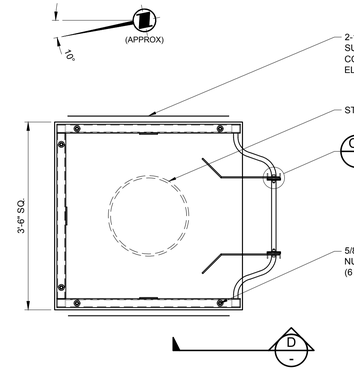
EXISTING A - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"

PILE ORIENTATION AND LOCATION TO BE CONFIRMED BY CCG REPRESENTATIVE IN THE FIELD



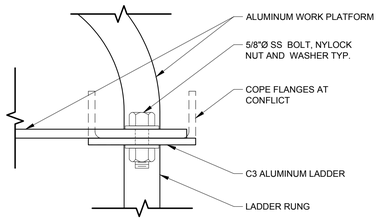
ELEVATION

PROPOSED B - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"



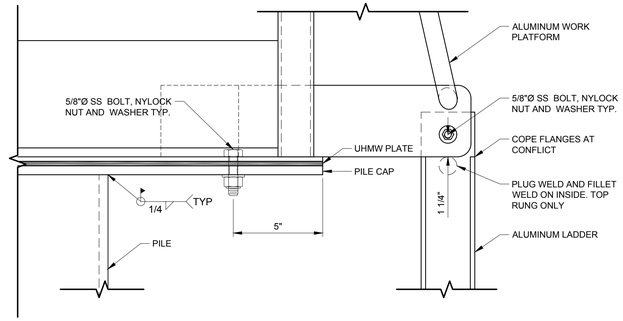
PLAN
SCALE: 3/4" = 1'-0"

C - TOP OF HANDRAIL



DETAIL C1 - LADDER CONNECTION
SCALE: 6" = 1'-0"

SECTION E - LADDER STANDOFF (TOP VIEW)
SCALE: 1" = 1'-0"



SECTION D - PILE CAP AND LADDER CONNECTION
SCALE: 3" = 1'-0"

SECTION E1 - LADDER STANDOFF (SIDE VIEW)
SCALE: 1" = 1'-0"

UL 6091.7 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #5 OCT. 2003

LOCATION CHARTLET (PART OF 3891) N.T.S.

ALUMINUM NOTES

1. FABRICATE ALL ALUMINUM IN CONFORMANCE WITH CAN3-S157-05 AND IN ACCORDANCE WITH DRAWINGS. USE THE MOST CURRENT OF ALL CODE REFERENCES.
2. FABRICATOR TO BE CERTIFIED UNDER CSA-W47.2 DIV 2 FOR FUSION WELDING OF ALUMINUM & CSA-W55.3 FOR RESISTANCE WELDING OF STRUCTURAL COMPONENTS.
3. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH CSA-W59.2
4. BAR, ROD WIRE, TUBES, PLATE & EXTRUDED SHAPES SHALL BE ALLOY GRADE 6061-T6.
5. ALL WELDING WIRE SHALL BE ALLOY GRADE 5356.
6. ALUMINUM TO BE CLEAR ANODIZED PRIOR TO FAB.
7. NO SHARP EDGES. GRIND AND SAND SMOOTH AS REQUIRED.
8. NO CUTTING OR HOLES EXCEPT AS SHOWN ON DRAWINGS.
9. MECHANICAL CONNECTIONS, STAINLESS STEEL CONFORMING TO AISI 316.
10. TWO COATS OF BITUMINOUS PAINT CONFORMING TO ASTM D1187 TYPE 1 SHALL BE USED WHEN ALUMINUM SURFACE IS IN CONTACT WITH CONCRETE.

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

STRUCTURAL STEEL - CCG

1. SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16
2. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED" BY THE CANADIAN WELDING BUREAU UNDER CSA W47.1 FOR DIVISION 2
3. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
   .1 CHANNELS, ANGLES AND PLATE: CAN/CSA-G40.21, GR. 300W
   .2 HSS SECTIONS: CAN/CSA-G40.21, GR. 350W
   .3 COLD FORMED METAL: CAN/CSA-S136
   .4 STRUCTURAL BOLTS: ASTM-A325
   .5 ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
4. ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF CISC/CPMA 2-75 QUICK DRYING RED OXIDE SHOP PRIMER EXCEPT PARTS EMBEDDED IN CONCRETE SHALL NOT TO BE PAINTED.
5. ALL CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS, CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
6. BEAM CONNECTIONS SHALL BE STANDARD FRAME CONNECTIONS OR EQUAL PROPORTIONED FOR 60% OF THE VERTICAL SHEAR CORRESPONDING TO THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM.
7. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED PRIOR TO FABRICATION. SUBMIT 4 COPIES OF SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND FIT-UP OF ALL COMPONENTS.
8. BOLTS SHALL BE 3/4" DIAMETER AND BE DESIGNED FOR THREAD INCLUDED BEARING TYPE CONNECTION U.N.O.
9. GRIND ALL WELDS AND EDGES SMOOTH AS REQUIRED
10. ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET ...
11. HOT DIP GALVANIZING TO A123M MIN COATING 600g/m².
12. ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.

GENERAL NOTES

1. THESE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSTRUCTION DOCUMENTS. DEVIATION OF PROJECT CONSTRUCTION IS NOT ACCEPTABLE UNLESS INSTRUCTED BY THE ENGINEER.
2. ALL INFORMATION CONCERNING EXISTING SITE CONDITIONS HAVE BEEN TAKEN FROM ORIGINAL DRAWINGS AND SITE MEASUREMENTS. SHOULD INFORMATION OR SITE CONDITIONS DIFFER SIGNIFICANTLY FROM THAT SHOWN, ADVISE CCG ENGINEERING.
3. DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNLESS NOTED "FOR CONSTRUCTION".
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
5. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STRUCTURES AND BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
6. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT INSPECTIONS OR ACCEPT PHOTOS OF REINFORCING PRIOR TO THE PLACEMENT OF CONCRETE.
7. THREADROD EPOXY INSTALLATION IS TO BE HILTI HY-200 U.N.O. OR ENGINEERING APPROVED ALTERNATE
8. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT THE PULL TESTS IF NECESSARY

rev	description	by par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6091.7 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #5

FIXED AID TO NAVIGATION

Drawing - Dessin

NAV-AID REBUILD

drawn - dessiné	date: TK/BR 2016-11-03
designed - conception	date: AW 2017-06-12
checked - vérifié	date: AW 2017-07-27
approved - approuvé	date: AW 2017-09-08
CCG ref. no. - no. réf. GCC	scale - échelle: AFI26 AS SHOWN
drawing no. - no. dessin	sheet-feuille: 01/02; rev-rév: 0

23983

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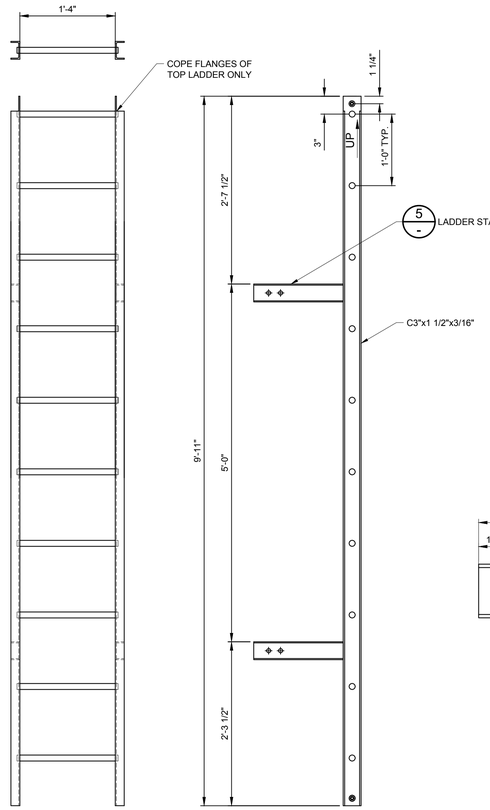
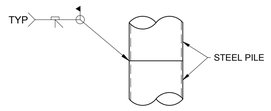
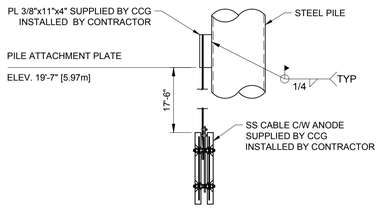
Arch D



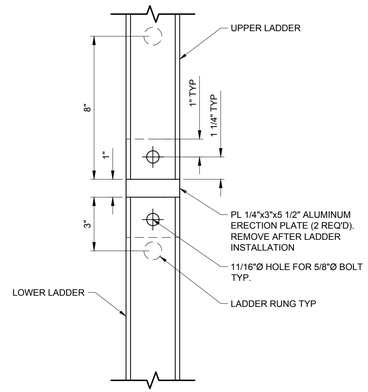
DETAIL 2/01 C3 ALUMINUM LADDER (2 REQUIRED)
SCALE: 1" = 1'-0"



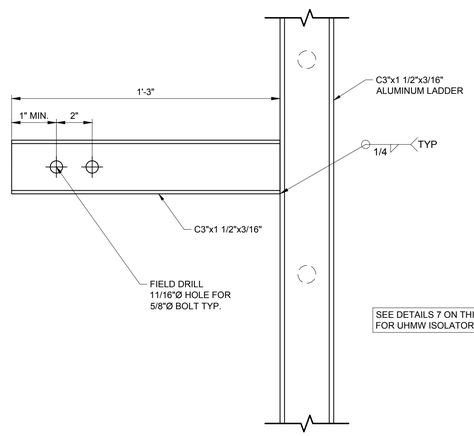
DETAIL 1/01 PILE SPLICE
SCALE: 1/2" = 1'-0"



DETAIL 3/01 ANODE SIDE VIEW
SCALE: 1/2" = 1'-0"

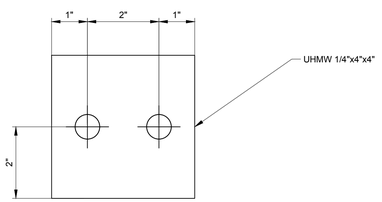


DETAIL 4/01 LADDER SPLICE
SCALE: 3" = 1'-0"



SEE DETAILS 7 ON THIS PAGE FOR UHMW ISOLATOR DETAILS

DETAIL 5/- LADDER STANDOFF
SCALE: 3" = 1'-0"



DETAIL 7/- UHMW ISOLATOR (8 REQUIRED)
SCALE: 6" = 1'-0"

DETAIL 8/01 CUSTOM STEEL CHANNEL (4 REQUIRED)
SCALE: 3" = 1'-0"

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

23983

0	FOR CONSTRUCTION	BR	2017-08-31
rev	description	by par	date

Asset - Actif

UL 6091.7 SKIDEGATE CHANNEL
EAST NARROWS DAYBEACON #5

FIXED AID TO NAVIGATION

Drawing - Dessin

NAV-AID REBUILD

drawn - dessiné	date
TK/BR	2016-11-03
designed - conception	date
AW	2017-06-12
checked - vérifié	date
AW	2017-07-27
approved - approuvé	date
AW	2017-09-08
CCG ref. no. - no. réf. GCC	scale - échelle
AFI26	AS SHOWN
drawing no. - no. dessin	sheet-feuille / rev-rév
23983	02/02 / 0

K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6091.7 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #5 LOSS\DRAWINGS\UL 6091.7 SKIDEGATE CHANNEL E NARROWS DAYBEACON #5.DWG

Arch D

23983

(APPROX)

Ø1'-4"

PLAN

FOCAL HEIGHT (APPROX.)
ELEV. 22'-10" [6.95m]

BOTTOM OF DAYBOARD
ELEV. 20'-10" [6.34m]

HHWLT
ELEV. 17'-6" [5.33m]

EXISTING 16"Ø STEEL PILE TO BE FULLY EXTRACTED AFTER INSTALLATION OF PROPOSED PILE. IF PILE SNAPS DURING EXTRACTION, CONTRACTOR TO CUT OFF AT SEA FLOOR.

CHART DATUM
ELEV. 0" [0.00m]

SEA FLOOR (APPROX)
ELEV. -5'-8" [-1.74m]

ELEVATION

EXISTING A - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"

PILE ORIENTATION AND LOCATION TO BE CONFIRMED BY CCG REPRESENTATIVE IN THE FIELD

PILE APPROX. LOCATION:
LAT 53°08' 47.9" N
LONG 132°18' 08.0" W

3'-5" SQ.

FOCAL HEIGHT (APPROX.)
ELEV. 25'-4" [7.72m]

TOP OF PILE (APPROX.)
ELEV. 22'-6" [6.86m]

REFER TO DETAIL 3

HHWLT
ELEV. 17'-6" [5.33m]

ALUMINUM WORK PLATFORM SUPPLIED BY CCG. INSTALLED BY CONTRACTOR. SEE CCG DWG 24093

C

1/4"x42"x42" UHMW PLATE SUPPLIED BY CCG. INSTALLED BY CONTRACTOR

E

PL 1/2"x42"x42" PILE CAP SUPPLIED BY CCG. INSTALLED BY CONTRACTOR

1/02 ASTM A252 GR.3 18"Ø x 1/2" THICK PIPE PILE DRIVEN INTO GROUND. SEE DETAIL FOR SPLICE IF REQUIRED

2/02 2x 9'-11" LONG ALUMINUM LADDERS. SUPPLIED BY CCG. INSTALLED BY CONTRACTOR.

4/02 LADDER SPLICE DETAIL AS REQUIRED

3/02 ALUMINUM ANODE REFER TO DWG 20803

CHART DATUM
ELEV. 0" [0.00m]

SEA FLOOR (APPROX)
ELEV. -5'-8" [-1.74m]

MIN. PILE PENETRATION = 20'-0"

ELEVATION

PROPOSED B - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"

(APPROX)

3'-5" SQ.

2-1NM STARBOARD DAYBOARDS SUPPLIED AND INSTALLED BY CCG. NOT SHOWN IN ELEVATION VIEW

STEEL PILE BELOW

C1 - LADDER CONNECTION DETAIL

5/8"Ø SS BOLT, NYLOCK NUT AND WASHER TYP. (6 LOCATIONS)

D -

PLAN

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

C - TOP OF HANDRAIL

ALUMINUM WORK PLATFORM

5/8"Ø SS BOLT, NYLOCK NUT AND WASHER TYP.

COPE FLANGES AT CONFLICT

C3 ALUMINUM LADDER

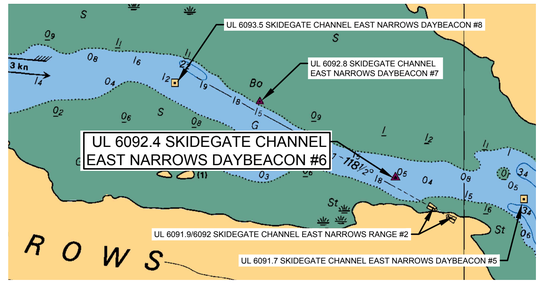
LADDER RUNG

DETAIL

SCALE: 6" = 1'-0"

C1 - LADDER CONNECTION

UL 6092.4 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #6 OCT. 2003



LOCATION CHARTLET (PART OF 3891) N.T.S.

ALUMINUM WORK PLATFORM

5/8"Ø SS BOLT, NYLOCK NUT AND WASHER TYP.

5/8"Ø SS BOLT, NYLOCK NUT AND WASHER TYP.

COPE FLANGES AT CONFLICT

UHMW PLATE

PILE CAP

PLUG WELD AND FILLET WELD ON INSIDE. TOP RUNG ONLY

1/4 TYP

5"

1 1/4"

PILE

ALUMINUM LADDER

SECTION

SCALE: 3" = 1'-0"

D - PILE CAP AND LADDER CONNECTION

PLATFORM ABOVE

STEEL PILE

8/02 CUSTOM STEEL CHANNEL

7/02 UHMW ISOLATOR

C3 ALUMINUM LADDER STANDOFF

ALUMINUM LADDER

E1 -

SECTION

SCALE: 1" = 1'-0"

E - LADDER STANDOFF (TOP VIEW)

PILE

C3 STANDARD LADDER

1/4 TYP

5/8"Ø SS BOLT, NYLOCK NUT AND WASHER TYP.

1/4 TYP

SECTION

SCALE: 1" = 1'-0"

E1 - LADDER STANDOFF (SIDE VIEW)

ALUMINUM NOTES

1. FABRICATE ALL ALUMINUM IN CONFORMANCE WITH CAN3-S157-05 AND IN ACCORDANCE WITH DRAWINGS. USE THE MOST CURRENT OF ALL CODE REFERENCES.
2. FABRICATOR TO BE CERTIFIED UNDER CSA-W47.2 DIV 2 FOR FUSION WELDING OF ALUMINUM & CSA-W55.3 FOR RESISTANCE WELDING OF STRUCTURAL COMPONENTS.
3. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH CSA-W59.2
4. BAR, ROD WIRE, TUBES, PLATE & EXTRUDED SHAPES SHALL BE ALLOY GRADE 6061-T6.
5. ALL WELDING WIRE SHALL BE ALLOY GRADE 5356.
6. ALUMINUM TO BE CLEAR ANODIZED PRIOR TO FAB.
7. NO SHARP EDGES. GRIND AND SAND SMOOTH AS REQUIRED.
8. NO CUTTING OR HOLES EXCEPT AS SHOWN ON DRAWINGS.
9. MECHANICAL CONNECTIONS, STAINLESS STEEL CONFORMING TO AISI 316.
10. TWO COATS OF BITUMINOUS PAINT CONFORMING TO ASTM D1187 TYPE 1 SHALL BE USED WHEN ALUMINUM SURFACE IS IN CONTACT WITH CONCRETE.

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

STRUCTURAL STEEL - CCG

1. SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16
2. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED" BY THE CANADIAN WELDING BUREAU UNDER CSA W47.1 FOR DIVISION 2
3. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
   - .1 CHANNELS, ANGLES AND PLATE: CAN/CSA-G40.21, GR. 300W
   - .2 HSS SECTIONS: CAN/CSA-G40.21, GR. 350W
   - .3 COLD FORMED METAL: CAN/CSA-S136
   - .4 STRUCTURAL BOLTS: ASTM-A325
   - .5 ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
4. ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF CISC/CPMA 2-75 QUICK DRYING RED OXIDE SHOP PRIMER EXCEPT PARTS EMBEDDED IN CONCRETE SHALL NOT TO BE PAINTED.
5. ALL CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS. CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
6. BEAM CONNECTIONS SHALL BE STANDARD FRAME CONNECTIONS OR EQUAL PROPORTIONED FOR 60% OF THE VERTICAL SHEAR CORRESPONDING TO THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM.
7. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED PRIOR TO FABRICATION. SUBMIT 4 COPIES OF SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND FIT-UP OF ALL COMPONENTS.
8. BOLTS SHALL BE 3/4" DIAMETER AND BE DESIGNED FOR THREAD INCLUDED BEARING TYPE CONNECTION U.N.O.
9. GRIND ALL WELDS AND EDGES SMOOTH AS REQUIRED
10. ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET
11. HOT DIP GALVANIZING TO A123M MIN COATING 600g/m².
12. ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.

GENERAL NOTES

1. THESE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSTRUCTION DOCUMENTS. DEVIATION OF PROJECT CONSTRUCTION IS NOT ACCEPTABLE UNLESS INSTRUCTED BY THE ENGINEER.
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3. DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNLESS NOTED "FOR CONSTRUCTION".
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
5. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STRUCTURES AND BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
6. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT INSPECTIONS OR ACCEPT PHOTOS OF REINFORCING PRIOR TO THE PLACEMENT OF CONCRETE.
7. THREADROD EPOXY INSTALLATION IS TO BE HILTI HY-200 U.N.O. OR ENGINEERING APPROVED ALTERNATE
8. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT THE PULL TESTS IF NECESSARY

rev	description	by/par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6092.4 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #6

FIXED AID TO NAVIGATION

Drawing - Dessin

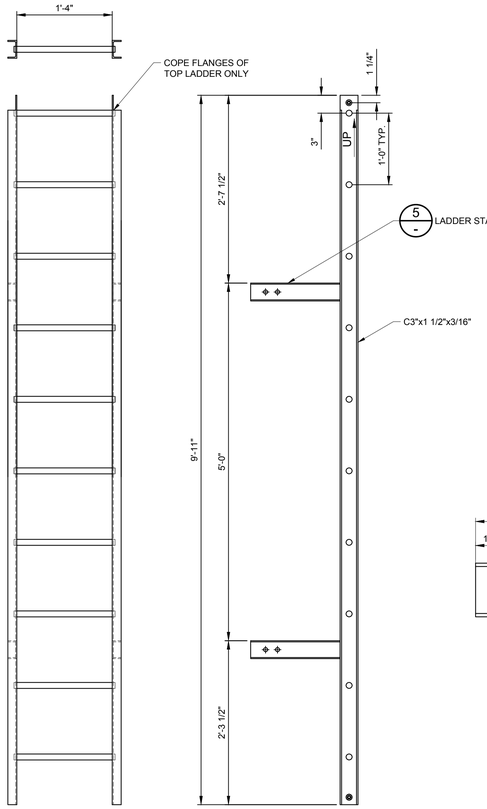
NAV-AID REBUILD

drawn - dessiné	date
TK/BR	2016-11-03
designed - conception	date
AW	2017-06-12
checked - vérifié	date
AW	2017-07-26
approved - approuvé	date
AW	2017-07-26
CCG ref. no. - no. réf. GCC	scale - échelle
AFI26	AS SHOWN
drawing no. - no. dessin	sheet-feuille / rev-rév
23984	01/02 / 0

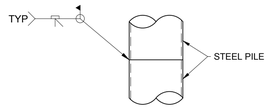
23984

K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6092.4 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #6 LOSS\DRAWINGS\UL 6092.4 SKIDEGATE CHANNEL E NARROWS DAYBEACON #6.DWG

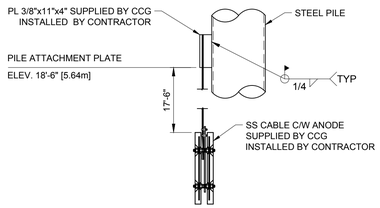
Arch D



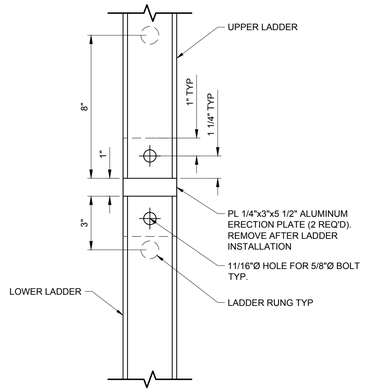
DETAIL 2/01 C3 ALUMINUM LADDER (2 REQUIRED)
SCALE: 1" = 1'-0"



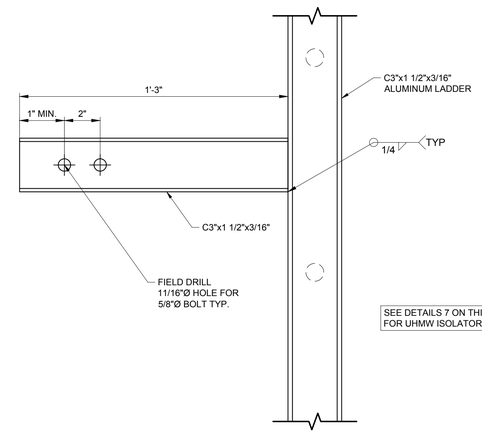
DETAIL 1/01 PILE SPLICE
SCALE: 1/2" = 1'-0"



DETAIL 3/01 ANODE SIDE VIEW
SCALE: 1/2" = 1'-0"

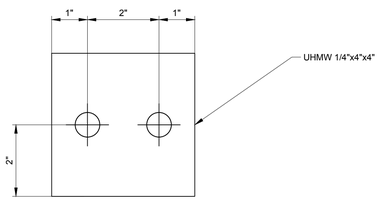


DETAIL 4/01 LADDER SPLICE
SCALE: 3" = 1'-0"



SEE DETAILS 7 ON THIS PAGE FOR UHMW ISOLATOR DETAILS

DETAIL 5/- LADDER STANDOFF
SCALE: 3" = 1'-0"



DETAIL 7/- UHMW ISOLATOR (8 REQUIRED)
SCALE: 6" = 1'-0"

DETAIL 8/01 CUSTOM STEEL CHANNEL (4 REQUIRED)
SCALE: 3" = 1'-0"

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Canadian Coast Guard / Garde côtière Canadienne

23984

rev	description	by / par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6092.4 SKIDEGATE CHANNEL
EAST NARROWS DAYBEACON #6

FIXED AID TO NAVIGATION

Drawing - Dessin

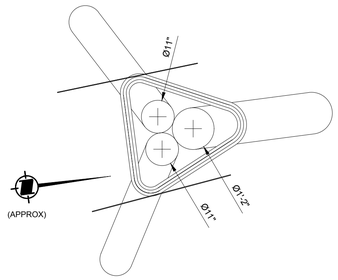
NAV-AID REBUILD

drawn - dessiné	date
TK/BR	2016-11-03
designed - conception	date
AW	2017-06-12
checked - vérifié	date
AW	2017-07-26
approved - approuvé	date
AW	2017-09-08
CCG ref. no. - no. réf. GCC	scale - échelle
AFI26	AS SHOWN
drawing no. - no. dessin	sheet-feuille / rev-rév
23984	02/02 / 0

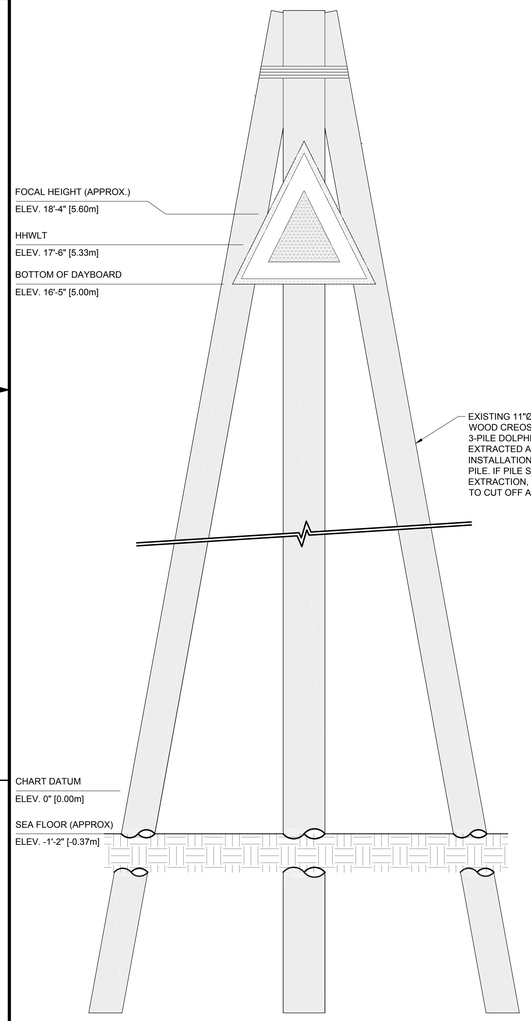
K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6092.4 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #6 LOS\DRAWINGS\UL 6092.4 SKIDEGATE CHANNEL E NARROWS DAYBEACON #6.DWG

Arch D

23984



PLAN

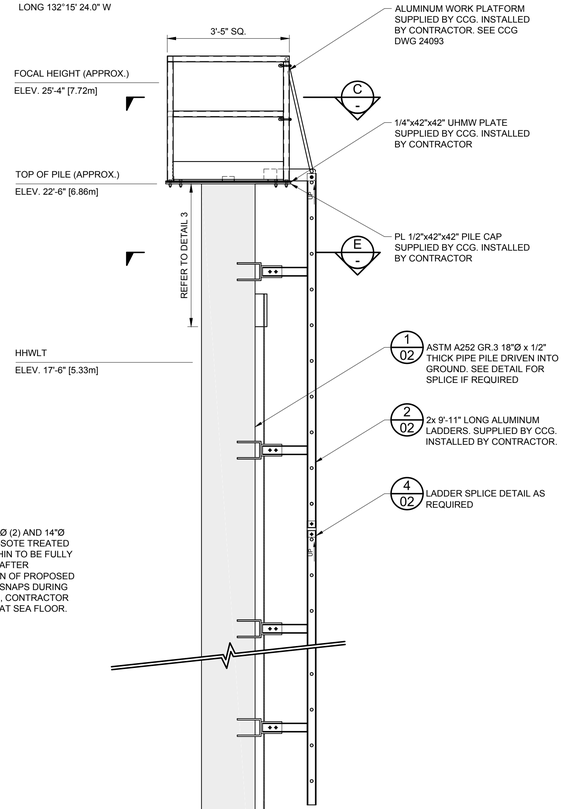


ELEVATION

EXISTING A - TIMBER DOLPHIN
SCALE: 1/2" = 1'-0"

PILE ORIENTATION AND LOCATION TO BE CONFIRMED BY CCG REPRESENTATIVE IN THE FIELD

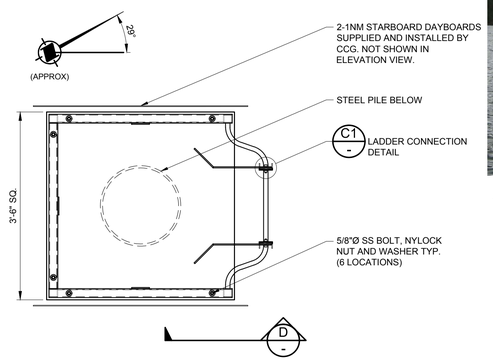
PILE APPROX. LOCATION:
LAT 53°08' 53.0" N
LONG 132°15' 24.0" W



MIN. PILE PENETRATION = 20'-0"

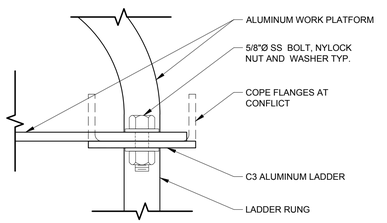
ELEVATION

PROPOSED B - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"



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

C - TOP OF HANDRAIL



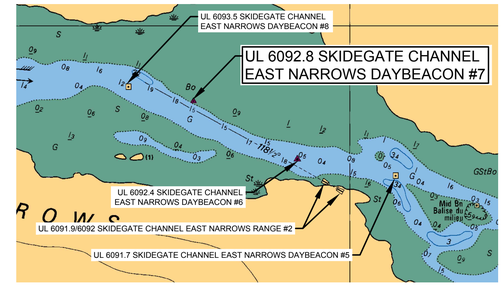
DETAIL
SCALE: 6" = 1'-0"

C1 - LADDER CONNECTION

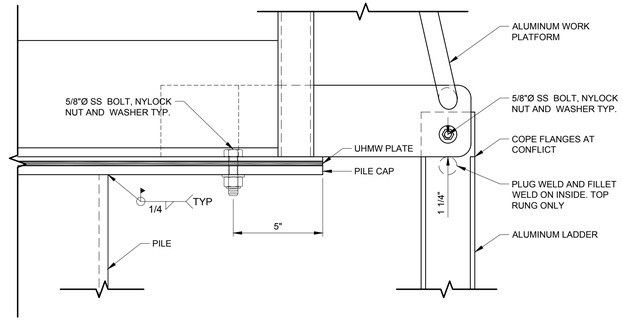
UL 6092.8 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #7 OCT. 2003

ALUMINUM NOTES

1. FABRICATE ALL ALUMINUM IN CONFORMANCE WITH CAN3-S157-05 AND IN ACCORDANCE WITH DRAWINGS. USE THE MOST CURRENT OF ALL CODE REFERENCES.
2. FABRICATOR TO BE CERTIFIED UNDER CSA-W47.2 DIV 2 FOR FUSION WELDING OF ALUMINUM & CSA-W55.3 FOR RESISTANCE WELDING OF STRUCTURAL COMPONENTS.
3. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH CSA-W59.2
4. BAR, ROD WIRE, TUBES, PLATE & EXTRUDED SHAPES SHALL BE ALLOY GRADE 6061-T6.
5. ALL WELDING WIRE SHALL BE ALLOY GRADE 5356.
6. ALUMINUM TO BE CLEAR ANODIZED PRIOR TO FAB.
7. NO SHARP EDGES. GRIND AND SAND SMOOTH AS REQUIRED.
8. NO CUTTING OR HOLES EXCEPT AS SHOWN ON DRAWINGS.
9. MECHANICAL CONNECTIONS, STAINLESS STEEL CONFORMING TO AISI 316.
10. TWO COATS OF BITUMINOUS PAINT CONFORMING TO ASTM D1187 TYPE 1 SHALL BE USED WHEN ALUMINUM SURFACE IS IN CONTACT WITH CONCRETE.

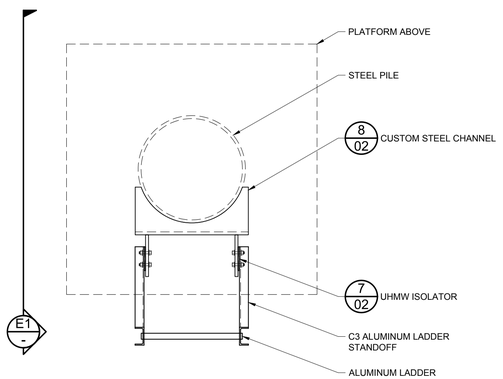


LOCATION CHARTLET (PART OF 3891) N.T.S.



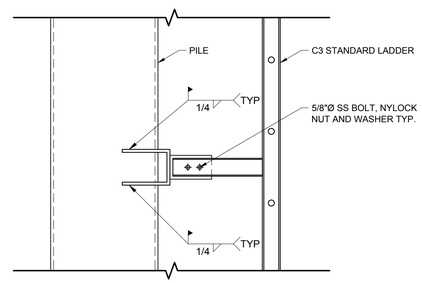
SECTION
SCALE: 3" = 1'-0"

D - PILE CAP AND LADDER CONNECTION



SECTION
SCALE: 1" = 1'-0"

E - LADDER STANDOFF (TOP VIEW)



SECTION
SCALE: 1" = 1'-0"

E1 - LADDER STANDOFF (SIDE VIEW)

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Canadian Coast Guard / Garde côtière Canadienne

23985

STRUCTURAL STEEL - CCG

1. SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16
2. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED" BY THE CANADIAN WELDING BUREAU UNDER CSA W47.1 FOR DIVISION 2
3. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
   - .1 CHANNELS, ANGLES AND PLATE: CAN/CSA-G40.21, GR. 300W
   - .2 HSS SECTIONS: CAN/CSA-G40.21, GR. 350W
   - .3 COLD FORMED METAL: CAN/CSA-S136
   - .4 STRUCTURAL BOLTS: ASTM-A325
   - .5 ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
4. ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF CISC/CPMA 2-75 QUICK DRYING RED OXIDE SHOP PRIMER EXCEPT PARTS EMBEDDED IN CONCRETE SHALL NOT TO BE PAINTED.
5. ALL CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS. CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
6. BEAM CONNECTIONS SHALL BE STANDARD FRAME CONNECTIONS OR EQUAL PROPORTIONED FOR 60% OF THE VERTICAL SHEAR CORRESPONDING TO THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM.
7. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED PRIOR TO FABRICATION. SUBMIT 4 COPIES OF SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND FIT-UP OF ALL COMPONENTS.
8. BOLTS SHALL BE 3/4" DIAMETER AND BE DESIGNED FOR THREAD INCLUDED BEARING TYPE CONNECTION U.N.O.
9. GRIND ALL WELDS AND EDGES SMOOTH AS REQUIRED
10. ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET ...
11. HOT DIP GALVANIZING TO A123M MIN COATING 600g/m².
12. ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.

GENERAL NOTES

1. THESE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSTRUCTION DOCUMENTS. DEVIATION OF PROJECT CONSTRUCTION IS NOT ACCEPTABLE UNLESS INSTRUCTED BY THE ENGINEER.
2. ALL INFORMATION CONCERNING EXISTING SITE CONDITIONS HAVE BEEN TAKEN FROM ORIGINAL DRAWINGS AND SITE MEASUREMENTS. SHOULD INFORMATION OR SITE CONDITIONS DIFFER SIGNIFICANTLY FROM THAT SHOWN, ADVISE CCG ENGINEERING.
3. DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNLESS NOTED "FOR CONSTRUCTION".
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
5. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STRUCTURES AND BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
6. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT INSPECTIONS OR ACCEPT PHOTOS OF REINFORCING PRIOR TO THE PLACEMENT OF CONCRETE.
7. THREADROD EPOXY INSTALLATION IS TO BE HILTI HY-200 U.N.O. OR ENGINEERING APPROVED ALTERNATE.
8. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT THE PULL TESTS IF NECESSARY

rev	description	by / par.	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6092.8 SKIDEGATE CHANNEL EAST NARROWS DAYBECON #7

FIXED AID TO NAVIGATION

Drawing - Dessin

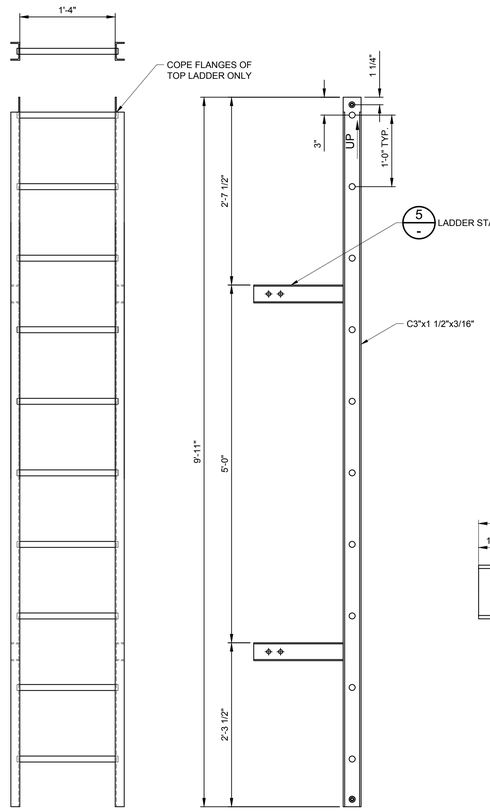
NAV-AID REBUILD

drawn - dessiné	date: TK/BR 2016-11-03
designed - conception	date: AW 2017-06-12
checked - vérifié	date: AW 2017-07-26
approved - approuvé	date: AW 2017-09-08
CCG ref. no. - no. réf. GCC: AFI26	scale - échelle: AS SHOWN
drawing no. - no. dessin: 23985	sheet-feuille: 01/02; rev-rév: C

Arch D

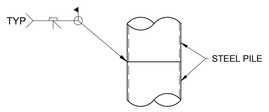
K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6092.8 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #7\ LOS\DRAWINGS\UL 6092.8 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #7.DWG

23985

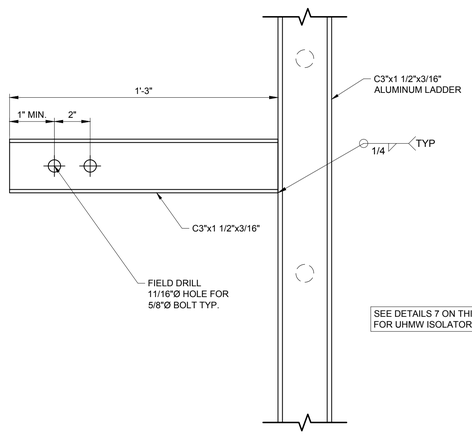


FRONT SIDE

DETAIL 2/01 C3 ALUMINUM LADDER (2 REQUIRED)
SCALE: 1" = 1'-0"

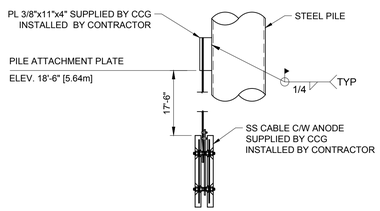


DETAIL 1/01 PILE SPLICE
SCALE: 1/2" = 1'-0"

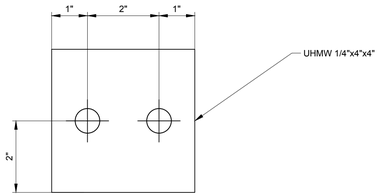


SEE DETAILS 7 ON THIS PAGE FOR UHMW ISOLATOR DETAILS

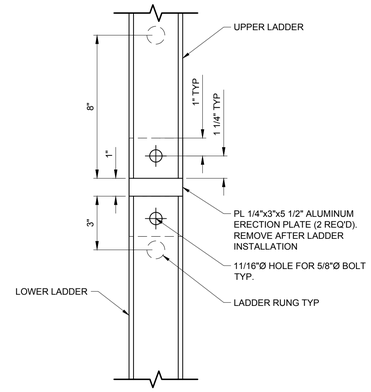
DETAIL 5/- LADDER STANDOFF
SCALE: 3" = 1'-0"



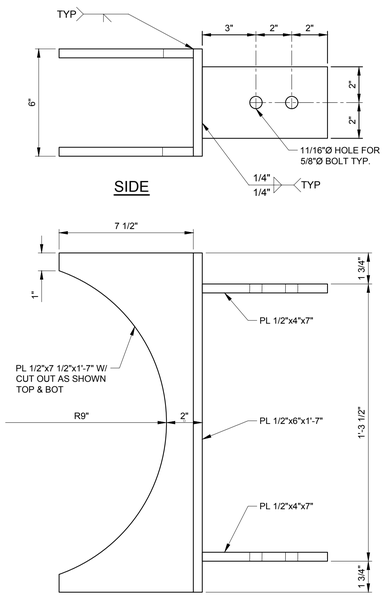
DETAIL 3/01 ANODE SIDE VIEW
SCALE: 1/2" = 1'-0"



DETAIL 7/- UHMW ISOLATOR (8 REQUIRED)
SCALE: 6" = 1'-0"



DETAIL 4/01 LADDER SPLICE
SCALE: 3" = 1'-0"



DETAIL 8/01 CUSTOM STEEL CHANNEL (4 REQUIRED)
SCALE: 3" = 1'-0"

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

23985

rev	description	by / par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6092.8 SKIDEGATE CHANNEL
EAST NARROWS DAYBECON #7

FIXED AID TO NAVIGATION

Drawing - Dessin

NAV-AID REBUILD

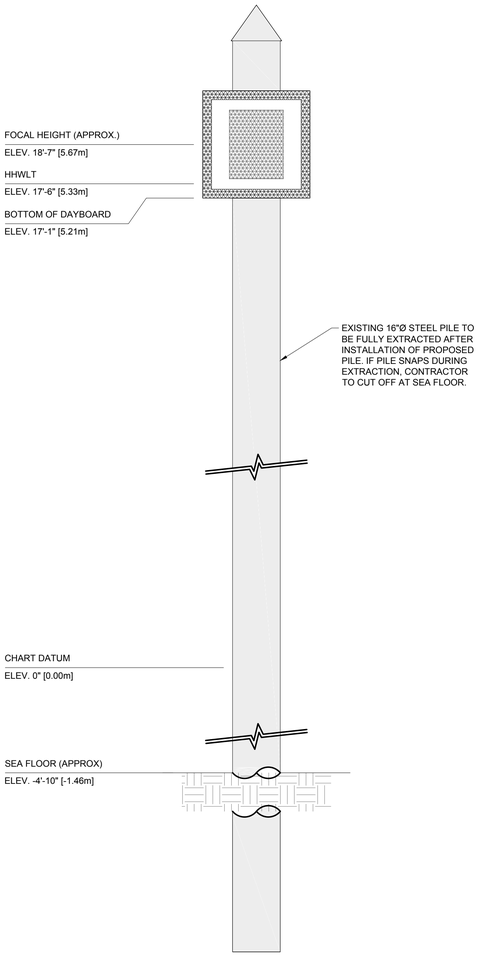
drawn - dessiné	date
TK/BR	2016-11-03
designed - conception	date
AW	2017-06-12
checked - vérifié	date
AW	2017-07-26
approved - approuvé	date
AW	2017-09-08
CCG ref. no. - no. réf. GCC	scale - échelle
AFI26	AS SHOWN
drawing no. - no. dessin	sheet-feuille / rev-rév
23985	02/02 / 0

K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6092.8 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #7 LOS\DRAWINGS\UL 6092.8 SKIDEGATE CHANNEL E NARROWS DAYBEACON #7.DWG

Arch D

23985

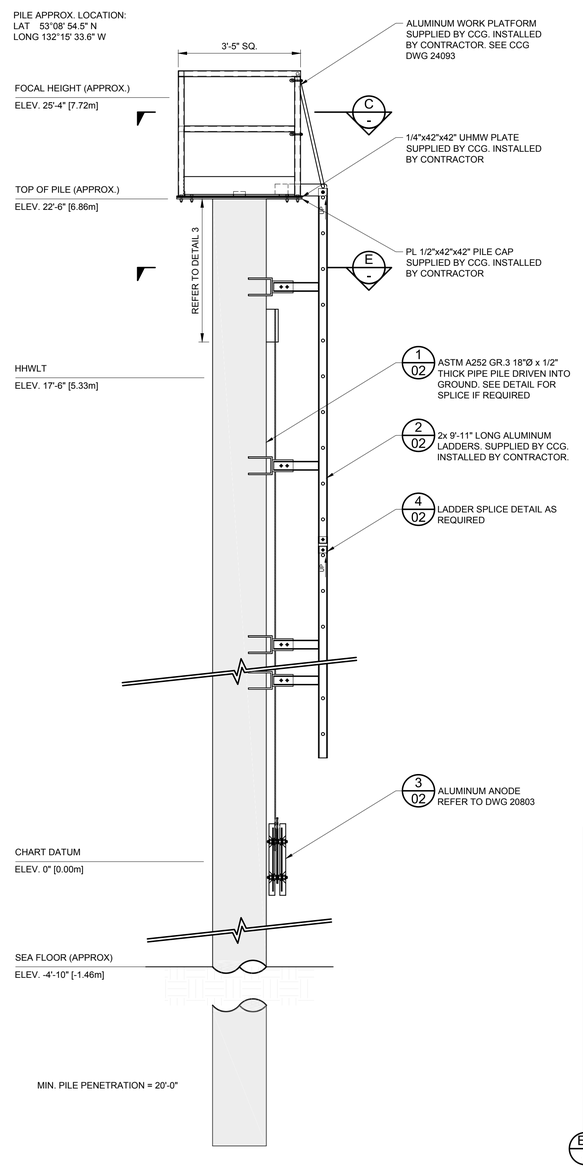
PLAN



ELEVATION

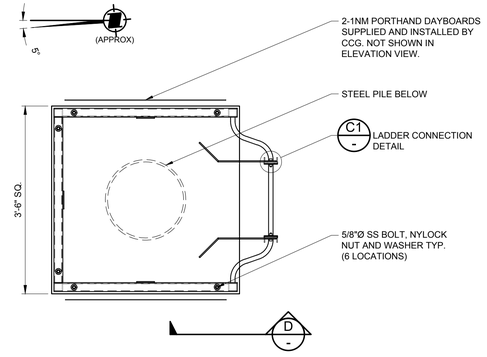
EXISTING A - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"

PILE ORIENTATION AND LOCATION TO BE CONFIRMED BY CCG REPRESENTATIVE IN THE FIELD



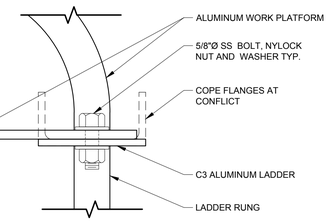
ELEVATION

PROPOSED B - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"



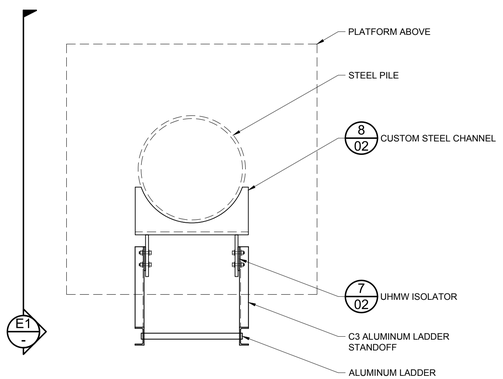
PLAN
SCALE: 3/4" = 1'-0"

C - TOP OF HANDRAIL

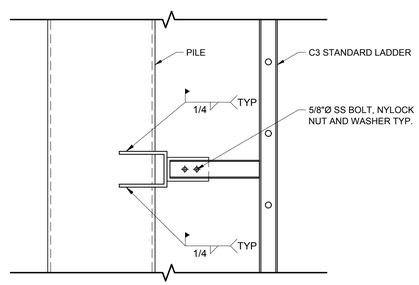


DETAIL C1 - LADDER CONNECTION
SCALE: 6" = 1'-0"

SECTION D - PILE CAP AND LADDER CONNECTION
SCALE: 3" = 1'-0"



SECTION E - LADDER STANDOFF (TOP VIEW)
SCALE: 1" = 1'-0"

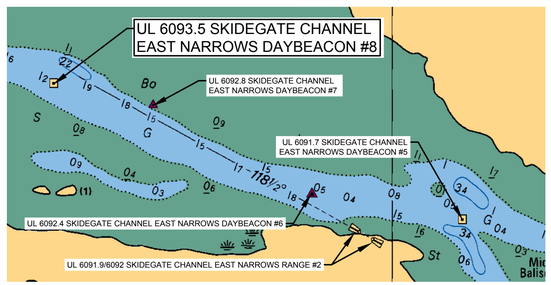


SECTION E1 - LADDER STANDOFF (SIDE VIEW)
SCALE: 1" = 1'-0"

UL 6093.5 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #8 OCT. 2003

ALUMINUM NOTES

1. FABRICATE ALL ALUMINUM IN CONFORMANCE WITH CAN3-S157-05 AND IN ACCORDANCE WITH DRAWINGS. USE THE MOST CURRENT OF ALL CODE REFERENCES.
2. FABRICATOR TO BE CERTIFIED UNDER CSA-W47.2 DIV 2 FOR FUSION WELDING OF ALUMINUM & CSA-W55.3 FOR RESISTANCE WELDING OF STRUCTURAL COMPONENTS.
3. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH CSA-W59.2
4. BAR, ROD WIRE, TUBES, PLATE & EXTRUDED SHAPES SHALL BE ALLOY GRADE 6061-T6.
5. ALL WELDING WIRE SHALL BE ALLOY GRADE 5356.
6. ALUMINUM TO BE CLEAR ANODIZED PRIOR TO FAB.
7. NO SHARP EDGES. GRIND AND SAND SMOOTH AS REQUIRED.
8. NO CUTTING OR HOLES EXCEPT AS SHOWN ON DRAWINGS.
9. MECHANICAL CONNECTIONS, STAINLESS STEEL CONFORMING TO AISI 316.
10. TWO COATS OF BITUMINOUS PAINT CONFORMING TO ASTM D1187 TYPE 1 SHALL BE USED WHEN ALUMINUM SURFACE IS IN CONTACT WITH CONCRETE.



LOCATION CHARTLET (PART OF 3891) N.T.S.

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

23986

STRUCTURAL STEEL - CCG

1. SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16
2. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED" BY THE CANADIAN WELDING BUREAU UNDER CSA W47.1 FOR DIVISION 2
3. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
   .1 CHANNELS, ANGLES AND PLATE: CAN/CSA-G40.21, GR. 300W
   .2 HSS SECTIONS: CAN/CSA-G40.21, GR. 350W
   .3 COLD FORMED METAL: CAN/CSA-S136
   .4 STRUCTURAL BOLTS: ASTM-A325
   .5 ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
4. ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF CISC/CPMA 2-75 QUICK DRYING RED OXIDE SHOP PRIMER EXCEPT PARTS EMBEDDED IN CONCRETE SHALL NOT TO BE PAINTED.
5. ALL CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS, CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
6. BEAM CONNECTIONS SHALL BE STANDARD FRAME CONNECTIONS OR EQUAL PROPORTIONED FOR 60% OF THE VERTICAL SHEAR CORRESPONDING TO THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM.
7. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED PRIOR TO FABRICATION. SUBMIT 4 COPIES OF SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND FIT-UP OF ALL COMPONENTS.
8. BOLTS SHALL BE 3/4" DIAMETER AND BE DESIGNED FOR THREAD INCLUDED BEARING TYPE CONNECTION U.N.O.
9. GRIND ALL WELDS AND EDGES SMOOTH AS REQUIRED
10. ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET
11. HOT DIP GALVANIZING TO A123M MIN COATING 600g/m².
12. ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.

GENERAL NOTES

1. THESE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSTRUCTION DOCUMENTS. DEVIATION OF PROJECT CONSTRUCTION IS NOT ACCEPTABLE UNLESS INSTRUCTED BY THE ENGINEER.
2. ALL INFORMATION CONCERNING EXISTING SITE CONDITIONS HAVE BEEN TAKEN FROM ORIGINAL DRAWINGS AND SITE MEASUREMENTS. SHOULD INFORMATION OR SITE CONDITIONS DIFFER SIGNIFICANTLY FROM THAT SHOWN, ADVISE CCG ENGINEERING.
3. DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNLESS NOTED "FOR CONSTRUCTION".
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
5. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STRUCTURES AND BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
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8. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT THE PULL TESTS IF NECESSARY

rev	description	by/par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6093.5 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #8

FIXED AID TO NAVIGATION

Drawing - Dessin

NAV-AID REBUILD

drawn - dessiné	date
TK/BR	2016-11-02
designed - conception	date
AW	2017-06-12
checked - vérifié	date
AW	2017-07-26
approved - approuvé	date
AW	2017-09-08
CCG ref. no. - no. réf. GCC	scale - échelle
AFI26	AS SHOWN
drawing no. - no. dessin	sheet-feuille / rev-rév
23986	01/02 / 0

K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6093.5 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #8 LOS\DRAWINGS\UL 6093.5 SKIDEGATE CHANNEL E NARROWS DAYBEACON #8.DWG

Arch D

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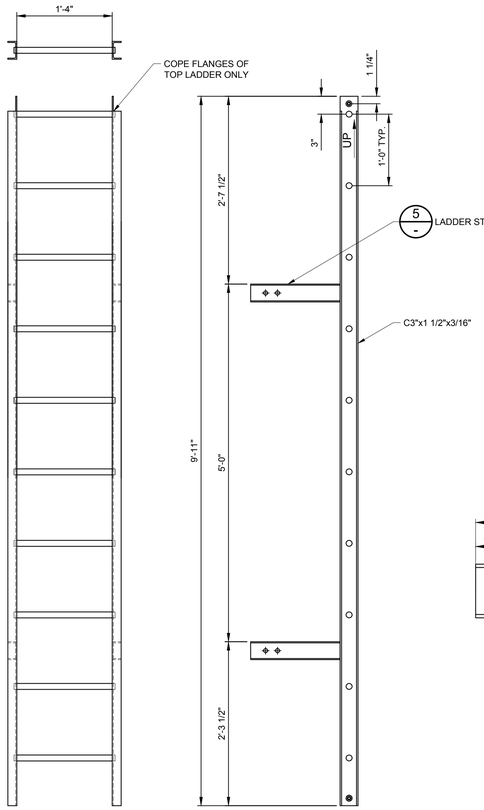
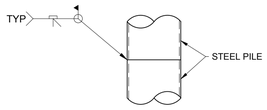
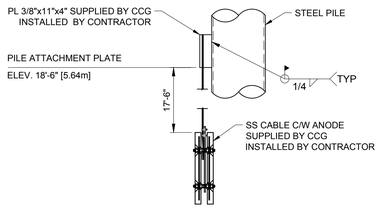


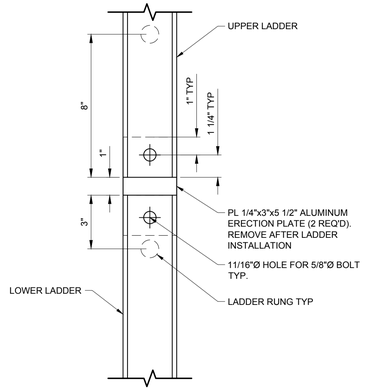
DETAIL 2/01 C3 ALUMINUM LADDER (2 REQUIRED)
SCALE: 1" = 1'-0"



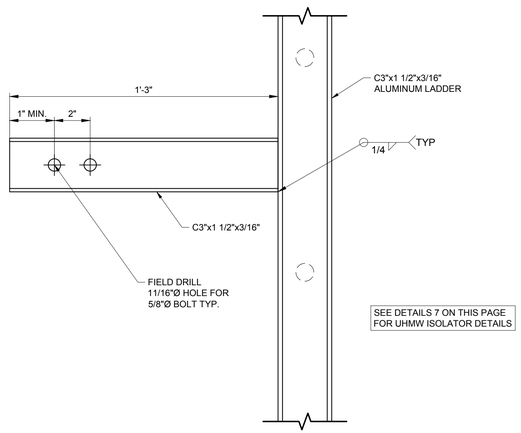
DETAIL 1/01 PILE SPLICE
SCALE: 1/2" = 1'-0"



DETAIL 3/01 ANODE SIDE VIEW
SCALE: 1/2" = 1'-0"

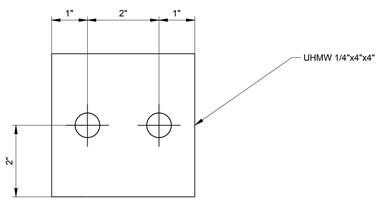


DETAIL 4/01 LADDER SPLICE
SCALE: 3" = 1'-0"

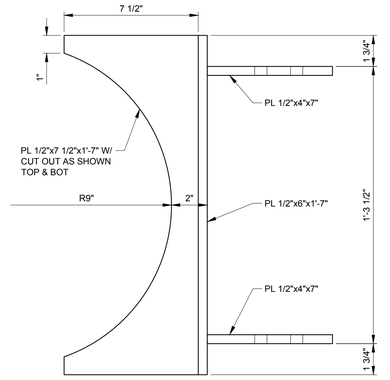


SEE DETAILS 7 ON THIS PAGE FOR UHMW ISOLATOR DETAILS

DETAIL 5/- LADDER STANDOFF
SCALE: 3" = 1'-0"



DETAIL 7/- UHMW ISOLATOR (8 REQUIRED)
SCALE: 6" = 1'-0"



DETAIL 8/01 CUSTOM STEEL CHANNEL (4 REQUIRED)
SCALE: 3" = 1'-0"

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

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rev	description	by / par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif
UL 6093.5 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #8

FIXED AID TO NAVIGATION

Drawing - Dessin

NAV-AID REBUILD

drawn - dessiné	date
TK/BR	2016-11-02
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AW	2017-07-26
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CCG ref. no. - no. réf. GCC	scale - échelle
AFI26	AS SHOWN
drawing no. - no. dessin	sheet-feuille / rev-rév
23986	02/02 / 0

K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6093.5 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #8 LOS\DRAWINGS\UL 6093.5 SKIDEGATE CHANNEL E NARROWS DAYBEACON #8.DWG

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(APPROX)

Ø1'-4"

PLAN

PILE ORIENTATION AND LOCATION TO BE CONFIRMED BY CCG REPRESENTATIVE IN THE FIELD

PILE APPROX. LOCATION:
LAT 53°08' 54.9" N
LONG 132°15' 59.9" W

3'-5" SQ.

FOCAL HEIGHT (APPROX.)
ELEV. 25'-4" [7.72m]

TOP OF PILE (APPROX.)
ELEV. 22'-6" [6.86m]

REFER TO DETAIL 3

HHWLT
ELEV. 17'-6" [5.33m]

ALUMINUM WORK PLATFORM SUPPLIED BY CCG. INSTALLED BY CONTRACTOR. SEE CCG DWG 24093

C

1/4"x42"x42" UHMW PLATE SUPPLIED BY CCG. INSTALLED BY CONTRACTOR

E

PL 1/2"x42"x42" PILE CAP SUPPLIED BY CCG. INSTALLED BY CONTRACTOR

1/02 ASTM A252 GR.3 18"Ø x 1/2" THICK PIPE PILE DRIVEN INTO GROUND. SEE DETAIL FOR SPLICE IF REQUIRED

2/02 2x 9'-11" LONG ALUMINUM LADDERS. SUPPLIED BY CCG. INSTALLED BY CONTRACTOR.

4/02 LADDER SPLICE DETAIL AS REQUIRED

3/02 ALUMINUM ANODE REFER TO DWG 20803

FOCAL HEIGHT (APPROX.)
ELEV. 17'-11" [5.45m]

HHWLT
ELEV. 17'-6" [5.33m]

BOTTOM OF DAYBOARD
ELEV. 15'-11" [4.84m]

EXISTING 16"Ø STEEL PILE TO BE FULLY EXTRACTED AFTER INSTALLATION OF PROPOSED PILE. IF PILE SNAPS DURING EXTRACTION, CONTRACTOR TO CUT OFF AT SEA FLOOR.

CHART DATUM
ELEV. 0" [0.00m]

SEA FLOOR (APPROX)
ELEV. -7'-0" [-2.13m]

MIN. PILE PENETRATION = 20'-0"

ELEVATION

EXISTING A - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"

ELEVATION

PROPOSED B - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"

(APPROX)

2-1NM STARBOARD DAYBOARDS SUPPLIED AND INSTALLED BY CCG. NOT SHOWN IN ELEVATION VIEW.

STEEL PILE BELOW

C1 - LADDER CONNECTION DETAIL

3'-5" SQ.

5/8"Ø SS BOLT, NYLOCK NUT AND WASHER TYP. (6 LOCATIONS)

D -

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

C - TOP OF HANDRAIL

ALUMINUM WORK PLATFORM

5/8"Ø SS BOLT, NYLOCK NUT AND WASHER TYP.

COPE FLANGES AT CONFLICT

C3 ALUMINUM LADDER

LADDER RUNG

DETAIL C1 - LADDER CONNECTION
SCALE: 6" = 1'-0"

PLATFORM ABOVE

STEEL PILE

8/02 CUSTOM STEEL CHANNEL

7/02 UHMW ISOLATOR

C3 ALUMINUM LADDER STANDOFF

ALUMINUM LADDER

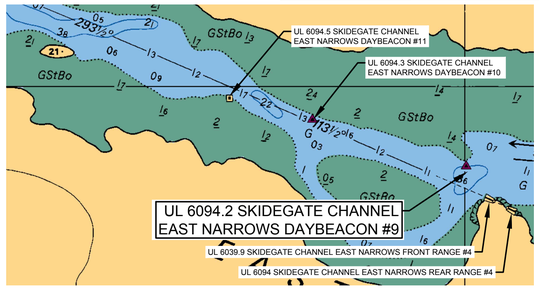
E1 -

SECTION E - LADDER STANDOFF (TOP VIEW)
SCALE: 1" = 1'-0"

UL 6094.2 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #9 OCT. 2003

ALUMINUM NOTES

1. FABRICATE ALL ALUMINUM IN CONFORMANCE WITH CAN3-S157-05 AND IN ACCORDANCE WITH DRAWINGS. USE THE MOST CURRENT OF ALL CODE REFERENCES.
2. FABRICATOR TO BE CERTIFIED UNDER CSA-W47.2 DIV 2 FOR FUSION WELDING OF ALUMINUM & CSA-W55.3 FOR RESISTANCE WELDING OF STRUCTURAL COMPONENTS.
3. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH CSA-W59.2
4. BAR, ROD WIRE, TUBES, PLATE & EXTRUDED SHAPES SHALL BE ALLOY GRADE 6061-T6.
5. ALL WELDING WIRE SHALL BE ALLOY GRADE 5356.
6. ALUMINUM TO BE CLEAR ANODIZED PRIOR TO FAB.
7. NO SHARP EDGES. GRIND AND SAND SMOOTH AS REQUIRED.
8. NO CUTTING OR HOLES EXCEPT AS SHOWN ON DRAWINGS.
9. MECHANICAL CONNECTIONS, STAINLESS STEEL CONFORMING TO AISI 316.
10. TWO COATS OF BITUMINOUS PAINT CONFORMING TO ASTM D1187 TYPE 1 SHALL BE USED WHEN ALUMINUM SURFACE IS IN CONTACT WITH CONCRETE.



LOCATION CHARTLET (PART OF 3891) N.T.S.

ALUMINUM WORK PLATFORM

5/8"Ø SS BOLT, NYLOCK NUT AND WASHER TYP.

5/8"Ø SS BOLT, NYLOCK NUT AND WASHER TYP.

COPE FLANGES AT CONFLICT

UHMW PLATE

PILE CAP

PLUG WELD AND FILLET WELD ON INSIDE. TOP RUNG ONLY

1/4 TYP

5"

1 1/4"

PILE

ALUMINUM LADDER

SECTION D - PILE CAP AND LADDER CONNECTION
SCALE: 3" = 1'-0"

PILE

C3 STANDARD LADDER

1/4 TYP

5/8"Ø SS BOLT, NYLOCK NUT AND WASHER TYP.

1/4 TYP

SECTION E1 - LADDER STANDOFF (SIDE VIEW)
SCALE: 1" = 1'-0"

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STRUCTURAL STEEL - CCG

1. SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16
2. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED" BY THE CANADIAN WELDING BUREAU UNDER CSA W47.1 FOR DIVISION 2
3. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
   - .1 CHANNELS, ANGLES AND PLATE: CAN/CSA-G40.21, GR. 300W
   - .2 HSS SECTIONS: CAN/CSA-G40.21, GR. 350W
   - .3 COLD FORMED METAL: CAN/CSA-S136
   - .4 STRUCTURAL BOLTS: ASTM-A325
   - .5 ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
4. ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF CISC/CPMA 2-75 QUICK DRYING RED OXIDE SHOP PRIMER EXCEPT PARTS EMBEDDED IN CONCRETE SHALL NOT TO BE PAINTED.
5. ALL CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS, CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
6. BEAM CONNECTIONS SHALL BE STANDARD FRAME CONNECTIONS OR EQUAL PROPORTIONED FOR 60% OF THE VERTICAL SHEAR CORRESPONDING TO THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM.
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rev	description	by / par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6094.2 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #9

FIXED AID TO NAVIGATION

Drawing - Dessin

NAV-AID REBUILD

drawn - dessiné	date: TK/BR 2016-11-04
designed - conception	date: AW 2017-06-12
checked - vérifié	date: AW 2017-07-26
approved - approuvé	date: AW 2017-09-08
CCG ref. no. - no. réf. GCC	scale - échelle: AFI26 AS SHOWN
drawing no. - no. dessin	sheet-feuille: 23989 01/02
	rev-rév: 0

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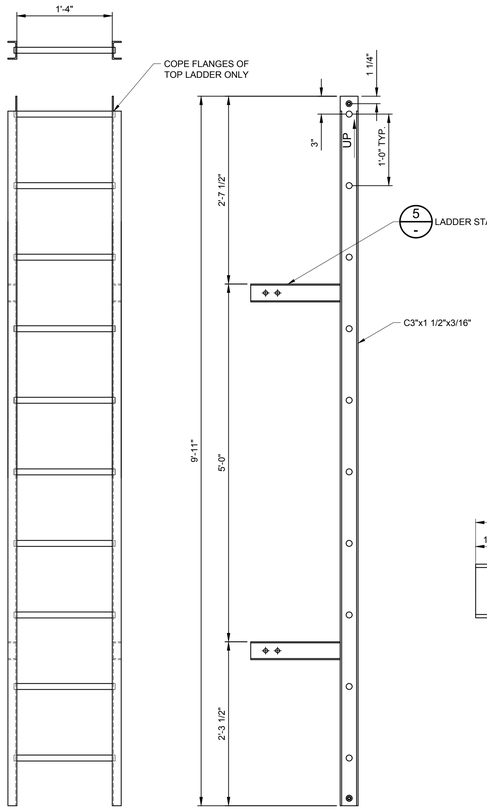
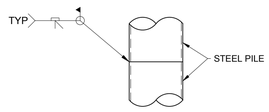
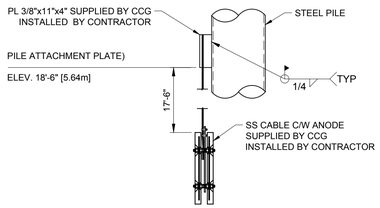


FRONT SIDE

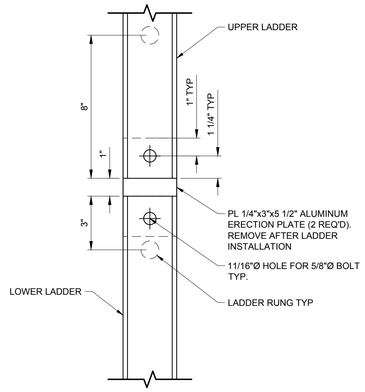
DETAIL 2 / 01 — C3 ALUMINUM LADDER (2 REQUIRED)
SCALE: 1" = 1'-0"



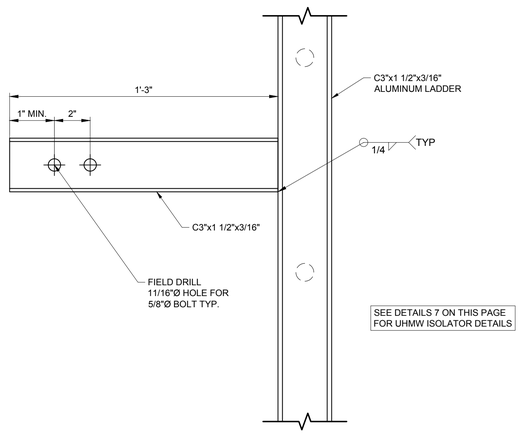
DETAIL 1 / 01 — PILE SPLICE
SCALE: 1/2" = 1'-0"



DETAIL 3 / 01 — ANODE SIDE VIEW
SCALE: 1/2" = 1'-0"

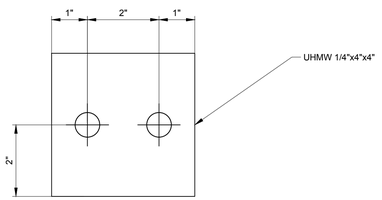


DETAIL 4 / 01 — LADDER SPLICE
SCALE: 3" = 1'-0"



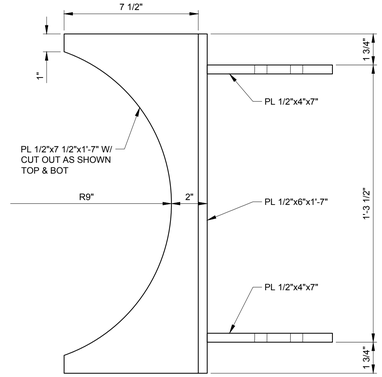
SEE DETAILS 7 ON THIS PAGE FOR UHMW ISOLATOR DETAILS

DETAIL 5 / - — LADDER STANDOFF
SCALE: 3" = 1'-0"



DETAIL 7 / - — UHMW ISOLATOR (8 REQUIRED)
SCALE: 6" = 1'-0"

SIDE



TOP

DETAIL 8 / 01 — CUSTOM STEEL CHANNEL (4 REQUIRED)
SCALE: 3" = 1'-0"

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

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Asset - Actif

UL 6094.2 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #9

FIXED AID TO NAVIGATION

Drawing - Dessin

NAV-AID REBUILD

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AFI26	AS SHOWN
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23989	02/02 / 0

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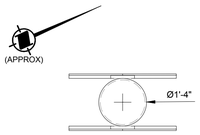
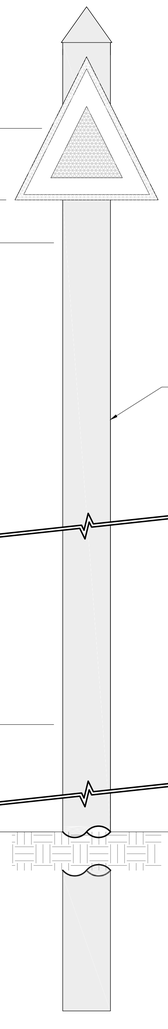


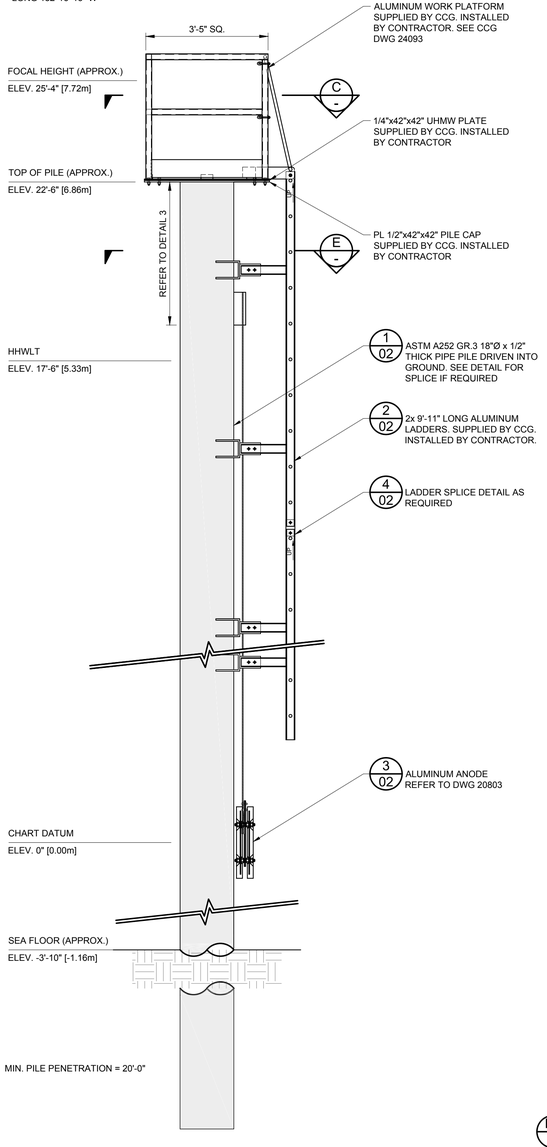
PLAN



ELEVATION

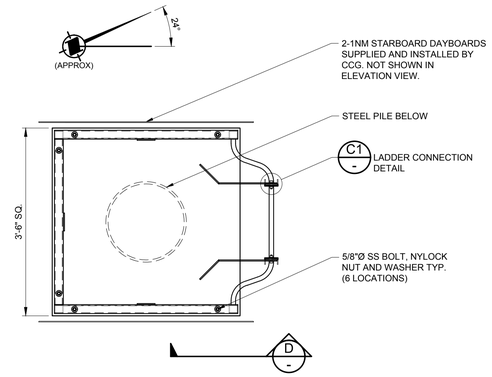
EXISTING A - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"

PILE ORIENTATION AND LOCATION TO BE CONFIRMED BY CCG REPRESENTATIVE IN THE FIELD



ELEVATION

PROPOSED B - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"



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

C - TOP OF HANDRAIL

DETAIL
SCALE: 6" = 1'-0"

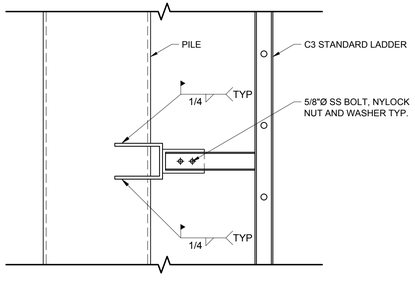
C1 - LADDER CONNECTION

SECTION
SCALE: 3" = 1'-0"

D - PILE CAP AND LADDER CONNECTION

SECTION
SCALE: 1" = 1'-0"

E - LADDER STANDOFF (TOP VIEW)



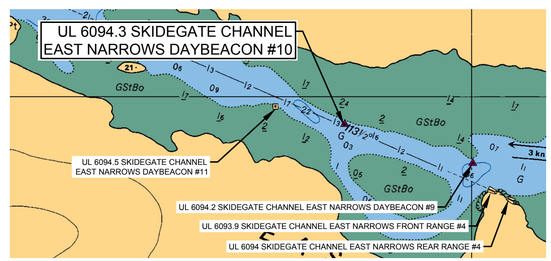
SECTION
SCALE: 1" = 1'-0"

E1 - LADDER STANDOFF (SIDE VIEW)

UL 6094.3 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #10 OCT. 2003

ALUMINUM NOTES

1. FABRICATE ALL ALUMINUM IN CONFORMANCE WITH CAN3-S157-05 AND IN ACCORDANCE WITH DRAWINGS. USE THE MOST CURRENT OF ALL CODE REFERENCES.
2. FABRICATOR TO BE CERTIFIED UNDER CSA-W47.2 DIV 2 FOR FUSION WELDING OF ALUMINUM & CSA-W55.3 FOR RESISTANCE WELDING OF STRUCTURAL COMPONENTS.
3. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH CSA-W59.2
4. BAR, ROD WIRE, TUBES, PLATE & EXTRUDED SHAPES SHALL BE ALLOY GRADE 6061-T6.
5. ALL WELDING WIRE SHALL BE ALLOY GRADE 5356.
6. ALUMINUM TO BE CLEAR ANODIZED PRIOR TO FAB.
7. NO SHARP EDGES. GRIND AND SAND SMOOTH AS REQUIRED.
8. NO CUTTING OR HOLES EXCEPT AS SHOWN ON DRAWINGS.
9. MECHANICAL CONNECTIONS, STAINLESS STEEL CONFORMING TO AISI 316.
10. TWO COATS OF BITUMINOUS PAINT CONFORMING TO ASTM D1187 TYPE 1 SHALL BE USED WHEN ALUMINUM SURFACE IS IN CONTACT WITH CONCRETE.



LOCATION CHARTLET (PART OF 3891) N.T.S.

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

23990

STRUCTURAL STEEL - CCG

1. SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16
2. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED" BY THE CANADIAN WELDING BUREAU UNDER CSA W47.1 FOR DIVISION 2
3. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
   - .1 CHANNELS, ANGLES AND PLATE: CAN/CSA-G40.21, GR. 300W
   - .2 HSS SECTIONS: CAN/CSA-G40.21, GR. 350W
   - .3 COLD FORMED METAL: CAN/CSA-S136
   - .4 STRUCTURAL BOLTS: ASTM-A325
   - .5 ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
4. ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF CISC/CPMA 2-75 QUICK DRYING RED OXIDE SHOP PRIMER EXCEPT PARTS EMBEDDED IN CONCRETE SHALL NOT TO BE PAINTED.
5. ALL CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS, CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
6. BEAM CONNECTIONS SHALL BE STANDARD FRAME CONNECTIONS OR EQUAL PROPORTIONED FOR 60% OF THE VERTICAL SHEAR CORRESPONDING TO THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM.
7. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED PRIOR TO FABRICATION. SUBMIT 4 COPIES OF SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND FIT-UP OF ALL COMPONENTS.
8. BOLTS SHALL BE 3/4" DIAMETER AND BE DESIGNED FOR THREAD INCLUDED BEARING TYPE CONNECTION U.N.O.
9. GRIND ALL WELDS AND EDGES SMOOTH AS REQUIRED
10. ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET
11. HOT DIP GALVANIZING TO A123M MIN COATING 600g/m².
12. ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.

GENERAL NOTES

1. THESE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSTRUCTION DOCUMENTS. DEVIATION OF PROJECT CONSTRUCTION IS NOT ACCEPTABLE UNLESS INSTRUCTED BY THE ENGINEER.
2. ALL INFORMATION CONCERNING EXISTING SITE CONDITIONS HAVE BEEN TAKEN FROM ORIGINAL DRAWINGS AND SITE MEASUREMENTS. SHOULD INFORMATION OR SITE CONDITIONS DIFFER SIGNIFICANTLY FROM THAT SHOWN, ADVISE CCG ENGINEERING.
3. DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNLESS NOTED "FOR CONSTRUCTION".
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
5. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STRUCTURES AND BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
6. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT INSPECTIONS OR ACCEPT PHOTOS OF REINFORCING PRIOR TO THE PLACEMENT OF CONCRETE.
7. THREADROD EPOXY INSTALLATION IS TO BE HILTI HY-200 U.N.O. OR ENGINEERING APPROVED ALTERNATE
8. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT THE PULL TESTS IF NECESSARY

rev	description	by / par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6094.3 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #10

FIXED AID TO NAVIGATION

Drawing - Dessin

NAV-AID REBUILD

drawn - dessiné	date: TK/BR 2016-11-04
designed - conception	date: AW 2017-06-12
checked - vérifié	date: AW 2017-07-26
approved - approuvé	date: AW 2017-09-08
CCG ref. no. - no. réf. GCC	scale - échelle: AFI26 AS SHOWN
drawing no. - no. dessin	sheet-feuille: 01/02; rev-rév: 0

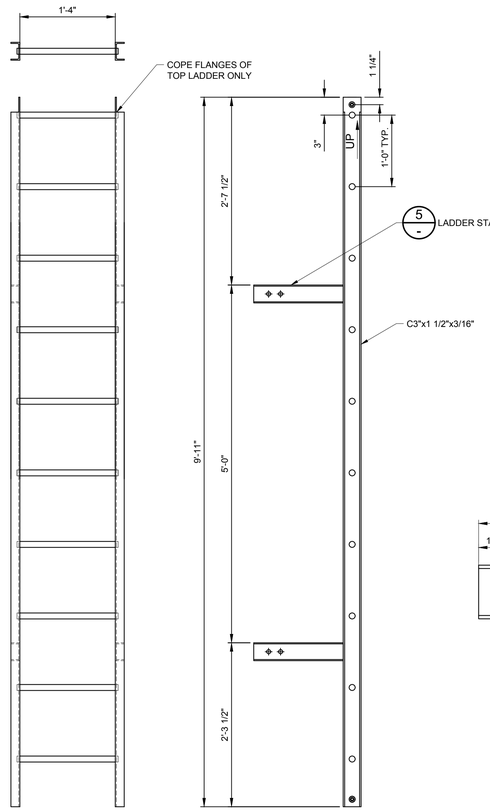
23990

K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6094.3 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #10 LOS\DRAWINGS\UL 6094.3 SKIDEGATE CHANNEL E NARROWS DAYBEACON #10.DWG

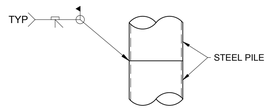
Arch D

23990

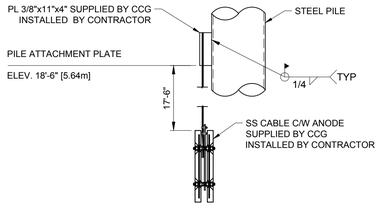
inches 0 1 2 4 5 6 pouces
millimeters 0 1 2 3 4 5 7 8 9 10 11 12 millimètres
6 5 4 3 2 1
D C B A



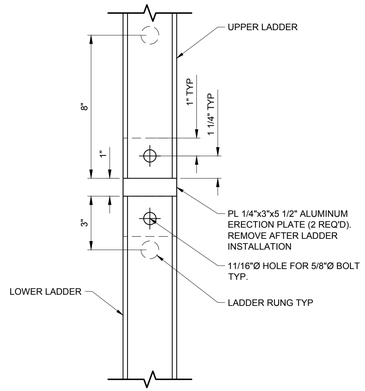
DETAIL 2/01 C3 ALUMINUM LADDER (2 REQUIRED)
SCALE:1" = 1'-0"



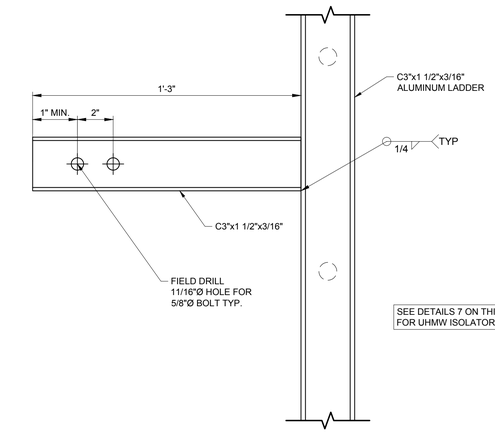
DETAIL 1/01 PILE SPLICE
SCALE:1/2" = 1'-0"



DETAIL 3/01 ANODE SIDE VIEW
SCALE:1/2" = 1'-0"

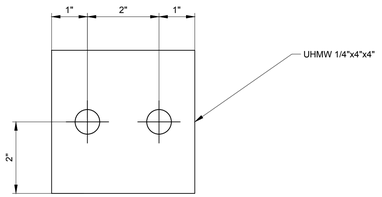


DETAIL 4/01 LADDER SPLICE
SCALE:3" = 1'-0"

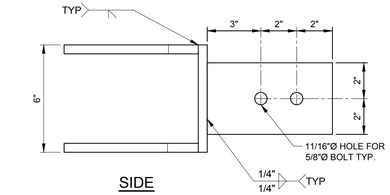


SEE DETAILS 7 ON THIS PAGE
FOR UHMW ISOLATOR DETAILS

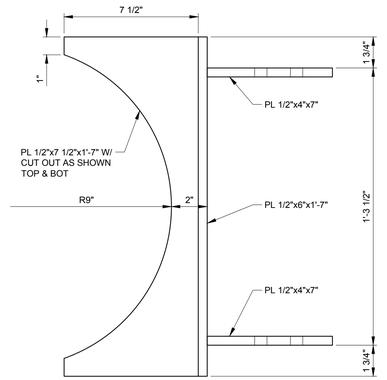
DETAIL 5/- LADDER STANDOFF
SCALE:3" = 1'-0"



DETAIL 7/- UHMW ISOLATOR (8 REQUIRED)
SCALE:6" = 1'-0"



SIDE



TOP

DETAIL 8/01 CUSTOM STEEL CHANNEL (4 REQUIRED)
SCALE:3" = 1'-0"

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Canadian Coast Guard / Garde côtière Canadienne

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rev	description	by/par.	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif
UL 6094.3 SKIDEGATE CHANNEL
EAST NARROWS DAYBEACON #10

FIXED AID TO NAVIGATION

Drawing - Dessin

NAV-AID REBUILD

	date
drawn - dessiné: TK/BR	2016-11-04
designed - conception: AW	2017-06-12
checked - vérifié: AW	2017-07-26
approved - approuvé: AW	2017-09-08

CCG ref. no. - no. réf. GCC	scale - échelle
AFI26	AS SHOWN

drawing no. - no. dessin	sheet-feuille	rev-rév
23990	02/02	0

K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6094.3 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #10 LOS\DRAWINGS\UL 6094.3 SKIDEGATE CHANNEL E NARROWS DAYBEACON #10.DWG

Arch D

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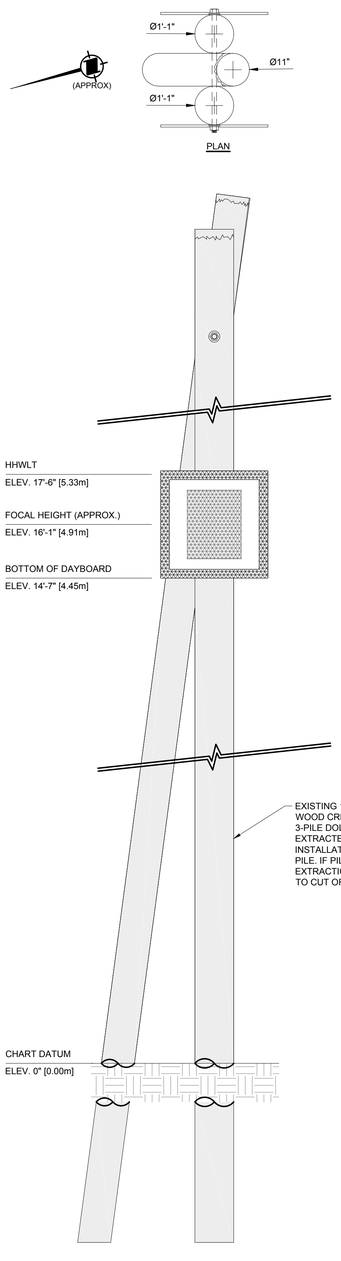
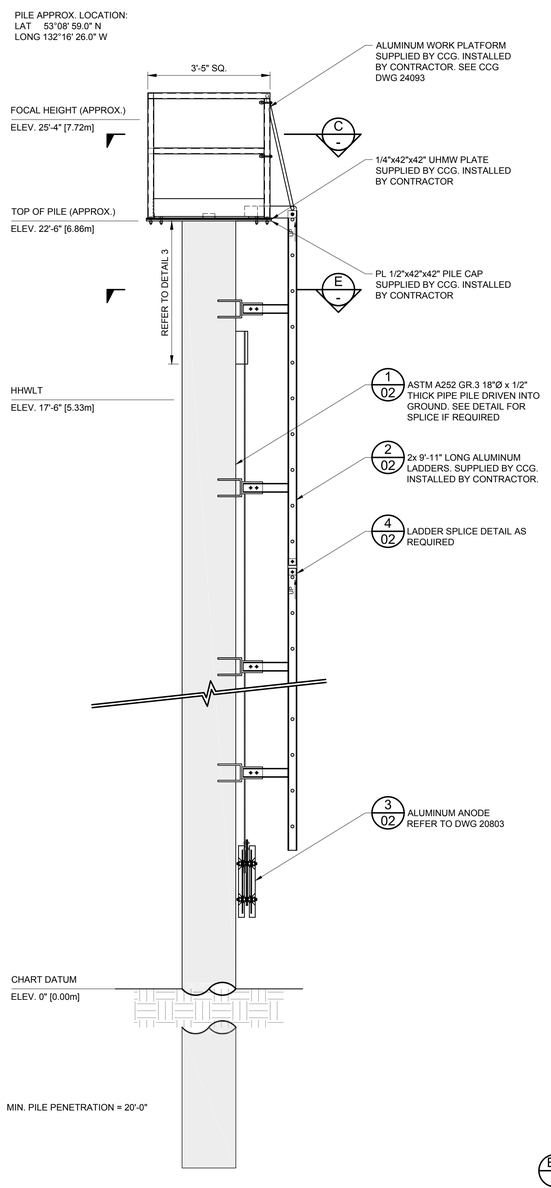


ELEVATION

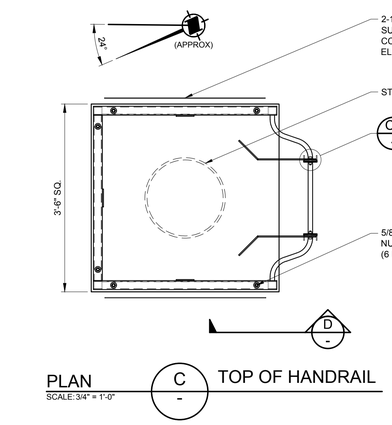
EXISTING A - TIMBER DOLPHIN
SCALE: 1/2" = 1'-0"

PILE ORIENTATION AND LOCATION TO BE CONFIRMED BY CCG REPRESENTATIVE IN THE FIELD



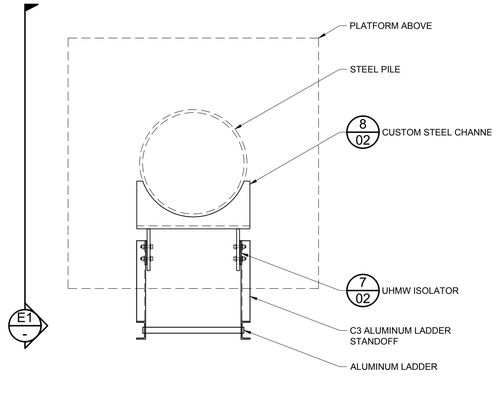
ELEVATION

PROPOSED B - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"

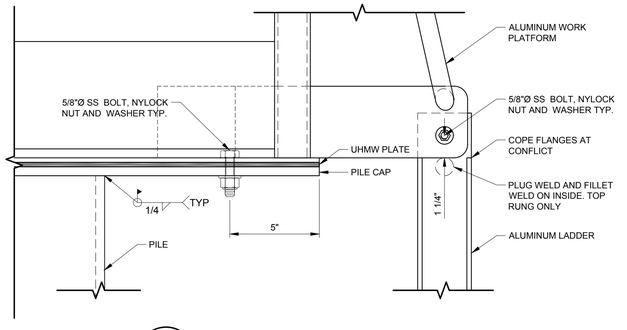


PLAN C - TOP OF HANDRAIL
SCALE: 3/4" = 1'-0"

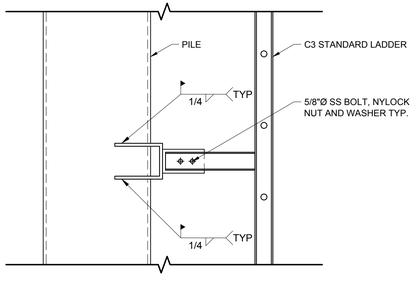
DETAIL C1 - LADDER CONNECTION
SCALE: 6" = 1'-0"



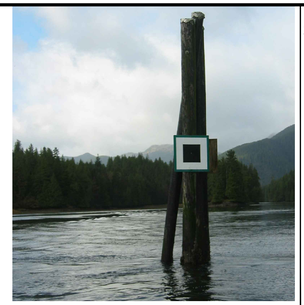
SECTION E - LADDER STANDOFF (TOP VIEW)
SCALE: 1" = 1'-0"



SECTION D - PILE CAP AND LADDER CONNECTION
SCALE: 3" = 1'-0"



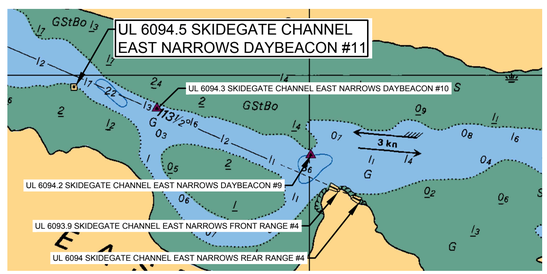
SECTION E1 - LADDER STANDOFF (SIDE VIEW)
SCALE: 1" = 1'-0"



UL 6094.5 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #11 OCT. 2003

ALUMINUM NOTES

1. FABRICATE ALL ALUMINUM IN CONFORMANCE WITH CAN3-S157-05 AND IN ACCORDANCE WITH DRAWINGS. USE THE MOST CURRENT OF ALL CODE REFERENCES.
2. FABRICATOR TO BE CERTIFIED UNDER CSA-W47.2 DIV 2 FOR FUSION WELDING OF ALUMINUM & CSA-W55.3 FOR RESISTANCE WELDING OF STRUCTURAL COMPONENTS.
3. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH CSA-W59.2
4. BAR, ROD WIRE, TUBES, PLATE & EXTRUDED SHAPES SHALL BE ALLOY GRADE 6061-T6.
5. ALL WELDING WIRE SHALL BE ALLOY GRADE 5356.
6. ALUMINUM TO BE CLEAR ANODIZED PRIOR TO FAB.
7. NO SHARP EDGES. GRIND AND SAND SMOOTH AS REQUIRED.
8. NO CUTTING OR HOLES EXCEPT AS SHOWN ON DRAWINGS.
9. MECHANICAL CONNECTIONS, STAINLESS STEEL CONFORMING TO AISI 316.
10. TWO COATS OF BITUMINOUS PAINT CONFORMING TO ASTM D1187 TYPE 1 SHALL BE USED WHEN ALUMINUM SURFACE IS IN CONTACT WITH CONCRETE.



LOCATION CHARTLET (PART OF 3891) N.T.S.

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

23991

STRUCTURAL STEEL - CCG

1. SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16
2. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED" BY THE CANADIAN WELDING BUREAU UNDER CSA W47.1 FOR DIVISION 2
3. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
   - .1 CHANNELS, ANGLES AND PLATE: CAN/CSA-G40.21, GR. 300W
   - .2 HSS SECTIONS: CAN/CSA-G40.21, GR. 350W
   - .3 COLD FORMED METAL: CAN/CSA-S136
   - .4 STRUCTURAL BOLTS: ASTM-A325
   - .5 ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
4. ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF CISC/CPMA 2-75 QUICK DRYING RED OXIDE SHOP PRIMER EXCEPT PARTS EMBEDDED IN CONCRETE SHALL NOT TO BE PAINTED.
5. ALL CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS, CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
6. BEAM CONNECTIONS SHALL BE STANDARD FRAME CONNECTIONS OR EQUAL PROPORTIONED FOR 60% OF THE VERTICAL SHEAR CORRESPONDING TO THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM.
7. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED PRIOR TO FABRICATION. SUBMIT 4 COPIES OF SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND FIT-UP OF ALL COMPONENTS.
8. BOLTS SHALL BE 3/4" DIAMETER AND BE DESIGNED FOR THREAD INCLUDED BEARING TYPE CONNECTION U.N.O.
9. GRIND ALL WELDS AND EDGES SMOOTH AS REQUIRED
10. ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET
11. HOT DIP GALVANIZING TO A123M MIN COATING 600g/m².
12. ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.

GENERAL NOTES

1. THESE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSTRUCTION DOCUMENTS. DEVIATION OF PROJECT CONSTRUCTION IS NOT ACCEPTABLE UNLESS INSTRUCTED BY THE ENGINEER.
2. ALL INFORMATION CONCERNING EXISTING SITE CONDITIONS HAVE BEEN TAKEN FROM ORIGINAL DRAWINGS AND SITE MEASUREMENTS. SHOULD INFORMATION OR SITE CONDITIONS DIFFER SIGNIFICANTLY FROM THAT SHOWN, ADVISE CCG ENGINEERING.
3. DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNLESS NOTED "FOR CONSTRUCTION".
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
5. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STRUCTURES AND BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
6. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT INSPECTIONS OR ACCEPT PHOTOS OF REINFORCING PRIOR TO THE PLACEMENT OF CONCRETE.
7. THREADROD EPOXY INSTALLATION IS TO BE HILTI HY-200 U.N.O. OR ENGINEERING APPROVED ALTERNATE
8. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT THE PULL TESTS IF NECESSARY

rev	description	by / par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6094.5 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #11

FIXED AID TO NAVIGATION

Drawing - Dessin

NAV-AID REBUILD

drawn - dessiné	date
TK/BR	2016-11-04
designed - conception	date
AW	2017-06-12
checked - vérifié	date
AW	2017-07-26
approved - approuvé	date
AW	2017-09-08
CCG ref. no. - no. réf. GCC	scale - échelle
AFI26	AS SHOWN
drawing no. - no. dessin	sheet-feuille / rev-rév
23991	01/02 / 0

Arch D

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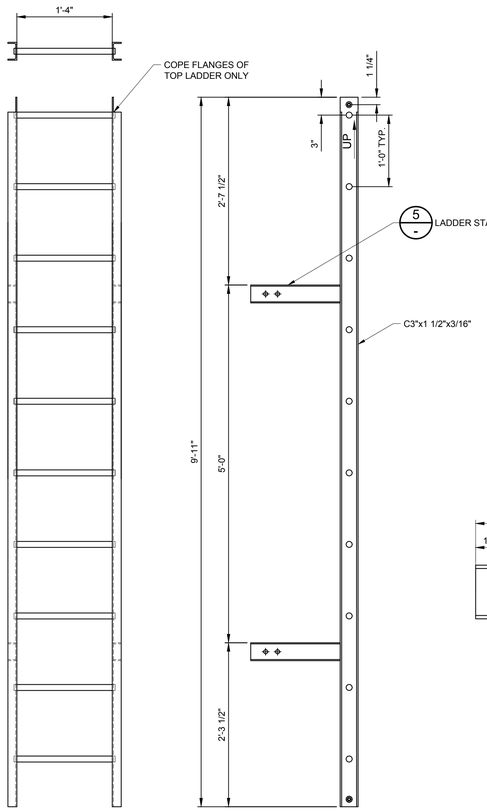
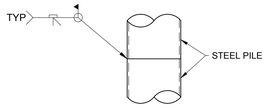
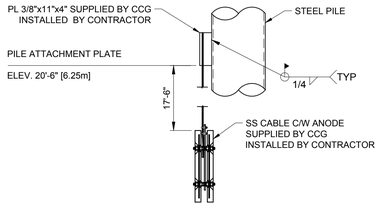
23991



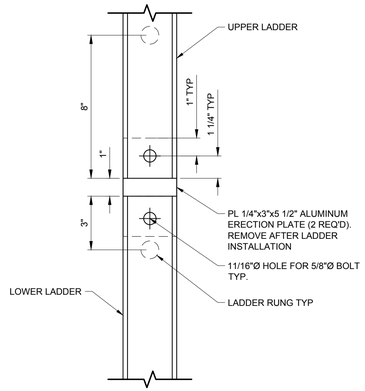
DETAIL 2/01 C3 ALUMINUM LADDER (2 REQUIRED)
SCALE:1" = 1'-0"



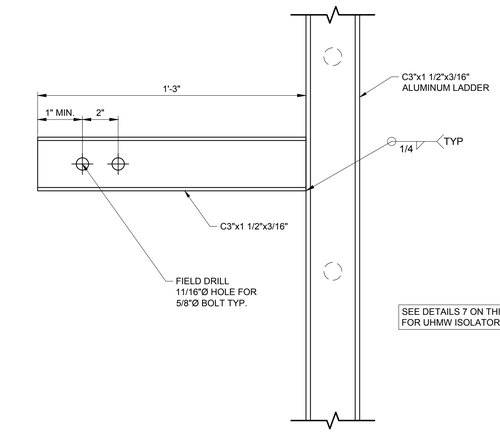
DETAIL 1/01 PILE SPLICE
SCALE:1/2" = 1'-0"



DETAIL 3/01 ANODE SIDE VIEW
SCALE:1/2" = 1'-0"

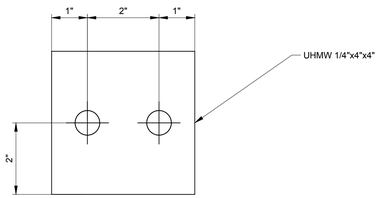


DETAIL 4/01 LADDER SPLICE
SCALE:3" = 1'-0"

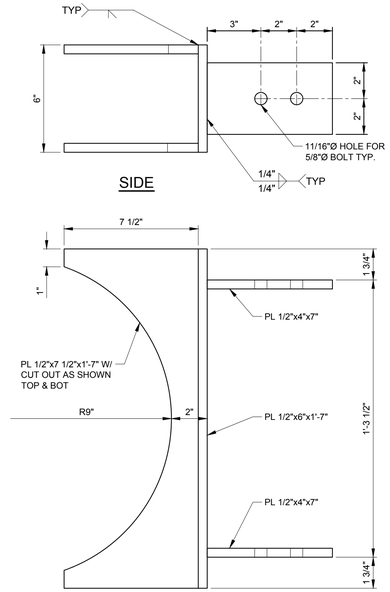


SEE DETAILS 7 ON THIS PAGE
FOR UHMW ISOLATOR DETAILS

DETAIL 5/- LADDER STANDOFF
SCALE:3" = 1'-0"



DETAIL 7/- UHMW ISOLATOR (8 REQUIRED)
SCALE:6" = 1'-0"



DETAIL 8/01 CUSTOM STEEL CHANNEL (4 REQUIRED)
SCALE:3" = 1'-0"

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

23991

rev	description	by/par.	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif
UL 6094.5 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #11

FIXED AID TO NAVIGATION

Drawing - Dessin

NAV-AID REBUILD

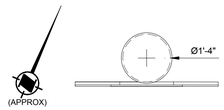
	date
drawn - dessiné: TK/BR	2016-11-04
designed - conception: AW	2017-06-12
checked - vérifié: AW	2017-07-26
approved - approuvé: AW	2017-09-08

CCG ref. no. - no. réf. GCC	scale - échelle	
AFI26	AS SHOWN	
drawing no. - no. dessin	sheet-feuille	rev-rév
23991	02/02	0

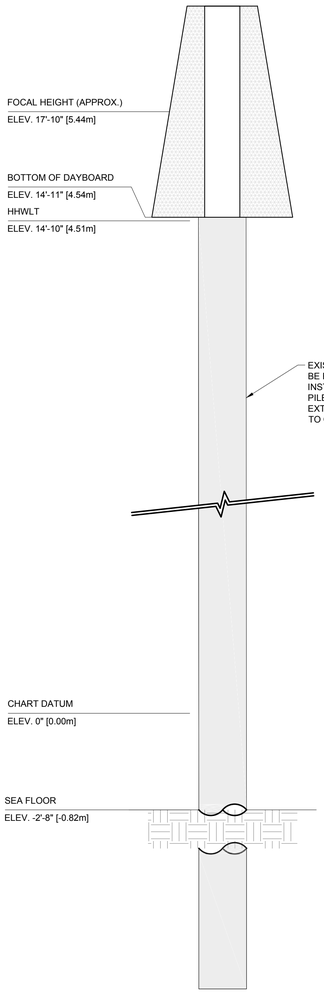
K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6094.5 SKIDEGATE CHANNEL EAST NARROWS DAYBEACON #11 LOS\DRAWINGS\UL 6094.5 SKIDEGATE CHANNEL E NARROWS DAYBEACON #11.DWG

Arch D

23991



PLAN

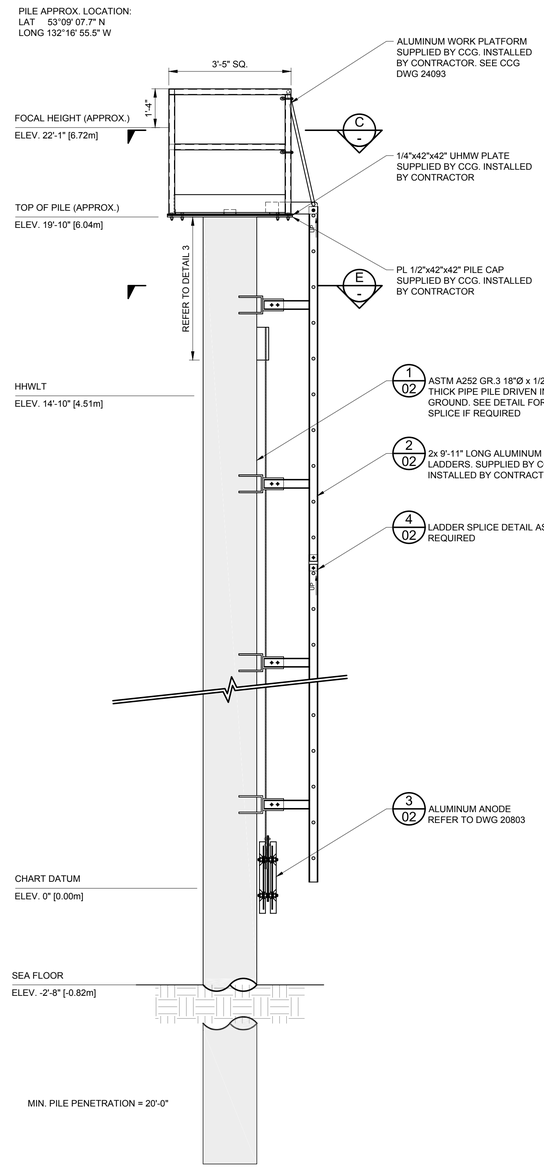


ELEVATION

EXISTING A - STEEL DOLPHIN
SCALE:1/2" = 1'-0"

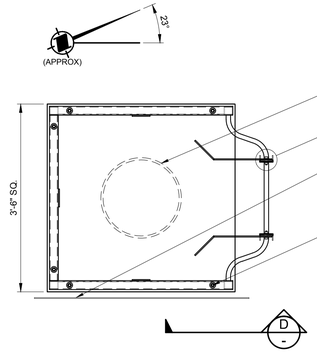
PILE ORIENTATION AND LOCATION TO BE CONFIRMED BY CCG REPRESENTATIVE IN THE FIELD

PILE APPROX. LOCATION:
LAT 53°09' 07.7" N
LONG 132°16' 55.5" W

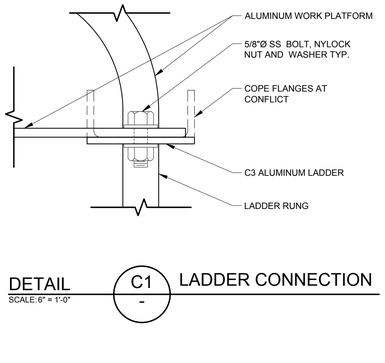


ELEVATION

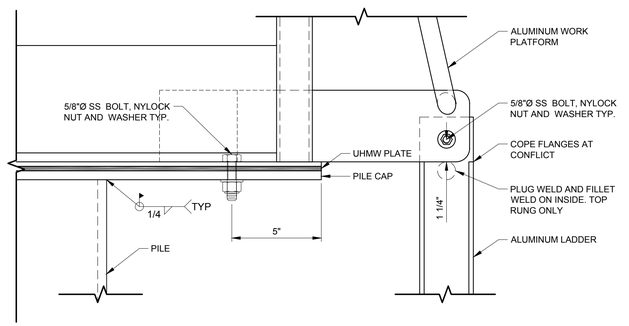
PROPOSED B - STEEL DOLPHIN
SCALE:1/2" = 1'-0"



PLAN C - TOP OF HANDRAIL
SCALE:3/4" = 1'-0"

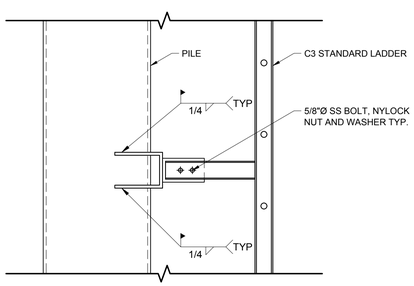


DETAIL C1 - LADDER CONNECTION
SCALE:6" = 1'-0"



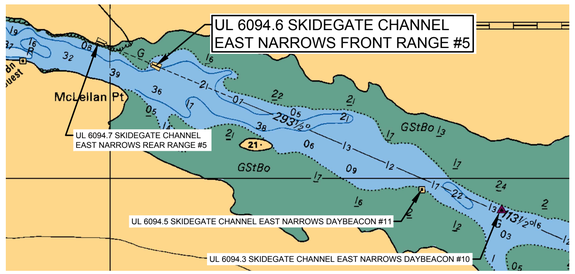
SECTION D - PILE CAP AND LADDER CONNECTION
SCALE:3" = 1'-0"

SECTION E - LADDER STANDOFF (TOP VIEW)
SCALE:1" = 1'-0"



SECTION E1 - LADDER STANDOFF (SIDE VIEW)
SCALE:1" = 1'-0"

UL 6094.6 SKIDEGATE CHANNEL EAST NARROWS FRONT RANGE #5 OCT. 2003



LOCATION CHARTLET (PART OF 3891) N.T.S.

ALUMINUM NOTES

1. FABRICATE ALL ALUMINUM IN CONFORMANCE WITH CAN3-S157-05 AND IN ACCORDANCE WITH DRAWINGS. USE THE MOST CURRENT OF ALL CODE REFERENCES.
2. FABRICATOR TO BE CERTIFIED UNDER CSA-W47.2 DIV 2 FOR FUSION WELDING OF ALUMINUM & CSA-W55.3 FOR RESISTANCE WELDING OF STRUCTURAL COMPONENTS.
3. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH CSA-W59.2
4. BAR, ROD WIRE, TUBES, PLATE & EXTRUDED SHAPES SHALL BE ALLOY GRADE 6061-T6.
5. ALL WELDING WIRE SHALL BE ALLOY GRADE 5356.
6. ALUMINUM TO BE CLEAR ANODIZED PRIOR TO FAB.
7. NO SHARP EDGES. GRIND AND SAND SMOOTH AS REQUIRED.
8. NO CUTTING OR HOLES EXCEPT AS SHOWN ON DRAWINGS.
9. MECHANICAL CONNECTIONS, STAINLESS STEEL CONFORMING TO AISI 316.
10. TWO COATS OF BITUMINOUS PAINT CONFORMING TO ASTM D1187 TYPE 1 SHALL BE USED WHEN ALUMINUM SURFACE IS IN CONTACT WITH CONCRETE.

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

STRUCTURAL STEEL - CCG

1. SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16
2. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED" BY THE CANADIAN WELDING BUREAU UNDER CSA W47.1 FOR DIVISION 2
3. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
   - .1 CHANNELS, ANGLES AND PLATE: CAN/CSA-G40.21, GR. 300W
   - .2 HSS SECTIONS: CAN/CSA-G40.21, GR. 350W
   - .3 COLD FORMED METAL: CAN/CSA-S136
   - .4 STRUCTURAL BOLTS: ASTM-A325
   - .5 ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
4. ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF CISC/CPMA 2-75 QUICK DRYING RED OXIDE SHOP PRIMER EXCEPT PARTS EMBEDDED IN CONCRETE SHALL NOT TO BE PAINTED.
5. ALL CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS, CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
6. BEAM CONNECTIONS SHALL BE STANDARD FRAME CONNECTIONS OR EQUAL PROPORTIONED FOR 60% OF THE VERTICAL SHEAR CORRESPONDING TO THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM.
7. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED PRIOR TO FABRICATION. SUBMIT 4 COPIES OF SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND FIT-UP OF ALL COMPONENTS.
8. BOLTS SHALL BE 3/4" DIAMETER AND BE DESIGNED FOR THREAD INCLUDED BEARING TYPE CONNECTION U.N.O.
9. GRIND ALL WELDS AND EDGES SMOOTH AS REQUIRED
10. ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET
11. HOT DIP GALVANIZING TO A123M MIN COATING 600g/m².
12. ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.

GENERAL NOTES

1. THESE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSTRUCTION DOCUMENTS. DEVIATION OF PROJECT CONSTRUCTION IS NOT ACCEPTABLE UNLESS INSTRUCTED BY THE ENGINEER.
2. ALL INFORMATION CONCERNING EXISTING SITE CONDITIONS HAVE BEEN TAKEN FROM ORIGINAL DRAWINGS AND SITE MEASUREMENTS. SHOULD INFORMATION OR SITE CONDITIONS DIFFER SIGNIFICANTLY FROM THAT SHOWN, ADVISE CCG ENGINEERING.
3. DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNLESS NOTED "FOR CONSTRUCTION".
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
5. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STRUCTURES AND BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
6. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT INSPECTIONS OR ACCEPT PHOTOS OF REINFORCING PRIOR TO THE PLACEMENT OF CONCRETE.
7. THREADROD EPOXY INSTALLATION IS TO BE HILTI HY-200 U.N.O. OR ENGINEERING APPROVED ALTERNATE
8. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT THE PULL TESTS IF NECESSARY

rev	description	by / par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6094.6 SKIDEGATE CHANNEL EAST NARROWS FRONT RANGE #5

FIXED AID TO NAVIGATION

Drawing - Dessin

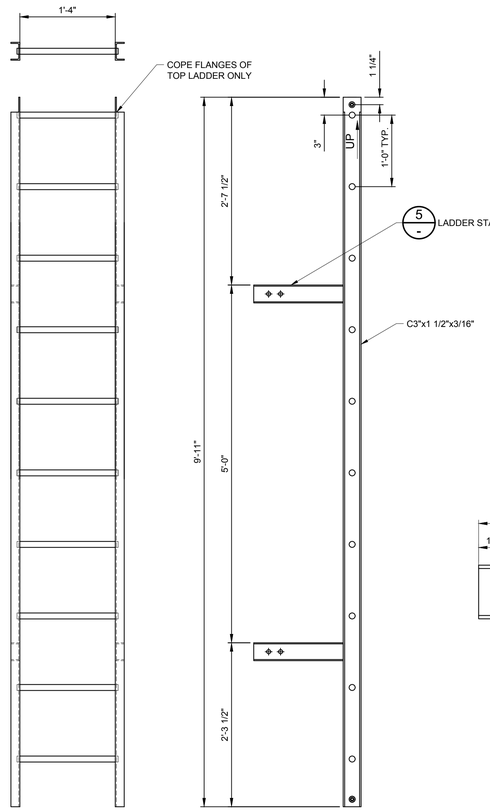
NAV-AID REBUILD

drawn - dessiné	date: TK/BR 2016-11-04
designed - conception	date: AW 2017-06-12
checked - vérifié	date: AW 2017-07-26
approved - approuvé	date: AW 2017-09-08
CCG ref. no. - no. réf. GCC	scale - échelle: AFI26 AS SHOWN
drawing no. - no. dessin	sheet-feuille: 01/02; rev-rév: 0

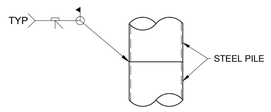
23992

K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6094.6 SKIDEGATE CHANNEL EAST NARROWS FRONT RANGE #5 LOS\DRAWINGS\UL 6094.6 SKIDEGATE CHANNEL E NARROWS FRONT RANGE #5.DWG

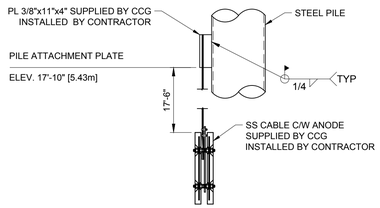
Arch D



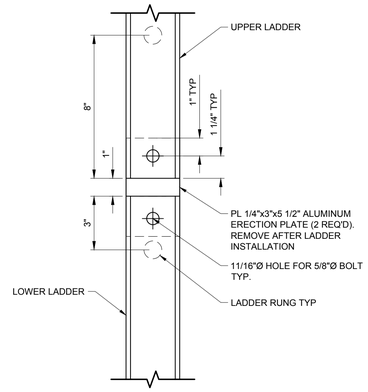
DETAIL 2/01 C3 ALUMINUM LADDER (2 REQUIRED)
SCALE: 1" = 1'-0"



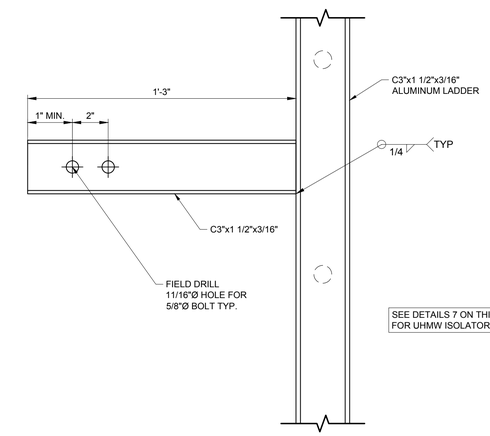
DETAIL 1/01 PILE SPLICE
SCALE: 1/2" = 1'-0"



DETAIL 3/01 ANODE SIDE VIEW
SCALE: 1/2" = 1'-0"

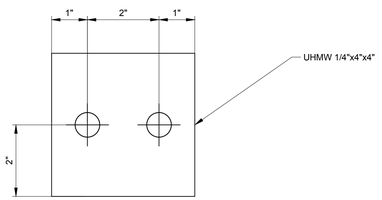


DETAIL 4/01 LADDER SPLICE
SCALE: 3" = 1'-0"



SEE DETAILS 7 ON THIS PAGE
FOR UHMW ISOLATOR DETAILS

DETAIL 5/- LADDER STANDOFF
SCALE: 3" = 1'-0"



DETAIL 7/- UHMW ISOLATOR (8 REQUIRED)
SCALE: 6" = 1'-0"

DETAIL 8/01 CUSTOM STEEL CHANNEL (4 REQUIRED)
SCALE: 3" = 1'-0"

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Canadian Coast Guard / Garde côtière Canadienne

23992

rev	description	by / par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6094.6 SKIDEGATE CHANNEL EAST NARROWS FRONT RANGE #5

FIXED AID TO NAVIGATION

Drawing - Dessin

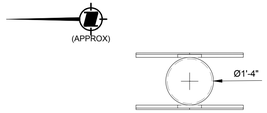
NAV-AID REBUILD

drawn - dessiné: TK/BR	date: 2016-11-04
designed - conception: AW	date: 2017-06-12
checked - vérifié: AW	date: 2017-07-26
approved - approuvé: AW	date: 2017-09-08
CCG ref. no. - no. réf. GCC: AFI26	scale - échelle: AS SHOWN
drawing no. - no. dessin: 23992	sheet-feuille: 02/02; rev-rév: 0

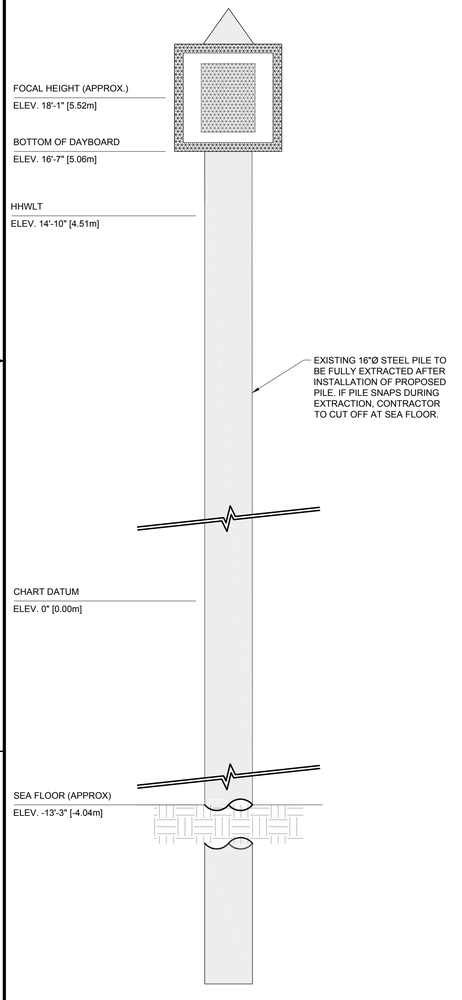
K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6094.6 SKIDEGATE CHANNEL EAST NARROWS FRONT RANGE #5 LOS\BD\RAWINGS\UL 6094.6 SKIDEGATE CHANNEL E NARROWS FRONT RANGE #5.DWG

Arch D

23992



PLAN

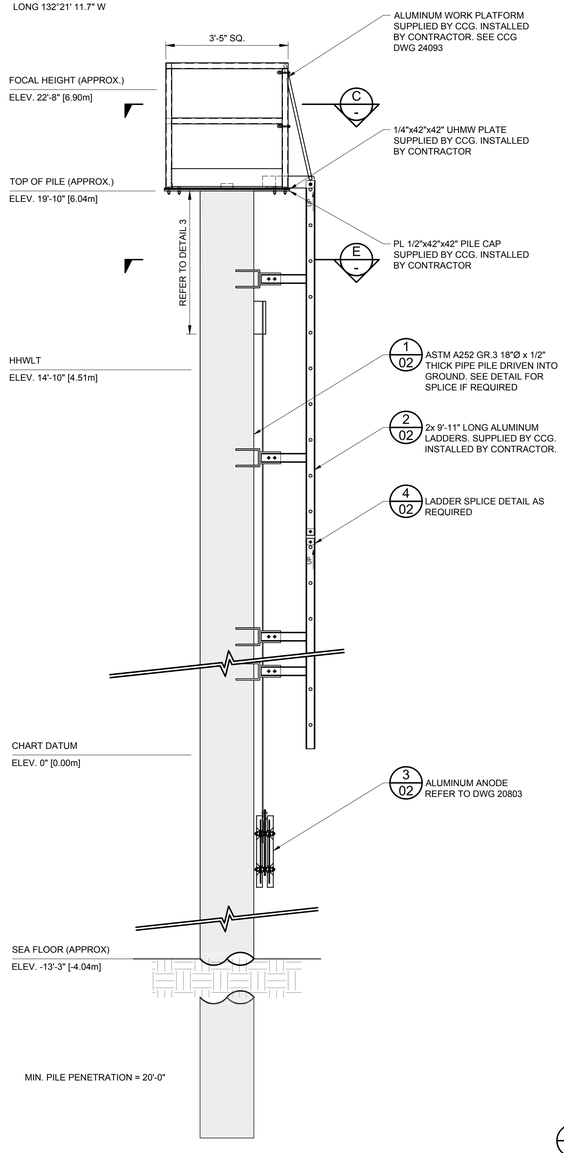


ELEVATION

EXISTING A - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"

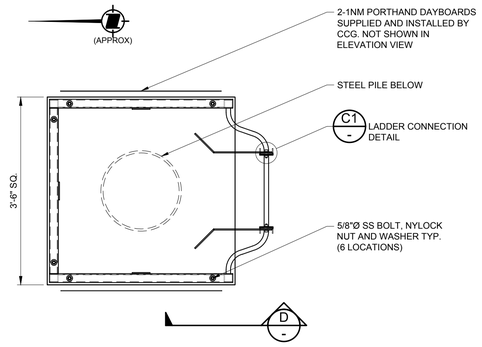
PILE ORIENTATION AND LOCATION TO BE CONFIRMED BY CCG REPRESENTATIVE IN THE FIELD

PILE APPROX. LOCATION:
LAT 53°09' 00.6" N
LONG 132°21' 11.7" W



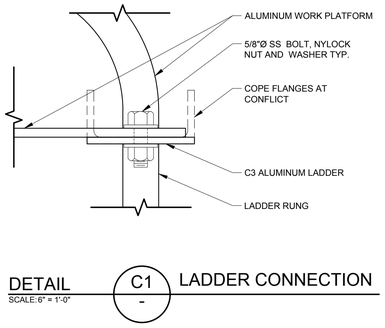
ELEVATION

PROPOSED B - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"



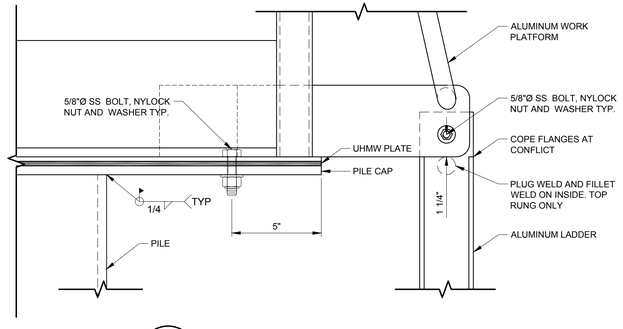
PLAN
SCALE: 3/4" = 1'-0"

C - TOP OF HANDRAIL



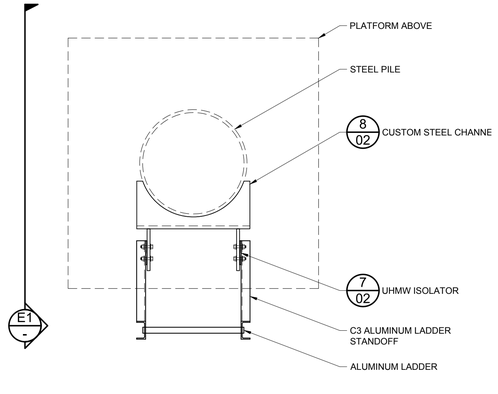
DETAIL
SCALE: 6" = 1'-0"

C1 - LADDER CONNECTION



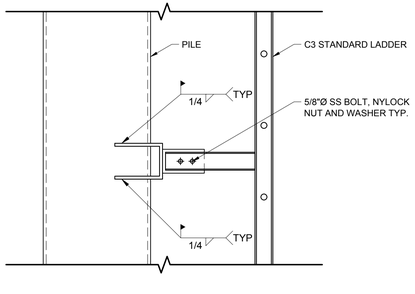
SECTION
SCALE: 3" = 1'-0"

D - PILE CAP AND LADDER CONNECTION



SECTION
SCALE: 1" = 1'-0"

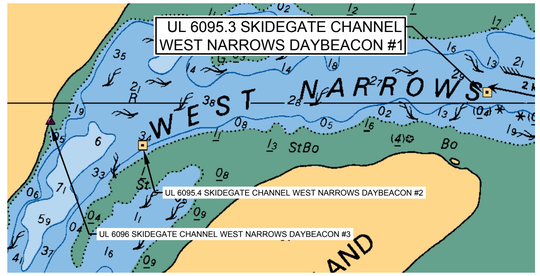
E - LADDER STANDOFF (TOP VIEW)



SECTION
SCALE: 1" = 1'-0"

E1 - LADDER STANDOFF (SIDE VIEW)

UL 6095.3 SKIDEGATE CHANNEL WEST NARROWS DAYBEACON #1 OCT. 2003



LOCATION CHARTLET (PART OF 3891) N.T.S.

ALUMINUM NOTES

1. FABRICATE ALL ALUMINUM IN CONFORMANCE WITH CAN3-S157-05 AND IN ACCORDANCE WITH DRAWINGS. USE THE MOST CURRENT OF ALL CODE REFERENCES.
2. FABRICATOR TO BE CERTIFIED UNDER CSA-W47.2 DIV 2 FOR FUSION WELDING OF ALUMINUM & CSA-W55.3 FOR RESISTANCE WELDING OF STRUCTURAL COMPONENTS.
3. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH CSA-W59.2
4. BAR, ROD WIRE, TUBES, PLATE & EXTRUDED SHAPES SHALL BE ALLOY GRADE 6061-T6.
5. ALL WELDING WIRE SHALL BE ALLOY GRADE 5356.
6. ALUMINUM TO BE CLEAR ANODIZED PRIOR TO FAB.
7. NO SHARP EDGES. GRIND AND SAND SMOOTH AS REQUIRED.
8. NO CUTTING OR HOLES EXCEPT AS SHOWN ON DRAWINGS.
9. MECHANICAL CONNECTIONS, STAINLESS STEEL CONFORMING TO AISI 316.
10. TWO COATS OF BITUMINOUS PAINT CONFORMING TO ASTM D1187 TYPE 1 SHALL BE USED WHEN ALUMINUM SURFACE IS IN CONTACT WITH CONCRETE.

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

23994

STRUCTURAL STEEL - CCG

1. SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16
2. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED" BY THE CANADIAN WELDING BUREAU UNDER CSA W47.1 FOR DIVISION 2
3. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
   - .1 CHANNELS, ANGLES AND PLATE: CAN/CSA-G40.21, GR. 300W
   - .2 HSS SECTIONS: CAN/CSA-G40.21, GR. 350W
   - .3 COLD FORMED METAL: CAN/CSA-S136
   - .4 STRUCTURAL BOLTS: ASTM-A325
   - .5 ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
4. ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF CISC/CPMA 2-75 QUICK DRYING RED OXIDE SHOP PRIMER EXCEPT PARTS EMBEDDED IN CONCRETE SHALL NOT TO BE PAINTED.
5. ALL CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS, CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
6. BEAM CONNECTIONS SHALL BE STANDARD FRAME CONNECTIONS OR EQUAL PROPORTIONED FOR 60% OF THE VERTICAL SHEAR CORRESPONDING TO THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM.
7. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED PRIOR TO FABRICATION. SUBMIT 4 COPIES OF SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND FIT-UP OF ALL COMPONENTS.
8. BOLTS SHALL BE 3/4" DIAMETER AND BE DESIGNED FOR THREAD INCLUDED BEARING TYPE CONNECTION U.N.O.
9. GRIND ALL WELDS AND EDGES SMOOTH AS REQUIRED
10. ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET
11. HOT DIP GALVANIZING TO A123M MIN COATING 600g/m².
12. ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.

GENERAL NOTES

1. THESE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSTRUCTION DOCUMENTS. DEVIATION OF PROJECT CONSTRUCTION IS NOT ACCEPTABLE UNLESS INSTRUCTED BY THE ENGINEER.
2. ALL INFORMATION CONCERNING EXISTING SITE CONDITIONS HAVE BEEN TAKEN FROM ORIGINAL DRAWINGS AND SITE MEASUREMENTS. SHOULD INFORMATION OR SITE CONDITIONS DIFFER SIGNIFICANTLY FROM THAT SHOWN, ADVISE CCG ENGINEERING.
3. DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNLESS NOTED "FOR CONSTRUCTION".
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
5. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STRUCTURES AND BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
6. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT INSPECTIONS OR ACCEPT PHOTOS OF REINFORCING PRIOR TO THE PLACEMENT OF CONCRETE.
7. THREADROD EPOXY INSTALLATION IS TO BE HILTI HY-200 U.N.O. OR ENGINEERING APPROVED ALTERNATE
8. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT THE PULL TESTS IF NECESSARY

rev	description	by / par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6095.3 SKIDEGATE CHANNEL WEST NARROWS DAYBEACON #1

FIXED AID TO NAVIGATION

Drawing - Dessin

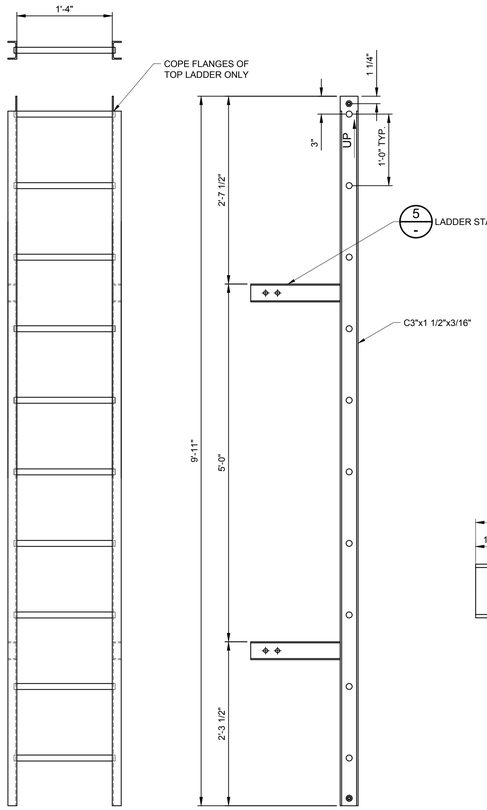
NAV-AID REBUILD

drawn - dessiné	date: 2016-11-04
TK/BR	
designed - conception	date: 2017-06-12
AW	
checked - vérifié	date: 2017-07-26
AW	
approved - approuvé	date: 2017-09-08
AW	
CCG ref. no. - no. réf. GCC	scale - échelle: AS SHOWN
AFI26	
drawing no. - no. dessin: 23994	sheet-feuille: 01/02 — rev-rév: 0

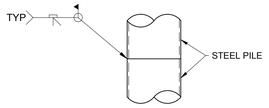
Arch D

K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6095.3 SKIDEGATE CHANNEL WEST NARROWS DAYBEACON #1 LOS\DRAWING\SUL 6095.3 SKIDEGATE CHANNEL W NARROWS DAYBEACON #1.DWG

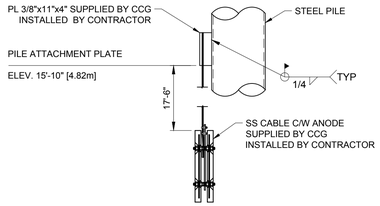
23994



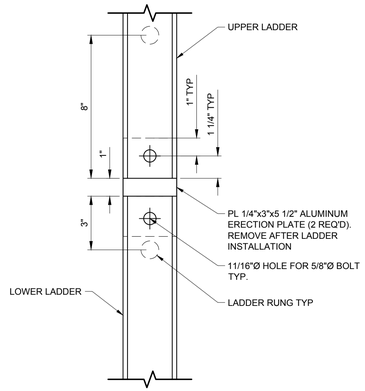
DETAIL 2/01 C3 ALUMINUM LADDER (2 REQUIRED)
SCALE:1" = 1'-0"



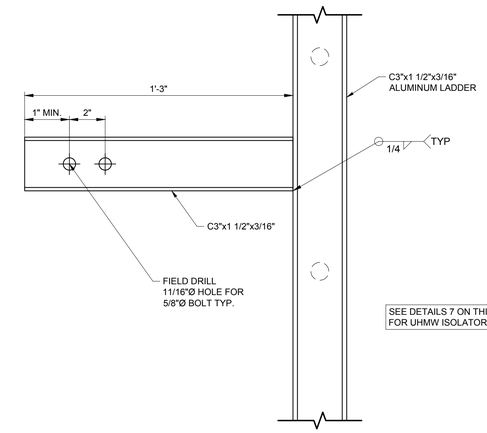
DETAIL 1/01 PILE SPLICE
SCALE:1/2" = 1'-0"



DETAIL 3/01 ANODE SIDE VIEW
SCALE:1/2" = 1'-0"

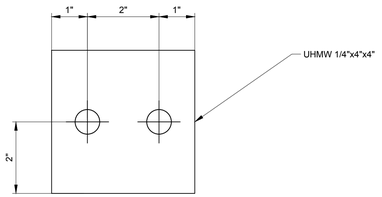


DETAIL 4/01 LADDER SPLICE
SCALE:3" = 1'-0"

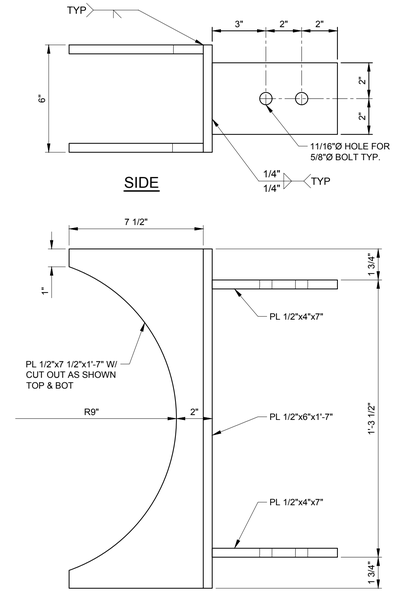


SEE DETAILS 7 ON THIS PAGE
FOR UHMW ISOLATOR DETAILS

DETAIL 5/- LADDER STANDOFF
SCALE:3" = 1'-0"



DETAIL 7/- UHMW ISOLATOR (8 REQUIRED)
SCALE:6" = 1'-0"



DETAIL 8/01 CUSTOM STEEL CHANNEL (4 REQUIRED)
SCALE:3" = 1'-0"

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

23994

rev	description	by/par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif
UL 6095.3 SKIDEGATE CHANNEL WEST NARROWS DAYBEACON #1

FIXED AID TO NAVIGATION

Drawing - Dessin

NAV-AID REBUILD

	date
drawn - dessiné: TK/BR	2016-11-04
designed - conception: AW	2017-06-12
checked - vérifié: AW	2017-07-26
approved - approuvé: AW	2017-09-08

CCG ref. no. - no. réf. GCC	scale - échelle	
AFI26	AS SHOWN	
drawing no. - no. dessin	sheet-feuille	rev-rév
23994	02/02	0

K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6095.3 SKIDEGATE CHANNEL WEST NARROWS DAYBEACON #1 LOS\6\DRAWING\SUL 6095.3 SKIDEGATE CHANNEL W NARROWS DAYBEACON #1.DWG

Arch D

23994

(APPROX)

Ø1'-4"

PLAN

FOCAL HEIGHT (APPROX.)
ELEV. 18'-4" [5.58m]

BOTTOM OF DAYBOARD
ELEV. 16'-10" [5.12m]

HHWLT
ELEV. 14'-10" [4.51m]

EXISTING 16"Ø STEEL PILE TO BE FULLY EXTRACTED AFTER INSTALLATION OF PROPOSED PILE. IF PILE SNAPS DURING EXTRACTION, CONTRACTOR TO CUT OFF AT SEA FLOOR.

CHART DATUM
ELEV. 0" [0.00m]

SEA FLOOR (APPROX)
ELEV. -10'-7" [-3.23m]

ELEVATION

EXISTING A - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"

PILE ORIENTATION AND LOCATION TO BE CONFIRMED BY CCG REPRESENTATIVE IN THE FIELD

PILE APPROX. LOCATION:
LAT 53°08' 58.0" N
LONG 132°21' 43.0" W

3'-5" SQ.

FOCAL HEIGHT (APPROX.)
ELEV. 22'-8" [6.90m]

TOP OF PILE (APPROX.)
ELEV. 19'-10" [6.04m]

REFER TO DETAIL 3

HHWLT
ELEV. 14'-10" [4.51m]

ALUMINUM WORK PLATFORM SUPPLIED BY CCG. INSTALLED BY CONTRACTOR. SEE CCG DWG 24093

C

1/4"x42"x42" UHMW PLATE SUPPLIED BY CCG. INSTALLED BY CONTRACTOR

E

PL 1/2"x42"x42" PILE CAP SUPPLIED BY CCG. INSTALLED BY CONTRACTOR

1/02 ASTM A252 GR.3 18"Ø x 1/2" THICK PIPE PILE DRIVEN INTO GROUND. SEE DETAIL FOR SPLICE IF REQUIRED

2/02 2x 9'-11" LONG ALUMINUM LADDERS. SUPPLIED BY CCG. INSTALLED BY CONTRACTOR.

4/02 LADDER SPLICE DETAIL AS REQUIRED

3/02 ALUMINUM ANODE REFER TO DWG 20803

CHART DATUM
ELEV. 0" [0.00m]

SEA FLOOR (APPROX)
ELEV. -10'-7" [-3.23m]

MIN. PILE PENETRATION = 20'-0"

ELEVATION

PROPOSED B - STEEL DOLPHIN
SCALE: 1/2" = 1'-0"

52°

(APPROX)

2-1NM PORTHAND DAYBOARDS SUPPLIED AND INSTALLED BY CCG. NOT SHOWN IN ELEVATION VIEW.

STEEL PILE BELOW

C1 - LADDER CONNECTION DETAIL

3'-6" SQ.

5/8"Ø SS BOLT, NYLOCK NUT AND WASHER TYP. (6 LOCATIONS)

D

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

C - TOP OF HANDRAIL

ALUMINUM WORK PLATFORM

5/8"Ø SS BOLT, NYLOCK NUT AND WASHER TYP.

COPE FLANGES AT CONFLICT

C3 ALUMINUM LADDER

LADDER RUNG

DETAIL
SCALE: 6" = 1'-0"

C1 - LADDER CONNECTION

PLATFORM ABOVE

STEEL PILE

8/02 CUSTOM STEEL CHANNE

7/02 UHMW ISOLATOR

C3 ALUMINUM LADDER STANDOFF

ALUMINUM LADDER

E1

SECTION
SCALE: 1" = 1'-0"

E - LADDER STANDOFF (TOP VIEW)

ALUMINUM WORK PLATFORM

5/8"Ø SS BOLT, NYLOCK NUT AND WASHER TYP.

UHMW PLATE

PILE CAP

1/4 TYP

5"

PILE

5/8"Ø SS BOLT, NYLOCK NUT AND WASHER TYP.

COPE FLANGES AT CONFLICT

PLUG WELD AND FILLET WELD ON INSIDE. TOP RUNG ONLY

1 1/4"

ALUMINUM LADDER

SECTION
SCALE: 3" = 1'-0"

D - PILE CAP AND LADDER CONNECTION

PILE

C3 STANDARD LADDER

1/4 TYP

5/8"Ø SS BOLT, NYLOCK NUT AND WASHER TYP.

1/4 TYP

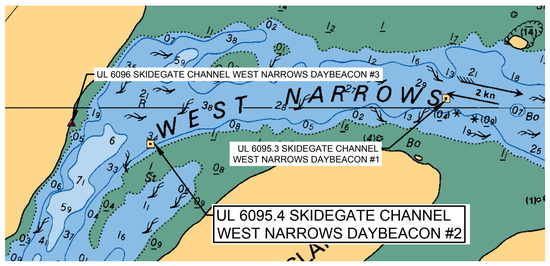
SECTION
SCALE: 1" = 1'-0"

E1 - LADDER STANDOFF (SIDE VIEW)

UL 6095.4 SKIDEGATE CHANNEL WEST NARROWS DAYBEACON #2 OCT. 2003

ALUMINUM NOTES

1. FABRICATE ALL ALUMINUM IN CONFORMANCE WITH CAN3-S157-05 AND IN ACCORDANCE WITH DRAWINGS. USE THE MOST CURRENT OF ALL CODE REFERENCES.
2. FABRICATOR TO BE CERTIFIED UNDER CSA-W47.2 DIV 2 FOR FUSION WELDING OF ALUMINUM & CSA-W55.3 FOR RESISTANCE WELDING OF STRUCTURAL COMPONENTS.
3. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH CSA-W59.2
4. BAR, ROD WIRE, TUBES, PLATE & EXTRUDED SHAPES SHALL BE ALLOY GRADE 6061-T6.
5. ALL WELDING WIRE SHALL BE ALLOY GRADE 5356.
6. ALUMINUM TO BE CLEAR ANODIZED PRIOR TO FAB.
7. NO SHARP EDGES. GRIND AND SAND SMOOTH AS REQUIRED.
8. NO CUTTING OR HOLES EXCEPT AS SHOWN ON DRAWINGS.
9. MECHANICAL CONNECTIONS, STAINLESS STEEL CONFORMING TO AISI 316.
10. TWO COATS OF BITUMINOUS PAINT CONFORMING TO ASTM D1187 TYPE 1 SHALL BE USED WHEN ALUMINUM SURFACE IS IN CONTACT WITH CONCRETE.



LOCATION CHARTLET (PART OF 3891) N.T.S.

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

23995

STRUCTURAL STEEL - CCG

1. SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16
2. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED" BY THE CANADIAN WELDING BUREAU UNDER CSA W47.1 FOR DIVISION 2
3. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
   - .1 CHANNELS, ANGLES AND PLATE: CAN/CSA-G40.21, GR. 300W
   - .2 HSS SECTIONS: CAN/CSA-G40.21, GR. 350W
   - .3 COLD FORMED METAL: CAN/CSA-S136
   - .4 STRUCTURAL BOLTS: ASTM-A325
   - .5 ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
4. ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF CISC/CPMA 2-75 QUICK DRYING RED OXIDE SHOP PRIMER EXCEPT PARTS EMBEDDED IN CONCRETE SHALL NOT TO BE PAINTED.
5. ALL CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS, CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
6. BEAM CONNECTIONS SHALL BE STANDARD FRAME CONNECTIONS OR EQUAL PROPORTIONED FOR 60% OF THE VERTICAL SHEAR CORRESPONDING TO THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM.
7. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED PRIOR TO FABRICATION. SUBMIT 4 COPIES OF SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND FIT-UP OF ALL COMPONENTS.
8. BOLTS SHALL BE 3/4" DIAMETER AND BE DESIGNED FOR THREAD INCLUDED BEARING TYPE CONNECTION U.N.O.
9. GRIND ALL WELDS AND EDGES SMOOTH AS REQUIRED
10. ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET ...
11. HOT DIP GALVANIZING TO A123M MIN COATING 600g/m².
12. ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.

GENERAL NOTES

1. THESE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSTRUCTION DOCUMENTS. DEVIATION OF PROJECT CONSTRUCTION IS NOT ACCEPTABLE UNLESS INSTRUCTED BY THE ENGINEER.
2. ALL INFORMATION CONCERNING EXISTING SITE CONDITIONS HAVE BEEN TAKEN FROM ORIGINAL DRAWINGS AND SITE MEASUREMENTS. SHOULD INFORMATION OR SITE CONDITIONS DIFFER SIGNIFICANTLY FROM THAT SHOWN, ADVISE CCG ENGINEERING.
3. DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNLESS NOTED "FOR CONSTRUCTION".
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
5. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STRUCTURES AND BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
6. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT INSPECTIONS OR ACCEPT PHOTOS OF REINFORCING PRIOR TO THE PLACEMENT OF CONCRETE.
7. THREADROD EPOXY INSTALLATION IS TO BE HILTI HY-200 U.N.O. OR ENGINEERING APPROVED ALTERNATE
8. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT THE PULL TESTS IF NECESSARY

rev	description	by / par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6095.4 SKIDEGATE CHANNEL WEST NARROWS DAYBEACON #2

FIXED AID TO NAVIGATION

Drawing - Dessin

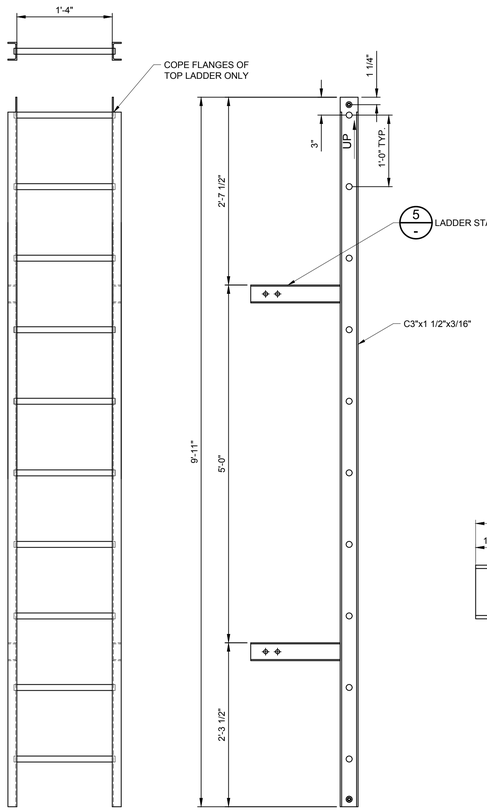
NAV-AID REBUILD

drawn - dessiné	date: 2016-11-04
designed - conception	AW — date: 2017-06-12
checked - vérifié	AW — date: 2017-07-26
approved - approuvé	AW — date: 2017-09-08
CCG ref. no. - no. réf. GCC	AFI26 — scale - échelle: AS SHOWN
drawing no. - no. dessin	23995 — sheet-feuille: 01/02 — rev-rév: 0

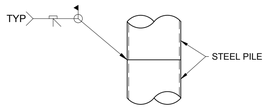
Arch D

K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6095.4 SKIDEGATE CHANNEL WEST NARROWS DAYBEACON #2\DRAWING\SUL 6095.4 SKIDEGATE CHANNEL W NARROWS DAYBEACON #2.DWG

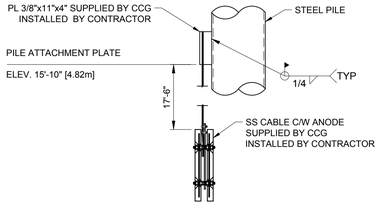
23995



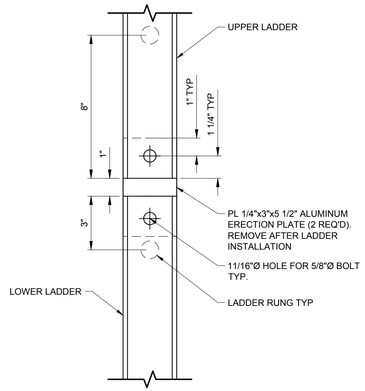
DETAIL 2/01 C3 ALUMINUM LADDER (2 REQUIRED)
SCALE:1" = 1'-0"



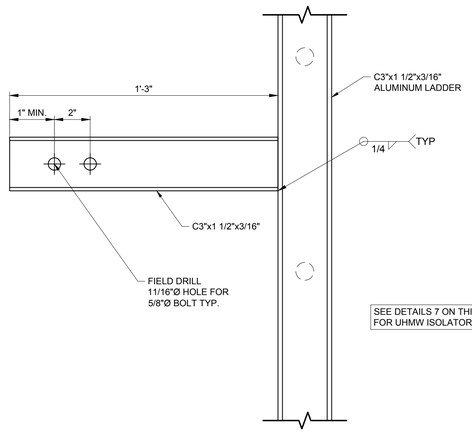
DETAIL 1/01 PILE SPLICE
SCALE:1/2" = 1'-0"



DETAIL 3/01 ANODE SIDE VIEW
SCALE:1/2" = 1'-0"

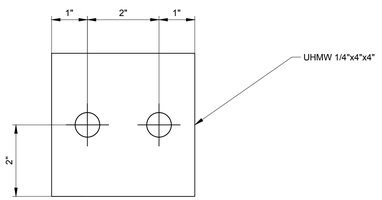


DETAIL 4/01 LADDER SPLICE
SCALE:3" = 1'-0"

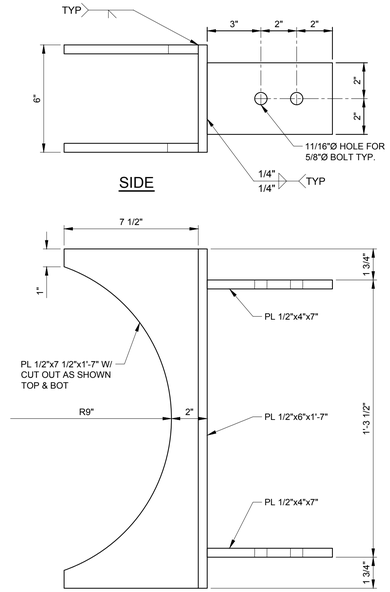


SEE DETAILS 7 ON THIS PAGE
FOR UHMW ISOLATOR DETAILS

DETAIL 5/- LADDER STANDOFF
SCALE:3" = 1'-0"



DETAIL 7/- UHMW ISOLATOR (8 REQUIRED)
SCALE:6" = 1'-0"



DETAIL 8/01 CUSTOM STEEL CHANNEL (4 REQUIRED)
SCALE:3" = 1'-0"

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

23995

rev	description	by/par.	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif
UL 6095.4 SKIDEGATE CHANNEL
WEST NARROWS DAYBEACON #2

FIXED AID TO NAVIGATION

Drawing - Dessin

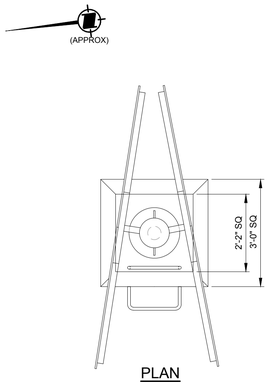
NAV-AID REBUILD

	date
drawn - dessiné: TK/BR	2016-11-04
designed - conception: AW	2017-06-12
checked - vérifié: AW	2017-07-26
approved - approuvé: AW	2017-09-08
CCG ref. no. - no. réf. GCC: AFI26	scale - échelle: AS SHOWN
drawing no. - no. dessin: 23995	sheet-feuille: 02/02; rev-rév: 0

K:\ATON\FIXED\UL (UNLIT)\PACIFIC\UL 6095.4 SKIDEGATE CHANNEL WEST NARROWS DAYBEACON #2 LOS6\DRAWING\SUL 6095.4 SKIDEGATE CHANNEL W NARROWS DAYBEACON #2.DWG

Arch D

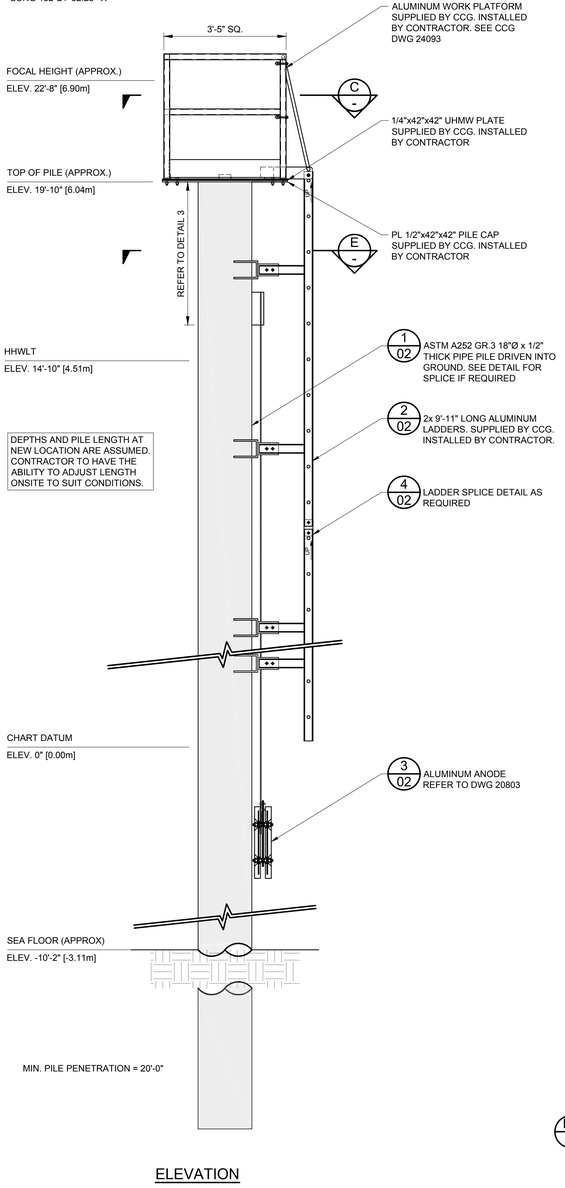
23995



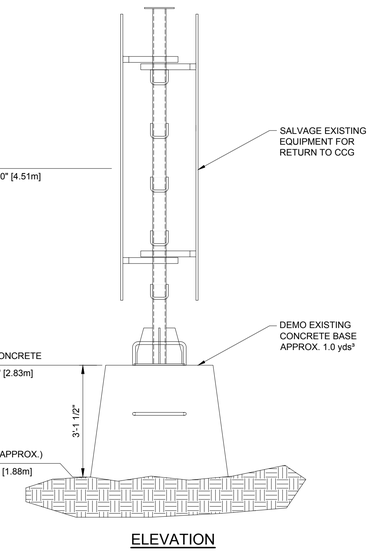
PLAN

PILE ORIENTATION AND LOCATION TO BE CONFIRMED BY CCG REPRESENTATIVE IN THE FIELD

PILE APPROX. LOCATION:
LAT 53°08' 54.98" N
LONG 132°21' 52.25" W



DEPTHS AND PILE LENGTH AT NEW LOCATION ARE ASSUMED. CONTRACTOR TO HAVE THE ABILITY TO ADJUST LENGTH ONSITE TO SUIT CONDITIONS.

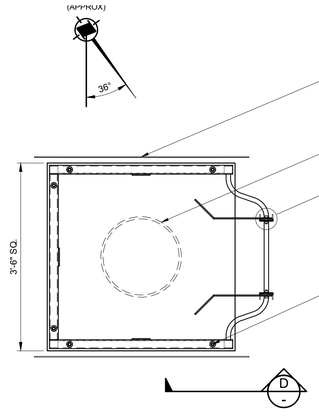


ELEVATION

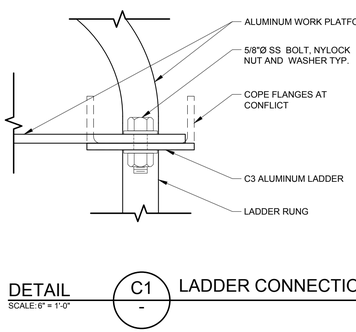
EXISTING A - 10' SPT
SCALE:1/2" = 1'-0"

ELEVATION

PROPOSED B - STEEL DOLPHIN
SCALE:1/2" = 1'-0"

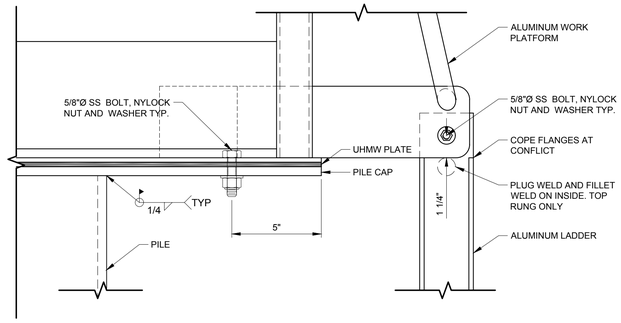


PLAN C - TOP OF HANDRAIL
SCALE:3/4" = 1'-0"

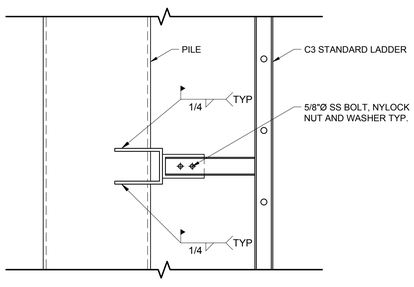


DETAIL C1 - LADDER CONNECTION
SCALE:6" = 1'-0"

SECTION E - LADDER STANDOFF (TOP VIEW)
SCALE:1" = 1'-0"

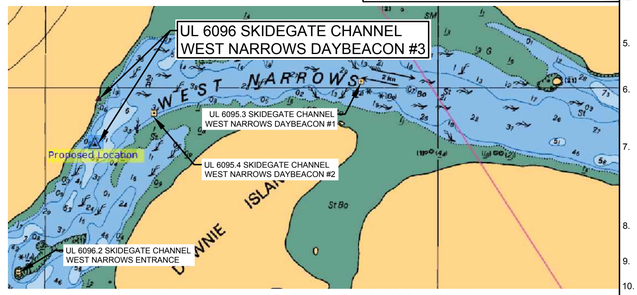


SECTION D - PILE CAP AND LADDER CONNECTION
SCALE:3" = 1'-0"



SECTION E1 - LADDER STANDOFF (SIDE VIEW)
SCALE:1" = 1'-0"

UL 6096 SKIDEGATE CHANNEL WEST NARROWS DAYBEACON #3 NOV 2016



LOCATION CHARTLET (PART OF 3891) N.T.S.

ALUMINUM NOTES

1. FABRICATE ALL ALUMINUM IN CONFORMANCE WITH CAN3-S157-05 AND IN ACCORDANCE WITH DRAWINGS. USE THE MOST CURRENT OF ALL CODE REFERENCES.
2. FABRICATOR TO BE CERTIFIED UNDER CSA-W47.2 DIV 2 FOR FUSION WELDING OF ALUMINUM & CSA-W55.3 FOR RESISTANCE WELDING OF STRUCTURAL COMPONENTS.
3. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH CSA-W59.2
4. BAR, ROD WIRE, TUBES, PLATE & EXTRUDED SHAPES SHALL BE ALLOY GRADE 6061-T6.
5. ALL WELDING WIRE SHALL BE ALLOY GRADE 5356.
6. ALUMINUM TO BE CLEAR ANODIZED PRIOR TO FAB.
7. NO SHARP EDGES. GRIND AND SAND SMOOTH AS REQUIRED.
8. NO CUTTING OR HOLES EXCEPT AS SHOWN ON DRAWINGS.
9. MECHANICAL CONNECTIONS, STAINLESS STEEL CONFORMING TO AISI 316.
10. TWO COATS OF BITUMINOUS PAINT CONFORMING TO ASTM D1187 TYPE 1 SHALL BE USED WHEN ALUMINUM SURFACE IS IN CONTACT WITH CONCRETE.

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

STRUCTURAL STEEL - CCG

1. SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16
2. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY FABRICATORS FULLY APPROVED* BY THE CANADIAN WELDING BUREAU UNDER CSA W47.1 FOR DIVISION 2
3. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
   .1 CHANNELS, ANGLES AND PLATE: CAN/CSA-G40.21, GR. 300W
   .2 HSS SECTIONS: CAN/CSA-G40.21, GR. 350W
   .3 COLD FORMED METAL: CAN/CSA-S136
   .4 STRUCTURAL BOLTS: ASTM-A325
   .5 ANCHOR RODS: ASTM-A307 GALVANIZED OR ASTM A193 SS
4. ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF CISC/CPMA 2-75 QUICK DRYING RED OXIDE SHOP PRIMER EXCEPT PARTS EMBEDDED IN CONCRETE SHALL NOT TO BE PAINTED.
5. ALL CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS, CONNECTION DESIGN SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
6. BEAM CONNECTIONS SHALL BE STANDARD FRAME CONNECTIONS OR EQUAL PROPORTIONED FOR 60% OF THE VERTICAL SHEAR CORRESPONDING TO THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM.
7. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED PRIOR TO FABRICATION. SUBMIT 4 COPIES OF SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND FIT-UP OF ALL COMPONENTS.
8. BOLTS SHALL BE 3/4" DIAMETER AND BE DESIGNED FOR THREAD INCLUDED BEARING TYPE CONNECTION U.N.O.
9. GRIND ALL WELDS AND EDGES SMOOTH AS REQUIRED
10. ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET
11. HOT DIP GALVANIZING TO A123M MIN COATING 600g/m².
12. ALL TOUCH UP AND FIELD WELDS TO BE CLEANED AND PAINTED WITH ZINC RICH COLD GALVANIZING TO A780M.

GENERAL NOTES

1. THESE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSTRUCTION DOCUMENTS. DEVIATION OF PROJECT CONSTRUCTION IS NOT ACCEPTABLE UNLESS INSTRUCTED BY THE ENGINEER.
2. ALL INFORMATION CONCERNING EXISTING SITE CONDITIONS HAVE BEEN TAKEN FROM ORIGINAL DRAWINGS AND SITE MEASUREMENTS. SHOULD INFORMATION OR SITE CONDITIONS DIFFER SIGNIFICANTLY FROM THAT SHOWN, ADVISE CCG ENGINEERING.
3. DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNLESS NOTED "FOR CONSTRUCTION".
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
5. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STRUCTURES AND BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
6. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT INSPECTIONS OR ACCEPT PHOTOS OF REINFORCING PRIOR TO THE PLACEMENT OF CONCRETE.
7. THREADROD EPOXY INSTALLATION IS TO BE HILTI HY-200 U.N.O. OR ENGINEERING APPROVED ALTERNATE
8. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT THE PULL TESTS IF NECESSARY

rev	description	by par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6096 SKIDEGATE CHANNEL WEST NARROWS DAYBEACON #3

FIXED AID TO NAVIGATION

Drawing - Dessin

NAV-AID REBUILD

drawn - dessiné	date
TK/BR	2016-11-04
designed - conception	date
AW	2017-06-12
checked - vérifié	date
AW	2017-07-26
approved - approuvé	date
AW	2017-09-08
CCG ref. no. - no. réf. GCC	scale - échelle
AFI26	AS SHOWN
drawing no. - no. dessin	sheet-feuille / rev-rév
23996	01/02 / 0

23996

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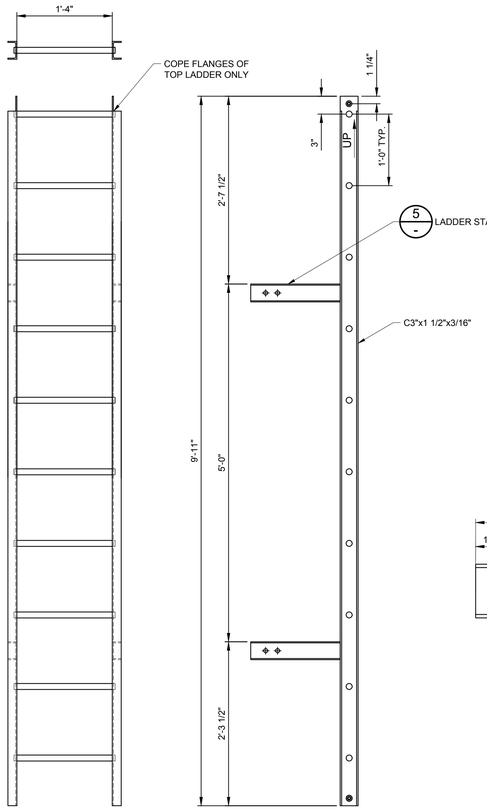
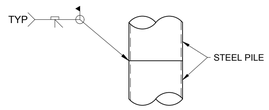
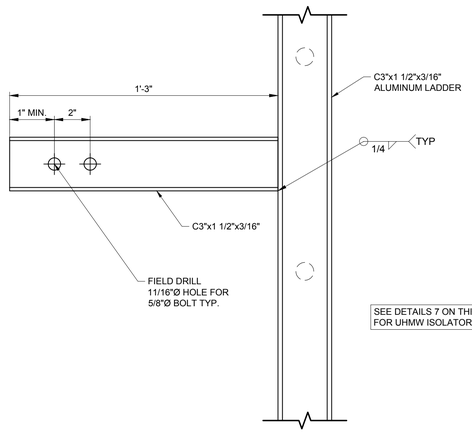


FRONT SIDE

DETAIL 2 / 01 — C3 ALUMINUM LADDER (2 REQUIRED)
SCALE: 1" = 1'-0"

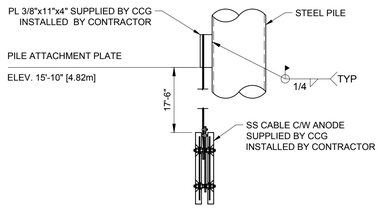


DETAIL 1 / 01 — PILE SPLICE
SCALE: 1/2" = 1'-0"

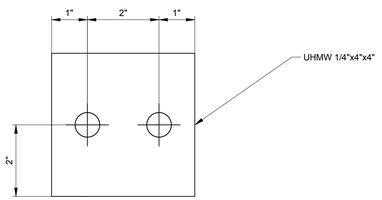


SEE DETAILS 7 ON THIS PAGE FOR UHMW ISOLATOR DETAILS

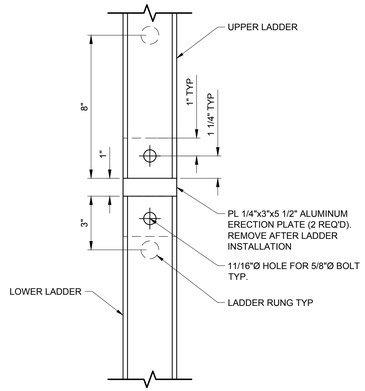
DETAIL 5 / - — LADDER STANDOFF
SCALE: 3" = 1'-0"



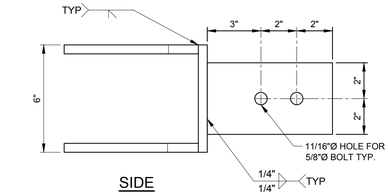
DETAIL 3 / 01 — ANODE SIDE VIEW
SCALE: 1/2" = 1'-0"



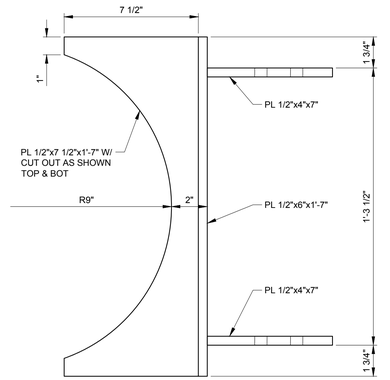
DETAIL 7 / - — UHMW ISOLATOR (8 REQUIRED)
SCALE: 6" = 1'-0"



DETAIL 4 / 01 — LADDER SPLICE
SCALE: 3" = 1'-0"



SIDE



TOP

DETAIL 8 / 01 — CUSTOM STEEL CHANNEL (4 REQUIRED)
SCALE: 3" = 1'-0"

Fisheries and Oceans Canada / Pêches et Océans Canada
Canadian Coast Guard / Garde côtière Canadienne

23996

rev	description	by / par	date
0	FOR CONSTRUCTION	BR	2017-08-31

Asset - Actif

UL 6096 SKIDEGATE CHANNEL
WEST NARROWS DAYBEACON #3

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NAV-AID REBUILD

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checked - vérifié: AW	2017-07-26
approved - approuvé: AW	2017-09-08
CCG ref. no. - no. réf. GCC: AFI26	scale - échelle: AS SHOWN
drawing no. - no. dessin: 23996	sheet-feuille: 02/02 — rev-rév: 0

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