

ROCK REMOVAL SURVEY NOTES

SURVEY PARTY CHIEF: DARRYL GREEN
SURVEY VESSEL: SCOTIA SURVEYOR
SURVEY DATE(S): JANUARY 20, 2016

SOUNDER TYPE: ROSS SWEEP SYSTEM
SOUNDER SETTING: N/A VEL. OF SOUND: 1447
DEPTH GATE USED: N/A FRE. OF TRANS.: 190-210KHZ
POSITIONING SYSTEM USED: TRIMBLE 5700 DGPS (RTK)
LAND SURVEY POSITION BY: N/A

RAW DATA FILE(S): PTG020MX.ZIP
CAD DRAWING FILE(S): PTG020A-COMPOSITE.DWG

TIDAL REDUCTION SCHEME: PWC TBM, TOP OF CONC. DECK, ELEV. 2.83m ABOVE C.D.
REFERENCED TO CHS BM 3-1967, PETIT DE GRAT 5.538m ABOVE C.D.

OFFICE PROCESSOR: DAVID MATTHEWS
DATE OF PROCESSING: JANUARY 28, 2016

MODE OF PLOTTING: MINIMUM DEPTHS
MATRIX CELL WIDTH X LENGTH: 1.2m X 3.0m

CONTROL POINTS: UTM NAD83 (ZONE 20)
PL. NAME EASTING NORTHING CD ELEV DESCRIPTION
2762 659554.097 5041243.527 N/A LRIS CONTROL
2761 659075.507 5041384.652 N/A LRIS CONTROL
3-1967 N/A N/A 5.538 CHS MONUMENT
PT. A 659234.732 5041284.707 2.816 PWGSC CONTROL
PT. B 659280.859 5041238.287 2.680 PWGSC CONTROL
PT. C 659328.486 5041326.401 2.999 PWGSC CONTROL
PT. 2009N9515 N/A N/A 2.952 CHS MONUMENT

ALL VERTICAL CONTROL WAS RE-ESTABLISHED BY PWGSC AND
REFERENCED TO THE NEW CHS BENCHMARK 2009N9515 (ELEV. +2.952m
ABOVE CHART DATUM) ON JUNE 11, 2012 BY LEVELLING. ALL PREVIOUSLY
USED CHS BENCHMARKS WERE DESTROYED. ALL PWGSC HISTORICAL
SURVEYS WERE USING A DATUM OF APPROXIMATELY 12 CENTIMETERS
HIGHER WHEN COMPARED WITH THE NEWLY ESTABLISHED CHS
BENCHMARKS IN 2010.

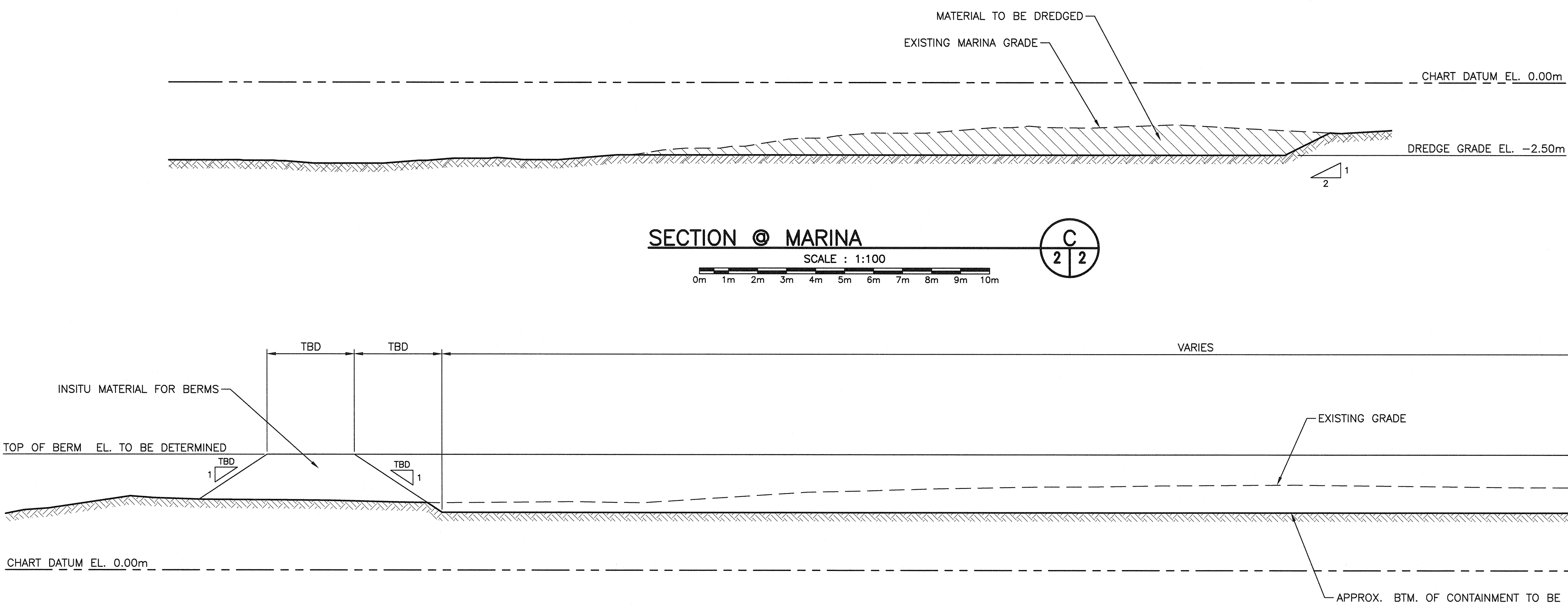
ROCK TARGET LOCATIONS

LABEL EASTING NORTHING
A 659211.43 5041194.82
B 659205.07 5041198.77
C 659204.34 5041210.91
D 659185.90 5041213.91

BOULDER REMOVAL OR CLASS "A" MATERIAL
REMOVAL TO EL. -2.50m

BASIN (MARINA) DREDGE AND ROCK REMOVAL PLAN

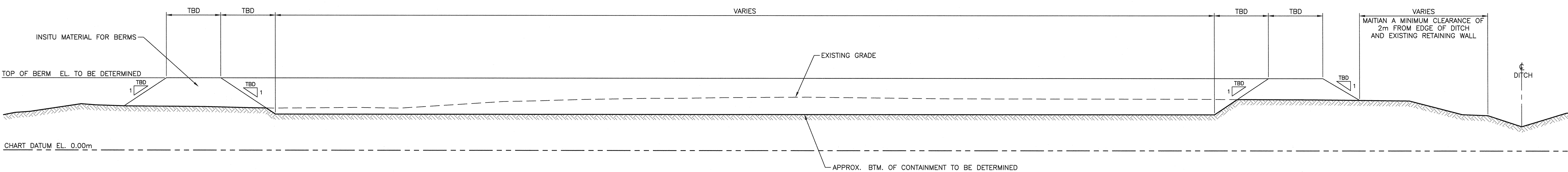
SCALE : 1:500
0m 10m 20m 30m 40m 50m



SECTION @ MARINA

SCALE : 1:100
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

C
2 2



SECTION @ DISPOSAL AREA

SCALE : 1:100
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

D
2 2

BASIN (MARINA) SURVEY NOTES

SURVEY PARTY CHIEF: DARRYL GREEN
SURVEY VESSEL: SCOTIA SURVEYOR
SURVEY DATE(S): JULY 15, 2015

SOUNDER TYPE: ROSS SWEEP SYSTEM
SOUNDER SETTING: INST. VEL. OF SOUND 1488
DEPTH GATE USED: N/A FRE. OF TRANS.: 190-210KHZ
POSITIONING SYSTEM USED: TRIMBLE 5700 DGPS (RTK)
LAND SURVEY POSITION BY: N/A

RAW DATA FILE(S): PTG196MX.ZIP
CAD DRAWING FILE(S): PTG196A-ENTRANCE.DWG

TIDAL REDUCTION SCHEME: PWC TBM, TOP OF CONC. DECK, ELEV. 2.83m ABOVE C.D.
REFERENCED TO CHS BM 3-1967, PETIT DE GRAT 5.538m ABOVE C.D.

OFFICE PROCESSOR: STEPHANIE DUFFY
DATE OF PROCESSING: AUGUST 14, 2015

MODE OF PLOTTING: AVERAGE (SEE NOTE 3, BELOW)
MATRIX CELL WIDTH X LENGTH: 1.2m X 3.0m

CONTROL POINTS: UTM NAD83 (ZONE 20)
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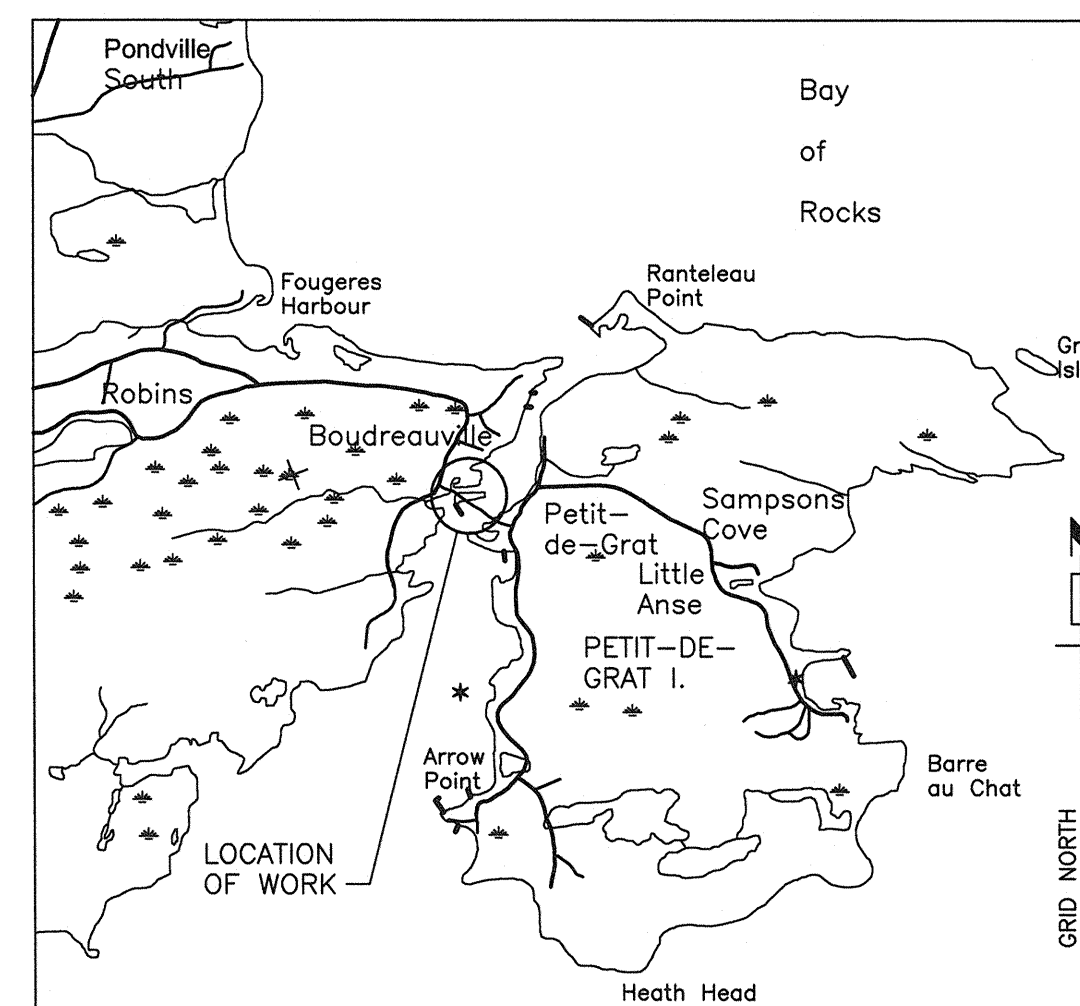


CHART
SCALE 1:50 000