

**TOWN OF TROUT RIVER
RIVER DREDGING
DECCM # 17-MCW-20-00028**

ENVIRONMENTAL ASSESSMENT REGISTRATION

Prepared for: **Minister of Environment, Climate Change and Municipalities**
Attention: Director of Environmental Assessment
West Block, Confederation Building
P.O. Box 8700
St. John's, NL
A1B 4J6

Prepared by: **Anderson Engineering Consultants Ltd.**
Suite 103, 3 Union Street
Corner Brook, NL
A2H 5M7

AECL Project No: 201729

Date: November 17, 2020

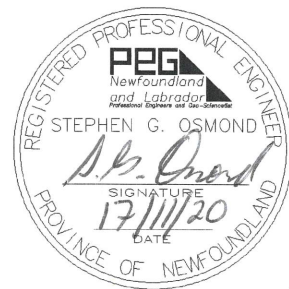
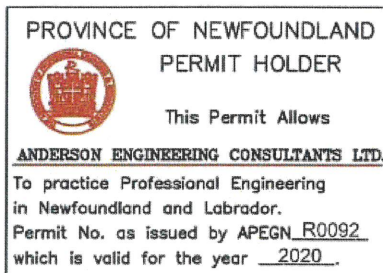


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NAME OF UNDERTAKING:

Trout River – River Dredging
DECCM#: 17-MCW-20-00028

PROPONENT:

(i) Name of Corporate Body: Town of Trout River

(ii) Address: P.O. Box 89
Trout River, NL
A0K 5P0

(iii) Chief Executive Officer:

Name: Horace Crocker

Official Title: Mayor

Address: P.O. Box 89
Trout River, NL
A0K 5P0

Telephone No: (709) 451-5376

Email Address: townclerk@townoftroutriver.com

(iv) Principal Contact Person for purposes of environmental assessment:

Name: Steve Osmond, P.Eng.

Official Title: Project Engineer

Address: Suite 103, 3 Union Street
Corner Brook, NL
A2H 5M7

Telephone No: (709) 634-9944 ext. 215

Email Address: andersoneng.sosmond@nfld.net

THE UNDERTAKING:

(i) Name of the Undertaking: Trout River – River Dredging

(ii) Purpose/Rationale/Need for the Undertaking:

Over time, sediment deposition has resulted in a reduced river depth near the mouth of Trout River. The area of interest is approximately 450 meters long, extending from the Riverside Drive Bridge to the government wharf at the mouth of the river. Several residential and commercial buildings, as well as recreational and fishing facilities exist along the river banks in this location.

Increased sediment deposition could potentially increase flood risk, jeopardizing facilities within the floodplain. Removal of the accumulated sediment deposit may serve as a mitigation measure for flood management.

Dredging/excavation would also continue to maintain this lower section as navigable for the watercraft that utilize the waterway for launching and docking vessels.

DESCRIPTION OF THE UNDERTAKING:

The following describes the undertaking including geographical location physical features, construction, operation, occupations and Issued for Tender (IFT) drawing package.

(i) Geographical Location:

The proposed site for this undertaking is approximately 450 meters of the lower section of Trout River. This section of the river extends from the Riverside Drive Bridge to the government wharf near the mouth of the river. The site is accessible by Main Street which runs adjacent to the east side of the river and by a large sand bar/outcrop running adjacent to the west side of the river (via Riverside Drive).



Figure 1: Google Earth Image - Trout River Town Overview

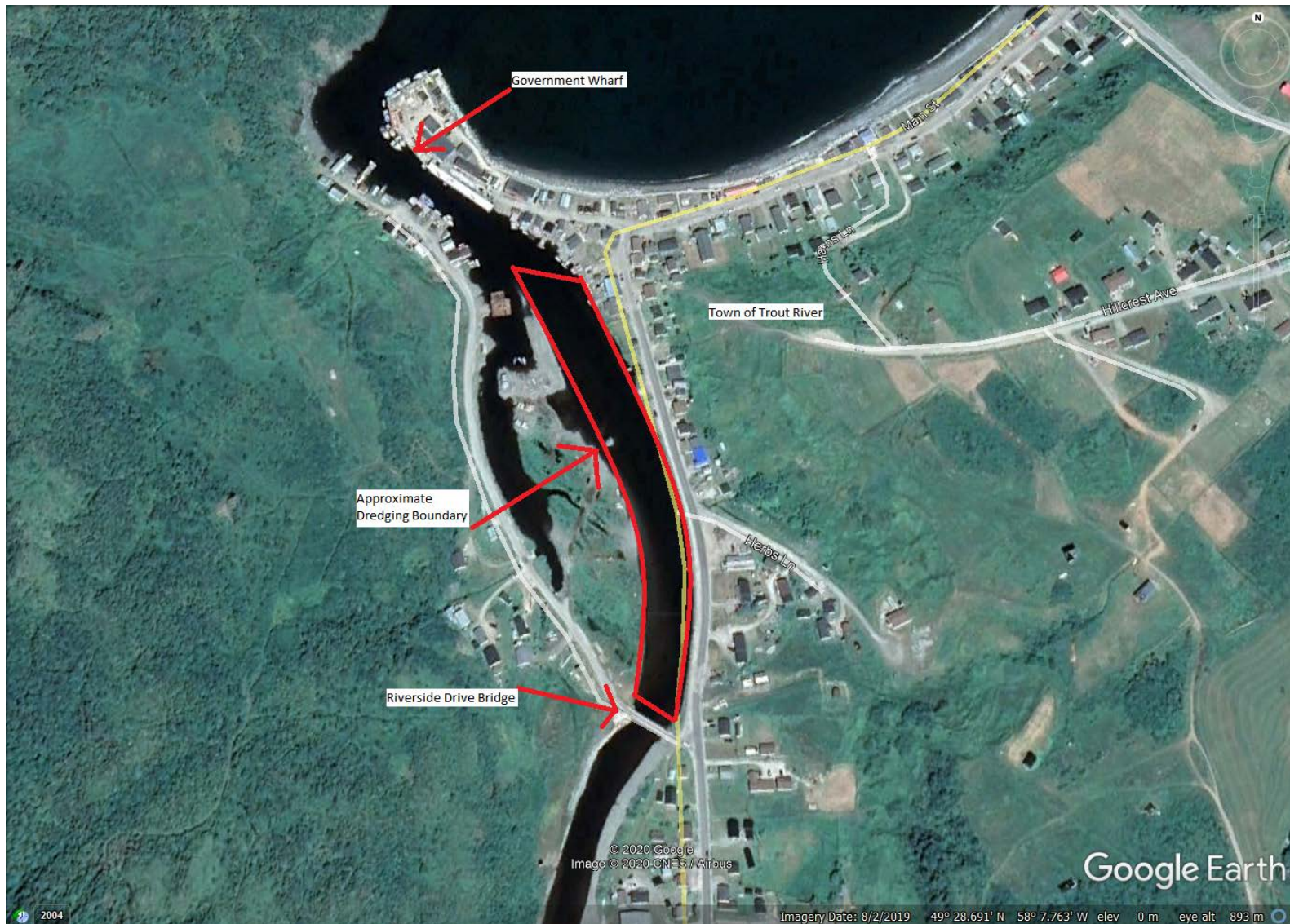


Figure 2: Google Earth Image - Trout River Project Area

(ii) Physical Features:

The undertaking does not entail the construction or modification of any new or existing infrastructure. The only physical feature affected by the undertaking is increasing the depth of Trout River via dredging/excavating of accumulated sediment.

Two roads run adjacent to the project location; Riverside Drive (west of project site), and Main Street (east of project site). A single-lane, wooden deck vehicle bridge exists at the bottom of Riverside Drive where it meets Main Street. There is a wooden utility pole line running adjacent to the east side of Main Street. A line branches off and crosses the river to Riverside Drive where it continues up the west side of Riverside Drive. Some dwellings exist along both roads on either side of the river in the project area; most are located on the side of the road that is opposite the river. At the north end of the river within the project location, there are several small personal wharves (finger piers, slipways), sheds, as well as a large government marginal wharf and commercial fishery facility.

The size of the area affected by this undertaking is the aforementioned section of Trout River that is approximately 450 meters long by 40 meters wide. The estimated volume of material to be removed from the project site is approximately 5000 cubic meters which is to be placed on land adjacent to the river. It should be placed in this location for a minimum of 24 hours to allow the material to dry. Once the dredged material has dried, it will be deposited to the local landfill or other location as approved by the Town.

The physical environment of the project site is primarily the lower end of Trout River with dredging/excavation taking place on the river bed. Trout River is a scheduled salmon river and is also open to the gulf of St. Lawrence, therefore, the vicinity of project area is suitable habitat for marine life and vegetation residing in brackish, salt, or fresh water such as fish, birds, and kelp. Mainly grasses exist along the river banks in the project area with little trees.

(iii) Construction:

The construction duration of this project is approximately 21 days. The proposed date of first physical, on-site, construction related activity is April 15, 2021 and work will be completed prior to May 15. However, the proposed date is now considered as earliest possible upon project approval. Potential sources of pollutants include hydrocarbons from heavy equipment such as excavators, silt and sediment from the disturbed river bed, and exhaust from heavy equipment. Excavation will be conducted by an appropriately sized excavator equipped with a long-reach boom, operating from land. Planned excavated sediment will be tested to confirm no hazardous materials requiring special disposal or treatment will be encountered. From current information including dredging activities at the government wharf north of the project site, there is no reason

to expect any such material but testing of soil samples will be conducted to verify this prior to the start of construction. Soil sampling results will be forwarded to the Environmental Assessment Division once received.

(iv) Operation:

The undertaking is not considered to be an operation beyond the construction activity of dredging/excavating the riverbed. The objective is to provide a deeper channel by removing deposited sediment which has accumulated over time. There are no apparent potential sources of pollutants beyond construction activities.

(v) Occupations:

The estimated number of personnel required for dredging activities for the project duration is approximately 10 workers. The assumed/approximate personnel breakdown is:

Heavy Equipment Operators: 4

Flagpersons: 2

Surveyors: 1

Labourers: 1

Supervisors/Inspectors: 2

The construction activities of this project are to be carried out by a contractor accompanied by an inspector. The contractor should be an equal opportunity employer.

(vi) Project Related Documents

See Appendix A “IFT Drawing Package”.

APPROVAL OF THE UNDERTAKING:

This undertaking has been requested, and thus approved, by the client, Town of Trout River. The project has been approved for financing by the Department of Environment, Climate Change, and Municipalities through the Municipal Capital Works Program.

SCHEDULE:

The earliest date on-site project construction could commence is October 31, 2020. The latest date for beginning of construction is April 15, 2021 due to contractor availability and winter construction/mobilization challenges. The intent is to tender as soon as possible with actual construction commencing after approved by the Minister.

FUNDING:


Funding for the project is to be provided through the Department of Environment, Climate Change and Municipalities and the Town of Trout River. The addresses of the aforementioned are as listed:

Department of Environment, Climate Change and Municipalities
P.O. Box 8700
St. John's, NL
A1B 4J6

Town of Trout River
P.O. Box 89
Trout River, NL
A0K 5P0

The total approved funding is \$281,750. This figure includes project capital cost, professional service fees and expenses, reimbursable allowance and HST.

Nov. 17/20
Date


Signature of Project Engineer

Appendix A – IFR Drawing Package

PROJECT:

RIVER DREDGING
DECCM#: 17-MCW-20-00028

CLIENT:

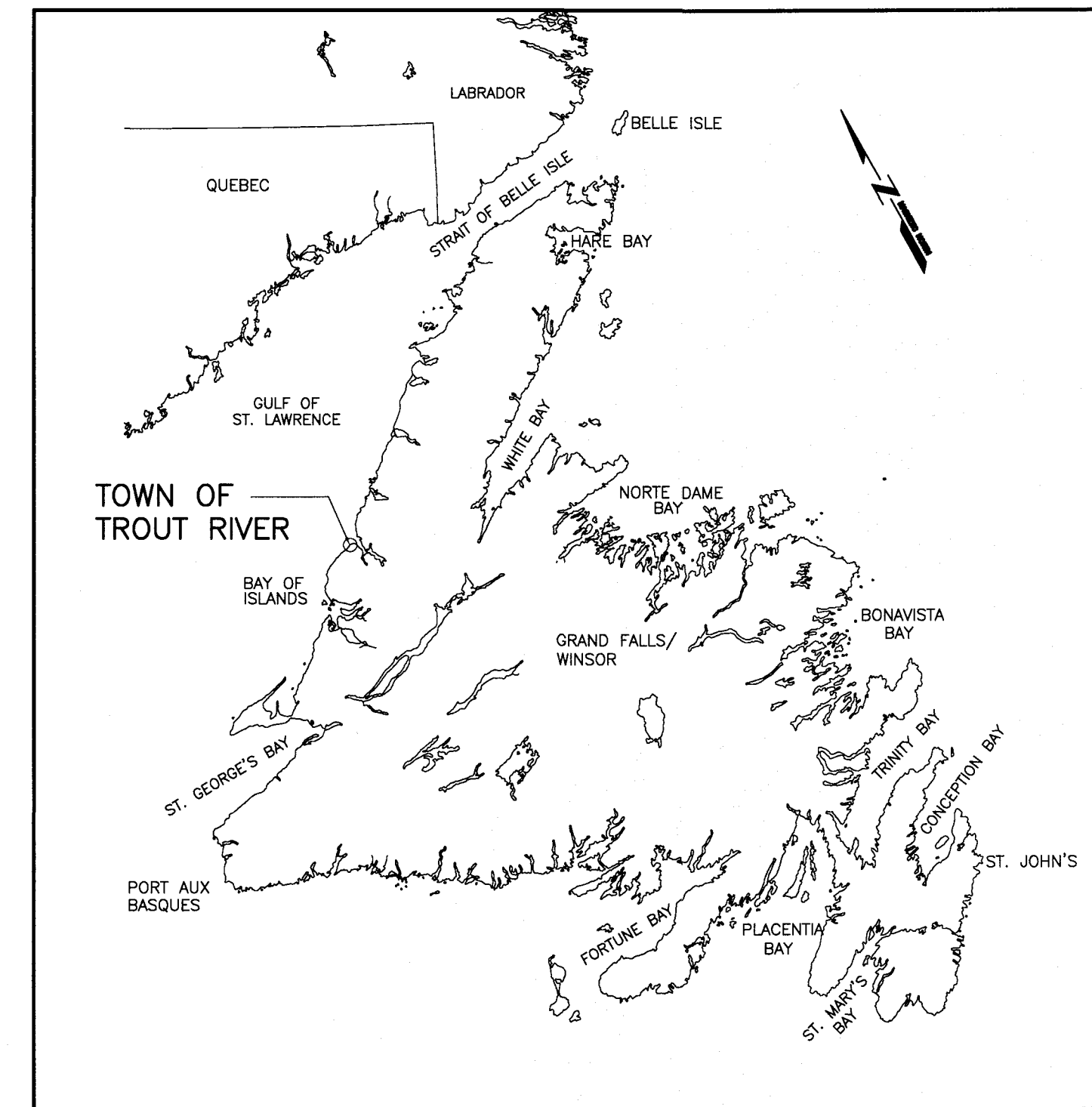
TOWN OF TROUT RIVER
P.O. BOX 89
TROUT RIVER,NL,
A0K 5P0

CONSULTANT:

ae anderson
engineering
consultants ltd.
civil,structural,municipal engineers and project managers

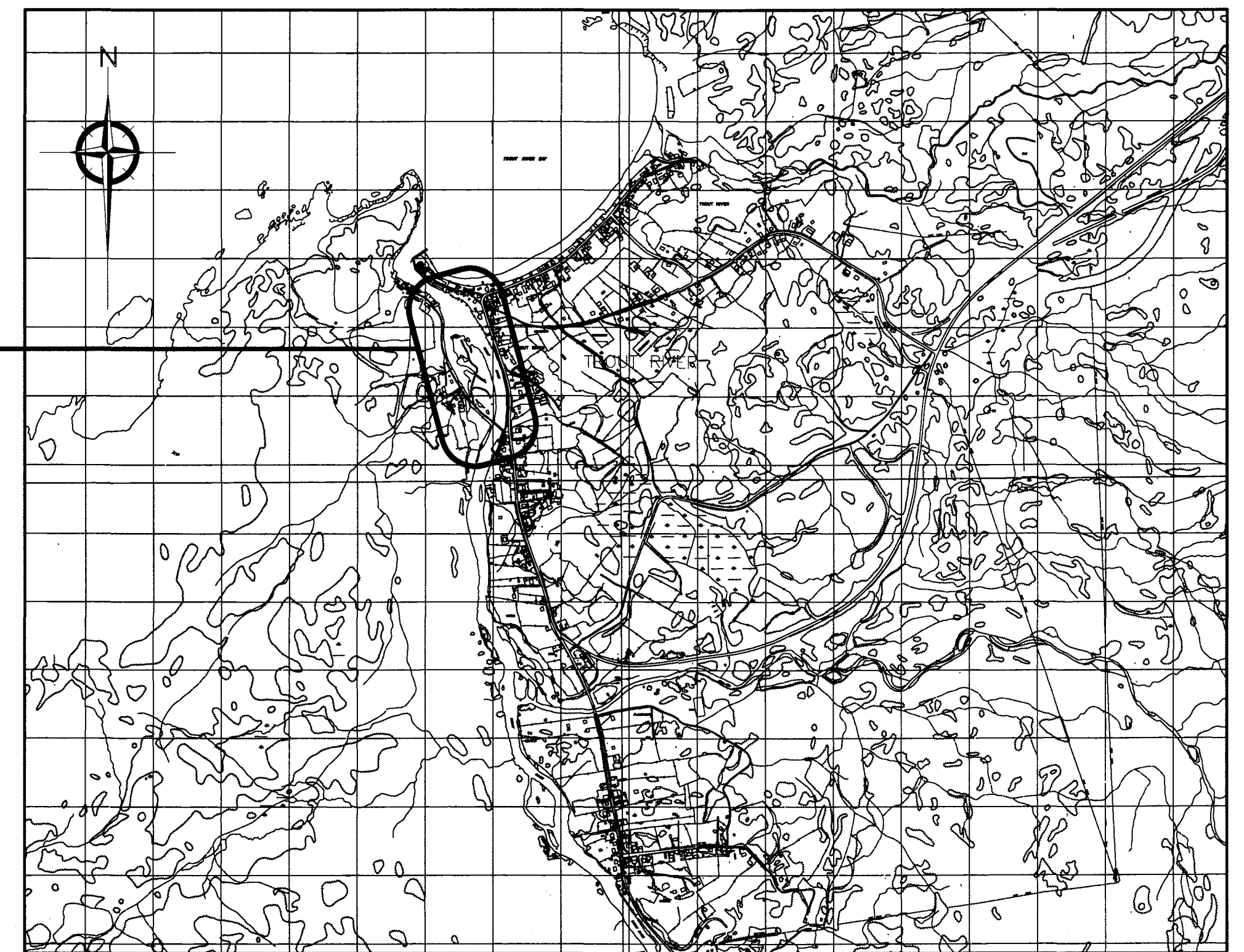
SUITE 103,
3 UNION ST, CORNER BROOK,
NEWFOUNDLAND, CANADA, A2H 5M7

AEC #: 201729
NOVEMBER 2020
ISSUED FOR REVIEW



PROJECT LOCATION MAP (N.T.S.)

PROJECT LOCATION

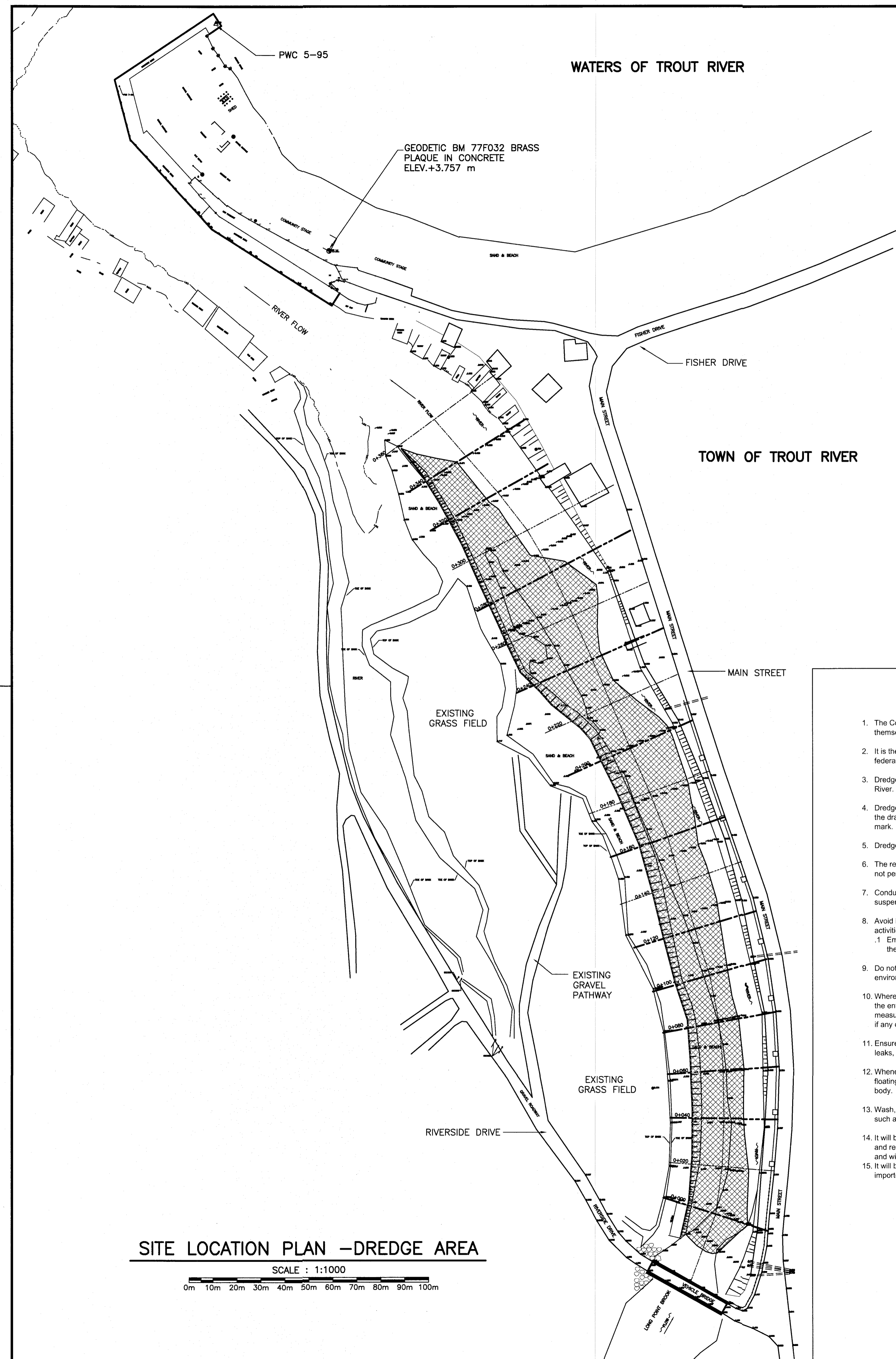


PROJECT LOCATION PLAN (N.T.S.)

LIST OF DRAWINGS:

- C-00 COVER PAGE / PROJECT LOCATION MAP / PROJECT LOCATION PLAN
- SP-01 SITE LOCATION PLAN - DREDGE AREA & GENERAL NOTES
- C-01 SITE PLAN - STA. 0+000 TO STA. 0+080
- C-02 SITE PLAN - STA. 0+080 TO STA. 0+200
- C-03 SITE PLAN - STA. 0+200 TO STA. 0+320
- C-04 SITE PLAN - STA. 0+320 TO STA. 0+380
- C-05 SECTIONS - STA. 0+000, STA. 0+040, STA. 0+060, STA. 0+080
- C-06 SECTIONS - STA. 0+100, STA. 0+120, STA. 0+160, STA. 0+200
- C-07 SECTIONS - STA. 0+240, STA. 0+280, STA. 0+320, STA. 0+340

201729



CONTROL POINTS:

PL. NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
87G3003	418291.179	5481323.727		PROVINCIAL BRASS PLAQUE SET IN CONCRETE
87G3004	419177.708	5481560.362		PROVINCIAL BRASS PLAQUE SET IN CONCRETE
BM 77F032	418048.51	5481452.00	+3.757 m	GEODETIC BRASS PLAQUE SET IN CONCRETE
PWC 5-95	418001.349	5481546.405	+2.866 m	BOLT CEMENTED IN DECK
PWC 1-94	417891.664	5481483.828	+5.170 m	BOLT CEMENTED IN BEDROCK
PWC 1-18	418056.724	5481439.513	+3.416 m	SURVEY NAIL IN PAVED ROAD

ALL SOUNDINGS & ELEVATIONS REFERRED TO GEODETIC BM 77F032 ELEV. +3.757 m ABOVE CHART DATUM (BRASS PLAQUE SET IN CONCRETE FOUNDATION OF COMMUNITY STAGE).

COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE U.T.M. MAPPING PLANE, ZONE 21, USING THE NORTH AMERICAN DATUM OF 1983(NAD83).

DREDGING CONTROL POINTS AT 0+000 (CENTERLINE)

MARK	EASTING	NORTHING
STA.0+000	418209.90	5481052.53
STA.0+040	418213.35	5481092.33
STA.0+060	418212.98	5481112.32
STA.0+080	418211.23	5481132.23
STA.0+100	418207.35	5481151.82
STA.0+120	418201.17	5481170.84
STA.0+160	418189.80	5481209.16
STA.0+200	418171.23	5481246.00
STA.0+240	418158.42	5481282.74
STA.0+280	418141.42	5481318.93
STA.0+320	418118.95	5481351.85
STA.0+340	418105.77	5481366.90

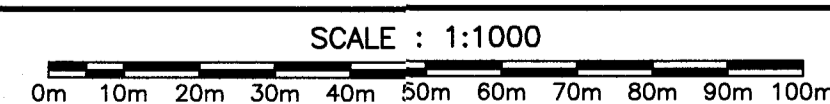
LEGEND:



- The Contractor shall carry out a thorough inspection of the entire job site to familiarize themselves with the extent and nature of the work prior to submitting their tender.
- It is the responsibility of the contractor to obtain necessary permits of approvals for the federal, provincial and municipal authorities.
- Dredge material are to be utilized at this location as per agreement with the Town of Trout River.
- Dredge material is to be stockpiled on site for a min of 24 hrs before transporting to allow for the drainage of water. The stockpile area is to be located as close as possible to high water mark.
- Dredge materials are to be transported in watertight trucks or containers to prevent leakage.
- The re-use of dredge materials for other purposes or disposal at an unapproved location is not permitted unless by written approval.
- Conduct all work activities in such a manner to limit turbidity and reduce sediment suspension in the water to an absolute minimum at all time.
- Avoid bottom stockpiling, dragging or side casting material during excavation. If these activities are being proposed, the Contractor must:
 - Employ suitable operational and engineering controls (e.g., silt curtain), as approved by the engineer, around the excavation work area.
- Do not wash down equipment within 30 metres of watercourse or other identified environmentally sensitive area.
- Where required, install effective sediment control measures before starting work to prevent the entry or re-suspension of sediment in the water body. Inspect sediment control measures regularly to ensure they are functioning properly, and make all necessary repairs if any damage occurs.
- Ensure that machinery arrives on site in a clean condition and is maintained free of fluid leaks, invasive species and noxious weeds.
- Whenever possible, operate machinery on land above the high-water mark, on ice, or from a floating barge in a manner that minimizes disturbance to the banks and bed of the water body.
- Wash, refuel and service machinery and store fuel and other materials for the machinery in such a way as to prevent any deleterious substances from entering the water.
- It will be the Contractor's responsibility to gain access to the work area. The construction and removal of temporary causeways and access roads will be at the Contractor's expense and will be removed immediately after clearance of the excavated area.
- It will be the Contractor's responsibility to identify a location for the disposal of material imported by the Contractor for the construction of temporary causeways and access roads.

- All material used for construction of temporary causeways and access roads must be clean and free from excessive fines, organics, debris and non-toxic (i.e. free of fuel, oil, grease and/or any other contaminants), non-ore bearing and from a provincially approved non-water source.
- Heavy machinery and equipment must be operated from a dry platform only. Temporary causeways and access roads shall be constructed at an elevation such that machinery and equipment is operating completely out of the water at all stages of the tide. If tidal work is being carried out, machinery and equipment shall be relocated back to a suitable elevation to prevent operating in submerged waters.
- Maintain temporary buoys to mark the position of construction proceeds. All buoys are to meet requirements of the applicable Canadian Coast Guard standard and be equipped with radar reflectors.
- Provide, at own expense, survey vessel, equipment and crew to set up and maintain control for location of dredge limits and to sound areas immediately after dredging to verify that grade depth has been attained. Areas are to be sounded to provide sounding printout display of a least 3.0 x 3.0 UTM grid to approval.
- As soon as practical after acceptance of bid, the contractor to do a pre-dredge survey of all dredge area location. If any differences are found, engineering will complete new pre-dredge survey of all dredge area location for confirmation.
- No area will be dredged prior to Engineers and Contractor's mutual acceptance of pre-dredge survey for that area.
- Contractor to re-dredge as necessary to remove all material within dredge areas which is found to be above grade.
- Lay out work from control points and baselines established by the contractor be responsible for accuracy of work relative to established bench marks. Provide and maintain electronic position fixing and distance measuring equipment, laser transits and such other equipment as normally required for accurate dredging control.
- Do not dredge material from areas lying within 2 m of existing structure unless authorized by Engineer.
- Sweep dredged areas on completion of dredging to confirm that grade depth has been achieved.
- If, as result of incomplete Work, additional verification of depths by sounding or sweeping becomes necessary, additional costs involved shall be paid by Contractor.
- Re-dredge unsatisfactory work and verify depths with additional sounding or sweeping to approval of the Engineer.

SITE LOCATION PLAN - DREDGE AREA



GRID NORTH TRANSVERSE MERCATOR
N.A.D. 83 UTM ZONE 3

permit:

 PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
 This Permit Allows
 ANDERSON ENGINEERING CONSULTANTS LTD.
 To practice Professional Engineering
 in Newfoundland and Labrador.
 Permit No. as issued by APEGN, R0092
 which is valid for the year 2020.

stamp:

 designed by: S.G. OSMOND
 checked by: S.G. OSMOND
 approved by: W.J. ANDERSON
 date: 17/11/20

NOTES:

00	ISSUED FOR REVIEW	17/11/20
NO.	REVISION	DATE

A - DETAIL / SECTION NO.
 B - DWG. NO. WHERE DETAILED

anderson engineering consultants ltd.
 civil, structural, municipal engineers and project managers
 3 UNION STREET,
 SUITE 103, CORNER BROOK,
 NEWFOUNDLAND, CANADA, A2H-5M7
 TEL: (709) 634-9944, FAX: (709) 634-9945

CLIENT:
 TOWN OF
 TROUT RIVER
 P.O. BOX 89
 TROUT RIVER, NL
 NL, AOK 5P0

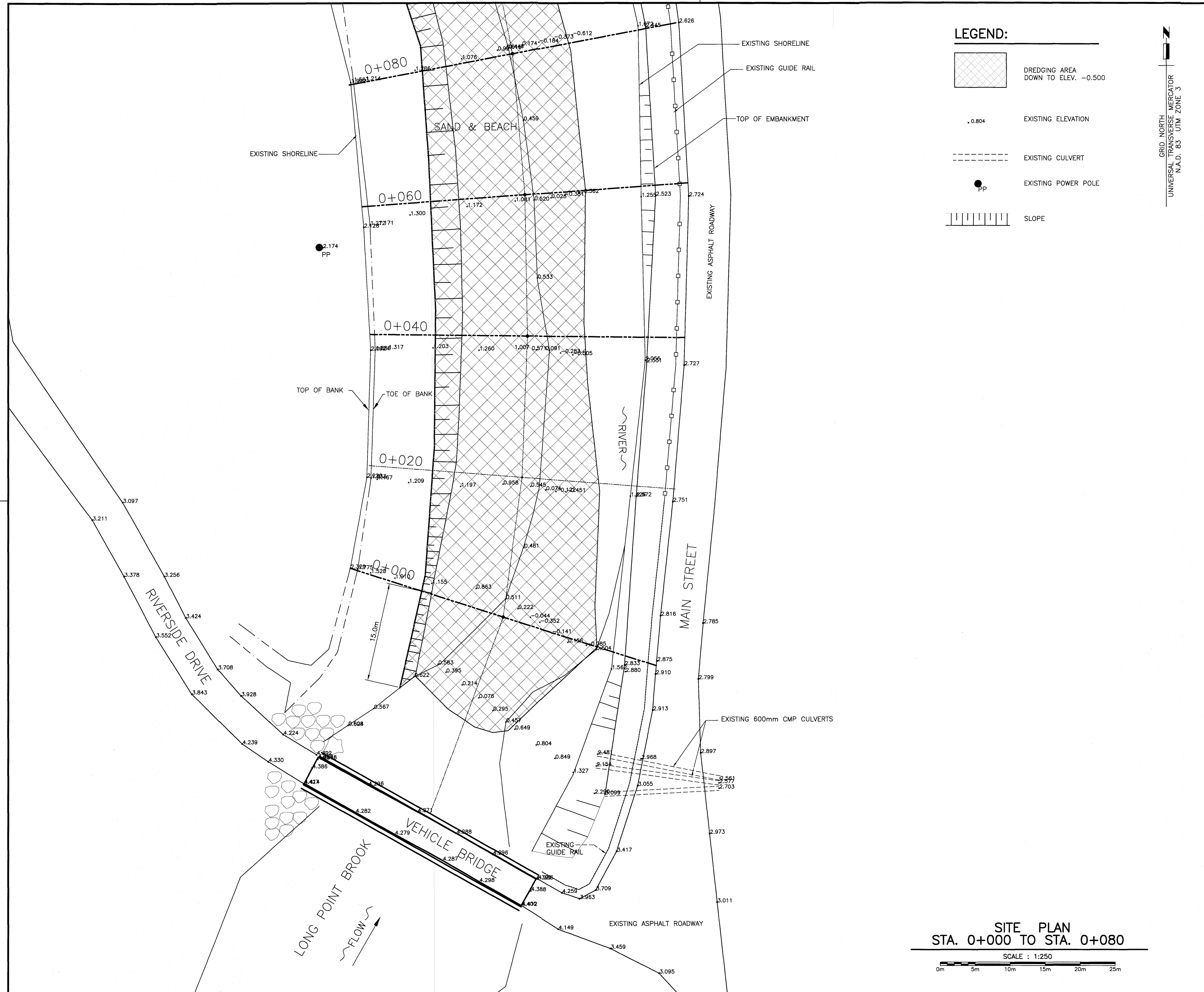
PROJECT:
 RIVER DREDGING
 DECCM #17 - MCW-20-00028

DRAWING TITLE:
 SITE LOCATION PLAN
 DREDGE AREA
 AND GENERAL NOTES

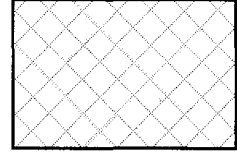
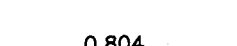
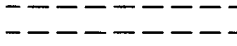


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 DEVELOPED BY: S.G. OSMOND SCALE: AS SHOWN
 AEC PROJECT NO:
201729

DRAWING NO: **SP-01** REV NO: 00


201729

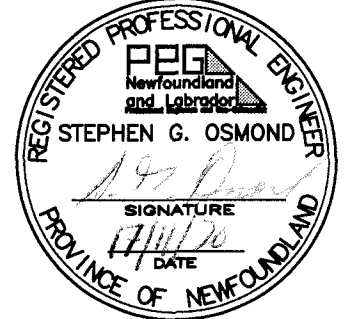


LEGEND:

-  DREDGING AREA DOWN TO ELEV. -0.500
-  .0804 EXISTING ELEVATION
-  EXISTING CULVERT
-  EXISTING POWER POLE
-  SLOPE

GRID NORTH
UNIVERSAL TRANSVERSE MERCATOR
N.A.D. 83 UTM ZONE 3

permit:
 **PERMIT HOLDER**
 This Permit Allows
 ANDERSON ENGINEERING CONSULTANTS LTD.
 To practice Professional Engineering
 in Newfoundland and Labrador
 Permit No. as issued by APECO: **80092**
 which is valid for the year: **2020**

stamp:
 **REGISTERED PROFESSIONAL ENGINEER**
STEPHEN G. OSMOND
 PROVINCE OF NEWFOUNDLAND

designed by: S.G. OSMOND
 checked by: S.G. OSMOND
 approved by: W.J. ANDERSON
 date: 17/11/20

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 civil structural municipal engineers and project managers

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PROJECT:
 RIVER DREDGING
 DECCM #17 - MCW-20-00028

DRAWING TITLE:
 SITE PLAN
 STA. 0+000 TO STA. 0+080

DRAWN BY: R.S.H. DATE: 17/11/20
 DEVELOPED BY: S.G. OSMOND SCALE: AS SHOWN
 AEC PROJECT NO: **201729**

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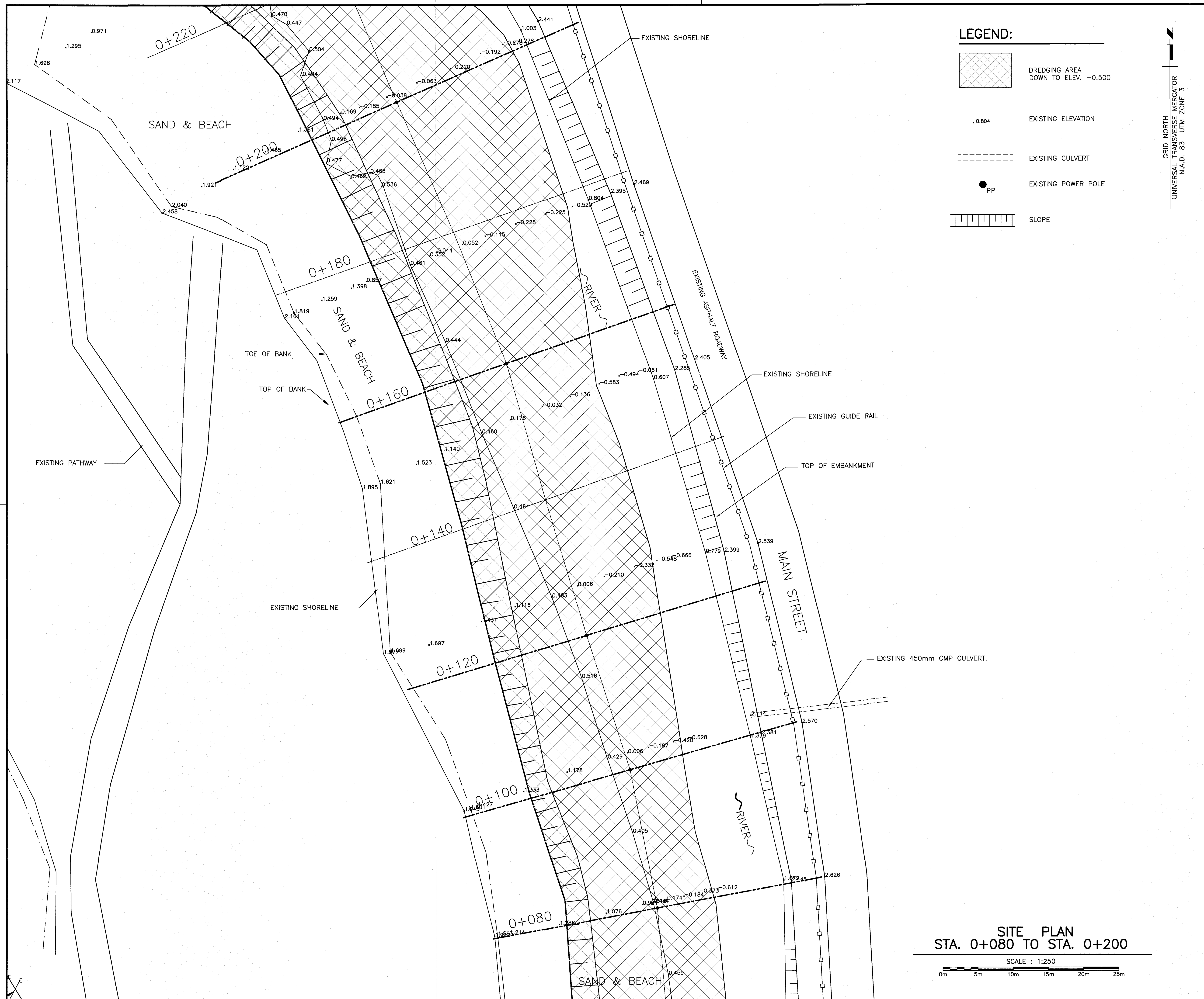
SITE PLAN
 STA. 0+000 TO STA. 0+080
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201729



LEGEND:

- DREDGING AREA DOWN TO ELEV. -0.500
- EXISTING ELEVATION
- EXISTING CULVERT
- EXISTING POWER POLE
- SLOPE

GRID NORTH
UNIVERSAL TRANSVERSE MERCATOR
N.A.D. 83 UTM ZONE 3

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 REGISTERED PROFESSIONAL ENGINEER
 ANDERSON ENGINEERING CONSULTANTS LTD.
 SIGNATURE
 17/11/20
 DATE

designed by: S.G. OSMOND
 checked by: S.G. OSMOND
 approved by: W.J. ANDERSON
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 NL, AOK 5P0

PROJECT:
 RIVER DREDGING
 DECCM #17 - MCW-20-00028

DRAWING TITLE:
 SITE PLAN
 STA. 0+080 TO STA. 0+200

DRAWN BY: R.S.H. DATE: 17/11/20
 DEVELOPED BY: S.G. OSMOND SCALE: AS SHOWN

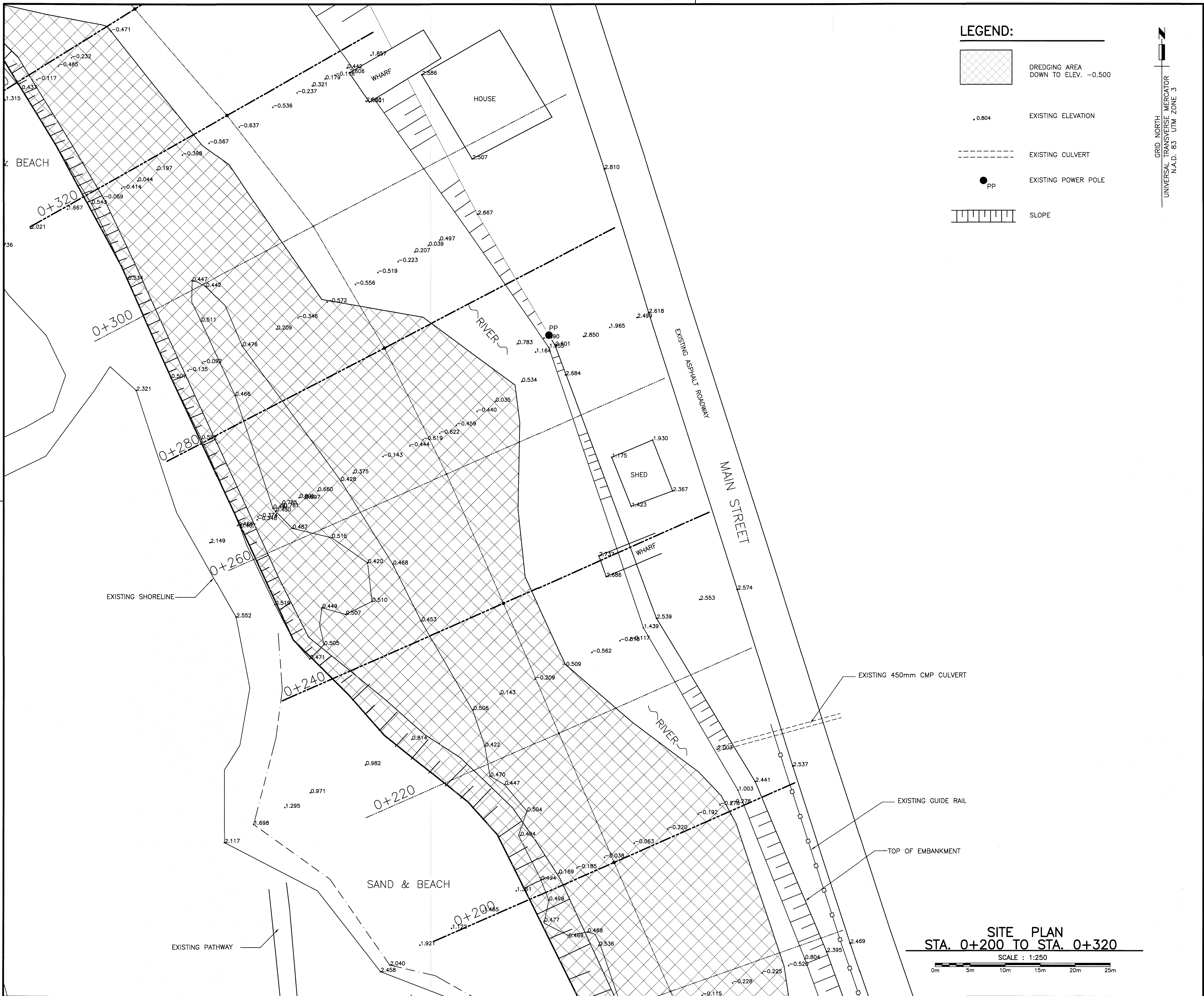
AEC PROJECT NO:
201729

DRAWING NO: **C-02** REV NO: 00

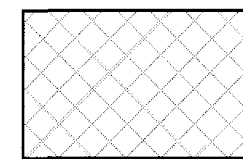
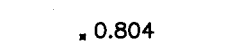
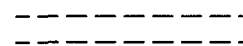

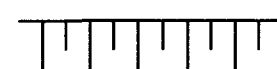
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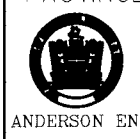
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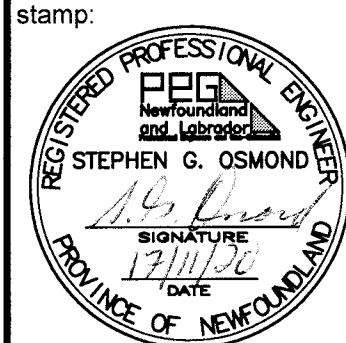


LEGEND:

-  DREDGING AREA DOWN TO ELEV. -0.500
-  .804 EXISTING ELEVATION
-  EXISTING CULVERT
-  PP EXISTING POWER POLE
-  SLOPE

GRID NORTH
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N.A.D. 83 UTM ZONE 3

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stamp:
 REGISTERED PROFESSIONAL ENGINEER
 STEPHEN G. OSMOND
 PROVINCE OF NEWFOUNDLAND

designed by: S.G.OSMOND
 checked by: S.G.OSMOND
 approved by: W.J.ANDERSON
 date: 17/11/20

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 civil, structural, municipal engineers and project managers

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 SUITE 103, CORNER BROOK,
 NEWFOUNDLAND, CANADA, A2H-5M7
 TEL: (709) 634-9944, FAX: (709) 634-9945

CLIENT:
 TOWN OF TROUT RIVER
 P.O. BOX 89
 TROUT RIVER, NL
 NL, AOK 5P0

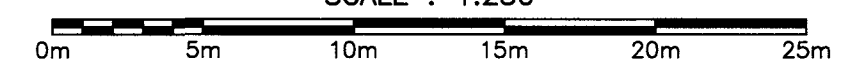
PROJECT:
 RIVER DREDGING
 DECCM #17 - MCW-20-00028

DRAWING TITLE:
 SITE PLAN
 STA. 0+200 TO STA. 0+320

DRAWN BY: R.S.H	DATE: 17/11/20
DEVELOPED BY: S.G.OSMOND	SCALE: AS SHOWN

AEC PROJECT NO:
201729

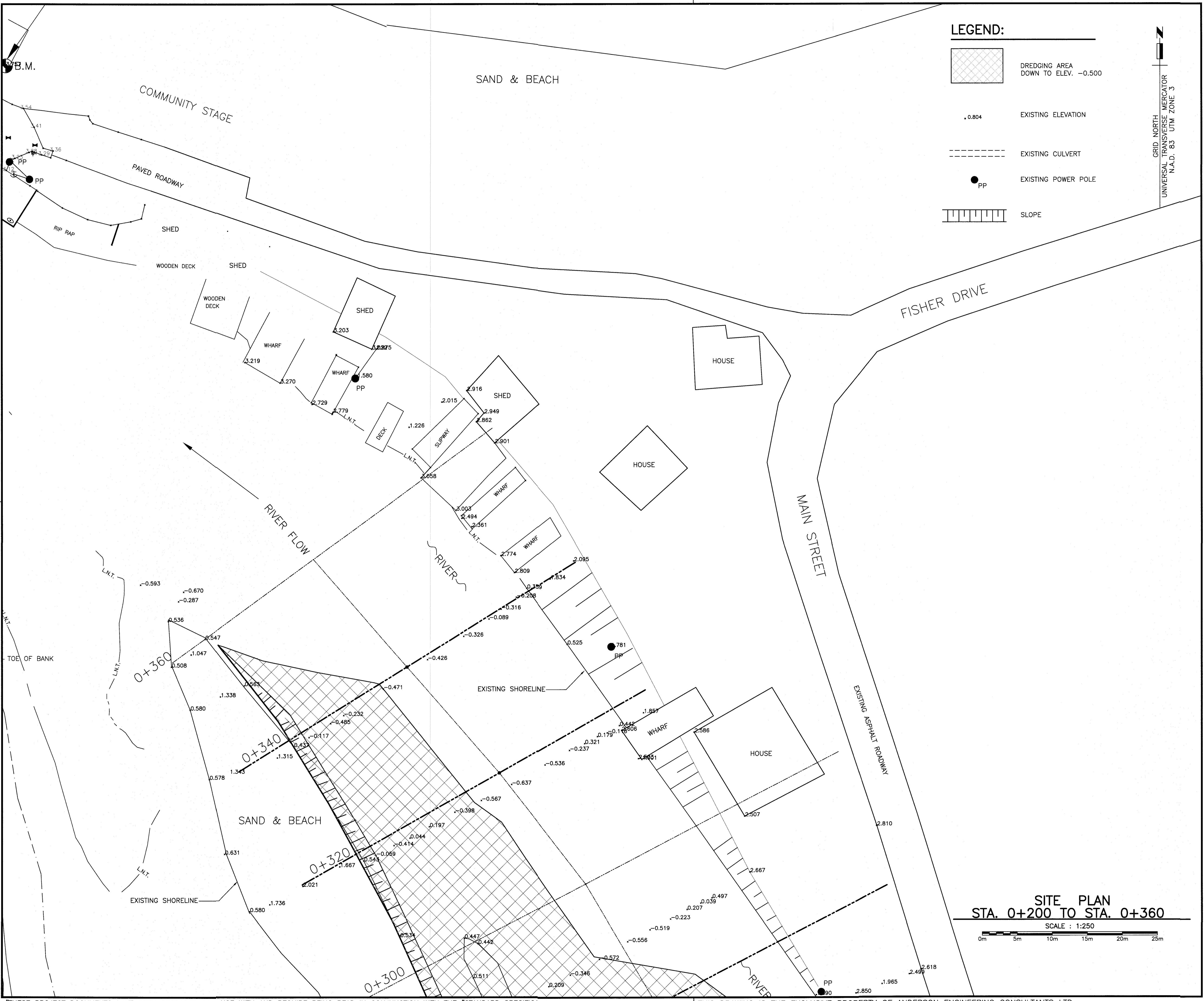
DRAWING NO. C-03	REV NO. 00
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SITE PLAN
STA. 0+200 TO STA. 0+320
 SCALE : 1:250


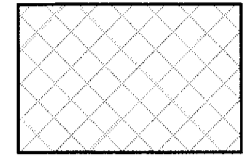
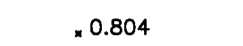
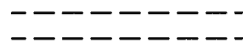

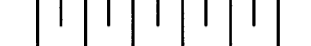
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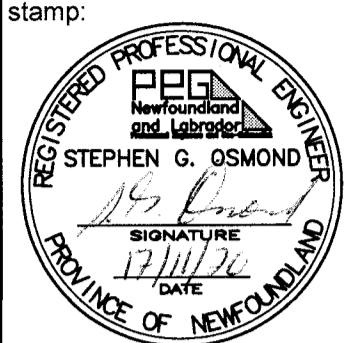


LEGEND:

-  DREDGING AREA DOWN TO ELEV. -0.500
-  0.804 EXISTING ELEVATION
-  EXISTING CULVERT
-  PP EXISTING POWER POLE
-  SLOPE

GRID NORTH
UNIVERSAL TRANSVERSE MERCATOR
N.A.D. 83 UTM ZONE 3

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 This Permit Allows
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 Permit No. as issued by APEGNL 80092
 which is valid for the year 2020.

stamp:

 designed by: S.G. OSMOND
 checked by: S.G. OSMOND
 approved by: W.J. ANDERSON
 date: 17/11/20

NOTES:

00	ISSUED FOR REVIEW	17/11/20
NO.	REVISION	DATE

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PROJECT:
 RIVER DREDGING
 DECCM #17 - MCW-20-00028

DRAWING TITLE:
 SITE PLAN
 STA. 0+320 TO STA. 0+360

DRAWN BY: R.S.H. DATE: 17/11/20
 DEVELOPED BY: S.G. OSMOND SCALE: AS SHOWN

AEC PROJECT NO:
201729

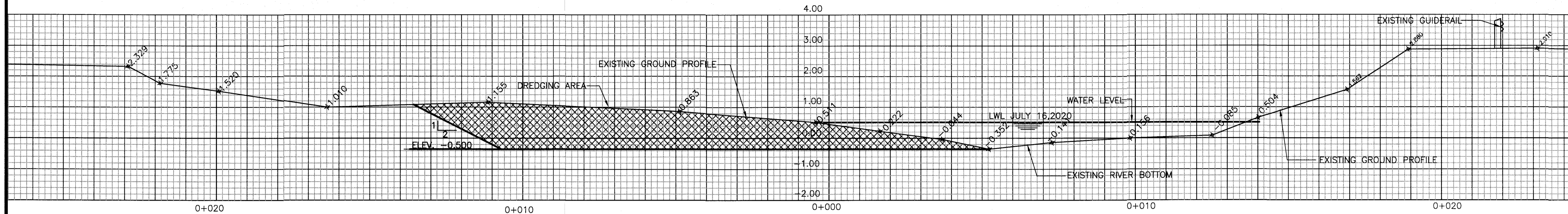
DRAWING NO: **C-04** REV NO: 00

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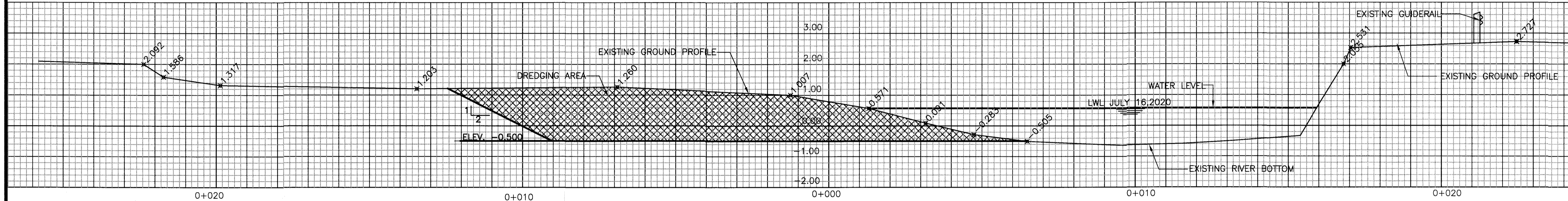
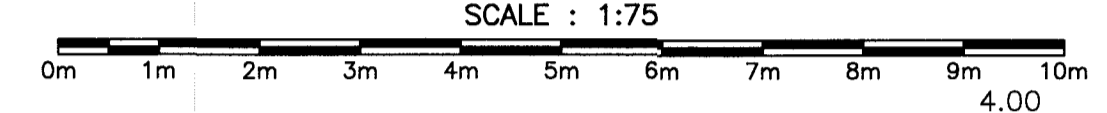
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SITE PLAN
STA. 0+200 TO STA. 0+360
 SCALE: 1:250

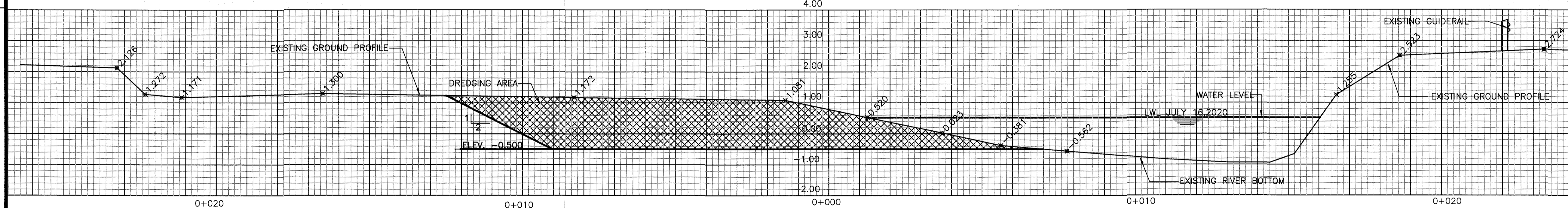
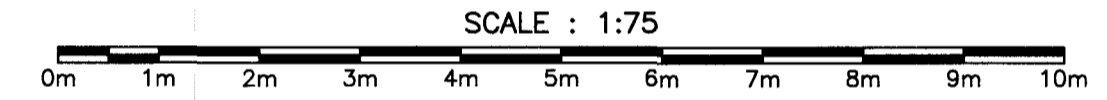
201729



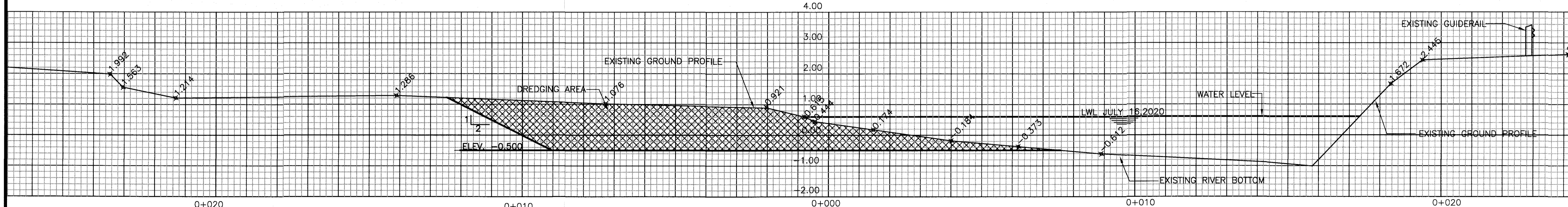
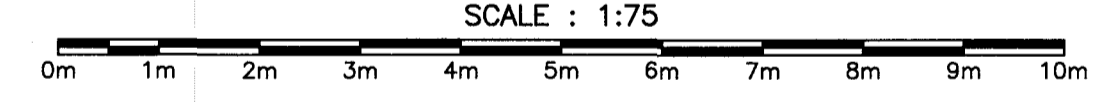
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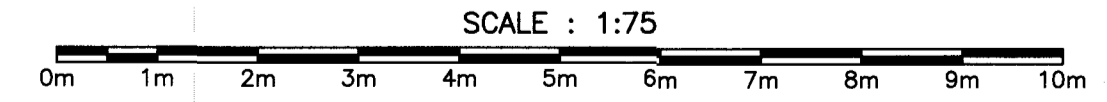
EXISTING SECTION AT 0+040



EXISTING SECTION AT 0+060



EXISTING SECTION AT 0+080



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 NL, AOK 5P0

PROJECT:

RIVER DREDGING
 DECCM #17 - MCW-20-00028

DRAWING TITLE:

SECTIONS
 STA. 0+000
 STA. 0+040
 STA. 0+060
 STA. 0+080

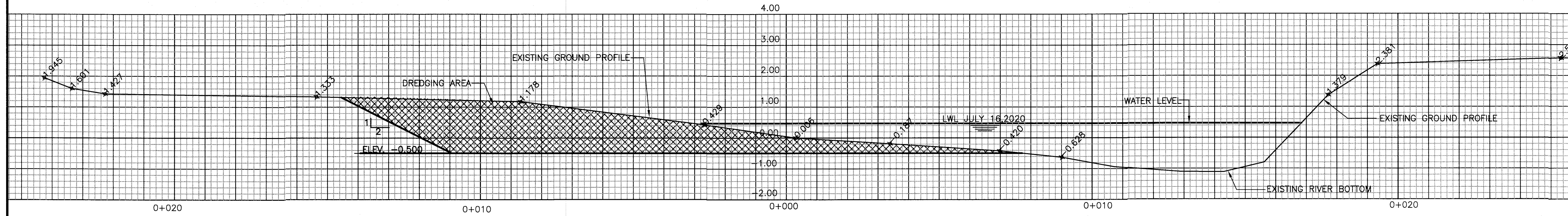
DRAWN BY: R.S.H.	DATE: 17/11/20
DEVELOPED BY: S.G. OSMOND	SCALE: AS SHOWN
AEC PROJECT NO: 201729	

DRAWING NO: C-05	REV NO: 00
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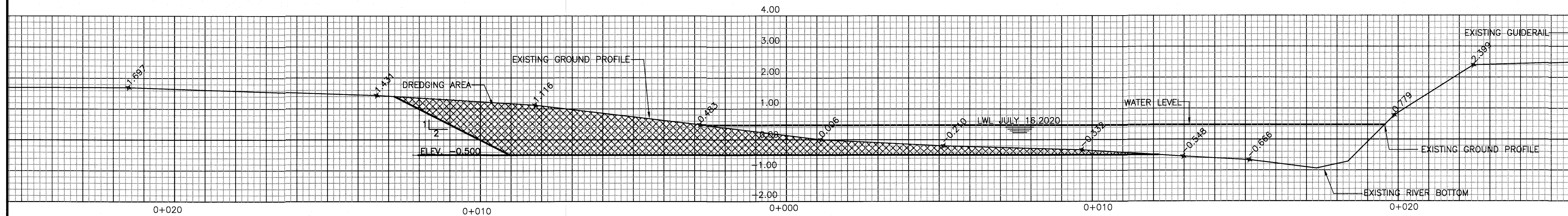
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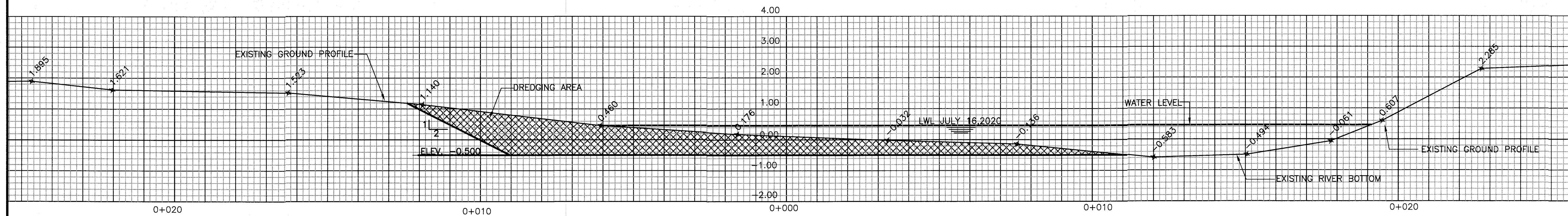
201729



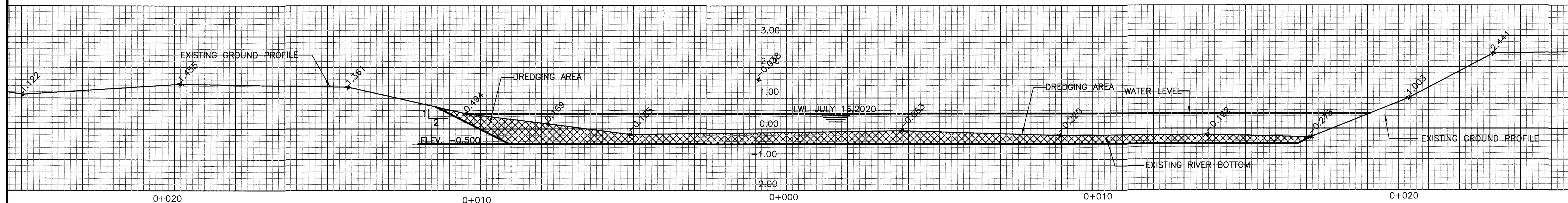
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SCALE : 1:75



EXISTING SECTION AT 0+120
SCALE : 1:75



EXISTING SECTION AT 0+160
SCALE : 1:75



EXISTING SECTION AT 0+200
SCALE : 1:75

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which is valid for the year 2020

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checked by: S.G. OSMOND
approved by: W.J. ANDERSON
date: 17/11/20

NOTES:

00	ISSUED FOR REVIEW	17/11/20
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PROJECT:

RIVER DREDGING
DECCM #17 - MCW-20-00028

DRAWING TITLE:

SECTION
STA. 0+100
STA. 0+120
STA. 0+160
STA. 0+200

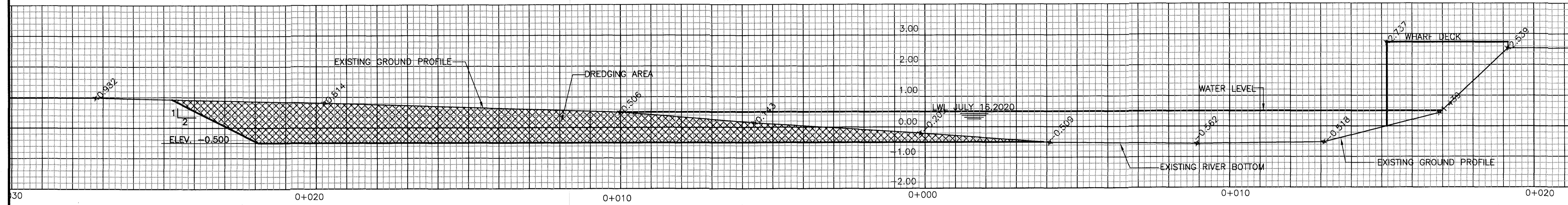
DRAWN BY: R.S.H. DATE: 17/11/20
DEVELOPED BY: S.G. OSMOND SCALE: AS SHOWN
AEC PROJECT NO:
201729

DRAWING NO: **C-06** REV NO: 00

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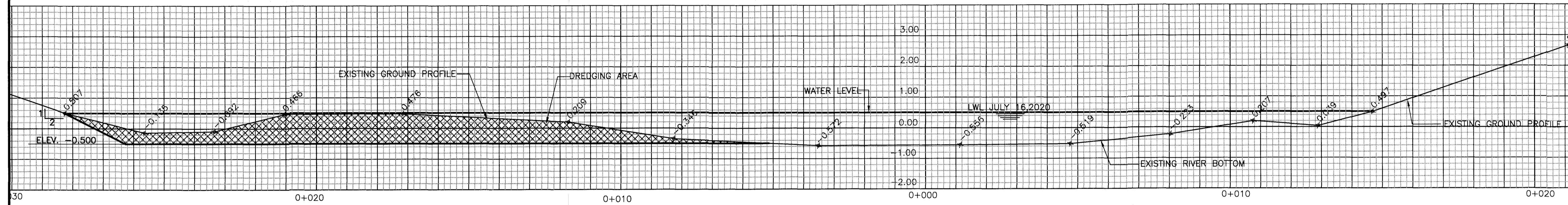
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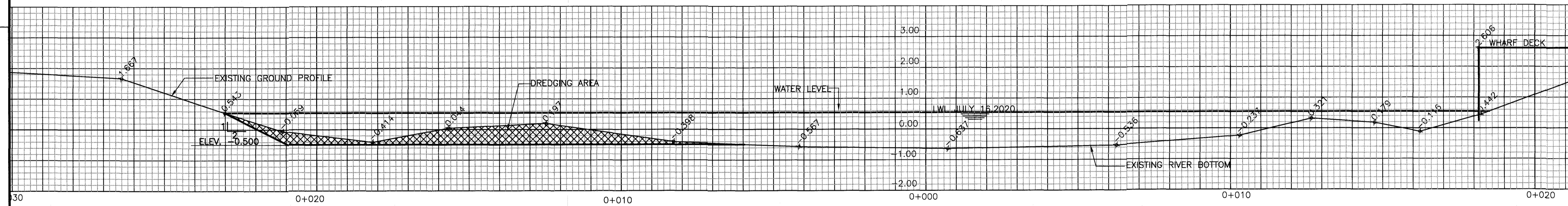
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SCALE : 1:75



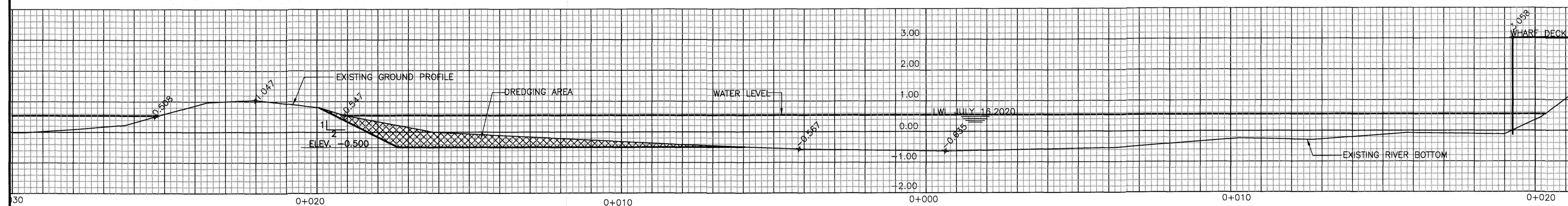
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SCALE : 1:75



EXISTING SECTION AT 0+320

SCALE : 1:75

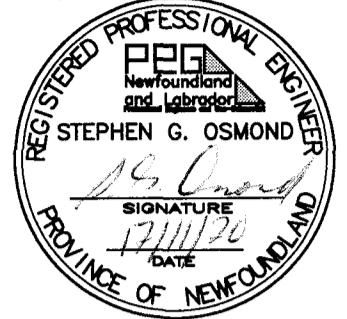


EXISTING SECTION AT 0+340

SCALE : 1:75

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PROJECT:
 RIVER DREDGING
 DECCM #17 - MCW-20-00028

DRAWING TITLE:
 SECTIONS
 STA. 0+240
 STA. 0+280
 STA. 0+320
 STA. 0+340

DRAWN BY: R.S.H. DATE: 17/11/20
 DEVELOPED BY: S.G. OSMOND SCALE: AS SHOWN
 AEC PROJECT NO: **201729**

DRAWING NO: **C-07** REV NO: 00

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