I:\TROW.COM\PROJECTS\FRE\FRE-00241645-A0\60 PROJECT EXECUTION\A0\1 CAD\CON01\14-01 SHEET

STEVE WETMORE

8/27/2018 10:00 AM

GENERAL NOTES

1. THE LOCATION AND EXTENT OF ALL SERVICES AND UTILITIES IS FOR GUIDANCE PURPOSES ONLY. CHECK AND VERIFY ALL EXISTING CONDITIONS, LOCATIONS AND ELEVATIONS WHICH INCLUDE, BUT IS NOT LIMITED TO; BENCHMARK ELEVATIONS, EXISTING SERVICE CONNECTIONS AND EXISTING INVERTS. ALL DISCREPANCIES TO BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING.
2. OBTAIN ALL UTILITY LOCATES AND REQUIRED PERMITS AND LICENSES.
3. CONFIRM ALL DRAWINGS USED FOR CONSTRUCTION ARE THE MOST RECENT REVISION.
4. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR DAMAGE TO EXISTING WORKS.
5. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS ON WORKING DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. ANY CHANGES, ALTERATIONS OR REVISIONS MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
6. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS
7. DESIGN AND CERTIFIED SHOP DRAWINGS:

   CONTRACTOR IS TO SUBMIT CERTIFIED SHOP DRAWINGS, BY AN ENGINEER LICENSED IN THE PROVINCE OF NEW BRUNSWICK, FOR THE FOLLOWING:

   7.1. CAST-IN-PLACE CONCRETE FOUNDATIONS / BULK STORAGE WALL SYSTEM.

   7.2. STEEL FRAMED FABRIC COVERED BUILDING STRUCTURE SYSTEM INCLUDING;

   7.3. DESIGNS REQUIREMENTS:
   7.3.1. BULK STORAGE WALL SYSTEM:
   7.3.1.1. WALL BACKFILL AND DRAINAGE
   7.3.1.2. SOIL CONDITIONS
   7.3.1.3. LOADINGS DEFINED IN THE NATIONAL BUILDING CODE AND THE CANADIAN FOUNDATION ENGINEERING DESIGN HANDBOOK (MOST RECENT EDITIONS), THE LOCATION AND CONDITIONS OF THIS SITE, AND THE PROPOSED USE OF THE STRUCTURE.

   7.3.1. STEEL FRAMED FABRIC COVERED BUILDING STRUCTURE;
   7.3.1.1. REFER TO SPECIFICATION SECTION 13 31 33 FOR DESIGN CRITERIA AND OTHER REQUIREMENTS.
8. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND/OR TEST REPORTS FOR APPROVAL, PRIOR TO COMMENCING CONSTRUCTION, FOR ALL MATERIALS TO BE INCORPORATED INTO THE WORK INCLUDING

   8.1. ALL IMPORTED GRANULAR BASE, SUB-BASE AND FILL MATERIALS.
   8.2. CONCRETE MIX DESIGN
   8.3. ASPHALT MIX DESIGN
   8.4. REINFORCING STEEL
   8.5. STRUCTURAL STEEL

SITE WORK

1. PROOF ROLL EXISTING FILL MATERIAL. REMOVE ANY LOOSE OR SOFTENED AREAS BENEATH BEFORE PLACING GRANULAR FILL.
2. ALL FOOTINGS SHALL BEAR DIRECTLY ON UNDISTURBED SOIL OR ENGINEERED COMPACTED FILL
3. ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM 5 FT. (1.5M) BELOW FINISHED EXTERIOR GRADE OR AN EQUIVALENT DEPTH WITH APPROPRIATE FROST PROTECTION INSULATION.
4. SITE WORK MATERIALS AND CONSTRUCTION METHODOLOGY SHALL BE IN ACCORDANCE WITH NBDOT (DTI) STANDARD SPECIFICATIONS:

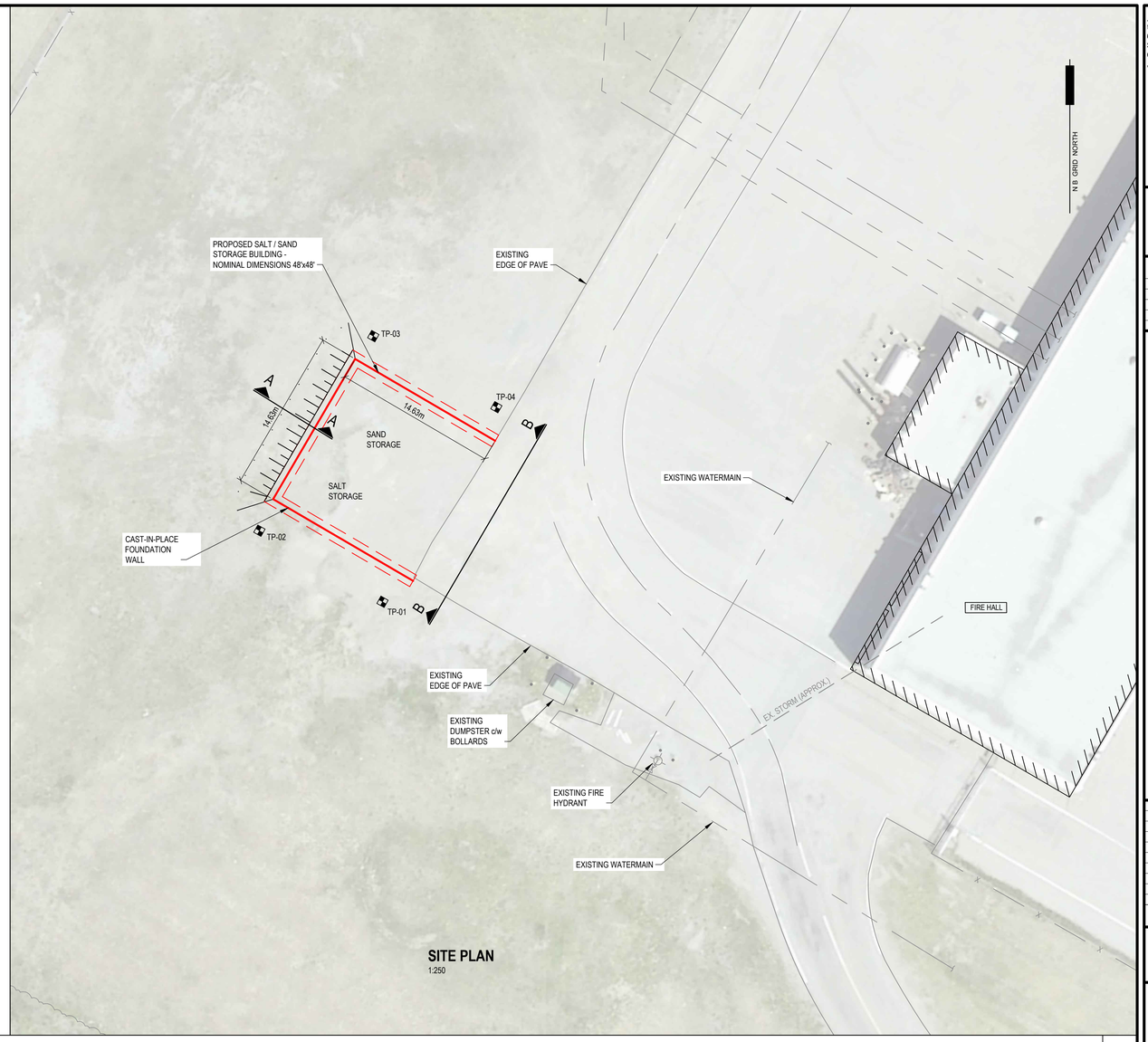
   4.1. GRANULAR BASE AND SUB-BASE - NBDOT ITEM 201 & 203. COMPACT TO 95% OF MAXIMUM AS DETERMINED BY ASTM D698. MAXIMUM LIFT THICKNESS SHALL BE 250mm.
   4.2. ASPHALT -NBDOT ITEM 260
   4.3. TOPSOIL - NBDOT ITEM 613
   4.4. HYDROSEED - NBDOT ITEM 614

CONCRETE

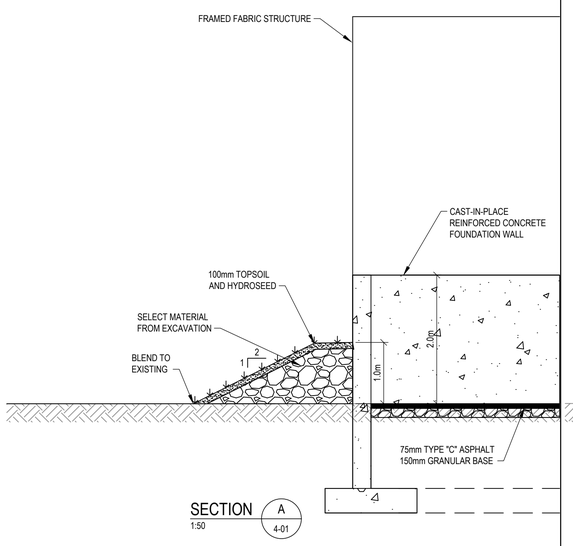
1. ALL CONCRETE WORK TO CONFORM WITH CSA STANDARD A23.1 / A23.2
2. REINFORCING STEEL SHALL BE DEFORMED HI-BOND HARD GRADE WITH A MINIMUM YIELD STRENGTH OF 400 MPA.
3. ALL REINFORCING STEEL SHALL BE SHOP FABRICATED TO INCLUDE HOOKS AND BENDS.
4. WELDING OF REINFORCING STEEL SHALL NOT BE PERMITTED.
5. ALL REINFORCING STEEL FABRICATION AND PLACEMENT DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW BEFORE FABRICATION.
6. CONCRETE: ALL CONCRETE SHALL HAVE SHALL HAVE THE FOLLOWING PROPERTIES:
   CLASS OF EXPOSURE: C-XL
   MAX. W/C RATIO: 0.40
   28 DAY COMPRESSIVE STRENGTH: 50 MPA
   AIR CONTENT: 5-8%
   UNLESS OTHERWISE SPECIFIED.
7. FORM RELEASE AGENT TO BE APPLIED PRIOR TO ERECTION OF FORMS. DO NOT ALLOW FORM RELEASE AGENT TO CONTACT REINFORCING STEEL OR CONCRETE SURFACES UNLESS A BOND BREAK IS SPECIFIED AT THE LOCATION. REINFORCING STEEL OR CONCRETE SURFACES EXPOSED TO FORM RELEASE AGENT WILL BE REMOVED OR CLEANED BY SAND-BLASTING OR METHOD APPROVED BY THE ENGINEER.
8. DO NOT ADD WATER TO CONCRETE UNLESS WRITTEN APPROVAL GIVEN BY THE ENGINEER. IF HIGHER SLUMP CONCRETE IS DESIRED, CONCRETE SUPPLIER SHALL DESIGN AND SUPPLY ACCORDINGLY.
9. SLUMP OF CONCRETE TO BE 75MM +/- 25MM OR AS OTHERWISE SPECIFIED. CONCRETE WITH 110MM SLUMP OR MORE IS TO BE REJECTED.

STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO CSA G40.21-44W, G40.21-50W CLASS H FOR H.S.S AND G40.21-50W FOR W SHAPES SECTIONS.
2. WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD W59 AND SHALL BE UNDERTAKEN BY A FABRICATOR AND ERECTOR FULLY APPROVED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA STANDARD W47, DIVISION 1 OR DIVISION
3. BOLTED CONNECTIONS SHALL USE A325 BOLTS.



SITE PLAN
1:250



SECTION A
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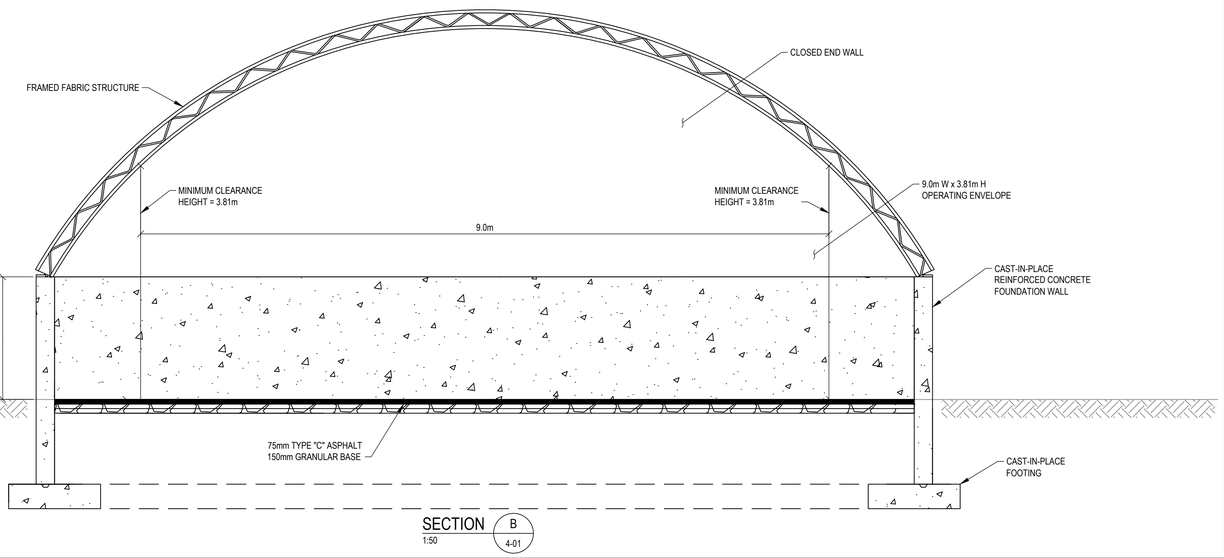

SECTION B
1:50
4-01

EXP Services Inc.
t: +1.506.646.8020 | f: +1.506.646.8025
602 Rothesay Avenue,
Saint John, NB E2H 2H1
CANADA
www.exp.com

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No.	Issue	Date

No.	Revision	Date
1	GENERAL REVISIONS	2018.AUG.21

ISSUED FOR TENDER

Professional Seal:
REGISTERED PROFESSIONAL ENGINEER
Province of New Brunswick
#M5874
Angus MacKenzie
Signature
2018-Aug-22
Date
Province du Nouveau-Brunswick
INGÉNIEUR IMMATRICULÉ

Drawn By:	OSE
Dwg Standards Ckd By:	
Designed By:	SEW
Design Checked By:	
Scale:	AS SHOWN

Project Title

SAINT JOHN AIRPORT
SALT & SAND STORAGE

Dwg. Title

SITE PLAN

Project No.
FRE-00241645-A0

Dwg. No.	Rev. No.
4-01	1

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