LEGEND:

- PROPERTY BOUNDARY
- 000.00 — FINISHED ASPHALT
- 000.00 — EXISTING GROUND SPOT ELEVATIONS
- EX. STORM MANHOLE
- EX. CATCHBASIN
- EX. SANITARY MANHOLE
- EX. WATER VALVE
- EX. HYDRANT
- HP — EX. HYDRO POLE
- EX. STORM SEWER
- EX SANITARY SEWER
- NEW SANITARY SEWER
- NEW SANITARY MANHOLE
- NEW LINE VALVE
- NEW HYDRANT
- NEW INCREASER / REDUCER
- EX. BOLLARD
- EX. OVERHEAD DOOR
- EX. ENTRANCE LOCATION
- NEW BOLLARD
- X — EXISTING FENCE
- EXISTING OVERHEAD WIRES
- LIMITS OF WORK

HARMON PORT AUTHORITY

EX .BUILDING

62mm WATERLINE

GRASS AREA

ASSUMED 7.5m NEWFOUNDLAND POWER EASEMENT

GATE

CONCRETE

STORAGE

CB 2967R I.E. 1.61

CB 2948R I.E. 2.45

DRAINAGE FIELD AREA 3 – 30LM – 100mm PERFORATED DRAINAGE PIPE SLOPED AT 1.00%, INTERCONNECTED AT ENDS. REMOVE EXISTING ASPHALT, GRANULARS AND UNSUITABLE MATERIAL TO A DEPTH OF 1.3m AND REPLACE WITH SAND WITH A MINIMUM PERCOLATION RATE OF 5 MINUTES.

EXISTING ASPHALT (SHADED)

EX BOLLARDS TYP

PAVED AREA

CB 3013R I.E. 1.84

EX BUILDING FFE 3.70

EX. 250 CMP STORM SEWER

PORT ACCESS ROAD

EX. TRANSFORMER PAD.

EX. CONCRETE SLAB

EX. RAMP

ASSUMED 7.5m NEWFOUNDLAND POWER EASEMENT

EX. 250 CMP STORM SEWER (SEE NOTE 2)

I.E. 1.75

1.2m (TYP.)

WATER LINE EASEMENTS

EX. WV

150mm D.I. WATERLINE

65mm D.I. WATERLINE

NOTIFY ENGINEER OF CONFLICTS WITH EXISTING WATERMAIN

THE UPSTREAM INTERCONNECTED ENDS OF DRAINAGE FIELD ARE TO BE 100mm PVC (SDR 28) NON–PERFORATED SANITARY SEWER.

NEW 2.0m 150 PVC (SDR 35) SANITARY SEWER @ 2.00% (SEE NOTE 19).

I.E. 2.05

CB 2967R I.E. 1.69

LIMIT OF EXCAVATION AND ASPHALT REINSTATEMENT. SEE NOTE 5.

SECONDARY SEWAGE TREATMENT PLANT BILVET–BL1000 (SEE NOTE 16/20) I.E. 2.05 (U/S) I.E. 2.10 (D/S)

CB 3001R I.E. 1.26

NEW PROTECTION BOLLARD (TYP). SEE DETAIL 2 – DWG D1.

NEW 65.0m 150 PVC (SDR 35) SANITARY SEWER @ 1.15% (SEE NOTE 19).

EX. 300mm CMP STORM SEWER

400 mm CMP STORM SEWER

150 mm PVC SANITARY SEWER

APPROX. LOCATION STORM SEWER

APPROX LOCATION SANITARY SEWER

SEPTIC TANK

MH 3010R TOP EL 3.33 I.E. 0.75 I.E. 0.84 I.E. 0.85 I.E. 0.93

EXISTING SEPTIC TANK TO BE DECOMMISSIONED. CONTRACTOR TO PUMP OUT EXISTING TANK AND FILL W/ GRAVEL. IF THERE IS ANY SPILLAGE OF TANK CONTENTS DURING DECOMMISSIONING, THE AREA SHOULD BE TREATED WITH LIME.

REMAINING END OF SEWER TO BE GROUTED IN PLACE. CAP STUB 1.0m FROM NEW CONNECTION.

EX. 150mm CMP SANITARY SEWER @2.00% SLOPE I.E. AT BUILDING 3.13.

PROVIDE 45° FITTING 150mm PVC (SDR 35)

NEW 4.0m 150 PVC (SDR 35) SANITARY SEWER @ 1.00% (SEE NOTE 19).

EXCAVATE AND LOCATE EXSITING SANITARY SERVICE. CONSTRUCT NEW MANHOLE TO CONNECT TO EXISTING SANITARY SEWER (SEE NOTE 16/19) MH3021S 1200ø TOP EL 3.48 I.E. 2.95 I.E. 2.80

EX. 150mm CMP SANITARY SEWER @ 2.00% SLOPE.

EX. 300mm CMP STORM SEWER.

EX. SIGN

SITE OF PENNECON LIMITED

NOT FOR CONSTRUCTION

PINNACLE ENGINEERING LIMITED
Civil Engineering & Project Management

NOTES

1. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE GOVERNMENT OF NEWFOUNDLAND AND LABRADOR MUNICIPAL WATER, SEWER, AND ROAD SPECIFICATIONS BOOK.
2. ALL MEASUREMENTS ARE HORIZONTAL GROUND DISTANCES IN METERS AND REFERENCED TO NAD83 DATUM.
3. DRAINAGE FIELD TO BE INSTALLED IN ACCORDANCE WITH GOVERNMENT SERVICE CENTER STANDARDS.
4. REMOVE AND DISPOSE OF EXISTING ASPHALT (AS HATCHED) OFF SITE.
5. ALL DISTURBED AREAS IN EXISTING PAVED LOTS TO BE REINSTATED. ENSURE REINSTATED PAVEMENT STRUCTURE CONSISTS OF 150mm CLASS 'A', 150mm CLASS 'B' AND 75mm ASPHALT. BLEND IN WITH EXISTING)
6. DRAINAGE TRENCH CROSS SECTION TO BE CONSTRUCTED AS PER THE PRIVATE SEWAGE DISPOSAL AND WATER SUPPLY STANDARDS OF NEWFOUNDLAND AND LABRADOR.
7. TOPOGRAPHIC SURVEY OF AUGUST 2015 BY R. DAVIS SURVEYS LTD.
8. CONTRACTOR / SURVEYOR TO LOCATE NEW INFRASTRUCTURE USING COORDINATES; DIMENSIONS SHOWN ARE FOR INFORMATION PURPOSES ONLY.
9. CONTRACTOR RESPONSIBLE TO SECURE SITE DURING CONSTRUCTION FOR PUBLIC SAFETY.
10. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS ON SITE BEFORE PROCEEDING WITH THIS WORK.
11. DO NOT SCALE FROM DRAWINGS.
12. ALL DISTURBED AREAS BEYOND LIMITS OF WORK TO BE RESTORED TO ORIGINAL CONDITIONS OR BETTER.
13. INSTALL GRANULARS, ASPHALT, & CURB IN ACCORDANCE WITH THE GOVERNMENT OF NEWFOUNDLAND AND LABRADOR MUNICIPAL WATER, SEWER, AND ROAD SPECIFICATIONS.
14. ALL DIMENSIONS, PIPE SIZES AND INVERT ELEVATIONS OF EXISTING INFRASTRUCTURE TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
15. PRIOR TO COMMENCEMENT OF NEW UNDERGROUND INFRASTRUCTURE EXCAVATE EX. PIPES WHERE NEW PIPES ARE TO CROSS TO CONFIRM ELEVATION OF EX. PIPES. ADVISE ENGINEER OF ANY CONFLICTS.
16. MANHOLE SIZE SHOWN TO BE CONFIRMED BY MANHOLE SUPPLIER. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR MANHOLE = SECONDARY SEWAGE TREATMENT PLANT. SHOP DRAWINGS SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN NEWFOUNDLAND AND LABRADOR.
17. BED SANITARY SEWER IN CLASS 'B' BEDDING.
18. CONSTRUCT, TEST, AND INSPECT SANITARY SEWER IN ACCORDANCE WITH THE GOVERNMENT OF NEWFOUNDLAND AND LABRADOR MUNICIPAL WATER, SEWER, AND ROAD SPECIFICATIONS.
19. WHERE 1.2m COVER CANNOT BE ACHIEVED, OVER EXCAVATE FULL TRENCH WIDTH 1.0m AND BACKFILL WITH NON-FROST SUSCEPTIBLE 100mm MINUS CRUSHED ROCKFILL COMPACTED IN 300mm LIFTS TO 100% STANDARD PROCTOR DENSITY.
20. SECONDARY SEWAGE TREATMENT PLANT TO ADHERE TO GOVERNMENT OF NEWFOUNDLAND AND LABRADOR DEPARTMENT OF ENVIRONMENT AND CONSERVATION WATER RESOURCES MANAGEMENT DIVISION GUIDELINES OF THE DESIGN, CONSTRUCTION, AND OPERATION OF WATER AND SEWERAGE SYSTEMS. CONTRACTOR TO PROVIDE SHOP DRAWINGS AND ADVISE OWNER'S REPRESENTATIVE OF ANY CHANGE OF INVERT ELEVATIONS OF INLET AND OUTLET.

NO.	REVISIONS	DATE
2	ISSUED FOR TENDER	09/24/15
1	ISSUED FOR 99% REVIEW	09/21/15
0	ISSUED FOR 66% REVIEW	09/09/15

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — PEGL — PROVINCE OF NEWFOUNDLAND
MEMBER: A.C. MARTIN
SIGNATURE
24 SEPT 2015
DATE

PROVINCE OF NEWFOUNDLAND
PEGL Newfoundland and Labrador
PERMIT HOLDER
Class "A"
This Permit Allows
PINNACLE ENGINEERING LIMITED
To practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by PEGNL L0331 which is valid for the year 2015.

CLIENT
DEPARTMENT OF FISHERIES AND OCEANS

PROJECT TITLE
CANADIAN COAST GUARD BASE STEPHENVILLE SEPTIC SYSTEM

SHEET TITLE
SITE SERVICING PLAN

PROJECT NO.
15021

DRAWN BY	CHECKED BY
BERP	KHH
DATE: AUGUST 2015	DRAWING NO.: C1
SCALE: 1 : 300	